FINAL

GROUNDWATER SAMPLING REPORT
THIRD QUARTER 2015

FTMM-22, FTMM-53 and FTMM-68

FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

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and

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Prepared By:

PARSONS

401 Diamond Dr. NW, Huntsville, AL 35806

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FINAL
GROUNDWATER SAMPLING REPORT
THIRD QUARTER 2015

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Contract Name:	**Remedial Investigation/Feasibility Study/Decision Documents, Fort Monmouth, Oceanport, Monmouth County, New Jersey**
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Reviewed and Approved by:

Project Manager: _____ 6/30/2016
Christina Grill, P.G. Date

Program Manager: _____ 6/30/2016
Don Silkebakken, V.P. Date

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LIST OF ACRONYMS

ACRONYM	DEFINITION
Accutest	Accutest Laboratories
BRAC	Base Realignment and Closure
CWA	Charles Wood Area
DOD	Department of Defense
ELAP	Environmental Laboratory Accreditation Program
FTMM	Fort Monmouth
FS	feasibility study
FSPM	Field Sampling Procedures Manual
GWQS	Ground Water Quality Standards
HASP	health and safety plan
LFPS	low-flow purging and sampling
MCL	Maximum Contaminant Level
MP	Main Post
MTBE	methyl tert-butyl ether
NELAP	National Environmental Laboratory Accreditation Program
NJDEP	New Jersey Department of Environmental Protection
Parsons	Parsons Government Services, Inc.
PDB	passive diffusion bag
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control
RI	remedial investigation
QSM	Quality Systems Manual
SAP	Sampling Analysis Plan
TCL	target compound list
TO	Task Order
TRSR	Technical Requirements for Site Remediation
USAESCH	United States Army Engineering & Support Center, Huntsville
USEPA	United States Environmental Protection Agency
VOC + TICs	volatile organic compound and tentatively identified compounds
WERS	Worldwide Environmental Restoration Services

1.0 INTRODUCTION

This report presents the results for the groundwater sampling third quarter 2015 event performed at three sites within Fort Monmouth (FTMM) by Parsons Government Services, Inc. (Parsons) to support the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at FTMM, Oceanport, Monmouth County, New Jersey. The three sites are as follows:

1. FTMM-22 Former Wastewater Treatment Lime Pit (CWA-1);
2. FTMM-53 Former Gas Station at Building 699; and
3. FTMM-68 Former Dry Cleaners UST at Building 700.

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

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

- New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (TRSR) (N.J.A.C. 7:26E); and
- New Jersey Field Sampling Procedures Manual (FSPM) (February 2005).

1.1 PURPOSE AND SCOPE

Groundwater sampling was conducted between June 2015 and September 2015, and the sampling program is consistent with the recommendations for quarterly sampling made in the Baseline Groundwater Sampling Report (August 2013) and Annual (Fourth Quarter) 2014 Groundwater Sampling Report.

1.2 REPORT ORGANIZATION

This Groundwater Sampling Third Quarter 2015 Report includes the following sections:

- Section 1 provides an introduction and organization to the report;
- Section 2 presents general information on the third quarter 2015 groundwater sampling event, a description of any significant deviations or events that may have impacted results, and the usability of laboratory analytical data;
- Section 3 provides the applicable remedial standards for FTMM;
- Section 4 presents the references used in preparation of this report;
- Appendices A through C provide the groundwater analytical results for the third quarter 2015;
- Appendix D provides a memorandum regarding data validation for the third quarter 2015 sampling event; and
- Appendix E provides the laboratory analytical package, which is included only on a CD.

2.0 GROUNDWATER SAMPLING PROGRAM

2.1 INTRODUCTION

The work performed for the groundwater sampling program was conducted as outlined in the project's Sampling and Analysis Plan (SAP) dated March 2013, and Health and Safety Plan (HASP) dated February 2013. The groundwater sampling event included measurements of the depth to water in the wells at the three FTMM sites and the collection of groundwater samples from 16 selected monitoring wells at the three sites, consistent with previous quarterly groundwater sampling programs. The monitoring wells are located at three sites within two areas of FTMM, the Main Post (MP) area and Charles Wood Area (CWA). The three sites are as follows: FTMM-22, FTMM-53 and FTMM-68. A summary of the total number of wells at each site and the number of wells sampled for this quarterly event is provided in **Table 1**. The locations of the three sites discussed in this report are provided in **Figure 1**, **Figure 2**, and **Figure 3**.

The subsections below provide a description of the general activities conducted to complete the quarterly event. Further details regarding groundwater sampling activities and results for each individual site are provided in **Appendices A through C**.

2.2 SUMMARY OF FIELD AND LABORATORY WORK

2.2.1 Water Level Measurements

On June 29, 2015, synoptic depth-to-water measurements were made in monitoring wells at the three FTMM sites prior to initiating groundwater sampling activities. The measurements were obtained with an electronic oil water interface meter from the top of the inner casing of the well. The meter was decontaminated during the measurement event in accordance with the SAP. Water level measurements were used to prepare the groundwater elevation maps, and confirm the previously determined groundwater flow directions.

2.2.2 Monitoring Well Assessment

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

2.2.3 Groundwater Sampling

Groundwater samples were collected from 16 monitoring wells using passive diffusion bag (PDB) sampling methods. PDBs were deployed on June 29, 2015 and samples were retrieved on September 30, 2015. NJDEP approved the use of PDB sampling in a letter dated July 29, 2013 at FTMM-22 and FTMM-68, and at the time FTMM-53 was not approved for PBDs because of the historical presence of methyl tert-butyl ether (MTBE) in groundwater. However, the August 2013 baseline and Third Quarter 2014 groundwater sampling results demonstrated that MTBE was no longer present in the wells or detected at very low concentrations (just above the detection limit) on the site, so this site was deemed eligible for sampling using PDBs. PDBs were filled with laboratory-grade de-ionized water, deployed in monitoring wells and allowed to

equilibrate for a minimum of two weeks prior to retrieving and collecting groundwater samples. Groundwater sampling activities using PDBs were performed in accordance with the NJDEP FSPM (NJDEP 2005) and the SAP. Vertical profiling of well screens for each fully saturated five foot interval was performed, where required, during the quarterly sampling program. If vertical profiling had previously been performed on a particular well it was not repeated.

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

ALS Environmental of Rochester, NY served as the primary analytical laboratory for the 2015 Third Quarter groundwater sampling event. Samples were shipped on ice under chain of custody to ALS via FedEx. Accutest Laboratories (Accutest) of Dayton, NJ served as the quality assurance (QA) laboratory. Five percent of groundwater samples collected were "split" and submitted to both ALS Environmental and Accutest consistent with the SAP. Both ALS and Accutest are Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP) and National Environmental Laboratory Accreditation Program (NELAP) certified laboratories that follow the project specifications of the DOD Quality Systems Manual (QSM) Version 4.1 or the latest version.

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

2.2.3.1 Groundwater Sampling at FTMM-22

Currently the remedial investigation (RI) report for FTMM-22 is in the process of being completed by the Army and subsequently will be submitted to the NJDEP for review. In the meantime, FTMM will temporarily suspend the long-term monitoring program (LTMP) for groundwater at FTMM-22 beginning in the first quarter of 2016. The reason is because the collective RI data for FTMM-22 already provides a good characterization of the concentrations of constituents in groundwater and allows for the evaluation of the groundwater data as a whole. Since the RI process is ongoing, there is minimal benefit to continuing the LTMP while characterization of the site is being completed. This approach was approved in a letter from the NJDEP dated March 16, 2016. Once the RI is complete and accepted by the NJDEP, a revised LTMP for the groundwater will be submitted for FTMM-22 and include the sampling of monitoring well CW1MW40 (per the NJDEP comment letter received on February 25, 2016).

2.2.3.2 Groundwater Sampling at FTMM-53

FTMM will temporarily suspend the LTMP for groundwater at FTMM-53 beginning in the first quarter of 2016. The collective RI data for FTMM-53 provides a good characterization of the concentrations of constituents in groundwater and allows for the evaluation of the groundwater data as a whole. Since the RI process is ongoing there is minimal benefit to continue the LTMP while characterization of the site is being completed. Once the RI is complete and accepted by the NJDEP, a revised LTMP for the groundwater will be submitted for FTMM-53. This approach was approved in a letter from the NJDEP dated March 16, 2016. Additionally, concentration trends will be addressed in the RI report for FTMM-53.

2.2.3.3 Groundwater Sampling at FTMM-68

FTMM-68 is currently in the RI phase with the initial field work investigation recently completed in December 2015. At the time of the data collection for the quarterly 2015 reports the

only two existing on-site wells (565MW01 and 565MW01D) had not been surveyed. The two wells were surveyed in December 2015 and the new survey data along with additional groundwater elevation points and groundwater contour maps will be incorporated into the Annual (Fourth Quarter) 2015 Groundwater Report. Additionally, comparison of LFPS and PDB sampling at FTMM-68 has not been suspended since the NJDEP agreed in their February 5, 2015 letter to postpone this sampling until the site was fully characterized.

The December 2015 investigation at FTMM-68 consisted of sampling the existing and newly installed wells using the LFPS method and characterization of the groundwater samples for VOC analyses. The RI data are being reviewed and in the meantime FTMM will temporarily suspend the LTMP for FTMM-68, as approved in a letter from the NJDEP dated March 16, 2016. The collective RI data provides a good characterization of the concentrations of constituents in groundwater at the site and since the RI is ongoing there is minimal benefit to continue the LTMP while characterization of the site is being completed. Once the RI is complete and accepted by the NJDEP, a revised LTMP will be submitted that will include conducting LFPS and PDB sampling concurrently for one quarter.

2.2.4 QA/QC Sampling

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

2.3 DEVIATIONS FROM QAPP AND SAP

Deviations from the SAP are summarized in **Table 3**. There were no significant deviations that could have adversely affected the sampling procedures or the groundwater analytical results presented in this report.

2.4 USABILITY OF LABORATORY ANALYTICAL DATA

A Level IV validation was performed on one analytical data set report collected during the 2015 Third Quarter groundwater sampling event. Consistent with the project QAPP, the validation for long term monitoring data includes a minimum of one report per sampling event or 33% of the data throughout the project, whichever is less. The data submitted by the laboratory has been reviewed and validated as per the SAP and was found to be usable for the purposes of this project. The Data Validation Summary Report is provided in **Appendix D** and complete laboratory analytical reports for the groundwater samples collected for this quarterly event are provided in **Appendix E** (on CD).

3.0 APPLICABLE REMEDIAL STANDARDS

For the FTMM sites, groundwater results were compared to NJDEP Ground Water Quality Standards (GWQS) for Class IIA waters and the United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels (MCLs) for drinking water. Analytical results for each site are provided in the respective appendices.

3.1 ANOMALOUS RESULTS

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

4.0 REFERENCES

New Jersey Department of Environmental Protection. *Field Sampling Procedures Manual*, August 2005, Revised April 2009.

New Jersey Department of Environmental Protection. *Letter from Ms. Linda Range, Bureau of Case Management, to Ms. Wanda Green, BRAC Environmental Coordinator at Fort Monmouth.* May 2012.

New Jersey Department of Environmental Protection. *RE: November 26, 2014 Response to Comments - on the Final Baseline Ground Water Sampling Report (August 2013)* - February 5, 2015.

New Jersey Department of Environmental Protection. *RE: Temporary Suspension of Long Term Monitoring Program for Ground Water at Sites FTMM_22, FTMM-53, FTMM-59 and FTMM-68.* March 16, 2016.

New Jersey Department of Environmental Protection. *Technical Requirements for Site Remediation*, July 2013.

Parsons. *Accident Prevention Plan*. February 2013.

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

Parsons, *Baseline Groundwater Sampling Report (August 2013)*, March 2015.

USEPA, *List of Contaminants and their (mcls).* Retrieved from USEPA Drinking Water Contaminants, website: http://water.epa.gov/drink/contaminants/#List. June 2013

TABLES

Table 1 Summary of Monitoring Wells at Selected FTMM Sites
Table 2 Groundwater Sampling Summary
Table 3 Groundwater Sampling Deviations

Table 1
Summary of Monitoring Wells at Selected FTMM Sites
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site	Area	Total Number of Wells	Number of Wells Sampled in 3rd Quarter 2015
FTMM-22: Former Wastewater Treatment Lime Pit (CWA-1)	CW	17	6
FTMM-53: Former Gas Station at Building 699	MP	14	8
FTMM-68: Former Dry Cleaners UST at Building 700	MP	2	2
Totals:		33	16

Notes:

1) MP - Main Post

2) CW - Charles Wood

Table 2
Groundwater Sampling Summary
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site / Well ID	Analytical Analysis	Sampling Method	Sample Date
FTMM-22: Former Wastewater Treatment Lime Pit (CWA-1)			
CW1MW27	VOCs & TICs-EPA Method 8260C	PDB	6/29/15, 9/30/15
CW1MW28			6/29/15, 9/30/15
CW1MW29			6/29/15, 9/30/15
CW1MW31			6/29/15, 9/30/15
CW1MW37			6/29/15, 9/30/15
CW1MW281			6/29/15, 9/30/15
FTMM-53: Former Gas Station at Building 699			
699MW01	VOCs & TICs-EPA Method 8260C	PDB	6/29/15, 9/30/15
699MW04			6/29/15, 9/30/15
699MW06			6/29/15, 9/30/15
699MW09			6/29/15, 9/30/15
699MW16			6/29/15, 9/30/15
699RW03			6/29/15, 9/30/15
699RW05			6/29/15, 9/30/15
699RW11			6/29/15, 9/30/15
FTMM-68: Former Dry Cleaners UST at Building 700			
565MW01	VOCs & TICs-EPA Method 8260C	PDB	6/29/15, 9/30/15
565MW01D			6/29/15, 9/30/15

Notes:
1) LFPS = Low-Flow Purging and Sampling
2) PDB = Passive Diffusion Bag
3) VOCs = Volatile Organic Compounds
4) TICs = Tentatively Identified Compounds

Table 3
Groundwater Sampling Deviations
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Well	Site	Sampling Method	Deviation/Comments
N/A	N/A	N/A	None

Notes:

1) N/A = not applicable

2) LFPS = Low-Flow Purging and Sampling

3) PDB = Passive Diffusion Bag

FIGURES

Figure 1 Fort Monmouth Location
Figure 2 Main Post Layout and FTMM-53, FTMM-68 Locations
Figure 3 Charles Wood Layout Area and FTMM-22 Location



Legend

Installation Boundary

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

N

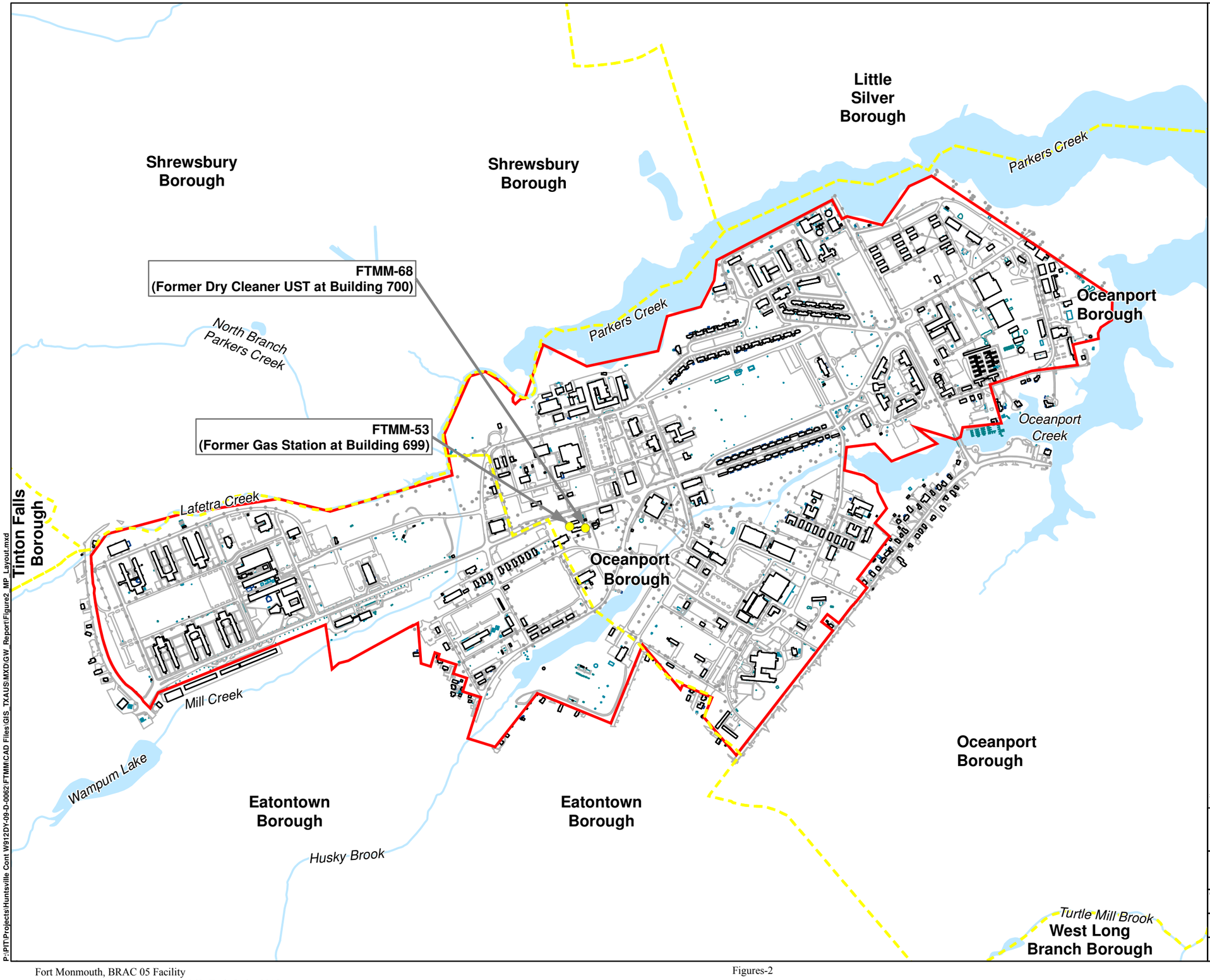
1 inch = 2,500 feet

0 0.5 1 Miles

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

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
Fort Monmouth Location	
CREATED BY: TS	REVIEWED BY: ME
DATE: May 2014	FIGURE NUMBER: Figure 1
PROJECT NUMBER: 748810.03000	FILE: Figure1_Location.mxd

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LEGEND:

- Surface Water Feature
- Municipal Boundary
- Installation Boundary

N

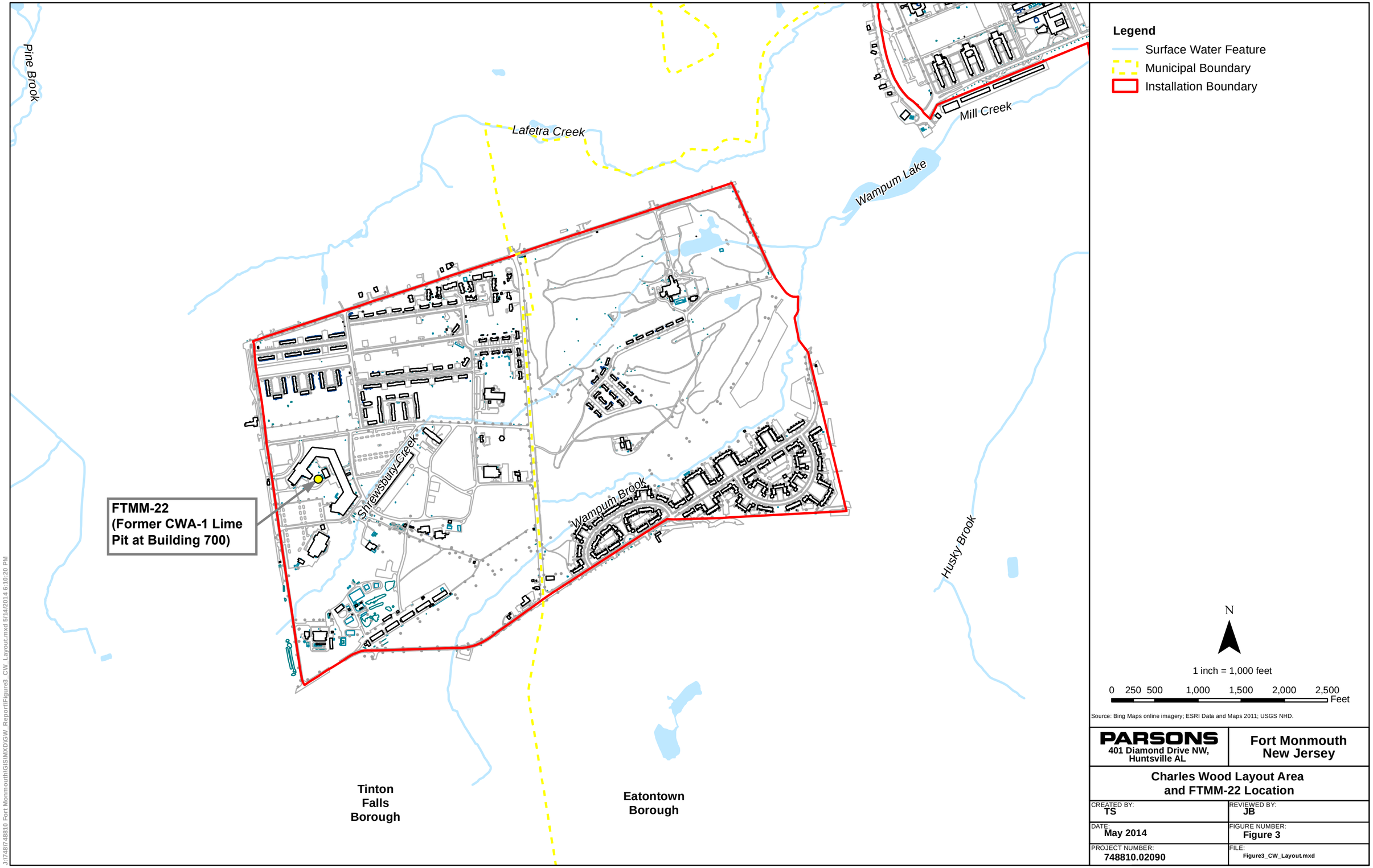
1 inch = 1,000 feet

0 500 1,000 2,000 Feet

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

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
MAIN POST LAYOUT AND FTMM-53, FTMM-68 LOCATIONS	
CREATED BY: RR	REVIEWED BY: ME
DATE: OCT. 2015	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-02040	FILE: Figure2_MP_Layout.mxd

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PARSONS
401 Diamond Drive NW,
Huntsville AL

Fort Monmouth
New Jersey

Charles Wood Layout Area and FTMM-22 Location

CREATED BY: TS	REVIEWED BY: JB
DATE: May 2014	FIGURE NUMBER: Figure 3
PROJECT NUMBER: 748810.02090	FILE: Figure3_CW_Layout.mxd

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APPENDICES

Appendix A FTMM-22: Former Wastewater Treatment Lime Pit (CWA-1)
Appendix B FTMM-53: Former Gas Station at Building 699
Appendix C FTMM-68: Former Dry Cleaners UST at Building 700
Appendix D Data Validation Summary Report
Appendix E Laboratory Analytical Results (CD)

APPENDIX A

FTMM-22: FORMER WASTEWATER TREATMENT LIME PIT (CWA-1)

APPENDIX A: FTMM-22 Former Wastewater Treatment Lime Pit (CWA-1)

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2	FTMM-22 Shallow Groundwater Contours June 29, 2015
3	FTMM-22 Deep Groundwater Contours June 29, 2015

LIST OF ATTACHMENTS

Attachment	Title
A	NJDEP PDB Checklists

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within FTMM-22 were gauged on June 29, 2015. Monitoring well locations as well as other site features are provided in **Figure 1**. Details regarding the water level measurements are provided in **Table 1**. Groundwater elevations in monitoring wells ranged from 48.40 (CW1MW39) to 52.14 (CW1MW27) feet above mean sea level (amsl). The inferred shallow and deep groundwater flow directions are to the east, as shown in **Figures 2 and 3**, respectively.

During the groundwater gauging, the physical condition of FTMM-22 monitoring wells were assessed. The site monitoring wells were found to be in good condition, except for CW1MW32, which remains damaged at the surface and three wells (CW1MW35, CW1MW36 and CW1MW37) were found to have significant accumulations of silt within the well. Monitoring well CW1MW32 will be decommissioned by Fort Monmouth Redevelopment Authority. Monitoring wells CW1MW35, CW1MW36 and CW1MW37 will be redeveloped during the next field sampling program in the spring of 2016.

2.0 GROUNDWATER SAMPLING

Groundwater samples were collected from six monitoring wells located at the FTMM-22 as part of the third quarter 2015 groundwater sampling event. The groundwater sampling program included measuring the depths to water in monitoring wells at FTMM-22, and sample collection in selected wells using passive diffusion bags (PDBs). PDBs were deployed June 29, 2015 and samples were retrieved on September 30, 2015. A PDB sampling summary is provided in **Table 2**. Groundwater samples were analyzed for Target Compound List (TCL) volatile organic compounds and tentatively identified compounds (VOCs+TICs) via United States Environmental Protection Agency (USEPA) Method SW8260C.

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

Completed PDB field sheets for each well sampled are provided in **Attachment A**.

3.0 GROUNDWATER RESULTS THIRD QUARTER 2015

Nine VOCs were detected in groundwater during this quarterly event. Trichloroethene (TCE) was detected in FTMM-22 monitoring wells CW1MW29 (22 µ/L) and CW1MW281 (390 µ/L) above its NJDEP GWQS of 1 µg/L. Vinyl chloride was also detected at both CW1MW29 (2.9 J µ/L) and CW1MW281 (1.9 J µ/L), above its NJDEP GWQS of 1 µg/L. These two wells are shallow and deep wells, respectively, immediately down gradient of the former lime pit. Five other VOCs were detected in groundwater however they were detected below their respective NJDEP GWQS. Groundwater analytical results from samples collected during the third quarter 2015 groundwater sampling events (and 2014 and 2015 first and second quarter events) are presented in **Table 3**.

TABLES

Table 1 Groundwater Gauging Data and Elevations (June 29, 2015)

Table 2 PDB Sampling Summary

Table 3 Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015

Table 1
Groundwater Gauging Data and Elevations (June 29, 2015)
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)
Shallow Monitoring Wells												
CW1MW26	12/19/1994	29-32590	532932.46	607087.71	15.0	5.0	10.0	60.81	12:25	8.95	17.10	51.86
CW1MW27	12/19/1994	29-32591	532942.54	607079.91	15.0	5.0	10.0	60.85	12:22	8.71	17.11	52.14
CW1MW28	12/19/1994	29-32592	532962.81	607087.57	15.0	5.0	10.0	59.09	12:22	7.00	14.90	52.09
CW1MW29	12/19/1994	29-32593	532952.80	607110.86	15.0	5.0	10.0	58.40	12:24	6.62	14.70	51.78
CW1MW30	7/13/2000	29-43188	532932.46	607094.40	17.0	7.0	10.0	61.93	12:29	9.80	21.64	52.13
CW1MW31	7/17/2000	29-43189	532952.95	607141.85	19.0	4.0	15.0	61.47	12:27	10.06	21.80	51.41
CW1MW32*	7/17/2000	29-43190	532953.17	607188.33	22.0	7.0	15.0	62.18	--	--	--	--
CW1MW33	7/17/2000	29-43191	532902.61	607196.32	20.0	5.0	15.0	62.27	12:39	11.19	23.84	51.08
CW1MW34	7/17/2000	29-43192	533014.20	607257.78	20.0	5.0	15.0	58.63	12:32	8.53	19.70	50.10
CW1MW35	7/18/2000	29-43193	532973.91	607296.71	20.0	5.0	15.0	58.09	12:36	8.30	16.75	49.79
CW1MW36	7/18/2000	29-43194	533014.49	607319.77	20.0	5.0	15.0	58.70	12:35	9.10	16.59	49.60
CW1MW37	7/18/2000	29-43195	532953.85	607335.55	20.0	5.0	15.0	59.21	12:37	8.82	13.70	50.39
CW1MW282	5/2/1996	29-35313	533064.25	607141.33	16.0	6.0	10.0	60.29	12:31	8.31	18.20	51.98
CW1MW291	5/3/1996	29-35314	532993.64	607188.15	16.0	6.0	10.0	62.21	12:40	11.16	18.30	51.05
Deep Monitoring Wells												
CW1MW25	10/12/2010	E201010535	533033.51	607133.86	48.0	38.0	10.0	61.82	12:28	13.02	50.45	48.80
CW1MW38	7/11/2000	29-43186	532922.20	607056.76	50.0	30.0	20.0	61.93	12:20	12.61	52.00	49.32
CW1MW39	7/10/2000	29-43185	533064.22	607133.58	48.0	28.0	20.0	61.51	12:31	13.11	50.00	48.40
CW1MW40	7/14/2000	29-43187	532973.22	607149.50	50.0	30.0	20.0	62.35	12:27	13.72	49.40	48.63
CW1MW281	5/2/1996	29-35312	532962.89	607103.06	41.0	31.0	10.0	58.20	12:24	9.21	40.20	48.99

Notes:
1) The synoptic round of water levels in the wells was collected on June 29, 2015.
2) Information on well permit number, X and Y coordinates, depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
3) ft = feet
4) DTW = depth to water (measured from the top of well casing)
5) DTB = depth to bottom of well (measured from the top of well casing)
6) bgs = below ground surface
7) ppm = parts per million (of VOCs)
8) TOC = Top of Casing
9) Elevation = feet above mean sea level
10) N/A = information not available
* Well has been comprimised and dammaged, well not gauged.

Table 2
PDB Sampling Summary
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Profile Date	Depth (ft. bgs)	Screen Length (ft.)	Screen Interval (ft. bgs)	TOC Elev. (ft)	Gauge Date	Gauge Time	PID Reading (ppm)	Gauged DTW (ft. below TOC)	Gauged DTB (ft. below TOC)	GW Elevation (ft)	Saturated Screen Length (ft)	PDB Interval 1 (ft. below TOC)	PDB Interval 2 (ft. below TOC)	PDB Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
CW1MW27	8/28/2013	15.0	10.0	5-15	60.85	6/29/2015	12:22	NA	8.71	17.11	52.14	8.40	12.63	N/A	6/29/2015	13:25	9/30/2015	12:25
CW1MW28	9/30/2014	15.0	10.0	5-15	59.09	6/29/2015	12:22	NA	7.00	14.90	52.09	7.90	11.21	N/A	6/29/2015	13:20	9/30/2015	12:20
CW1MW29	8/28/2013	15.0	10.0	5-15	58.40	6/29/2015	12:24	NA	6.62	14.70	51.78	8.08	10.85	N/A	6/29/2015	13:40	9/30/2015	12:40
CW1MW31	8/28/2013	19.0	15.0	4-19	61.47	6/29/2015	12:27	NA	10.06	21.80	51.41	11.74	16.40	N/A	6/29/2015	13:30	9/30/2015	12:30
CW1MW37	8/28/2013	20.0	15.0	5-20	59.21	6/29/2015	12:37	NA	8.82	13.70	50.39	4.88	11.78	N/A	6/29/2015	13:35	9/30/2015	12:35
CW1MW281	9/30/2014	41.0	10.0	31-41	58.20	6/29/2015	12:24	NA	9.21	40.20	48.99	10.00	33.74	N/A	6/29/2015	13:15	9/30/2015	12:15

Notes:
1) Information on well depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
2) DTW = depth to water (measured from the top of well casing)
3) DTB = depth to bottom of well (measured from the top of well casing)
4) TOC = Top of Casing
5) ft. AMSL = feet above mean sea level
6) LFPS = Low-Flow Purging and Sampling
7) PDB = Passive Diffusion Bag
8) N/A = not applicable
9) bgs = below ground surface

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID			CW1MW27							CW1MW28			
	NJ Ground Water	2015-06 USEPA	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sample ID	Quality Criteria	MCL	FTMM-22-GW-CW1MW27-11.9	FTMM-22-GW-CW1MW27-11.52	FTMM-22-GW-CW1MW27-12.63	FTMM-22-GW-CW1MW27-12.63	FTMM-22-GW-CW1MW27-12.63	FTMM-22-GW-CW1MW27-12.63	FTMM-22-GW-CW1MW27-12.63	FTMM-22-GW-CW1MW28-10.75	FTMM-22-GW-CW1MW28-10.6	FTMM-22-GW-CW1MW28-11.21	FTMM-22-GW-CW1MW28-11.21
Sample Date			1/24/2014	5/8/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015	1/24/2014	5/8/2014	9/30/2014	12/18/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sampling Method			LFPS	LFPS	PDB	PDB	PDB	PDB	PDB	LFPS	LFPS	PDB	PDB
Volatile Organic Compounds (µg/l)													
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**2 J**	**7.2 B**	**1.8 J**	**2.1 J**	< 5	**2.5 B**	< 5	< 5	**7.4 B**	**1.9 J**
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	**0.22 J**	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ	NA	NA	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**0.45 J**	**0.99 J**	< 1	**0.68 J**	**0.29 J**	< 1	**0.24 J**	**8**	**2.8 J**	**1.5 J**	**4.6 J**
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)													
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	CW1MW28			CW1MW281							
Sample ID			FTMM-22-CW1MW28-11.21	FTMM-22-GW-CW1MW28-11.21	FTMM-22-GW-CW1MW28-11.21	FTMM-22-GW-CW1MW281-33.5	FTMM-22-GW-CW1MW281-38.5	FTMM-22-GW-CW1MW281-35.8	FTMM-22-GW-CW1MW281-33.74	FTMM-22-GW-CW1MW281-38.74	FTMM-22-GW-CW1MW281-33.74	FTMM-22-CW1MW281-33.74	FTMM-22-GW-CW1MW281-33.74
Sample Date			3/30/2015	6/29/2015	9/30/2015	1/24/2014	1/24/2014	5/8/2014	9/30/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	LFPS	LFPS	LFPS	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)													
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 2.5	< 2
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	**0.69 J**	**0.64 J**	**0.82 J**	< 2.5	< 2
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 2.5	< 2
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Acetone	6,000	NLE	**2.2 J**	< 5	**1.9 B**	< 5	< 5	< 5	**6.2 B**	**5.5 B**	< 5	< 13	< 10
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5 UJ	< 2
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5 UJ	< 2
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	**2.6 J**	**2.4 J**	**3.4 J**	**14**	**14**	**23**	**16**	**18**
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 2.5 UJ	< 2
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 4
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 2.5 UJ	< 2
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 13	< 10
Methyl chloride	100	NLE	< 1	< 1	**0.22 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5 UJ	< 2
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Tert Butyl Alcohol	100	NLE	< 20	< 20	< 20	NA	NA	NA	< 20	< 20	< 20	< 50	< 40
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.9 J**	< 2
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Trichloroethene	1	5	**2 J**	**0.43 J**	**0.53 J**	**8.9**	**8.6**	**14**	**150**	**160**	**300**	**250**	**300**
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	< 2
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	**0.52 J**	**1.1 J**	**1.1 J**	**1.8 J**	**1.4 J**	**1.1 J**
TIC VOCs (µg/l)													
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID				CW1MW29									CW1MW31	
	NJ Ground Water	2015-06 USEPA	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sample ID	Quality Criteria	MCL	FTMM-22-GW-CW1MW281-33.71	FTMM-22-GW-CW1MW29-10.9	FTMM-22-GW-CW1MW129-10.4	FTMM-22-GW-CW1MW29-10.4	FTMM-22-GW-CW1MW29-10.85	FTMM-22-GW-CW1MW29-10.85	FTMM-22-GW-CW1MW29-10.85	FTMM-22-GW-CW1MW29-10.85	FTMM-22-GW-CW1MW29-10.85	FTMM-22-GW-CW1MW131-13	FTMM-22-GW-CW1MW31-13
Sample Date			9/30/2015	1/24/2014	5/8/2014	5/8/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015	1/24/2014	1/24/2014
QA/QC			SA	SA	DU	SA	SA	SA	SA	SA	SA	DU	SA
Sampling Method			PDB	LFPS	LFPS	LFPS	PDB	PDB	PDB	PDB	PDB	LFPS	LFPS
Volatile Organic Compounds (µg/l)													
1,1,1,2-Tetrachloroethane	1	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 2.5	**0.41 J**	**0.54 J**	**0.46 J**	< 1	< 1	< 1	< 1	< 1	**0.32 J**	**0.3 J**
1,2,4-Trimethylbenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 13	< 5	< 5	< 5	**5.6 B**	**2.1 J**	**1.9 J**	< 5	**1.9 B**	< 5	< 5
Benzene	1	5	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 2.5 UJ	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1
Carbon tetrachloride	1	5	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 2.5	**0.33 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	**24**	**6.5**	**0.59 J**	**0.55 J**	**5.6**	**0.83 J**	< 1	< 1	**20**	**2.7 J**	**2.9 J**
Cis-1,3-Dichloropropene	1	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 5	< 2	< 2	< 2	< 2	NA	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 13	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	**0.68 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.26 J**	< 1	< 1
Methyl ethyl ketone	300	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 50 UJ	NA	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ	NA	NA
tert-Butylbenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 2.5	**0.99 J**	< 1	< 1	< 1	< 1	< 1	< 1	**2.8 J**	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**390**	**7.4**	**13**	**13**	**3.9 J**	**4.7 J**	**7.5**	**1.6 J**	**22**	**5.2**	**5.1**
Trichlorofluoromethane	2,000	NLE	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	**1.9 J**	**0.78 J**	< 1	< 1	**0.47 J**	< 1	< 1	< 1	**2.9 J**	< 1	< 1
TIC VOCs (µg/l)													
Total TIC, Volatile	500	NLE	**17 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	CW1MW31		CW1MW31					CW1MW37			
			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Sample ID			FTMM-22-GW-CW1MW31-18.7	FTMM-22-GW-CW1MW31-14.3	FTMM-22-GW-CW1MW31-16.40	FTMM-22-GW-CW1MW31-16.4	FTMM-22-CW1MW31-16.4	FTMM-22-GW-CW1MW31-16.40	FTMM-22-GW-CW1MW31-16.40	FTMM-22-GW-CW1MW37-11.78	FTMM-22-CW1MW37-11.78	FTMM-22-GW-CW1MW37-11.78	FTMM-22-GW-CW1MW37-11.78
Sample Date			1/24/2014	5/8/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015	9/30/2014	12/18/2014	3/30/2015	6/29/2015
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sampling Method			LFPS	LFPS	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)													
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	**0.26 J**	< 1	< 1	< 1	**0.2 J**	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	**0.37 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	< 5	**6.1 B**	< 5	**2.5 J**	< 5	**1.6 B**	**6.7 B**	< 5	**2.4 J**	< 5
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	**2.6 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	**0.23 J**	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	**0.91 J**	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ	< 20	< 20	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**5.2**	**6.8**	**0.47 J**	**4.4 J**	**0.37 J**	< 1	**0.37 J**	< 1	**0.23 J**	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)													
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	CW1MW37
			Ground Water
Sample ID			FTMM-22-GW-CW1MW37-11.78
Sample Date			9/30/2015
QA/QC			SA
Sampling Method			PDB
Volatile Organic Compounds (µg/l)			
1,1,1,2-Tetrachloroethane	1	NLE	< 1
1,1,1-Trichloroethane	30	200	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1
1,1,2-Trichloroethane	3	5	< 1
1,1-Dichloroethane	50	NLE	< 1
1,1-Dichloroethene	1	7	< 1
1,1-Dichloropropene	100	NLE	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1
1,2,4-Trichlorobenzene	9	70	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1
1,2-Dibromoethane	0.03	0.05	< 1
1,2-Dichlorobenzene	600	600	< 1
1,2-Dichloroethane	2	5	< 1
1,2-Dichloropropane	1	5	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1
1,3-Dichlorobenzene	600	NLE	< 1
1,3-Dichloropropane	100	NLE	< 1
1,4-Dichlorobenzene	75	75	< 1
2,2-Dichloropropane	100	NLE	< 1
2-Chlorotoluene	100	NLE	< 1
Acetone	6,000	NLE	**1.6 B**
Benzene	1	5	< 1
Bromobenzene	100	NLE	< 1
Bromochloromethane	100	NLE	< 1
Bromodichloromethane	1	80	< 1
Bromoform	4	80	< 1 UJ
Carbon tetrachloride	1	5	< 1
Chlorobenzene	50	100	< 1
Chlorodibromomethane	1	80	< 1
Chloroethane	5	NLE	< 1
Chloroform	70	80	< 1
Cis-1,2-Dichloroethene	70	70	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1
Cymene	100	NLE	< 1
Dichlorodifluoromethane	1,000	NLE	< 1
Ethyl benzene	700	700	< 1
Hexachlorobutadiene	1	NLE	< 1
Isopropylbenzene	700	NLE	< 1
Meta/Para Xylene	1,000	NLE	< 2
Methyl bromide	10	NLE	< 1
Methyl butyl ketone	300	NLE	< 5
Methyl chloride	100	NLE	**0.21 J**
Methyl ethyl ketone	300	NLE	< 1
Methyl isobutyl ketone	100	NLE	< 1
Methyl Tertbutyl Ether	70	NLE	< 1
Methylene chloride	3	5	< 1
Naphthalene	300	NLE	< 1
n-Butylbenzene	100	NLE	< 1
Ortho Xylene	1,000	NLE	< 1
p-Chlorotoluene	100	NLE	< 1
Propylbenzene	100	NLE	< 1
sec-Butylbenzene	100	NLE	< 1
Styrene	100	100	< 1
Tert Butyl Alcohol	100	NLE	< 20 UJ
tert-Butylbenzene	100	NLE	< 1
Tetrachloroethene	1	5	< 1
Toluene	600	1,000	< 1
Total Xylenes	1,000	10,000	< 3
Trans-1,2-Dichloroethene	100	100	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1
Trichloroethene	1	5	**0.23 J**
Trichlorofluoromethane	2,000	NLE	< 1
Vinyl chloride	1	2	< 1
TIC VOCs (µg/l)			
Total TIC, Volatile	500	NLE	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Footnote:
1) All historical data collected prior to 2013 are reported as provided by others.
2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
3) NLE = no limit established.
4) ND = not detected in any background sample, no background concentration available.
5) Bold chemical dectection

6) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.
[blank] = detect, i.e. detected chemical result value.
B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected at or above this value.
U-DL = Elevated sample detection limit due to difficult sample matrix.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.
JN = Tentatively identified compound, estimated concentration.
E (or ER) = Estimated result.
D = Results from dilution of sample.
J-DL = Elevated sample detection limit due to difficult sample matrix.

7) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####

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

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).
- Bold Outline represent a result that is above the USEPA 2015-05 MCL. ###

8) Criteria action level source document and web address.
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
  http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf
- The 2015-06 USEPA MCL refers to the USEPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2015 (Last revised)

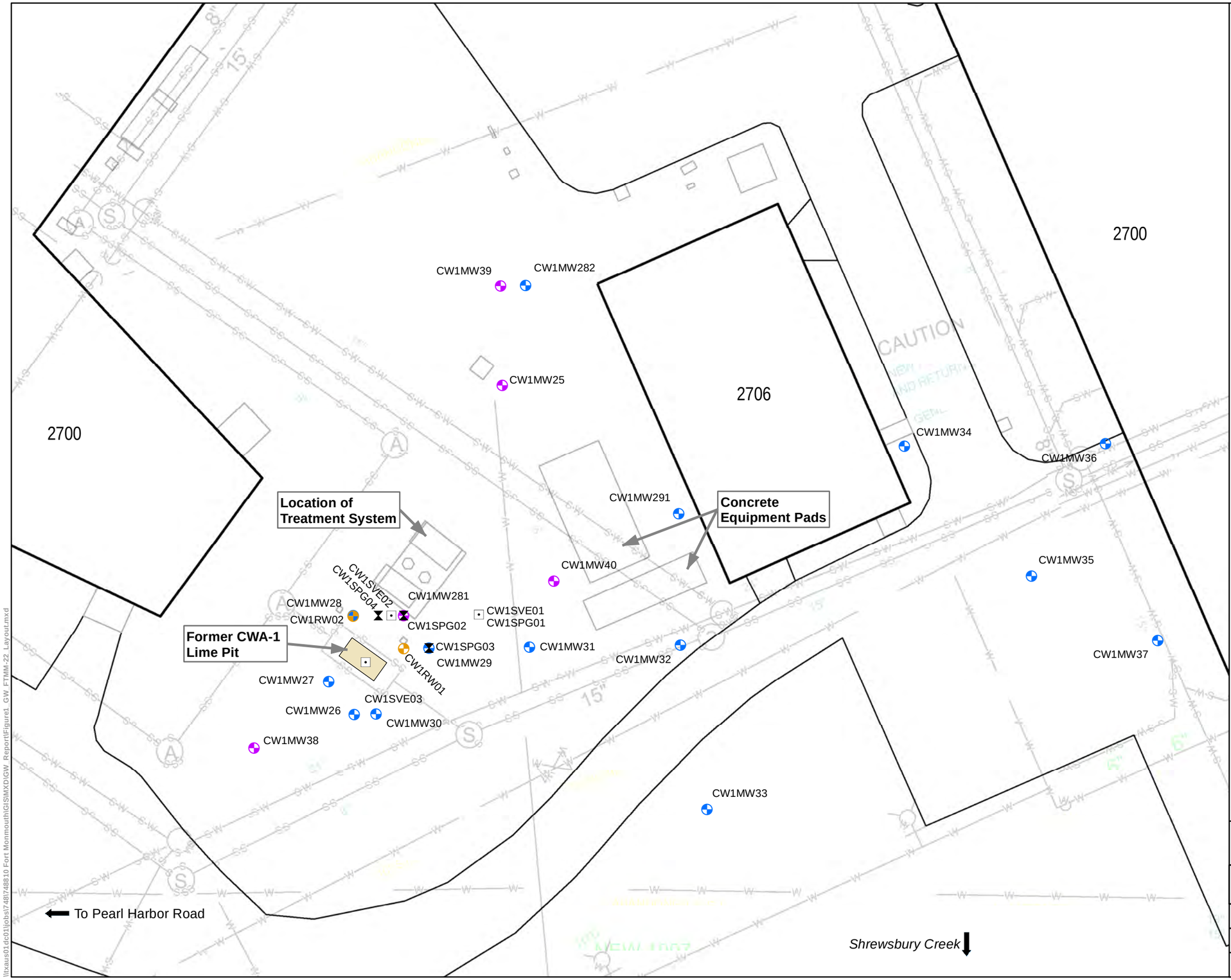
9) Highlighted sample ID indicates sample collected 3rd Quarter 2015 Sample ID

FIGURES

Figure 1 Layout of FTMM-22 Former Wastewater Treatment Lime Pit (CWA-1)

Figure 2 FTMM-22 Shallow Groundwater Contours June 29, 2015

Figure 3 FTMM-22 Deep Groundwater Contours June 29, 2015



Legend

- Shallow Monitoring Well
- Deep Monitoring Well
- Recovery Well
- Air Sparge Well
- SVE Well
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Former CW1 Lime Pit

N

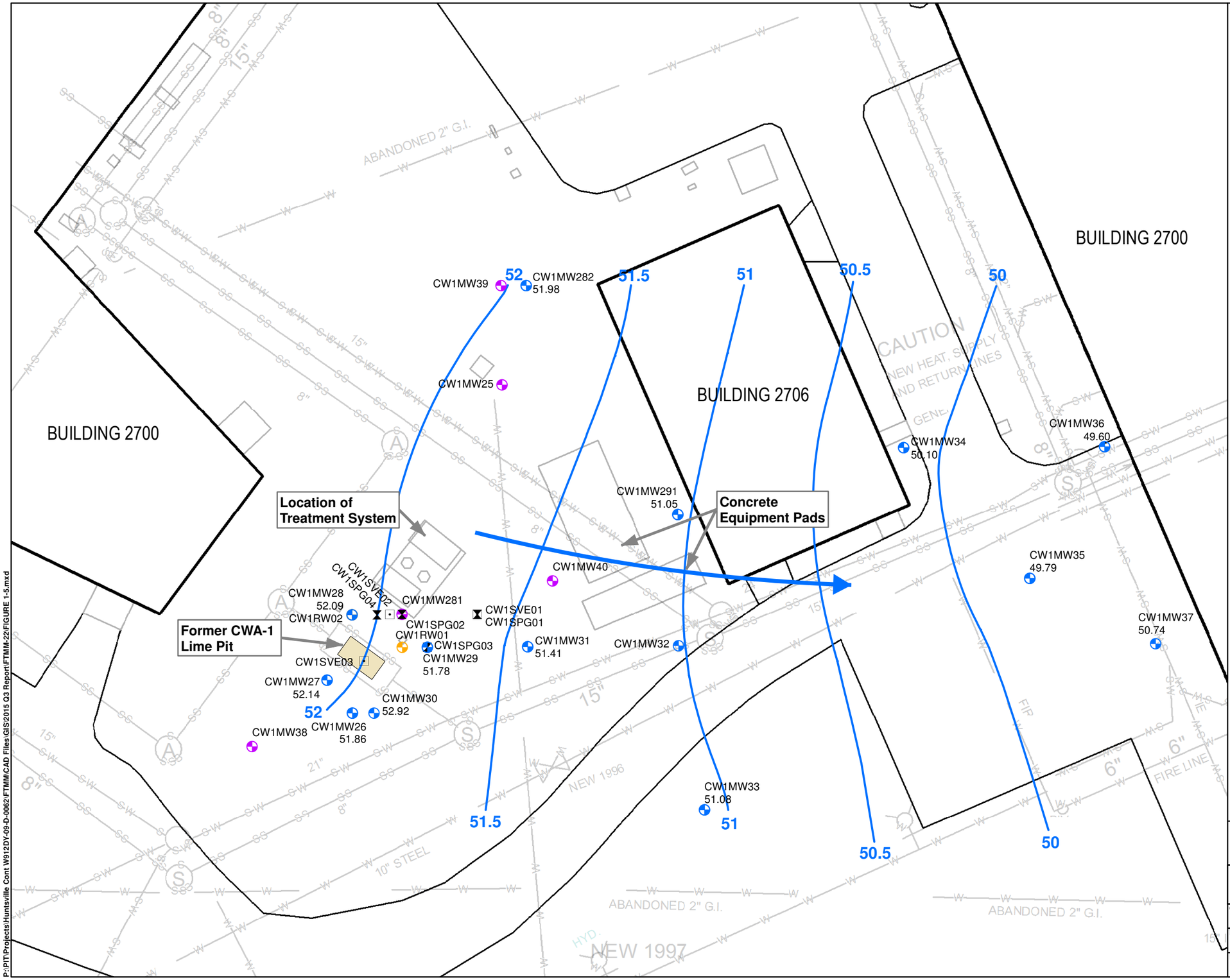
1 inch = 30 feet

0 12.5 25 50 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**
Layout of FTMM-22 **Former Wastewater Treatment Lime Pit (CWA-1)**	
CREATED BY: TS	REVIEWED BY: ME
DATE: December 2014	FIGURE NUMBER: Figure 1
PROJECT NUMBER: 748810.03000	FILE: Figure1_GW_FTMM-22_Layout.mxd

\\ltxaus01.dc01\jobs\748\748810 Fort Monmouth\GIS\MXD\GW_Report\Figure1_GW_FTMM-22_Layout.mxd



LEGEND:

- Shallow Monitoring Well
- Deep Monitoring Well
- Recovery Well
- Air Sparge Well
- SVE
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Former CW1 Lime Pit
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

NOTE:

Groundwater elevations in monitoring wells CW1MW30 and CW1MW37 were considered anomalous compared to the fluid levels at neighboring wells.

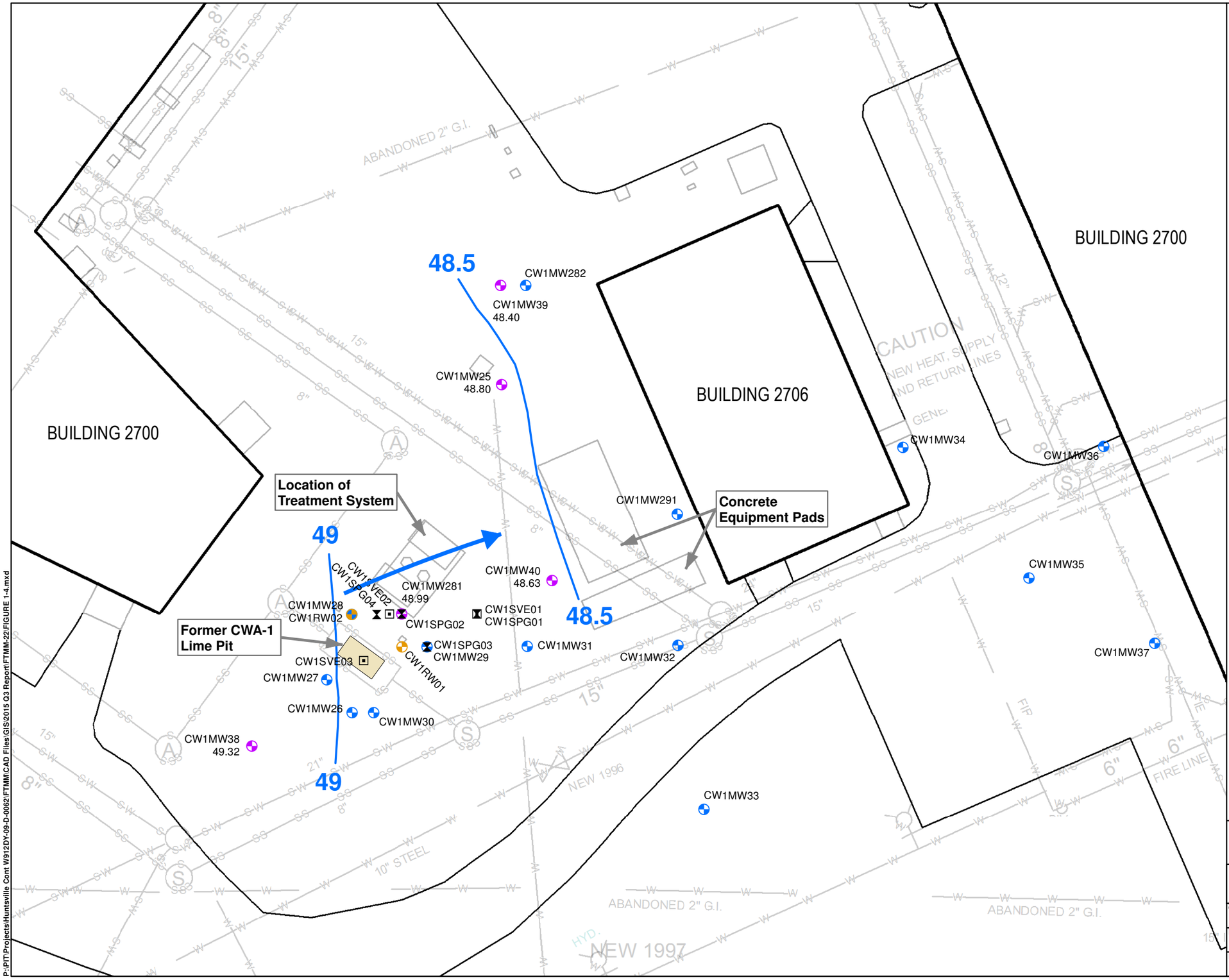
Source: FTMM Supplied CAD

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

FTMM-22 SHALLOW GROUNDWATER CONTOURS JUNE 29, 2015

CREATED BY: RR	REVIEWED BY: ME
DATE: JAN. 2016	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1-5.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2015 Q3 Report\FTMM-22\FIGURE 1-5.mxd



LEGEND:

- Shallow Monitoring Well
- Deep Monitoring well
- Recovery Well
- Air Sparge Well
- SVE
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Former CW1 Lime Pit
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

N

1 inch = 30 feet

0 15 30 60 Feet

Source: FTMM Supplied CAD

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

FTMM-22 DEEP GROUNDWATER CONTOURS JUNE 29, 2015

CREATED BY: RR	REVIEWED BY: ME
DATE: FEB. 2016	FIGURE NUMBER: FIGURE 3
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1-4.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2015 Q3 Report\FTMM-22\FIGURE 1-4.mxd

ATTACHMENTS

Attachment A NJDEP PDB Checklists

ATTACHMENT A
NJDEP PDB CHECKLISTS

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-22, CW-1
3. Well Designation: CW1MW281
4. Well Permit Number: 29-35312

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -1.04
9. Total Well Depth (fbgs) 41.24
10. Screened interval/open hole (fbgs) 31.24-41.24
11. Well Casing: Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.02

14. Date and Time of Deployment Date: 6/29/15 Time: 1315
15. Depth to Ground Water Depth to ground water at time of deployment 9.21
16. Date and Time of Retrieval Date: 9/30/15 Time: 1215
17. Depth to Ground Water Depth to ground water at time of retrieval 11.11
18. Type of Deployment Line Used Diameter: 3/16" Material: Poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    ☒ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
33.74			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☒ **Yes**, this well was profiled already. Date when well was profiled: 9/30/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 75°F Wind WSW 0-5mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 77°F Wind SE ☐ Sunny ☐ Overcast ☒ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiTonno	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-22, CW-1
3. Well Designation: CW1MW37
4. Well Permit Number: 29-43195

5. Type of Well: [X] Monitoring [ ] Extraction [ ] Residential [ ] Public Supply [ ] Irrigation [ ] Other
6. Well Surface Finish: [X] Stick Up [ ] Flush Mount
7. Location of Measuring Point: [X] Top of Casing [ ] Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.54
9. Total Well Depth (fbgs) 14.24
10. Screened interval/open hole (fbgs) _____
11. Well Casing: Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
13. Screen Size (slot) Screen Slot Size _____

14. Date and Time of Deployment Date: 6/29/15 Time: 1335
15. Depth to Ground Water Depth to ground water at time of deployment 8.82
16. Date and Time of Retrieval Date: 9/30/15 Time: 1235
17. Depth to Ground Water Depth to ground water at time of retrieval 9.41
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    [ ] Lab Filled (Modified Trip Blank must be taken at time of deployment)
    [X] Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 12 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    [ ] Attached to bottom of PDBS and suspended in well
    [X] Attached to bottom of deployment line and suspended in well
    [ ] Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
11.78			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    [ ] **No**, this well is being profiled during this sampling round
    [X] **Yes**, this well was profiled already. Date when well was profiled: 8/28/13
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    [ ] **No**, flow testing has not been conducted in this well
    [ ] **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 75°F Wind WSW 0-5mph [X] Sunny [ ] Overcast [ ] Raining [ ] Snowing
27. Weather Conditions During Retrieval Temp. 76°F Wind SE 5-10mph [ ] Sunny [X] Overcast [X] Raining [ ] Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiTommo	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-22, CW-1
3. Well Designation: CW1MW31
4. Well Permit Number: 29-43189

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 2.16
9. Total Well Depth (fbgs) 20.55
10. Screened interval/open hole (fbgs) 5.55-20.55
11. Well Casing: Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.01

14. Date and Time of Deployment Date: 6/29/15 Time: 1330
15. Depth to Ground Water Depth to ground water at time of deployment _____
16. Date and Time of Retrieval Date: 9/30/15 Time: 1230
17. Depth to Ground Water Depth to ground water at time of retrieval 12.90
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled
22. Position of PDBS Weight
    ☒ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
16.40			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No,** this well is being profiled during this sampling round
    ☒ **Yes,** this well was profiled already. Date when well was profiled: 8/28/13
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No,** flow testing has not been conducted in this well
    ☐ **Yes,** flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 75°F Wind WSW 0-5mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 70°F Wind SE 5-10mph ☐ Sunny ☒ Overcast ☒ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiLonno	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-22, CW-1
3. Well Designation: CW1MW29
4. Well Permit Number: 29-32593

5. Type of Well: [X] Monitoring [ ] Extraction [ ] Residential [ ] Public Supply [ ] Irrigation [ ] Other
6. Well Surface Finish: [X] Stick Up [ ] Flush Mount
7. Location of Measuring Point: [X] Top of Casing [ ] Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.80
9. Total Well Depth (fbgs) 15.55
10. Screened interval/open hole (fbgs) 5.55-15.55
11. Well Casing: Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.01

14. Date and Time of Deployment Date: 6/29/15 Time: 1340
15. Depth to Ground Water Depth to ground water at time of deployment 6.62
16. Date and Time of Retrieval Date: 9/30/15 Time: 1210
17. Depth to Ground Water Depth to ground water at time of retrieval 7.59
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    [ ] Lab Filled (Modified Trip Blank must be taken at time of deployment)
    [X] Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    [X] Attached to bottom of PDBS and suspended in well
    [ ] Attached to bottom of deployment line and suspended in well
    [ ] Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
10.85			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    [ ] **No**, this well is being profiled during this sampling round
    [X] **Yes**, this well was profiled already. Date when well was profiled: 8/28/13
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    [ ] **No**, flow testing has not been conducted in this well
    [ ] **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 75°F Wind WSW 0-5mph [X] Sunny [ ] Overcast [ ] Raining [ ] Snowing
27. Weather Conditions During Retrieval Temp. 76°F Wind SE 5-10mph [ ] Sunny [X] Overcast [ ] Raining [ ] Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex D'Anna	Parsons
Chris Watsons	

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-22, CW-1
3. Well Designation: CW1MW27
4. Well Permit Number: 29-32591

5. Type of Well: [X] Monitoring [ ] Extraction [ ] Residential [ ] Public Supply [ ] Irrigation [ ] Other
6. Well Surface Finish: [X] Stick Up [ ] Flush Mount
7. Location of Measuring Point: [X] Top of Casing [ ] Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.55
9. Total Well Depth (fbgs) 15.54
10. Screened interval/open hole (fbgs) 5.54 - 15.54
11. Well Casing: Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.01

14. Date and Time of Deployment Date: 6/29/15 Time: 1325
15. Depth to Ground Water Depth to ground water at time of deployment 8.71
16. Date and Time of Retrieval Date: 9/30/15 Time: 1225
17. Depth to Ground Water Depth to ground water at time of retrieval 9.76
18. Type of Deployment Line Used Diameter: 3/16" Material: Poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    [ ] Lab Filled (Modified Trip Blank must be taken at time of deployment)
    [X] Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled
22. Position of PDBS Weight
    [X] Attached to bottom of PDBS and suspended in well
    [ ] Attached to bottom of deployment line and suspended in well
    [ ] Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
12.63			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    [ ] **No**, this well is being profiled during this sampling round
    [X] **Yes**, this well was profiled already. Date when well was profiled: 8/28/13
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    [ ] **No**, flow testing has not been conducted in this well
    [ ] **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 75°F Wind WSW 0-5mph [X] Sunny [ ] Overcast [ ] Raining [ ] Snowing
27. Weather Conditions During Retrieval Temp. 76°F Wind SE 10-15mph [ ] Sunny [X] Overcast [X] Raining [ ] Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiIenno	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-22, CW-1
3. Well Designation: CW1MW28
4. Well Permit Number: 29-32592

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.31
9. Total Well Depth (fbgs) 15.11
10. Screened interval/open hole (fbgs) 5.11 - 15.11
11. Well Casing: Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.01

14. Date and Time of Deployment Date: 6/29/15 Time: 1320
15. Depth to Ground Water Depth to ground water at time of deployment 7.00
16. Date and Time of Retrieval Date: 9/28/15 Time: 1220
17. Depth to Ground Water Depth to ground water at time of retrieval 8.05
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    ☒ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
11.21			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☒ **Yes**, this well was profiled already. Date when well was profiled: 9/30/14

25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

26. Weather Conditions During Deployment Temp. 75°F Wind WSW 0-5 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 76°F Wind SSE 5-10 mph ☐ Sunny ☒ Overcast ☒ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiLonno	Parsons
Chris Watson	"

APPENDIX B

FTMM-53: FORMER GAS STATION AT BUILDING 699

APPENDIX B:
FTMM-53 Former Gas Station at Building 699

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Attachment	Title
A	NJDEP PDB Checklists

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within the FTMM-53 site were gauged on June 29, 2015. Monitoring well locations as well as other site features are provided in **Figure 1**. Details regarding the water level measurements are provided in **Table 1.** Groundwater elevations in monitoring wells ranged from 8.86 (699RW11) to 12.30 (699MW03) feet above mean sea level (amsl) and the inferred groundwater flow direction is to the east (**Figure 2**).

During the groundwater gauging, the physical condition of FTMM-53 monitoring wells were assessed. The site monitoring wells were found to be in good condition.

2.0 GROUNDWATER SAMPLING

Groundwater sampling was conducted at eight monitoring wells located in FTMM-53 as part of the third quarter 2015 groundwater sampling event. The groundwater sampling program included measuring the depths to water in monitoring wells at FTMM-53, and sample collection in selected wells using passive diffusion bags (PDBs). PDBs were deployed June 29, 2015and samples were retrieved on September 30, 2015. A PDB sampling summary is provided in **Table 2**. Groundwater samples were analyzed for Target Compound List (TCL) volatile organic compounds and tentatively identified compounds (VOCs+TICs) via United States Environmental Protection Agency (USEPA) Method SW8260C.

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

Completed NJDEP PDB checklists for each well sampled are provided in **Attachment A**.

3.0 GROUNDWATER RESULTS THIRD QUARTER 2015

Several VOCs were detected in groundwater during this quarterly event above their NJDEP GWQS. Benzene was detected at monitoring wells 699MW04 (2.4 J µg/L), 699MW06 (2.3 J µg/L), 699RW05 (2.8 J µg/L), and 699RW11(3 J µg/L) above the NJDEP GWQS of 1 µg/L. 1,2,4-Trimethylbenzene was detected at monitoring well 699RW05 at a concentration of 180 µg/L, above the NJDEP GWQS of 100 µg/L. Tetrachloroethene was detected at 699MW09 and 699MW16 at estimated concentrations of 1.1 J µg/L and 1.3 J µg/L; respectively, which was slightly above the NJDEP GWQS of 1 µg/L. Total VOC TICs were detected at monitoring well 699RW05 at an estimated concentration of 1,217 J µg/L. Groundwater analytical detections from samples collected during the 2014 and the first, second and third quarter 2015 groundwater sampling events are presented in **Table 3**.

TABLES

Table 1 Groundwater Gauging Data and Elevations (June 29, 2015)

Table 2 PDB Sampling Summary

Table 3 Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015

Table 1
Groundwater Gauging Data and Elevations (June 29, 2015)
Site FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)
Shallow Monitoring Wells												
616MW01	8/17/1995	29-33760	539282.81	618630.81	14.0	4.0	10.0	17.64	9:39	6.15	16.60	11.49
699MW01	11/2/1989	29-23677-1	539094.96	618689.92	15.0	2.0	13.0	14.48	9:19	3.78	13.35	10.70
699MW02	11/2/1989	29-23678-9	539212.46	618724.12	17.0	2.0	15.0	15.13	9:37	5.45	16.63	9.68
699MW03	11/2/1989	29-23679	539127.36	618797.76	15.0	1.5	13..5	15.80	9:32	3.50	12.14	12.30
699MW04	11/2/1989	29-23680-7	539111.31	618732.39	20.0	2.0	18.0	15.03	9:17	3.20	17.50	11.83
699MW05	11/30/1989	29-23808	539142.50	618894.90	15.0	3.0	12.0	13.22	9:13	3.81	15.00	9.41
699MW06	12/1/1989	29-23809-1	539071.24	618810.05	15.0	2.0	13.0	16.75	9:08	5.59	19.95	11.16
699MW08	12/1/1989	29-23811	539060.01	618593.22	15.0	2.0	13.0	14.88	9:42	4.53	13.25	10.35
699MW09	5/1/1990	29-24639	538950.01	618849.41	15.0	2.0	13.0	14.70	8:55	4.47	12.40	10.23
699MW12	10/14/1992	29-28907	538918.90	618702.39	15.0	5.0	10.0	15.50	9:03	5.01	14.76	10.49
699MW15	8/17/1995	29-33753	539404.56	618692.15	13.5	3.5	10.0	15.70	9:41	5.05	13.80	10.65
699MW16	8/17/1995	29-33757	538859.18	618896.35	13.5	3.5	10.0	15.27	8:56	4.41	13.99	10.86
699RW03	10/26/2000	29-43891	539070.64	618693.86	20.0	5.0	15.0	14.87	9:21	4.18	17.80	10.69
699RW04	10/26/2000	29-43892	538969.45	618694.38	19.0	4.0	15.0	15.38	9:26	4.64	15.10	10.74
699RW05	9/18/2007	29-56509	539121.71	618786.56	15.0	4.5	10.0	13.91	9:11	2.36	12.30	11.55
699RW11	5/20/1992	29-28031	539063.44	618770.99	20.0	5.0	15.0	13.13	9:29	4.27	16.85	8.86

Notes:
1) The synoptic round of water levels in the wells was collected on June 29, 2015.
2) Information on well permit number, X and Y coordinates, depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
3) ft = feet
4) DTW = depth to water (measured from the top of well casing)
5) DTB = depth to bottom of well (measured from the top of well casing)
6) bgs = below ground surface
7) ppm = parts per million (of VOCs)
8) TOC = Top of Casing
9) Elevation = feet above mean sea level
10) N/A = information not available
11) 600MW01 was previously reported in this table erroneously. This well is not associated with FTMM-53 and has been reassigned to a non IRP site.

Table 2
PDB Sampling Summary
Site FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Profile Date	Depth (ft. bgs)	Screen Length (ft.)	Screen Interval (ft. bgs)	TOC Elev. (ft)	Gauge Date	Gauge Time	PID Reading (ppm)	Gauged DTW (ft. below TOC)	Gauged DTB (ft. below TOC)	GW Elevation (ft)	Saturated Screen Length (ft)	PDB Interval 1 (ft. below TOC)	PDB Interval 2 (ft. below TOC)	PDB Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
699MW01	3/31/2014	15.0	13.0	2-15	14.48	3/30/2015	9:19	NA	3.78	13.35	10.70	9.57	7.50	N/A	6/29/2015	10:15	9/30/2015	9:15
699MW04	3/31/2014	20.0	18.0	2-20	15.03	3/30/2015	9:10	NA	3.20	17.50	11.83	14.30	7.68	N/A	6/29/2015	10:35	9/30/2015	9:35
699MW06	3/31/2014	15.0	13.0	2-15	16.75	3/30/2015	8:55	NA	5.59	19.95	11.16	13.00	10.20	N/A	6/29/2015	10:30	9/30/2015	9:30
699MW09	3/31/2014	15.0	13.0	2-15	14.70	3/30/2015	8:49	NA	4.47	12.40	10.23	7.93	7.35	N/A	6/29/2015	10:20	9/30/2015	9:20
699MW16	3/31/2014	13.5	10.0	3.5-13.5	15.27	3/30/2015	8:41	NA	4.41	13.99	10.86	9.58	7.50	N/A	6/29/2015	10:25	9/30/2015	9:25
699RW03	3/31/2014	20.0	15.0	5-20	14.87	3/30/2015	9:21	NA	4.18	17.80	10.69	13.62	8.20	N/A	6/29/2015	10:45	9/30/2015	9:45
699RW05	3/31/2014	15.0	10.0	5-15	13.91	3/30/2015	9:03	NA	2.36	12.30	11.55	9.94	10.00	N/A	6/29/2015	10:10	9/30/2015	9:10
699RW11	3/31/2014	20.0	15.0	5-20	13.13	3/30/2015	9:32	NA	4.27	16.85	8.86	12.58	8.30	N/A	6/29/2015	10:40	9/30/2015	9:40

Notes:
1) Information on well depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
2) DTW = depth to water (measured from the top of well casing)
3) DTB = depth to bottom of well (measured from the top of well casing)
4) TOC = Top of Casing
5) ft. AMSL = feet above mean sea level
6) LFPS = Low-Flow Purging and Sampling
7) PDB = Passive Diffusion Bag
8) N/A = not applicable
9) bgs = below ground surface

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699MW01									
Sample ID			FTMM-53-GW-699MW01-10.55	FTMM-53-GW-699MW101-10.5	FTMM-53-GW-699MW01-12.5	FTMM-53-GW-699MW01-7.5	FTMM-53-GW-699MW01-7.5	FTMM-53-GW-699MW01-7.5	FTMM-53-GW-699MW01-7.5	FTMM-53-699MW01-7.5	FTMM-53-GW-699MW01-7.5	FTMM-53-GW-699MW01-7.5
Sample Date			3/12/2014	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/16/2014	3/30/2015	6/29/2015	9/30/2015
QA/QC			SA	DU	SA	SA	SA	SA	SA	SA	SA	SA
Filtered			LFPS	LFPS	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	**0.31 J**	**0.26 J**	< 1	< 1	**0.3 J**	**1.3 J**	< 1	< 1	< 1	**6.4**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.23 J**
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	< 5	< 5	**1.7 J**	**6.4 B**	< 5	**2.3 J**	**2.2 J**	**4.6 B**
Benzene	1	5	< 1	< 1	< 1	< 1	**0.31 J**	**0.52 J**	< 1	< 1	< 1	**0.87 J**
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1
Ethyl benzene	700	700	**0.55 J**	**0.59 J**	< 1	< 1	**0.27 J**	**1.6 J**	< 1	< 1	< 1	**9.1**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	**0.25 J**	**0.28 J**	< 1	< 1	< 1	**0.29 J**	< 1	< 1	< 1	**1.6 J**
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**1.2 J**
Methyl bromide	10	NLE	< 1	< 1	**0.32 J**	< 1	< 1	< 1	< 1 UJ	< 1	< 1 UJ	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	**0.3 J**	**0.39 J**	< 1	< 1	< 1	**2.1 J**
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	**0.4 J**	< 1	< 1	< 1	**3 J**
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	**0.42 J**	**0.43 J**	< 1	< 1	< 1	**0.39 J**	< 1	< 1	< 1	**2.2 J**
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	**0.27 J**	< 1	< 1	< 1	**0.46 B**
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	**2.4 J**	< 3	< 3	< 3	**4.2 J**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)												
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**25.2 JN**

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699MW04									699MW06
Sample ID			FTMM-53-GW-699MW04-10.3	FTMM-53-GW-699MW04-13.85	FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW04-8.0	FTMM-53-699MW04-8.0	FTMM-53-GW-699MW04-8.0	FTMM-53-GW-699MW04-8.0	FTMM-53-GW-699MW06-10
Sample Date			3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015	3/12/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Filtered			LFPS	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	LFPS
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	**1.9 J**	**2.3 J**	< 1	**0.25 J**	**4.6 J**	< 1	**2 J**	**7.5**	**0.8 J**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	**0.78 J**	**0.99 J**	< 1	< 1	**3 J**	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	**1.5 J**	< 5	< 5	**2.2 J**	**11 B**	**8.4**	**2.1 J**	< 5	**2.1 B**	< 5
Benzene	1	5	< 1	**0.23 J**	**0.23 J**	< 1	**0.37 J**	< 1	< 1	< 1	**2.4 J**	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	**0.87 J**	**1.1 J**	< 1	**0.28 J**	< 1	< 1	**0.9 J**	**13**	**1.5 J**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.43 J**	**1 J**	**0.23 J**
Meta/Para Xylene	1,000	NLE	< 2	**3 J**	**3.4 J**	< 2	< 2	< 2	< 2	**0.33 J**	**0.36 J**	**1.2 J**
Methyl bromide	10	NLE	< 1	**0.33 J**	**0.47 J**	< 1	< 1	< 1 UJ	< 1 UJ	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	**1.5 J**	**0.52 J**	< 1	< 1	**0.25 J**	< 1	**0.61 J**	**2.5 J**	**0.23 J**
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	**2.4 J**	**2.5 J**	< 1	**1 J**	**0.52 J**	< 1	**1.2 J**	**4.2 J**	**0.31 J**
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.52 J**	**1.6 J**	**0.24 J**
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ	NA
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	**0.27 J**	< 1	< 1	< 1	**0.9 B**	< 1
Total Xylenes	1,000	10,000	< 3	**5.4 J**	**5.9 J**	< 3	< 3	**2.52 J**	< 3	**1.52 J**	**4.56 J**	**1.51 J**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)												
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	**5.6 JN**	**70.7 JN**	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699MW06									
Sample ID			FTMM-53-GW-699MW06-10.20	FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW106-10.2	FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW106-10.2	FTMM-53-699MW06-10.2	FTMM-53-699MW106-10.2	FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW106-10.2
Sample Date			3/31/2014	7/1/2014	9/30/2014	9/30/2014	12/18/2014	12/18/2014	3/30/2015	3/30/2015	6/29/2015	6/29/2015
QA/QC			SA	SA	SA	DU	SA	DU	SA	DU	SA	DU
Filtered			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	**0.26 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	**54**	**52**	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	**5.7**	**5.7**	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	**2.2 J**	**2.6 J**	**12**	**12**	**2.2 J**	**2 J**	**1.6 J**	**1.6 J**	**1.9 J**	< 5
Benzene	1	5	< 1	< 1	**9**	**9.2**	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1 UJ	< 1 UJ	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	**140 J**	**150**	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	**14**	**14**	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	**120 J**	**120**	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	**0.43 J**	< 1	< 1	< 1	< 1 UJ	< 1 UJ	< 1	< 1	< 1 UJ	< 1 UJ
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	**22**	**22**	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	**0.27 J**	**0.25 J**	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	**9.3**	**9.2**	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	**11**	**11**	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	**0.48 J**	**0.35 J**	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	**1.5 J**	**1.4 J**	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	**129.3 J**	**129.2 J**	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)												
Total TIC, Volatile	500	NLE	ND	ND	**138 JN**	**137.5 JN**	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699MW06		699MW09							
Sample ID			FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW106-10.2	FTMM-53-GW-699MW09-8	FTMM-53-GW-699MW09-7.70	FTMM-53-GW-699MW09-7.75	FTMM-53-GW-699MW09-7.75	FTMM-53-GW-699MW09-7.75	FTMM-53-699MW09-7.75	FTMM-53-GW-699MW09-7.75	FTMM-53-GW-699MW09-7.75
Sample Date			9/30/2015	9/30/2015	3/12/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015
QA/QC			SA	DU	SA	SA	SA	SA	SA	SA	SA	SA
Filtered			PDB	PDB	LFPS	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.25 J**	< 1
1,2,4-Trimethylbenzene	100	NLE	**32**	**29**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	**3.7 J**	**3.2 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	**2.2 B**	< 5	< 5	**1.5 J**	**1.4 J**	**6.6 B**	**1.8 J**	**2.2 J**	**1.7 J**	**2.1 B**
Benzene	1	5	**1.7 J**	**2.3 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1 UJ	< 1 UJ	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	**0.25 J**	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1
Ethyl benzene	700	700	**37**	**31**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	**4.6 J**	**4.9 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	**46**	**42**	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	**0.34 J**	< 1	< 1	< 1 UJ	< 1	< 1 UJ	**0.47 J**
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.45 J**
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	**0.49 J**	**0.58 J**	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**5.3**	**5.4**	**0.26 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	**2.9 J**	**2.4 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	**4.2 J**	**4.5 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20 UJ	< 20 UJ	NA	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	**0.33 J**	< 1	< 1	< 1	**1.1 J**
Toluene	600	1,000	**0.61 B**	**0.54 B**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	**48.9 J**	**44.4 J**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)												
Total TIC, Volatile	500	NLE	**69.4 JN**	**67.6 JN**	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699MW16									699RW03
Sample ID			FTMM-53-GW-699MW16-8.5	FTMM-53-GW-699MW16-11.5	FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699MW16-7.5	FTMM-53-699MW16-7.5	FTMM-53-GW-699MW16-7.5	FTMM-53-GW-699MW16-7.5	FTMM-53-GW-699RW03-11.4
Sample Date			3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015	3/12/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Filtered			LFPS	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	LFPS
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**130**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**32**
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**1.7 J**	**1.4 J**	**2.2 J**	**6.3 B**	**2 J**	**1.4 J**	**1.8 J**	**2.4 B**	< 5
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**4.8 J**
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.47 J**
Chloroform	70	80	**5.2**	**8**	**7.7**	**3.1 J**	**1.6 J**	**7.8**	**4.5 J**	**0.44 J**	**12**	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**3.2 J**
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**50**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**21**
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**71**
Methyl bromide	10	NLE	< 1	**0.34 J**	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.32 J**	**0.29 J**
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**29**
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**12**
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**90**
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**34**
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**7.4**
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ	NA
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.68 J**
Tetrachloroethene	1	5	**0.9 J**	**0.47 J**	**0.34 J**	**0.48 J**	**1.3 J**	**0.89 J**	**0.95 J**	**1.3 J**	**1.3 J**	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.7 J**
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**161**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)												
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	**5.9 J**	**813**

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699RW03								699RW05	
Sample ID			FTMM-53-GW-699RW03-14.59	FTMM-53-GW-699RW03-8.20	FTMM-53-GW-699RW03-8.2	FTMM-53-GW-699RW03-8.2	FTMM-53-GW-699RW03-8.2	FTMM-53-GW-699RW03-8.2	FTMM-53-GW-699RW03-8.2	FTMM-53-GW-699RW03-8.2	FTMM-53-GW-699RW05-8.6	FTMM-53-GW-699RW05-4.8
Sample Date			3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015	3/12/2014	3/31/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Filtered			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	LFPS	PDB
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 5	< 2
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2,4-Trichlorobenzene	9	70	< 1	**0.27 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2,4-Trimethylbenzene	100	NLE	**120**	**110**	**42**	**26**	**3 J**	**1.1 J**	**7.2**	**1.2 J**	**790**	**150**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,3,5-Trimethylbenzene	100	NLE	**17**	**16**	**3.1 J**	< 1	**0.26 J**	**0.45 J**	< 1	< 1	**160**	**30**
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 5	< 2
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Acetone	6,000	NLE	< 5	< 5	< 5	< 5	< 5	**1.6 J**	< 5	**3.2 B**	< 25	< 10
Benzene	1	5	**3.7 J**	**3.5 J**	**0.88 J**	**0.46 J**	< 1	< 1	< 1	**0.36 J**	**7.2 J**	**2.8 J**
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.6 J**	< 2
Chloroform	70	80	< 1	< 1	**0.28 J**	**0.29 J**	< 1	< 1	**0.53 J**	< 1	< 5	< 2
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Cymene	100	NLE	**0.91 J**	**0.8 J**	**0.59 J**	**0.63 J**	**0.29 J**	< 1	< 1	< 1	**3.7 J**	< 2
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 5	< 2
Ethyl benzene	700	700	**49**	**46**	**17**	**8.4**	**0.58 J**	< 1	**0.5 J**	**1.4 J**	**700**	**150**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Isopropylbenzene	700	NLE	**14**	**13**	**7**	**3.7 J**	**0.37 J**	< 1	**0.28 J**	**0.79 J**	**52**	**7.4 J**
Meta/Para Xylene	1,000	NLE	**62**	**59**	**9.8 J**	**0.77 J**	**0.45 J**	< 2	**0.56 J**	< 2	**1,600**	**430**
Methyl bromide	10	NLE	< 1	**0.33 J**	< 1	< 1	< 1 UJ	< 1	< 1	< 1	< 5	< 2
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 10
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Naphthalene	300	NLE	**19**	**15**	**6.5**	**2.9 J**	< 1	< 1	**0.37 J**	**0.83 J**	**270**	**60**
n-Butylbenzene	100	NLE	< 1	< 1	**0.9 J**	**1.2 J**	< 1	< 1	< 1	< 1	< 5	< 2
Ortho Xylene	1,000	NLE	**78**	**76**	**14**	**6.4**	**0.86 J**	**2.3 J**	**1.6 J**	**1.5 J**	**810**	**290**
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Propylbenzene	100	NLE	**18**	**16**	**12**	**6.6**	**0.38 J**	< 1	**0.45 J**	**0.88 J**	**100**	**8.9 J**
sec-Butylbenzene	100	NLE	**1.9 J**	**1.6 J**	**1.3 J**	**1.5 J**	< 1	< 1	< 1	**0.32 J**	**6.3 J**	< 2
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Tert Butyl Alcohol	100	NLE	NA	NA	NA	< 20	< 20	< 20	< 20	< 20 UJ	NA	NA
tert-Butylbenzene	100	NLE	**0.26 J**	**0.29 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Toluene	600	1,000	**1.4 J**	**1.3 J**	**0.22 J**	**0.21 J**	< 1	< 1	< 1	< 1	**23 J**	**7.1 J**
Total Xylenes	1,000	10,000	**140**	**135**	**23.8 J**	**7.17 J**	**1.31 J**	**4.3 J**	**2.16 J**	**3.5 J**	**2,410**	**720**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2
TIC VOCs (µg/l)												
Total TIC, Volatile	500	NLE	**362**	**302**	**7.1**	**129.7 JN**	**16 JN**	ND	ND	ND	**2,338**	**417.8**

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699RW05							699RW11		
Sample ID			FTMM-53-GW-699RW05-9.80	FTMM-53-GW-699RW05-4.8	FTMM-53-GW-699RW05-4.8	FTMM-53-GW-699RW05-10	FTMM-53-699RW05-10.0	FTMM-53-GW-699RW05-10	FTMM-53-GW-699RW05-10	FTMM-53-GW-699RW11-11.1	FTMM-53-GW-699RW11-14.08	FTMM-53-GW-699RW11-8.03
Sample Date			3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015	3/12/2014	3/31/2014	3/31/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Filtered			PDB	PDB	PDB	PDB	PDB	PDB	PDB	LFPS	PDB	PDB
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 2.5	< 1	< 1	< 1 UJ	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	**130**	**7.8**	**1.4 J**	**200 J**	**690**	**3.9 J**	**180**	**0.24 J**	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	**23**	**3.9 J**	**0.22 J**	**69**	**120**	**0.58 J**	**4.6 J**	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 2.5	< 1	< 1	< 1 UJ	< 2.5	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 13	< 5	**14**	< 5	< 13	< 5	**5.8 B**	< 5	< 5	< 5
Benzene	1	5	**3.1 J**	**0.21 J**	< 1	**1.9 J**	**1.2 J**	< 1	**2.8 J**	**11**	**6.5**	**6.5**
Bromobenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1 UJ	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 2.5	< 1	< 1	< 1	< 2.5 UJ	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 2.5	< 1	< 1	**1.3 J**	**2.1 J**	**0.23 J**	**0.57 J**	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 2.5	< 1	< 1	< 1 UJ	< 2.5	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	**160**	**0.74 J**	**0.51 J**	**120**	**330**	**0.94 J**	**180**	**0.45 J**	**0.26 J**	**0.25 J**
Hexachlorobutadiene	1	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	**8.1 J**	**0.45 J**	< 1	**7.7**	**23**	< 1	**13**	**8.9**	**1.2 J**	**1.2 J**
Meta/Para Xylene	1,000	NLE	**390**	**6.3 J**	**0.88 J**	**330**	**820**	**2.9 J**	**150**	**0.45 J**	**0.33 J**	**0.35 J**
Methyl bromide	10	NLE	**0.88 J**	< 1	< 1	< 1 UJ	< 2.5 UJ	< 1 UJ	< 1	< 1	**0.35 J**	**0.29 J**
Methyl butyl ketone	300	NLE	< 13	< 5	< 5	< 5	< 13	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	**0.23 J**	< 1	< 1
Methyl ethyl ketone	300	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	**0.82 J**	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**54**	**7.6**	**0.33 J**	**71**	**160**	**0.81 J**	**39**	**1.5 J**	**0.61 J**	**0.75 J**
n-Butylbenzene	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	**0.67 J**	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	**270**	**16**	**1 J**	**290**	**510**	**3.2 J**	**210**	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	**9.7 J**	< 1	< 1	**9.7**	**39**	**0.27 J**	**19**	**9.4**	**0.71 J**	**0.68 J**
sec-Butylbenzene	100	NLE	< 2.5	< 1	< 1	**1.2 J**	**2.7 J**	< 1	**0.98 J**	**1.6 J**	< 1	< 1
Styrene	100	100	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20	< 50	< 20	< 20 UJ	NA	NA	NA
tert-Butylbenzene	100	NLE	< 2.5	< 1	< 1	**0.28 J**	< 2.5	< 1	**0.25 J**	**0.36 J**	< 1	< 1
Tetrachloroethene	1	5	**0.8 J**	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	**7 J**	**0.46 J**	< 1	**6.8**	**7.4 J**	< 1	**9.4**	**0.37 J**	**0.3 J**	**0.36 J**
Total Xylenes	1,000	10,000	**660**	**22.3 J**	**1.88 J**	**620**	**1,330**	**6.1 J**	**360**	**0.45 J**	**0.33 J**	**0.35 J**
Trans-1,2-Dichloroethene	100	100	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 2.5	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)												
Total TIC, Volatile	500	NLE	**369.4**	ND	**5.7 JN**	**1,181 JN**	**2,062 JN**	**6.5 JN**	**1,217 JN**	**122.9**	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	699RW11					
Sample ID			FTMM-53-GW-699RW11-8.3	FTMM-53-GW-699RW11-8.3	FTMM-53-GW-699RW11-5.3	FTMM-53-699RW11-8.3	FTMM-53-GW-699RW11-8.3	FTMM-53-GW-699RW11-8.3
Sample Date			7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015
QA/QC			SA	SA	SA	SA	SA	SA
Filtered			PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)								
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	**0.21 J**	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	< 5	**28**	< 5 UJ	< 5	< 5
Benzene	1	5	**2.7 J**	**2.4 J**	**3 J**	**7.1**	**4.7 J**	**3 J**
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1 UJ
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1 UJ	< 1	< 1	< 1
Ethyl benzene	700	700	**0.28 J**	< 1	< 1	**0.3 J**	**0.35 J**	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	**4.3 J**	**6.3**	**1.3 J**	**6.1**	**12**	**7.1**
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	**0.55 J**	**0.42 J**	**0.45 J**
Methyl bromide	10	NLE	< 1	< 1	< 1 UJ	< 1	< 1	**0.37 J**
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	**0.42 J**
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**0.74 J**	**0.59 J**	**0.98 J**	**0.96 J**	**0.28 J**	**0.27 J**
n-Butylbenzene	100	NLE	< 1	**0.29 J**	< 1	< 1	**0.32 J**	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	**5.1**	**3.5 J**	**0.28 J**	**4.4 J**	**11**	**2.7 J**
sec-Butylbenzene	100	NLE	**0.33 J**	**1.1 J**	**0.6 J**	**0.89 J**	**1.3 J**	**1.2 J**
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	< 20	< 20	< 20	< 20	< 20 UJ
tert-Butylbenzene	100	NLE	< 1	< 1	**0.3 J**	**0.37 J**	**0.23 J**	**0.22 J**
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	**0.22 J**	< 1	< 1	< 1	**0.36 J**	**0.38 B**
Total Xylenes	1,000	10,000	< 3	< 3	< 3	**1.55 J**	**1.42 J**	**1.45 J**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)								
Total TIC, Volatile	500	NLE	ND	**83.2 JN**	**76.9 JN**	**195 JN**	**92.7 JN**	**131 JN**

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Footnote:
1) All historical data collected prior to 2013 are reported as provided by others.
2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
3) NLE = no limit established.
4) ND = not detected in any background sample, no background concentration available.
5) Bold chemical dectection

6) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.
[blank] = detect, i.e. detected chemical result value.
B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected at or above this value.
U-DL = Elevated sample detection limit due to difficult sample matrix.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.
E (or ER) = Estimated result.
D = Results from dilution of sample.
J-DL = Elevated sample detection limit due to difficult sample matrix.
JN = Tentatively identified compound, estimated concentration.

7) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####

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

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).
- Bold Outline represent a result that is above the USEPA 2015-05 MCL. ###

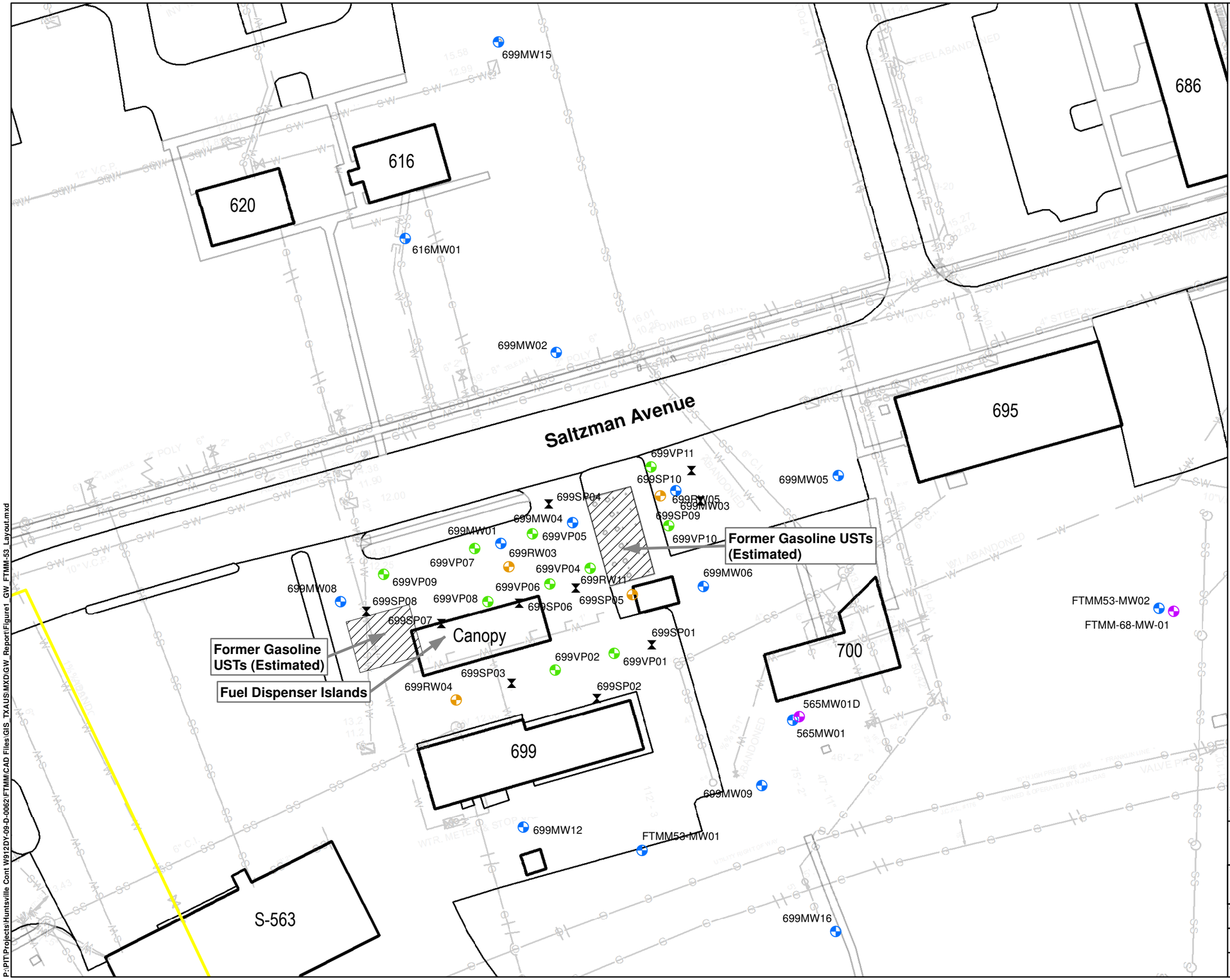
8) Criteria action level source document and web address.
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf
- The 2015-06 USEPA MCL refers to the USEPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2015 (Last revised)

9) Highlighted sample ID indicates sample collected 3rd Quarter 2015 Sample ID

FIGURES

Figure 1 Layout of FTMM-53 Former Gas Station at Building 699

Figure 2 FTMM-53 Shallow Groundwater Contours June 29, 2015



LEGEND:

- Shallow Monitoring Well
- Deep Monitoring Well
- Vapor Monitoring Well
- Recovery Well
- Air Sparge Well
- Municipal Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line

N

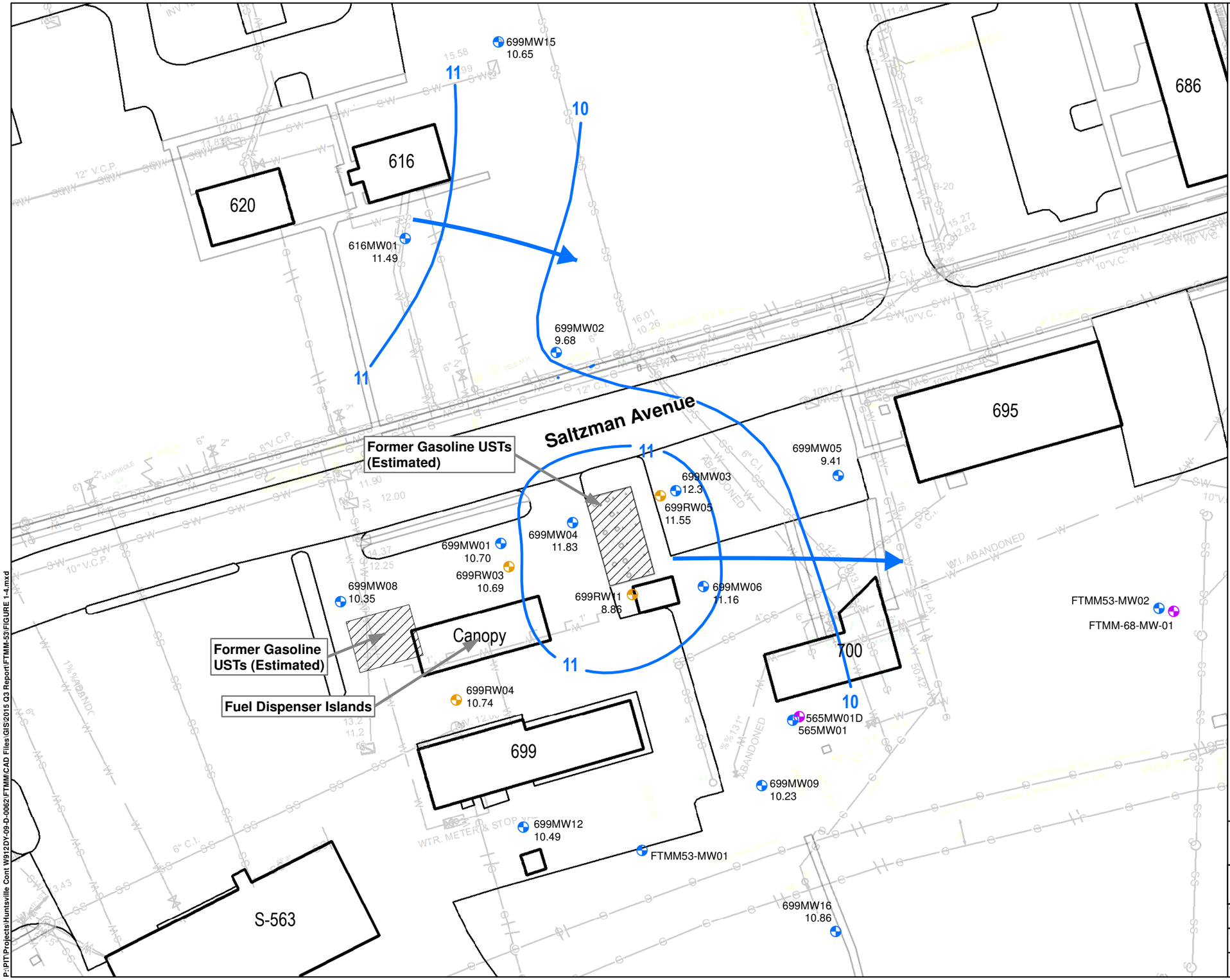
1 inch = 60 feet

0 30 60 120 Feet

Source: FTMM Supplied CAD

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS_TXAUS\MXD\GW_Report\Figure1_GW_FTMM-53_Layout.mxd

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
LAYOUT OF FTMM-53 FORMER GAS STATION AT BUIDILING 699	
CREATED BY: RR	REVIEWED BY: ME
DATE: FEB. 2016	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-01000	FILE: Figure1_GW_FTMM-53_Layout.mxd



LEGEND:

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

NOTE:

Groundwater elevations in monitoring wells 699MW03 and 699RW11 were considered anomalous compared to the fluid levels at neighboring wells.

N

1 inch = 60 feet

0 15 30 60 90 120 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
FTMM-53 SHALLOW GROUNDWATER CONTOURS JUNE 29, 2015	
CREATED BY: RR	REVIEWED BY: ME
DATE: FEB. 2016	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1-4.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2015 Q3 Report\FTMM-53\FIGURE 1-4.mxd

ATTACHMENTS

Attachment A NJDEP PDB Checklists

ATTACHMENT A
NJDEP PDB CHECKLISTS

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 699 MW01
4. Well Permit Number: 2923677-1

5. Type of Well: [X] Monitoring [ ] Extraction [ ] Residential [ ] Public Supply [ ] Irrigation [ ] Other
6. Well Surface Finish: [ ] Stick Up [X] Flush Mount
7. Location of Measuring Point: [X] Top of Casing [ ] Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.75
9. Total Well Depth (fbgs) 14.12
10. Screened interval/open hole (fbgs) 1.12 - 14.12
11. Well Casing: Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.02

14. Date and Time of Deployment Date: 6/29/15 Time: 1015
15. Depth to Ground Water Depth to ground water at time of deployment 3.78
16. Date and Time of Retrieval Date: 9/28/15 Time: 0915
17. Depth to Ground Water Depth to ground water at time of retrieval 6.19
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    [ ] Lab Filled (Modified Trip Blank must be taken at time of deployment)
    [X] Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled
22. Position of PDBS Weight
    [X] Attached to bottom of PDBS and suspended in well
    [ ] Attached to bottom of deployment line and suspended in well
    [ ] Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
-7.5			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    [ ] **No**, this well is being profiled during this sampling round
    [X] **Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    [ ] **No**, flow testing has not been conducted in this well
    [ ] **Yes**, flow testing of this well was conducted. Date of testing:
    Type of flow meter used:
    Measurements taken every feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10 mph [X] Sunny [ ] Overcast [ ] Raining [ ] Snowing
27. Weather Conditions During Retrieval Temp. 72°F Wind E 5-10 mph [ ] Sunny [ ] Overcast [X] Raining [ ] Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiTonno Chris Watson	Parsons

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 699MW04
4. Well Permit Number: 29-23680-7

5. Type of Well: [X] Monitoring [ ] Extraction [ ] Residential [ ] Public Supply [ ] Irrigation [ ] Other
6. Well Surface Finish: [ ] Stick Up [X] Flush Mount
7. Location of Measuring Point: [X] Top of Casing [ ] Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.31
9. Total Well Depth (fbgs) 17.61
10. Screened interval/open hole (fbgs) 0.61 - 17.61
11. Well Casing: Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.02

14. Date and Time of Deployment Date: 6/29/15 Time: 1035
15. Depth to Ground Water Depth to ground water at time of deployment 3.20
16. Date and Time of Retrieval Date: 9/30/15 Time: 0935
17. Depth to Ground Water Depth to ground water at time of retrieval 6.70
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    [ ] Lab Filled (Modified Trip Blank must be taken at time of deployment)
    [X] Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled
22. Position of PDBS Weight
    [ ] Attached to bottom of PDBS and suspended in well
    [ ] Attached to bottom of deployment line and suspended in well
    [ ] Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
8.0			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    [ ] **No**, this well is being profiled during this sampling round
    [X] **Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    [ ] **No**, flow testing has not been conducted in this well
    [ ] **Yes**, flow testing of this well was conducted. Date of testing:
    Type of flow meter used:
    Measurements taken every feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10 mph [X] Sunny [ ] Overcast [ ] Raining [ ] Snowing
27. Weather Conditions During Retrieval Temp. 72°F Wind E 5-10 mph [ ] Sunny [ ] Overcast [X] Raining [ ] Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiTuro	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 699MW06
4. Well Permit Number: 25-23809

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.04
9. Total Well Depth (fbgs) 13.90
10. Screened Interval/open hole (fbgs) 0.90-13.90
11. Well Casing: Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.02

14. Date and Time of Deployment Date: 6/29/15 Time: 1030
15. Depth to Ground Water Depth to ground water at time of deployment 5.59
16. Date and Time of Retrieval Date: 9/30/15 Time: 0930
17. Depth to Ground Water Depth to ground water at time of retrieval 9.05
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20oz (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
10.2 (2 bags)			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☒ **Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 70°F Wind E 5-10 mph ☐ Sunny ☐ Overcast ☒ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex D. Tonno	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 699 MW09
4. Well Permit Number: 29-24639

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.3
9. Total Well Depth (fbgs) 12.5
10. Screened interval/open hole (fbgs) 0.5 - 12.5
11. Well Casing: Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.02

14. Date and Time of Deployment Date: ~~3/30/15~~ 6/29/15 Time: 1020
15. Depth to Ground Water Depth to ground water at time of deployment 4.47
16. Date and Time of Retrieval Date: 9/30/15 Time: 0920
17. Depth to Ground Water Depth to ground water at time of retrieval 7.34
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled
22. Position of PDBS Weight
    ☒ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
7.75			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☒ **Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 72°F Wind E 5-10mph ☐ Sunny ☐ Overcast ☒ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex D'Anno	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 699MW16
4. Well Permit Number: 29-33769

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.65
9. Total Well Depth (fbgs) 14.70
10. Screened interval/open hole (fbgs) 4.70-14.70
11. Well Casing: Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.02

14. Date and Time of Deployment Date: 6/29/15 Time: 1025
15. Depth to Ground Water Depth to ground water at time of deployment 4.41
16. Date and Time of Retrieval Date: 9/30/15 Time: 0925
17. Depth to Ground Water Depth to ground water at time of retrieval 7.71
18. Type of Deployment Line Used Diameter: 3/16" Material: Poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    ☒ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
7.5			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☒ **Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 71°F Wind E 5-10mph ☐ Sunny ☐ Overcast ☒ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex D'Ionno	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: G99RW03
4. Well Permit Number: 29-43851

5. Type of Well: ☒Monitoring ☐Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other
6. Well Surface Finish: ☐Stick Up ☒Flush Mount
7. Location of Measuring Point: ☒Top of Casing ☐Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.9
9. Total Well Depth (fbgs) 17.87
10. Screened interval/open hole (fbgs) 2.87-17.87
11. Well Casing: Diameter: 6 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
13. Screen Size (slot): Screen Slot Size 0.01

14. Date and Time of Deployment: Date: 6/29/15 Time: 1045
15. Depth to Ground Water: Depth to ground water at time of deployment 4.18
16. Date and Time of Retrieval: Date: 9/30/15 Time: 0945
17. Depth to Ground Water: Depth to ground water at time of retrieval 6.68
18. Type of Deployment Line Used: Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight: Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS: Length (in.) 18 Diameter (in.) 1.5 Filled
22. Position of PDBS Weight
    ☒Attached to bottom of PDBS and suspended in well
    ☐Attached to bottom of deployment line and suspended in well
    ☐Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
8.2			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐**No**, this well is being profiled during this sampling round
    ☒**Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐**No**, flow testing has not been conducted in this well
    ☐**Yes**, flow testing of this well was conducted. Date of testing:
    Type of flow meter used:
    Measurements taken every feet **[Please Attach Results]**
26. Weather Conditions During Deployment: Temp. 68°F Wind W 5-10 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval: Temp. 73°F Wind E 5-10 mph ☐Sunny ☐Overcast ☒Raining ☐Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiTonno	Parsons
Chris Watson	

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 699RW05
4. Well Permit Number: 29-56509

5. Type of Well: ☐Monitoring ☒Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other
6. Well Surface Finish: ☐Stick Up ☒Flush Mount
7. Location of Measuring Point: ☒Top of Casing ☐Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -1.15
9. Total Well Depth (fbgs) 13.44
10. Screened interval/open hole (fbgs) 3.44-13.44
11. Well Casing: Diameter: 6 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.01

14. Date and Time of Deployment Date: 6/29/15 Time: 1010
15. Depth to Ground Water Depth to ground water at time of deployment 4.64
16. Date and Time of Retrieval Date: 9/30/15 Time: 0910
17. Depth to Ground Water Depth to ground water at time of retrieval 4.97
18. Type of Deployment Line Used Diameter: 3/16" Material: Poly
19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    ☐Attached to bottom of PDBS and suspended in well
    ☒Attached to bottom of deployment line and suspended in well
    ☐Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
10			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐**No**, this well is being profiled during this sampling round
    ☒**Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐**No**, flow testing has not been conducted in this well
    ☐**Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval Temp. 70°F Wind E 5-10 mph ☐Sunny ☐Overcast ☒Raining ☐Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiLonardo	Parsons
Chris Watson	

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 699RW11
4. Well Permit Number: 29-28031

5. Type of Well: ☐Monitoring ☒Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other
6. Well Surface Finish: ☐Stick Up ☒Flush Mount
7. Location of Measuring Point: ☒Top of Casing ☐Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) -0.58
9. Total Well Depth (fbgs) 17.68
10. Screened interval/open hole (fbgs) 2.68 - 17.68
11. Well Casing: Diameter: 11 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 11 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.02

14. Date and Time of Deployment Date: 6/29/15 Time: 1040
15. Depth to Ground Water Depth to ground water at time of deployment 4.27
16. Date and Time of Retrieval Date: 9/30/15 Time: 0940
17. Depth to Ground Water Depth to ground water at time of retrieval 7.02
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight
    ☒Attached to bottom of PDBS and suspended in well
    ☐Attached to bottom of deployment line and suspended in well
    ☐Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
8.3			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐**No**, this well is being profiled during this sampling round
    ☒**Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐**No**, flow testing has not been conducted in this well
    ☐**Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval Temp. 70°F Wind E 5-10 mph ☐Sunny ☐Overcast ☒Raining ☐Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex D'Agnano	Parsons
Chris Watson	

APPENDIX C

FTMM-68: FORMER DRY CLEANERS UST AT BUILDING 700

APPENDIX C:
FTMM-68 Former Dry Cleaners UST at Building 700

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3	Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015

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1	Layout of FTMM-68 Former Dry Cleaners UST at Building 700

LIST OF ATTACHMENTS

Attachment	Title
A	NJDEP PDB Checklists

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within FTMM-68 were gauged on June 29, 2015. Monitoring well locations as well as other site features are provided in **Figure 1**. Details regarding the water level measurements are provided in **Table 1**. The depth to groundwater measured from the top of well casing in monitoring wells 565MW01 and 565MW01D was 7.13 and 7.80 feet, respectively. Well details, including the top of well casing elevations, were not available at the time of this report and therefore groundwater elevations could not be calculated. Groundwater is expected to flow towards the east toward Huskey Brook based on groundwater elevations calculated in nearby monitoring wells at FTMM-53.

Additionally, monitoring wells were inspected for their physical condition during the groundwater gauging. FTMM-68 monitoring wells were found to be in good condition upon inspection.

2.0 GROUNDWATER SAMPLING

Groundwater samples were collected from two monitoring wells located within FTMM-68 as part of the third quarter 2015 groundwater sampling event. The groundwater sampling program included measuring the depth to groundwater in the two FTMM-68 monitoring wells prior to sampling and collection of groundwater samples using passive diffusion bags (PDBs) methodology. PDBs were deployed in FTMM-68 monitoring wells on June 29, 2015 and samples were retrieved on September 30, 2015. A PDB sampling summary is provided in **Table 2**. Groundwater samples were analyzed for Target Compound List (TCL) volatile organic compounds and tentatively identified compounds (VOCs+TICs) via United States Environmental Protection Agency (USEPA) Method SW8260C.

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

Completed NJDEP PDB checklists for each well sampled are provided in **Attachment A**.

3.0 GROUNDWATER RESULTS THIRD QUARTER 2015

Five chlorinated VOCs were detected in groundwater during this quarterly event above their respective NJDEP GWQS. Groundwater analytical detections from samples collected during 2014 and the first and third quarter 2015 groundwater sampling events are presented in **Table 3**. In the third quarter, the compounds 1,1-Dichloroethene (7J µg/L) , trichloroethene (550 µg/L), tetrachloroethene (1,300 µg/L), and vinyl chloride (53 µg/L) were detected above their NJDEP GWQS of 1 µg/L in monitoring well 565MW01. Additionally cis-1,2-dichloroethene was detected at 565MW01 at a concentration of 600 µg/L; which is above the NJDEP GWQS of 70 µg/L. In monitoring well 565MW01D, the compounds tetrachloroethene (3,600 µg/L) and trichloroethene (32 J µg/L) were detected above their NJDEP GWQS of 1 µg/L.

TABLES

Table 1 Groundwater Gauging Data and Elevations (June 29, 2015)

Table 2 PDB Sampling Summary

Table 3 Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015

Table 1
Groundwater Gauging Data and Elevations (June 29, 2015)
Site FTMM-68 Former Dry Cleaners UST at Building 700
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	PID Reading (ppm)	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)
Shallow Monitoring Wells													
565MW01	8/16/2011	N/A	N/A	N/A	15.0	5.0	10.0	0.00	9:00	N/A	7.13	15.29	N/A
Deep Monitoring Wells													
565MW01D	8/16/2011	N/A	N/A	N/A	23.0	18.0	5.0	0.00	9:00	N/A	7.80	23.46	N/A

Notes:
1) The synoptic round of water levels in the wells was collected on June 29, 2015.
2) Information on well permit number, X and Y coordinates, depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
3) ft = feet
4) DTW = depth to water (measured from the top of well casing)
5) DTB = depth to bottom of well (measured from the top of well casing)
6) bgs = below ground surface
7) ppm = parts per million (of VOCs)
8) TOC = Top of Casing
9) Elevation = feet above mean sea level
10) N/A = information not available

Table 2
PDB Sampling Summary
Site FTMM-68 Former Dry Cleaners UST at Building 700
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Profile Date	Depth (ft. bgs)	Screen Length (ft.)	Screen Interval (ft. bgs)	TOC Elev. (ft)	Gauge Date	Gauge Time	PID Reading (ppm)	Gauged DTW (ft. below TOC)	Gauged DTB (ft. below TOC)	GW Elevation (ft)	Saturated Screen Length (ft)	PDB Interval 1 (ft. below TOC)	PDB Interval 2 (ft. below TOC)	PDB Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
565MW01	8/29/2013	15.0	10.0	5-15	0.00	3/30/2015	8:51	N/A	7.13	15.29	N/A	10.00	11.99	N/A	6/29/2015	10:00	9/30/2015	10:24
565MW01D	8/29/2013	23.0	5.0	18-23	0.00	3/30/2015	8:53	N/A	7.80	23.46	N/A	5.00	22.31	N/A	6/29/2015	10:05	9/30/2015	10:18

Notes:
1) Information on well depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
2) DTW = depth to water (measured from the top of well casing)
3) DTB = depth to bottom of well (measured from the top of well casing)
4) TOC = Top of Casing
5) ft. AMSL = feet above mean sea level
6) LFPS = Low-Flow Purging and Sampling
7) PDB = Passive Diffusion Bag
8) N/A = not applicable
9) bgs = below ground surface

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-68 Former Dry Cleaners UST at Building 700
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	565MW01						
Sample ID			FTMM-68-GW-565MW01-11.99_20140331	FTMM-68-GW-565MW01-11.99_20140701	FTMM-68-GW-565MW01-11.99_2014-Q3	FTMM-68-GW-565MW01-11.99_2014_Q4	FTMM-68-565MW01-11.99	FTMM-68-GW-565MW01-11.99_2015_Q2	FTMM-68-GW-565MW01-11.99_2015_Q3
Sample Date			3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015
QA/QC			SA	SA	SA	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)									
1,1,1,2-Tetrachloroethane	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,1,1-Trichloroethane	30	200	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,1,2,2-Tetrachloroethane	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,1,2-Trichloroethane	3	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,1-Dichloroethane	50	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,1-Dichloroethene	1	7	**2 J**	**2.1 J**	**3.2 J**	< 2	< 1	**1.9 J**	**7 J**
1,1-Dichloropropene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2,3-Trichlorobenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2,3-Trichloropropane	0.03	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2,4-Trichlorobenzene	9	70	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2,4-Trimethylbenzene	100	NLE	**0.83 J**	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2-Dibromo-3-chloropropane	0.02	0.2	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2-Dibromoethane	0.03	0.05	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2-Dichlorobenzene	600	600	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2-Dichloroethane	2	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,2-Dichloropropane	1	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,3,5-Trimethylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,3-Dichlorobenzene	600	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,3-Dichloropropane	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
1,4-Dichlorobenzene	75	75	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
2,2-Dichloropropane	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
2-Chlorotoluene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Acetone	6,000	NLE	< 13	**3.2 J**	**13 J**	< 10	**1.7 J**	< 5	< 13
Benzene	1	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Bromobenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Bromochloromethane	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Bromodichloromethane	1	80	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Bromoform	4	80	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Carbon tetrachloride	1	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Chlorobenzene	50	100	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Chlorodibromomethane	1	80	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Chloroethane	5	NLE	< 2.5	< 2.5	< 5	< 2	< 1	**0.31 J**	< 2.5
Chloroform	70	80	**0.85 J**	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Cis-1,2-Dichloroethene	70	70	**270**	**190**	**210**	**110**	**40**	**130**	**600**
Cis-1,3-Dichloropropene	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Cymene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Dichlorodifluoromethane	1,000	NLE	< 2.5	< 2.5	< 5	< 2 UJ	< 1	< 1	< 2.5
Ethyl benzene	700	700	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Hexachlorobutadiene	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Isopropylbenzene	700	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Meta/Para Xylene	1,000	NLE	< 5	< 5	< 10	< 4	< 2	< 2	< 5
Methyl bromide	10	NLE	< 2.5	< 2.5	< 5	< 2 UJ	< 1	< 1	< 2.5
Methyl butyl ketone	300	NLE	< 13	< 13	< 25	< 10	< 5	< 5	< 13
Methyl chloride	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	**0.55 J**
Methyl ethyl ketone	300	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Methyl isobutyl ketone	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Methyl Tertbutyl Ether	70	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Methylene chloride	3	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Naphthalene	300	NLE	**4.8 J**	< 2.5	< 5	< 2	< 1	< 1	< 2.5
n-Butylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Ortho Xylene	1,000	NLE	**0.58 J**	< 2.5	< 5	< 2	< 1	< 1	< 2.5
p-Chlorotoluene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Propylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
sec-Butylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Styrene	100	100	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Tert Butyl Alcohol	100	NLE	NA	NA	< 100	< 40	< 20	< 20	< 50 UJ
tert-Butylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Tetrachloroethene	1	5	**440**	**350**	**700**	**180**	**94**	**350**	**1,300**
Toluene	600	1,000	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Total Xylenes	1,000	10,000	**0.58 J**	< 7.5	< 15	< 6	< 3	< 3	< 7.5
Trans-1,2-Dichloroethene	100	100	**1.9 J**	**1.3 J**	< 5	**0.78 J**	< 1	**1 J**	**2.7 J**
Trans-1,3-Dichloropropene	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Trichloroethene	1	5	**230**	**160**	**210**	**86**	**25**	**110**	**550**
Trichlorofluoromethane	2,000	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 2.5
Vinyl chloride	1	2	**18**	**13**	**16 J**	**1.3 J**	**1.7 J**	**11**	**53**
TIC VOCs (µg/l)									
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	**57.9 J**

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-68 Former Dry Cleaners UST at Building 700
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2015-06 USEPA MCL	565MW01D							
Sample ID			FTMM-68-GW-565MW01D-22.31_20140331	FTMM-68-GW-565MW101D-22.31	FTMM-68-GW-565MW01D-22.31_20140701	FTMM-68-GW-565MW01D-22.31_2014-Q3	FTMM-68-GW-565MW01D-22.31_2014_Q4	FTMM-68-565MW01D-22.31	FTMM-68-GW-565MW01D-22.31_2015_Q2	FTMM-68-GW-565MW01D-22.31_2015_Q3
Sample Date			3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	6/29/2015	9/30/2015
QA/QC			SA	DU	SA	SA	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)										
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,1,1-Trichloroethane	30	200	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,1,2-Trichloroethane	3	5	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,1-Dichloroethane	50	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,1-Dichloroethene	1	7	**0.67 J**	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,1-Dichloropropene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2,3-Trichlorobenzene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2,3-Trichloropropane	0.03	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2,4-Trichlorobenzene	9	70	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2,4-Trimethylbenzene	100	NLE	< 1	**4.6 J**	< 10	< 50	< 20	< 5	< 5	< 20
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2-Dibromoethane	0.03	0.05	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2-Dichlorobenzene	600	600	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2-Dichloroethane	2	5	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,2-Dichloropropane	1	5	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,3,5-Trimethylbenzene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,3-Dichlorobenzene	600	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,3-Dichloropropane	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
1,4-Dichlorobenzene	75	75	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
2,2-Dichloropropane	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
2-Chlorotoluene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Acetone	6,000	NLE	**1.5 J**	< 50	< 50	< 250	< 100	< 25	< 25	< 100
Benzene	1	5	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Bromobenzene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Bromochloromethane	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Bromodichloromethane	1	80	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Bromoform	4	80	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Carbon tetrachloride	1	5	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Chlorobenzene	50	100	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Chlorodibromomethane	1	80	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Chloroethane	5	NLE	< 1	< 10	< 10	< 50	< 20	< 5 UJ	< 5	< 20
Chloroform	70	80	< 1	**2.7 J**	< 10	< 50	< 20	< 5	< 5	< 20
Cis-1,2-Dichloroethene	70	70	**140**	**120**	**34 J**	< 50	**49 J**	**53**	**7.4 J**	**15 J**
Cis-1,3-Dichloropropene	1	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Cymene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Dichlorodifluoromethane	1,000	NLE	< 1	< 10	< 10	< 50	< 20 UJ	< 5 UJ	< 5	< 20
Ethyl benzene	700	700	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Hexachlorobutadiene	1	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Isopropylbenzene	700	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Meta/Para Xylene	1,000	NLE	< 2	< 20	< 20	< 100	< 40	< 10	< 10	< 40
Methyl bromide	10	NLE	**0.33 J**	< 10	< 10	< 50	< 20 UJ	< 5 UJ	< 5	< 20
Methyl butyl ketone	300	NLE	< 5	< 50	< 50	< 250	< 100	< 25	< 25	< 100
Methyl chloride	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5 UJ	< 5	**4.6 J**
Methyl ethyl ketone	300	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Methyl isobutyl ketone	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Methyl Tertbutyl Ether	70	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Methylene chloride	3	5	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Naphthalene	300	NLE	< 1	**12 J**	< 10	< 50	< 20	< 5	< 5	< 20
n-Butylbenzene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Ortho Xylene	1,000	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
p-Chlorotoluene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Propylbenzene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
sec-Butylbenzene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Styrene	100	100	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Tert Butyl Alcohol	100	NLE	NA	NA	NA	< 1000	< 400	< 100	< 100	< 400 UJ
tert-Butylbenzene	100	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Tetrachloroethene	1	5	**1,500**	**1,500**	**1,800**	**4,800**	**2,400**	**860**	**2,100**	**3,600**
Toluene	600	1,000	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Total Xylenes	1,000	10,000	< 3	< 30	< 30	< 150	< 60	< 15	< 15	< 60
Trans-1,2-Dichloroethene	100	100	**1.4 J**	< 10	< 10	< 50	< 20	**1.9 J**	< 5	< 20
Trans-1,3-Dichloropropene	1	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Trichloroethene	1	5	**110**	**96**	**42 J**	**18 J**	**41 J**	**45**	**19 J**	**32 J**
Trichlorofluoromethane	2,000	NLE	< 1	< 10	< 10	< 50	< 20	< 5	< 5	< 20
Vinyl chloride	1	2	**6.1**	**5.5 J**	< 10	< 50	< 20	**2.5 J**	< 5	< 20
TIC VOCs (µg/l)										
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First, Second and Third Quarter 2015
Site FTMM-68 Former Dry Cleaners UST at Building 700
Groundwater Sampling Report - Third Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Footnote:
1) All historical data collected prior to 2013 are reported as provided by others.
2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
3) NLE = no limit established.
4) ND = not detected in any background sample, no background concentration available.
5) Bold chemical dectection

6) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.
[blank] = detect, i.e. detected chemical result value.
B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected at or above this value.
U-DL = Elevated sample detection limit due to difficult sample matrix.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.
E (or ER) = Estimated result.
D = Results from dilution of sample.
J-DL = Elevated sample detection limit due to difficult sample matrix.
JN = Tentatively identified compound, estimated concentration.

7) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####

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

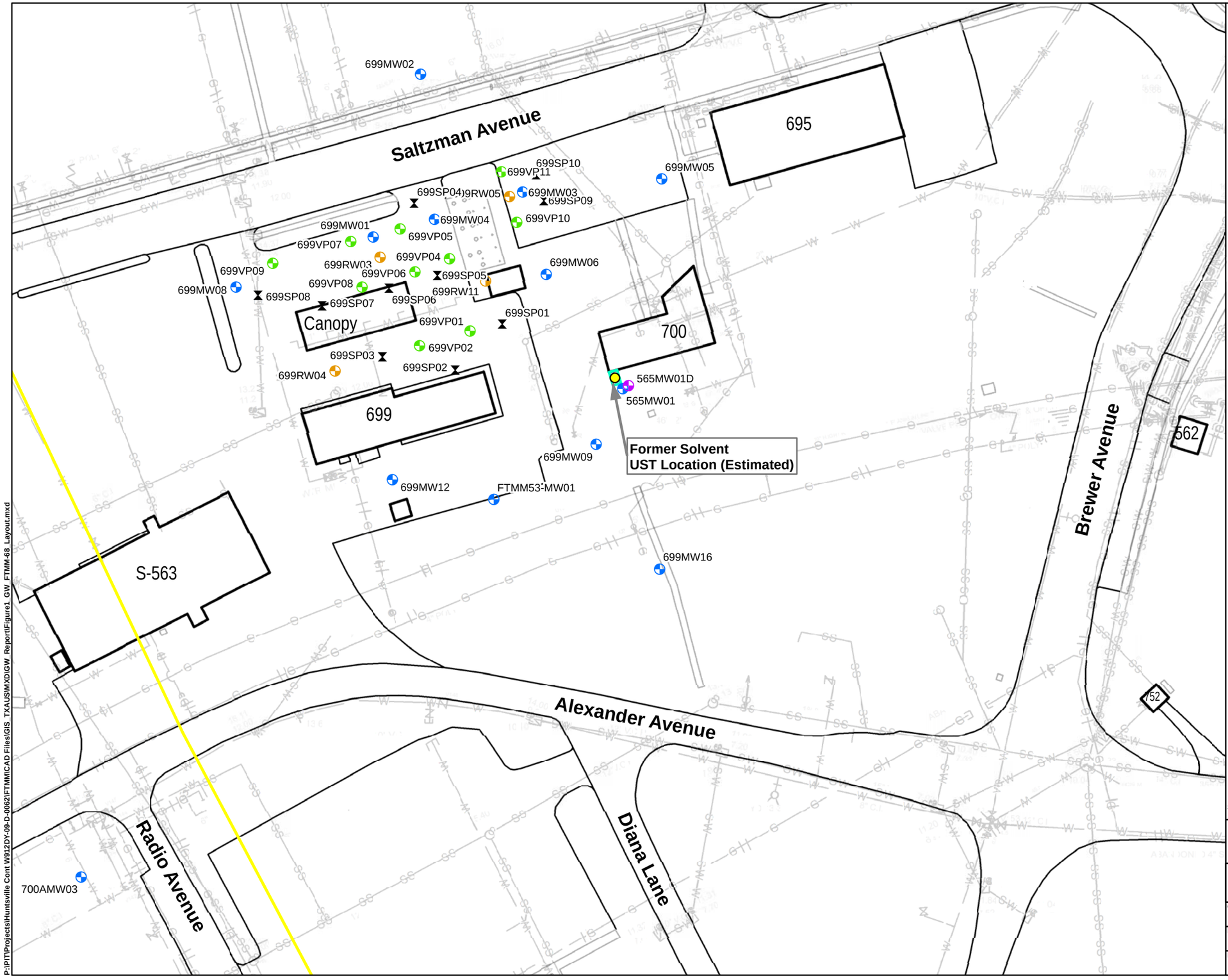
NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).
- Bold Outline represent a result that is above the USEPA 2015-05 MCL. ###

8) Criteria action level source document and web address.
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
  http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf
- The 2015-06 USEPA MCL refers to the USEPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2015 (Last revised)

9) Highlighted sample ID indicates sample collected 3rd Quarter 2015 Sample ID

FIGURES

Figure 1 Layout of FTMM-68 Former Dry Cleaners UST at Building 700



LEGEND:

- Shallow Monitoring Well
- Deep Monitoring Well
- Vapor Monitoring Well
- Recovery Well
- Air Sparge Well
- UST Excavation Footprint
- Municipal Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line

N

1 inch = 70 feet

0 35 70 140 Feet

Source: FTMM Supplied CAD

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

LAYOUT OF FTMM-68 FORMER DRY CLEANERS UST AT BUILDING 700

CREATED BY: RR	REVIEWED BY: ME
DATE: FEB. 2016	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-02180	FILE: Figure1_GW_FTMM-68_Layout.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS_TXAUS\MXD\GW_Report\Figure1_GW_FTMM-68_Layout.mxd

ATTACHMENTS

Attachment A NJDEP PDB Checklists

ATTACHMENT A
NJDEP PDB CHECKLISTS

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-68
3. Well Designation: 565MW01
4. Well Permit Number: _____

5. Type of Well: ☒Monitoring ☐Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other
6. Well Surface Finish: ☒Stick Up ☐Flush Mount
7. Location of Measuring Point: ☒Top of Casing ☐Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.79
9. Total Well Depth (fbgs) 15.29
10. Screened interval/open hole (fbgs) 5.29 - 15.29
11. Well Casing: Diameter: 4 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel
13. Screen Size (slot): Screen Slot Size 0.01

14. Date and Time of Deployment: Date: 6/29/15 Time: 1000
15. Depth to Ground Water: Depth to ground water at time of deployment 7.13
16. Date and Time of Retrieval: Date: 6/30/15 Time: 0900
17. Depth to Ground Water: Depth to ground water at time of retrieval 6.49 16.24
18. Type of Deployment Line Used: Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight: Stainless Steel 20 oz (stainless steel recommended)
20. Type of PDBS Used:
    ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☐Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS: Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight:
    ☐Attached to bottom of PDBS and suspended in well
    ☒Attached to bottom of deployment line and suspended in well
    ☐Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS):

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
11.99			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐**No**, this well is being profiled during this sampling round
    ☒**Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐**No**, flow testing has not been conducted in this well
    ☐**Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment: Temp. 68°F Wind W 5-10 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval: Temp. 70°F Wind E 5-10 mph ☐Sunny ☐Overcast ☒Raining ☐Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiIonno	Parsons
Chris Watson	"

PARSONS

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: FTMM
2. Location: FTMM-68
3. Well Designation: 565MW01D
4. Well Permit Number:

5. Type of Well: [X] Monitoring [ ] Extraction [ ] Residential [ ] Public Supply [ ] Irrigation [ ] Other
6. Well Surface Finish: [X] Stick Up [ ] Flush Mount
7. Location of Measuring Point: [X] Top of Casing [ ] Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.89
9. Total Well Depth (fbgs) 23.46
10. Screened interval/open hole (fbgs) 18.46 - 23.46
11. Well Casing: Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4 Material: [X] PVC [ ] Carbon Steel [ ] Stainless Steel
13. Screen Size (slot) Screen Slot Size 0.01

14. Date and Time of Deployment Date: 6/29/15 Time: 1005
15. Depth to Ground Water Depth to ground water at time of deployment 7.80
16. Date and Time of Retrieval Date: 9/30/15 Time: 0905
17. Depth to Ground Water Depth to ground water at time of retrieval 10.18
18. Type of Deployment Line Used Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight Stainless steel 20 oz (stainless steel recommended)
20. Type of PDBS Used
    [ ] Lab Filled (Modified Trip Blank must be taken at time of deployment)
    [X] Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled
22. Position of PDBS Weight
    [X] Attached to bottom of PDBS and suspended in well
    [ ] Attached to bottom of deployment line and suspended in well
    [ ] Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
22.31			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    [ ] **No**, this well is being profiled during this sampling round
    [X] **Yes**, this well was profiled already. Date when well was profiled: 8/29/13
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    [ ] **No**, flow testing has not been conducted in this well
    [ ] **Yes**, flow testing of this well was conducted. Date of testing:
    Type of flow meter used:
    Measurements taken every feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 68°F Wind W 5-10 mph [X] Sunny [ ] Overcast [ ] Raining [ ] Snowing
27. Weather Conditions During Retrieval Temp. 70°F Wind E 5-10 mph [ ] Sunny [ ] Overcast [X] Raining [ ] Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Alex DiTonno	Parsons
Chris Watson	"

APPENDIX D

DATA VALIDATION SUMMARY REPORT

DATA VALIDATION SUMMARY REPORT

for samples collected from

FORT MONMOUTH

OCEANPORT, NEW JERSEY

Data Validation by: Sandra de las Fuentes

Date: November 23, 2015

Parsons - Austin

INTRODUCTION

The following data validation summary report covers water samples and the associated field quality control (QC) samples collected from Fort Monmouth in Oceanport, New Jersey on September 30, 2015 as part of the 3rd GW Quarterly event for 2015. Samples were logged in under the following Sample Delivery Group (SDG):

R1508244

The samples in this SDG were analyzed for volatile organic compounds (VOCs) plus tentatively identified compounds (TICs). The field QC samples collected included a trip blank (TB) sample, a field duplicate (FD) sample and a matrix spike/matrix spike duplicate (MS/MSD) pair. The following table details the samples included in this SDG and the associated parameters.

All samples were collected by Parsons and shipped to ALS Environmental in Rochester, New York. There was one cooler shipped and was received by the laboratory at a temperature of 2.3°C, which was within the 2-6°C range recommended by the project-specific UFP-QAPP.

The laboratory is DOD ELAP and NELAP certified. All samples were prepared and analyzed following the procedures outlined in the Department of Defense (DoD) Quality Systems Manual (QSM) version 4.2, and the procedures outlined in the Standard Subcontract and the project-specific Uniform Federal Policy for Quality Assurance Project Plan (UFP-QAPP).

SAMPLE IDs AND REQUESTED PARAMETERS

Sample ID	SDG	Matrix	VOCs, plus TICS	Comments
FTMM-53-GW-699RW03-8.2	R1508244	W	X	
FTMM-68-GW-565MW01-11.99	R1508244	W	X	
FTMM-68-GW-565MW01D-22.31	R1508244	W	X	
FTMM-53-GW-699MW01-7.5	R1508244	W	X	
FTMM-53-GW-699MW09-7.75	R1508244	W	X	
FTMM-53-GW-699MW16-7.5	R1508244	W	X	
FTMM-53-GW-699MW06-10.2	R1508244	W	X	MS/MSD
FTMM-53-GW-699MW04-8.0	R1508244	W	X	
FTMM-53-GW-699RW11-8.3	R1508244	W	X	
FTMM-53-GW-699MW106-10.2	R1508244	W	X	FD of FTMM-53-699MW06-10.2
FTMM-22-GW-CW1MW29-10.85	R1508244	W	X	
FTMM-22-GW-CW1MW281-33.71	R1508244	W	X	ID error on COC, should be depth of 33.74
FTMM-22-GW-CW1MW28-11.21	R1508244	W	X	
FTMM-22-GW-CW1MW27-12.63	R1508244	W	X	
FTMM-22-GW-CW1MW31-16.40	R1508244	W	X	
FTMM-22-GW-CW1MW37-11.78	R1508244	W	X	
FTMM-TB-20150930	R1508244	W	X	Trip Blank
FTMM-53-GW-699RW05-10	R1508244	W	X	

W = Water

It should be noted that an equipment blank and DI water blank were analyzed as part of this 3rd GW Quarterly Event for 2015 in R1505216. Results of these samples are discussed in the blank section below.

EXTRACTION AND ANALYTICAL METHODS:

PARAMETER	MATRIX	EXTRACTION METHOD	ANALYTICAL METHOD	UNITS	DRY WT. VS. WET WT
VOCs	W	5030	8260C	µg/L	NA

EVALUATION CRITERIA

The data submitted by the laboratory has been validated following the guidelines outlined in the project-specific UFP-QAPP. A "Level IV" validation was performed and the information reviewed in the data packages included sample results, field and laboratory quality control results, calibrations, case narratives, raw data, cooler receipt forms; and chain-of-custody (COC) forms. The analyses and findings presented in this report are based on the reviewed information, and whether guidelines in the UFP-QAPP were met.

The precision criterion for the relative percent difference (RPD) of the field duplicate samples is RPD ≤ 40 for water, as per the project-specific UFP-QAPP.

VOLATILE ORGANIC COMPOUNDS

General

The VOC portion of this SDG consisted of twenty (20) water samples, including one (1) field duplicate, (1) trip blank, one (1) MS and one (1) MSD sample. The samples were collected on September 30, 2015 and were analyzed for the full list of VOCs plus TICs as specified in the project-specific UFP-QAPP.

The VOCs analyses were performed according to USEPA SW846 Method 8260C. All samples in this SDG were analyzed following the procedures outlined in the project-specific UFP-QAPP. All samples were prepared and analyzed within the holding time required by the method.

The following samples in this SDG reported TICs:

FTMM-53-GW-699RW03-8.2
FTMM-68-GW-565MW01-11.99
FTMM-53-GW-699MW01-7.5
FTMM-53-GW-699MW16-7.5
FTMM-53-GW-699MW06-10.2
FTMM-53-GW-699MW04-8.0
FTMM-53-GW-699RW11-8.3
FTMM-53-GW-699MW106-10.2
FTMM-22-GW-CW1MW281-33.71
FTMM-53-GW-699RW05-10

The samples for VOCs were analyzed in three batches (#466298, #465971 and #466502) under a single ICAL. All analyses were performed undiluted, except as follows:

FTMM-68-GW-565MW01-11.99 all at 2.5x, except 10x for tetrachloroethene, trichloroethene and cis-1,2-dichloroethene;
FTMM-68-GW-565MW01D-22.31 all at 20x, except 50x for tetrachloroethene;
FTMM-22-GW-CW1MW281-33.71 all at 2.5x;
FTMM-53-GW-699RW05-10 at 2.5x for ethylbenzene and o-xylene only.

Accuracy

Accuracy was evaluated using the percent recovery obtained from LCSs, LCSDs, MS and MSD pair, and the surrogate spikes. Sample FTMM-53-699MW06-10.2 was selected on the COC for MS/MSD purposes.

All LCSs, LCSDs and surrogate recoveries were within acceptance criteria, except as follows:

LCS ID	Analyte	LCS %R	LCSD %R	Criteria
LCS/LCSD Batch #465971	Chloromethane	163	169	40-125
LCS Batch #466298	Chloromethane	152	NA	
LCS Batch #466502	Chloromethane	145	NA	

Since all recoveries for chloromethane were high and there were no chloromethane detections in the associated samples, no corrective action was deemed necessary.

All MS/MSD RPDs were within acceptance criteria, except as follows:

Analyte	MS %R	MSD %R	Criteria
Chloromethane	163	169	40-125
Vinyl chloride	(144)	149	50-145

( ) = indicated criteria was met

No action was required since the analyte recoveries were high and there were no detections in the sample spiked.

Precision

Precision was evaluated using the RPD obtained from the LCS/LCSD and MS/MSD concentrations. Precision was further evaluated by comparing the field duplicate analyte results. Sample FTMM-53-699MW106-10.2 was collected as the field duplicate of FTMM-53-699MW06-10.2.

All LCS/LCSD and MS/MSD RPDs were within acceptance criteria.

All target VOCs detect above the Limit of Quantitation (LOQ) in both the parent and field duplicate samples met criteria as follows:

Parent: FTMM-3-GW-M3MW02-21

Analyte	Parent (µg/kg)	FD (µg/kg)	RPD	Criteria
1,2,4-Trimethylbenzene	32	29	9.8%	RPD ≤ 40%
Ethylbenzene	37	31	18%	
Naphthalene	5.3	5.4	1.9%	
m,p-Xylene	46	42	9.1%	

Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Comparing the COC procedures to those described in the Work Plan;
- Comparing actual analytical procedures to those described in the Work Plan;
- Evaluating holding times; and

- Examining the laboratory blank for cross contamination of samples during sample analysis.

The samples in this SDG were analyzed following the COC and the analytical procedures described in the QAPP. All samples were prepared and analyzed within the holding time required by the method.

- All initial calibration criteria were met.
- All SSV criteria were met.
- GC/MS tuning criteria for BFB were within QC criteria for all batches.
- All CCV criteria were met, with the following exceptions:

Inst #, CCV Date	Analyte	%R	Criteria
R-MS-10, 10/8/15 10:45	Tert-butyl-Alcohol Chloromethane	69.1 129.3	80-120%

Inst #, CCV Date	Analyte	%R	Criteria
R-MS-10, 10/9/15 11:52	Tert-butyl-Alcohol Bromoform Chloromethane	69.6 79.6 124.8	80-120%

Inst #, CCV Date	Analyte	%R	Criteria
R-MS-10, 10/12/15 11:52	Bromoform Chloromethane Vinyl Chloride	121.5 128.3 122.7	80-120%

The analytes that failed high in the CCVs did not require qualifying since there were no detections of these analytes in the associated samples. The samples listed below required "J" flagging due to the low CCV recovery. All samples were qualified as "J/UJ" depending on whether there was a detection ("J") or no detection ("UJ").

FTMM-53-GW-699RW03-8.2: Tert-butyl Alcohol
FTMM-68-GW-565MW01-11.99: Tert-butyl Alcohol
FTMM-68-GW-565MW01D-22.31: Tert-butyl Alcohol
FTMM-53-GW-699MW01-7.5: Tert butyl-Alcohol and Bromoform
FTMM-53-GW-699MW09-7.75: Tert butyl-Alcohol
FTMM-53-GW-699MW16-7.5 : Tert butyl-Alcohol
FTMM-53-GW-699MW06-10.2: Tert butyl-Alcohol and Bromoform
FTMM-53-GW-699MW04-8.0: Tert butyl-Alcohol and Bromoform
FTMM-53-GW-699RW11-8.3: Tert butyl-Alcohol and Bromoform
FTMM-53-GW-699MW106-10.2: Tert butyl-Alcohol and Bromoform
FTMM-22-GW-CW1MW29-10.85: Tert butyl-Alcohol and Bromoform
FTMM-22-GW-CW1MW281-33.71: Tert butyl-Alcohol and Bromoform

FTMM-22-GW-CW1MW27-12.63: Tert-butyl Alcohol and Bromoform
FTMM-22-GW-CW1MW31-16.40: Tert-butyl Alcohol and Bromoform
FTMM-22-GW-CW1MW37-11.78: Tert-butyl Alcohol and Bromoform
FTMM-53-GW-699RW05-10: Tert butyl-Alcohol and Bromoform

- All internal standard (IS) criteria were met.
- All manual integrations performed by the laboratory were reviewed and verified.
- The MDLs were compliant with the requirements of the DOD QSM Version 4.2.

Three method blanks and one trip blank were analyzed for VOCs. The method blanks for batches #465971 and #466298 had low concentrations of chloromethane at 0.24 µg/L and 0.29 µg/L. The LOQs for chloromethane is 5.0 µg/L; therefore both method blank detections were less than one-half the LOQ, as required by the project-specific UFP-QAPP. The trip blank was non-detect at the LOD for all analytes.

In addition to the analytical method blanks analyzed in this data package, an equipment blank and DI water blank were associated with this sampling event and reported in SDG R1505216.

Equipment Blank:

FTMM-EB-20150629 had detections of 1,2,4-Tricholorobenzene (0.29 µg/L), Acetone (1.9 µg/L), and Toluene (0.30 µg/L).

Source (DI) Water Blank:

FTMM-DI-20150629 had a detection of Toluene at 0.25 µg/L. Since the detection in the EB for toluene is higher than that in the Source DI water, all qualifiers are based on the EB only.

The following samples required adding a “B” flag due to the detections in the EB. If the associated samples were non-detect, or had concentrations greater than 5x that found in the EB, no qualifying was required.

FTMM-53-GW-699RW03-8.2 for acetone
FTMM-53-GW-699MW01-7.5 for acetone and toluene
FTMM-53-GW-699MW09-7.75 for acetone
FTMM-53-GW-699MW16-7.5 for acetone
FTMM-53-GW-699MW06-10.2 for acetone and toluene
FTMM-53-GW-699MW04-8.0 for acetone and toluene
FTMM-53-GW-699RW11-8.3 for toluene
FTMM-53-GW-699MW106-10.2 for toluene
FTMM-22-GW-CW1MW29-10.85 for acetone
FTMM-22-GW-CW1MW28-11.21 for acetone
FTMM-22-GW-CW1MW27-12.63 for acetone
FTMM-22-GW-CW1MW31-16.40 for acetone

FTMM-22-GW-CW1MW37-11.78 for acetone
FTMM-53-GW-699RW05-10 for acetone

Completeness

Completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data.

All VOC results for the samples in this SDG were considered usable. The completeness for the VOC portion of this SDG is 100%, which meets the minimum acceptance criteria of 95%.

COMPARABILITY

All data was generated using contract-specific standard methods and reported with known data quality, type of analysis, units, etc.

DATA USABILITY

The purpose of this data validation report is to ensure the integrity and reliability of analytical laboratory data. The data quality is evaluated based on precision, accuracy, representativeness, comparability, and completeness (PARCC) characteristics of the data. The validated data indicated that the laboratory correctly performed the analyses. Based on the data quality assessment, none of the data were qualified as rejected. All data in this SDG are considered usable for the purposes of this project. All sample LODs and LOQs met the requirements listed in the project QAPP. All Method Quality Objectives have been met.

APPENDIX E

LABORATORY ANALYTICAL RESULTS

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

July 21, 2015

Analytical Report for Service Request No: R1505216

Sandra de las Fuentes
Parsons, Inc.
8000 Centre Park Drive, Suite 200
Austin, TX 78754

Laboratory Results for: FTMM Q3 GW Sampling/748810-03000

Dear Sandra:

Enclosed are the results of the sample(s) submitted to our laboratory on June 30, 2015. For your reference, these analyses have been assigned our service request number **R1505216**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ALS Environmental

Client:	Parsons, Inc.
Service Request No.:	R1505216
Project:	FTMM 2015 Q3 GW Sampling
Date Received:	6/30/15
Sample Matrix:	Water
Project/Case No.:	748810-003000

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS). A review to the EDD to the signed report has been performed and the EDD is correct and complete.

Sample Receipt

Water samples were received for analysis at ALS Environmental on 6/30/15. The samples were received in good condition except as noted on the Cooler Receipt and Preservation Check Form immediately following the Chain of Custody in the report. The samples were consistent with the Chain of Custody. The Cooler temperature upon receipt was within the proper guidelines. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Comments

The DOD QSM 4.2 requires detections reported to the Method Detection Limit (MDL). Values greater than the MDL and less than the Limit of Quantitation (LOQ) were flagged as estimates (J). Values less than the MDL and Limit of Detection (LOD) were reported as non-detect (ND). The LOD for each analyte is verified quarterly by the laboratory using procedures defined in DOD Quality Systems Manual Version 4.2.

Volatile Organics

Three water samples were analyzed for TCL Volatile organics by SW-846 method 5030/8260C. Any value detected between the LOQ and MDL was flagged with a "J" as estimated.

Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Bromomethane on the 07/08/15 CCV. No data was affected.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable.

Site QC was not requested on these samples.

The Method Blanks associated with these samples were free of contamination except for 1,2,4-Tricchlorobenzene, 1,4-Dichlorobenzene, Bromomethane, Hexachlorobutadiene and Naphthalene. No data was affected.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 748810-03000	Batch Complete: Yes	Date Revised:
Submission: R1505216	Diskette Requested: No	Date Due: 7/21/15
Client: Parsons Engineering Science	Date: 7/1/15	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: FTMM Q3 GW Sampling	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1505216-001	FTMM-EB-20150629	Water	8260C	6/29/15	6/30/15			
R1505216-002	FTMM-DI-20150629	Water	8260C	6/29/15	6/30/15			
R1505216-003	FTMM-TB-20150629	Water	8260C	6/29/15	6/30/15			

Folder Comments: DoD reporting

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

27323

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: FTMM Q3 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: cris.grill@parsons.com
Sampler's Signature: Alex DiIanno	Sampler's Printed Name: C. Watson / A. DiIanno

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP + TICs	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)
FTMM-EB-20150629	-001	6/29/15	1400	EB	3	X						
FTMM-DI-20150629	-002	6/29/15	1500	DI	3	X						
FTMM-TB-20150629	-003	6/29/15	—	TB	3	X						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: New Jersey

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION
PO #:
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Alex DiIanno					
Signature: Alex DiIanno	Signature: Lucy Tolton	Signature:	Signature:	Signature:	
Printed Name: Alex DiIanno	Printed Name: Lucy Tolton	Printed Name:	Printed Name:	Printed Name:	
Firm: Parsons	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 6/29/15	Date/Time: 6/30/15 1050	Date/Time:	Date/Time:	Date/Time:	Date/Time:

R1505216 5
Parsons, Inc.
FTMM Baseline

Distribution: White - Lab Copy; Yellow - Return to Originator

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R1505216 5
Parsons, Inc.
FTMM Baseline

Cooler Receipt and Preservation Check Form

Project/Client Parsons Folder Number R15-5216

Cooler received on 6/30/15 by: @

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 6/30/15 Time: 1100 ID: IR#3 (IR#5) From: (Temp Blank) (Sample Bottle)

Observed Temp (°C)	8.7	4.8					
Correction Factor (°C)	–	-1.6					
Corrected Temp (°C)	8.7°	3.2°					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 6/30/15 at 1105
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: MW 7/1/15

Cooler Breakdown: Date: _____ Time: _____ by: _____

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	414670	5/16				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 44 5-120-002

Other Comments:

Headspace: EB (2 vials)
699 RW05 (1 vial)
699 MW06 (2 vials)
699 MW09 (1 vial)

PC Secondary Review: MW 7/1/15 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1400
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:43
Sample Name:	FTMM-EB-20150629	**Units:**	µg/L
Lab Code:	R1505216-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**0.29**	**J**	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.9**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1400
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:43
Sample Name:	FTMM-EB-20150629	**Units:**	µg/L
Lab Code:	R1505216-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.30**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1400
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:43
Sample Name:	FTMM-EB-20150629	**Units:**	Percent
Lab Code:	R1505216-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	7/8/15 13:43	
Dibromofluoromethane	106	85-115	7/8/15 13:43	
Toluene-d8	107	85-120	7/8/15 13:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 1343

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-EB-20150629	**Units:**	µg/L
Lab Code:	R1505216-001	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1500
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 14:13
Sample Name:	FTMM-DI-20150629	**Units:**	µg/L
Lab Code:	R1505216-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1500
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 14:13
Sample Name:	FTMM-DI-20150629	**Units:**	µg/L
Lab Code:	R1505216-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.25**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1500
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 14:13
Sample Name:	FTMM-DI-20150629	**Units:**	Percent
Lab Code:	R1505216-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	75-120	7/8/15 14:13	
Dibromofluoromethane	106	85-115	7/8/15 14:13	
Toluene-d8	111	85-120	7/8/15 14:13	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 1413

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-DI-20150629	**Units:**	µg/L
Lab Code:	R1505216-002	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:12
Sample Name:	FTMM-TB-20150629	**Units:**	µg/L
Lab Code:	R1505216-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**0.32**	J	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**0.21**	J	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:12
Sample Name:	FTMM-TB-20150629	**Units:**	µg/L
Lab Code:	R1505216-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:12
Sample Name:	FTMM-TB-20150629	**Units:**	Percent
Lab Code:	R1505216-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	7/8/15 13:12	
Dibromofluoromethane	105	85-115	7/8/15 13:12	
Toluene-d8	106	85-120	7/8/15 13:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 1312

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-TB-20150629	**Units:**	µg/L
Lab Code:	R1505216-003	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 12:42
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1507515-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**0.44**	J	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**0.25**	J	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	**0.30**	J	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 12:42
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1507515-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**0.76**	J	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.21**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 12:42
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1507515-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	7/8/15 12:42	
Dibromofluoromethane	109	85-115	7/8/15 12:42	
Toluene-d8	109	85-120	7/8/15 12:42	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 1242

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1507515-04	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1505216
Date Analyzed: 7/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 452149

Lab Control Sample
RQ1507515-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	19.7	20.0	98	80 - 130
1,1,1-Trichloroethane (TCA)	18.1	20.0	90	65 - 130
1,1,2,2-Tetrachloroethane	20.6	20.0	103	65 - 130
1,1,2-Trichloroethane	20.5	20.0	103	75 - 125
1,1-Dichloroethane (1,1-DCA)	19.4	20.0	97	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	94	70 - 130
1,1-Dichloropropene	18.6	20.0	93	75 - 130
1,2,3-Trichlorobenzene	23.5	20.0	117	75 - 125
1,2,3-Trichloropropane	19.9	20.0	99	75 - 125
1,2,4-Trichlorobenzene	21.4	20.0	107	65 - 135
1,2,4-Trimethylbenzene	20.1	20.0	100	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	18.7	20.0	93	50 - 130
1,2-Dibromoethane	20.3	20.0	102	80 - 120
1,2-Dichlorobenzene	20.3	20.0	102	70 - 120
1,2-Dichloroethane	18.7	20.0	93	70 - 130
1,2-Dichloropropane	20.5	20.0	102	75 - 125
1,3,5-Trimethylbenzene	20.1	20.0	101	75 - 130
1,3-Dichlorobenzene	20.2	20.0	101	75 - 125
1,3-Dichloropropane	20.7	20.0	104	75 - 125
1,4-Dichlorobenzene	20.1	20.0	100	75 - 125
2,2-Dichloropropane	18.7	20.0	94	70 - 135
2-Butanone (MEK)	21.3	20.0	106	30 - 150
2-Chlorotoluene	21.1	20.0	106	75 - 125
2-Hexanone	22.1	20.0	110	55 - 130
tert-Butyl Alcohol	406	400	101	50 - 150
4-Chlorotoluene	20.3	20.0	101	75 - 130
p-Isopropyltoluene	21.1	20.0	106	75 - 130
4-Methyl-2-pentanone	20.6	20.0	103	60 - 135
Acetone	20.0	20.0	100	40 - 140
Benzene	20.7	20.0	103	80 - 120
Bromobenzene	20.2	20.0	101	75 - 125
Bromochloromethane	19.7	20.0	99	65 - 130
Bromodichloromethane	19.3	20.0	97	75 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1505216
Date Analyzed: 7/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 452149

Lab Control Sample
RQ1507515-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	17.6	20.0	88	70 - 130
Bromomethane	15.1	20.0	76	30 - 145
Carbon Tetrachloride	18.2	20.0	91	65 - 140
Chlorobenzene	19.7	20.0	99	80 - 120
Chloroethane	18.6	20.0	93	60 - 135
Chloroform	19.7	20.0	99	65 - 135
Chloromethane	18.9	20.0	95	40 - 125
Dibromochloromethane	18.1	20.0	91	60 - 135
Dichlorodifluoromethane (CFC 12)	21.0	20.0	105	30 - 155
Methylene Chloride	19.5	20.0	98	55 - 140
Ethylbenzene	18.8	20.0	94	75 - 125
Hexachlorobutadiene	22.2	20.0	111	50 - 140
Isopropylbenzene (Cumene)	20.7	20.0	103	75 - 125
Methyl tert-Butyl Ether	19.1	20.0	95	65 - 125
Naphthalene	21.1	20.0	106	55 - 140
Styrene	19.0	20.0	95	65 - 135
Tetrachloroethene (PCE)	19.6	20.0	98	45 - 150
Toluene	20.5	20.0	102	75 - 120
Trichloroethene (TCE)	20.5	20.0	102	70 - 125
Trichlorofluoromethane (CFC 11)	18.6	20.0	93	60 - 145
Vinyl Chloride	19.8	20.0	99	50 - 145
cis-1,2-Dichloroethene	20.1	20.0	100	70 - 125
cis-1,3-Dichloropropene	18.6	20.0	93	70 - 130
m,p-Xylenes	39.7	40.0	99	75 - 130
n-Butylbenzene	20.4	20.0	102	70 - 135
n-Propylbenzene	21.2	20.0	106	70 - 130
o-Xylene	19.9	20.0	99	80 - 120
sec-Butylbenzene	20.8	20.0	104	70 - 125
tert-Butylbenzene	20.3	20.0	101	70 - 130
trans-1,2-Dichloroethene	19.7	20.0	99	60 - 140
trans-1,3-Dichloropropene	19.2	20.0	96	55 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

July 21, 2015

Analytical Report for Service Request No: R1505216

Sandra de las Fuentes
Parsons, Inc.
8000 Centre Park Drive, Suite 200
Austin, TX 78754

Laboratory Results for: FTMM Q3 GW Sampling/748810-03000

Dear Sandra:

Enclosed are the results of the sample(s) submitted to our laboratory on June 30, 2015. For your reference, these analyses have been assigned our service request number **R1505216**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

Parsons, Inc.
R1505216

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ALS Environmental

SDG NARRATIVE

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client:	Parsons, Inc.
Service Request No.:	R1505216
Project:	FTMM 2015 Q3 GW Sampling
Date Received:	6/30/15
Sample Matrix:	Water
Project/Case No.:	748810-003000

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS). A review to the EDD to the signed report has been performed and the EDD is correct and complete.

Sample Receipt

Water samples were received for analysis at ALS Environmental on 6/30/15. The samples were received in good condition except as noted on the Cooler Receipt and Preservation Check Form immediately following the Chain of Custody in the report. The samples were consistent with the Chain of Custody. The Cooler temperature upon receipt was within the proper guidelines. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Comments

The DOD QSM 4.2 requires detections reported to the Method Detection Limit (MDL). Values greater than the MDL and less than the Limit of Quantitation (LOQ) were flagged as estimates (J). Values less than the MDL and Limit of Detection (LOD) were reported as non-detect (ND). The LOD for each analyte is verified quarterly by the laboratory using procedures defined in DOD Quality Systems Manual Version 4.2.

Volatile Organics

Three water samples were analyzed for TCL Volatile organics by SW-846 method 5030/8260C. Any value detected between the LOQ and MDL was flagged with a "J" as estimated.

Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound.

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Bromomethane on the 07/08/15 CCV. No data was affected.

All surrogate standard recoveries were within acceptance limits for all samples.

The Blank Spike (LCS) recoveries were all acceptable.

Site QC was not requested on these samples.

The Method Blanks associated with these samples were free of contamination except for 1,2,4-Tricchlorobenzene, 1,4-Dichlorobenzene, Bromomethane, Hexachlorobutadiene and Naphthalene. No data was affected.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 748810-03000	Batch Complete: Yes		Date Revised:
Submission: R1505216	Diskette Requested: No		Date Due: 7/21/15
Client: Parsons Engineering Science	Date: 7/1/15		Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:		Shipping No.:
Project: FTMM Q3 GW Sampling	Chain of Custody: Present/Absent:		SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1505216-001	FTMM-EB-20150629	Water	8260C	6/29/15	6/30/15			
R1505216-002	FTMM-DI-20150629	Water	8260C	6/29/15	6/30/15			
R1505216-003	FTMM-TB-20150629	Water	8260C	6/29/15	6/30/15			

5 0 0 0 0

Folder Comments: DoD reporting

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Environmental

CHAINS OF CUSTODY

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

27323

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: FTMM Q3 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Flour Boston, MA 02110	
Phone #: (617) 449-1583	Email: cris.grill@parsons.com
Sampler's Signature: Alex DiIanno	Sampler's Printed Name: C. Watson / A. DiIanno

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP + TICs	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
FTMM-EB-20150629	-001	6/29/15	1400	EB	3	X							
FTMM-DI-20150629	-002	6/29/15	1500	DI	3	X							
FTMM-TB-20150629	-003	6/29/15	—	TB	3	X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: New Jersey

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO #:
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIanno	Signature: Lucy Tolton	Signature	Signature	Signature	
Printed Name: Alex DiIanno	Printed Name: Lucy Tolton	Printed Name	Printed Name	Printed Name	
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	
Date/Time: 6/29/15;	Date/Time: 6/30/15 1080	Date/Time	Date/Time	Date/Time	Date/Time

R1505216 5
Parsons, Inc.
FTMM Baseline

Distribution: White - Lab Copy; Yellow - Return to Originator

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R1505216 5
Parsons, Inc.
FTMM Baseline

Cooler Receipt and Preservation Check Form

Project/Client Parsons Folder Number R15-5216

Cooler received on 6/30/15 by: @

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: **(Wet Ice)** **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 6/30/15 Time: 1100 ID: IR#3 (IR#5) From: (Temp Blank) (Sample Bottle)

Observed Temp (°C)	2.7	4.8					
Correction Factor (°C)	—	-1.6					
Corrected Temp (°C)	2.7°	3.2°					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 6/30/15 at 1105
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: HMJ 7/1/15

Cooler Breakdown: Date: _____ Time: _____ by: _____

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114070	5/16				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 44 5-120-002

Other Comments:

Headspace: EB (2 vials)
699 RW05 (1 vial)
699 MW06 (2 vials)
699 MW09 (1 vial)

PC Secondary Review: HMJ 7/1/15 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1505216
Project: FTMM Q3 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1505216-001.01					
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
R1505216-001.02					
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
R1505216-001.03					
	8260C				
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
		7/8/15	1219	In Lab / KRUEST	
		7/8/15	1231	R-001-S12 / FNAEGLER	
R1505216-002.01					
	8260C				
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
		7/8/15	1219	In Lab / KRUEST	
		7/8/15	1231	R-001-S12 / FNAEGLER	
R1505216-002.02					
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
R1505216-002.03					
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
R1505216-003.01					
	8260C				
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
		7/8/15	1219	In Lab / KRUEST	
		7/8/15	1231	R-001-S12 / FNAEGLER	
R1505216-003.02					
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	
R1505216-003.03					
		6/30/15	1246	SMO / ROCHESTER SMO	
		6/30/15	1247	R-001 / ROCHESTER SMO	

ALS Environmental

VOLATILE ORGANICS
QC SUMMARY

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1505216
Date Analyzed: 7/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 452149

Lab Control Sample
RQ1507515-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	19.7	20.0	98	80 - 130
1,1,1-Trichloroethane (TCA)	18.1	20.0	90	65 - 130
1,1,2,2-Tetrachloroethane	20.6	20.0	103	65 - 130
1,1,2-Trichloroethane	20.5	20.0	103	75 - 125
1,1-Dichloroethane (1,1-DCA)	19.4	20.0	97	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	94	70 - 130
1,1-Dichloropropene	18.6	20.0	93	75 - 130
1,2,3-Trichlorobenzene	23.5	20.0	117	75 - 125
1,2,3-Trichloropropane	19.9	20.0	99	75 - 125
1,2,4-Trichlorobenzene	21.4	20.0	107	65 - 135
1,2,4-Trimethylbenzene	20.1	20.0	100	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	18.7	20.0	93	50 - 130
1,2-Dibromoethane	20.3	20.0	102	80 - 120
1,2-Dichlorobenzene	20.3	20.0	102	70 - 120
1,2-Dichloroethane	18.7	20.0	93	70 - 130
1,2-Dichloropropane	20.5	20.0	102	75 - 125
1,3,5-Trimethylbenzene	20.1	20.0	101	75 - 130
1,3-Dichlorobenzene	20.2	20.0	101	75 - 125
1,3-Dichloropropane	20.7	20.0	104	75 - 125
1,4-Dichlorobenzene	20.1	20.0	100	75 - 125
2,2-Dichloropropane	18.7	20.0	94	70 - 135
2-Butanone (MEK)	21.3	20.0	106	30 - 150
2-Chlorotoluene	21.1	20.0	106	75 - 125
2-Hexanone	22.1	20.0	110	55 - 130
tert-Butyl Alcohol	406	400	101	50 - 150
4-Chlorotoluene	20.3	20.0	101	75 - 130
p-Isopropyltoluene	21.1	20.0	106	75 - 130
4-Methyl-2-pentanone	20.6	20.0	103	60 - 135
Acetone	20.0	20.0	100	40 - 140
Benzene	20.7	20.0	103	80 - 120
Bromobenzene	20.2	20.0	101	75 - 125
Bromochloromethane	19.7	20.0	99	65 - 130
Bromodichloromethane	19.3	20.0	97	75 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1505216
Date Analyzed: 7/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 452149

Lab Control Sample
RQ1507515-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	17.6	20.0	88	70 - 130
Bromomethane	15.1	20.0	76	30 - 145
Carbon Tetrachloride	18.2	20.0	91	65 - 140
Chlorobenzene	19.7	20.0	99	80 - 120
Chloroethane	18.6	20.0	93	60 - 135
Chloroform	19.7	20.0	99	65 - 135
Chloromethane	18.9	20.0	95	40 - 125
Dibromochloromethane	18.1	20.0	91	60 - 135
Dichlorodifluoromethane (CFC 12)	21.0	20.0	105	30 - 155
Methylene Chloride	19.5	20.0	98	55 - 140
Ethylbenzene	18.8	20.0	94	75 - 125
Hexachlorobutadiene	22.2	20.0	111	50 - 140
Isopropylbenzene (Cumene)	20.7	20.0	103	75 - 125
Methyl tert-Butyl Ether	19.1	20.0	95	65 - 125
Naphthalene	21.1	20.0	106	55 - 140
Styrene	19.0	20.0	95	65 - 135
Tetrachloroethene (PCE)	19.6	20.0	98	45 - 150
Toluene	20.5	20.0	102	75 - 120
Trichloroethene (TCE)	20.5	20.0	102	70 - 125
Trichlorofluoromethane (CFC 11)	18.6	20.0	93	60 - 145
Vinyl Chloride	19.8	20.0	99	50 - 145
cis-1,2-Dichloroethene	20.1	20.0	100	70 - 125
cis-1,3-Dichloropropene	18.6	20.0	93	70 - 130
m,p-Xylenes	39.7	40.0	99	75 - 130
n-Butylbenzene	20.4	20.0	102	70 - 135
n-Propylbenzene	21.2	20.0	106	70 - 130
o-Xylene	19.9	20.0	99	80 - 120
sec-Butylbenzene	20.8	20.0	104	70 - 125
tert-Butylbenzene	20.3	20.0	101	70 - 130
trans-1,2-Dichloroethene	19.7	20.0	99	60 - 140
trans-1,3-Dichloropropene	19.2	20.0	96	55 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Analyzed:**	7/8/15 12:42
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1507515-04	**File ID:**	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1507515-03	I:\ACQUDATA\MSVOA12\DATA\070815\MM4595.D\	7/8/15 11:41
FTMM-TB-20150629	R1505216-003	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	7/8/15 13:12
FTMM-EB-20150629	R1505216-001	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	7/8/15 13:43
FTMM-DI-20150629	R1505216-002	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	7/8/15 14:13

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000

Service Request: R1504923
Date Analyzed: 06/04/15 11:38

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\060415\MM3683.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.1	98344	Pass
75	95	30	60	53.0	259072	Pass
95	95	100	100	100.0	488420	Pass
96	95	5	9	6.4	31464	Pass
173	174	0	2	1.5	5092	Pass
174	95	50	120	71.3	348224	Pass
175	174	5	9	8.7	30371	Pass
176	174	95	101	95.1	331072	Pass
177	176	5	9	6.8	22661	Pass

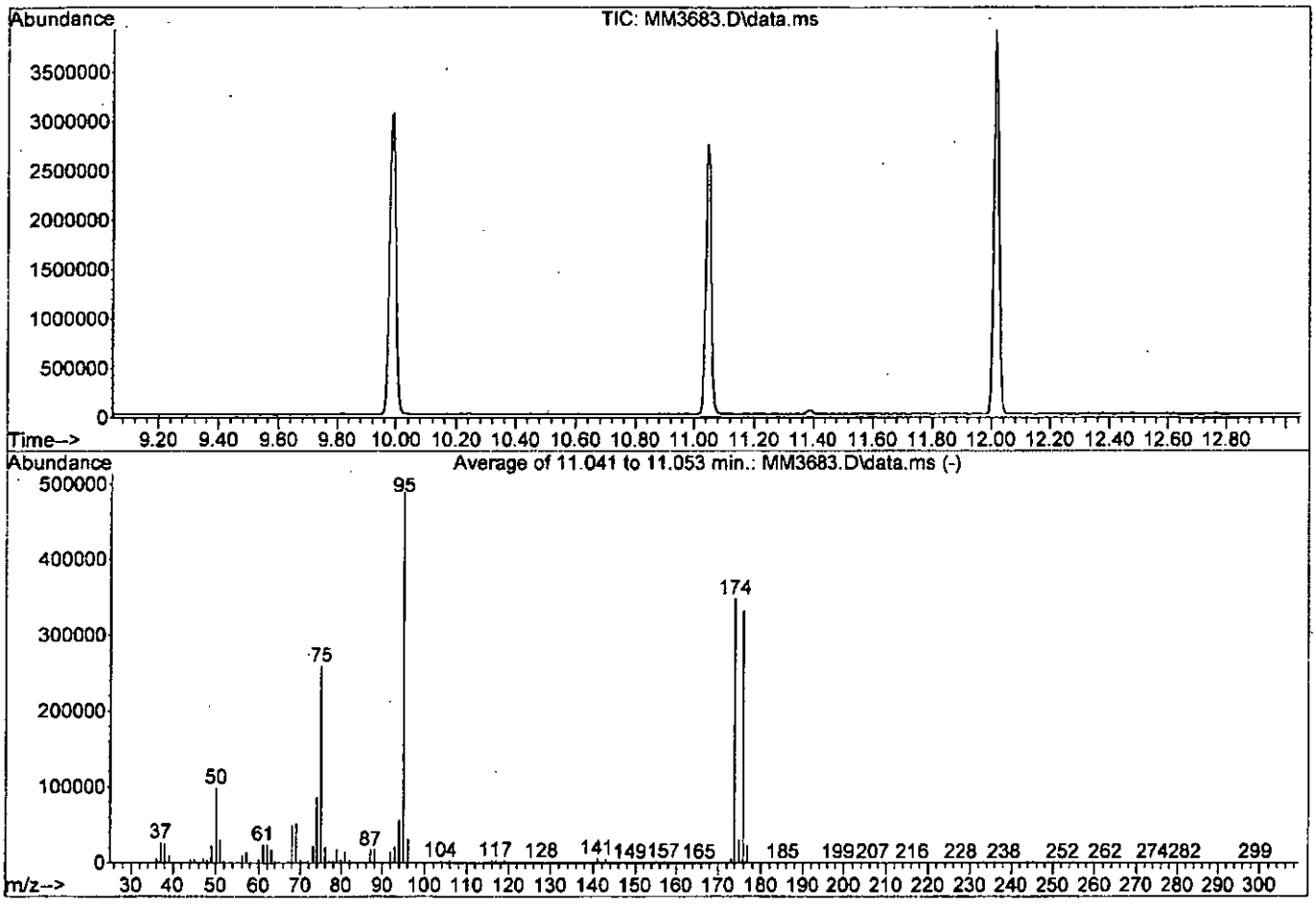
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3685.D\	06/04/15 12:40	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3686.D\	06/04/15 13:10	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3687.D\	06/04/15 13:41	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3688.D\	06/04/15 14:11	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3689.D\	06/04/15 14:42	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3690.D\	06/04/15 15:12	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3691.D\	06/04/15 15:43	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3692.D\	06/04/15 16:13	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3693.D\	06/04/15 16:43	

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3683.D
Acq On : 4 Jun 2015 11:38 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: INTP60.P

KR 6/5/15

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Fri Jun 05 10:26:54 2015



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	98344	PASS
75	95	30	60	53.0	259072	PASS
95	95	100	100	100.0	488420	PASS
96	95	5	9	6.4	31464	PASS
173	174	0.00	2	1.5	5092	PASS
174	95	50	120	71.3	348224	PASS
175	174	5	9	8.7	30371	PASS
176	174	95	101	95.1	331072	PASS
177	176	5	9	6.8	22661	PASS

00016

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000

Service Request: R1505216
Date Analyzed: 7/8/15 10:39

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\070815\MM4593.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 452149

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.58	88147	Pass
75	95	30	60	51.56	232064	Pass
95	95	100	100	100.00	450114	Pass
96	95	5	9	6.68	30064	Pass
173	174	0	2	1.67	5698	Pass
174	95	50	120	75.78	341096	Pass
175	174	5	9	8.23	28059	Pass
176	174	95	101	97.88	333874	Pass
177	176	5	9	6.31	21052	Pass

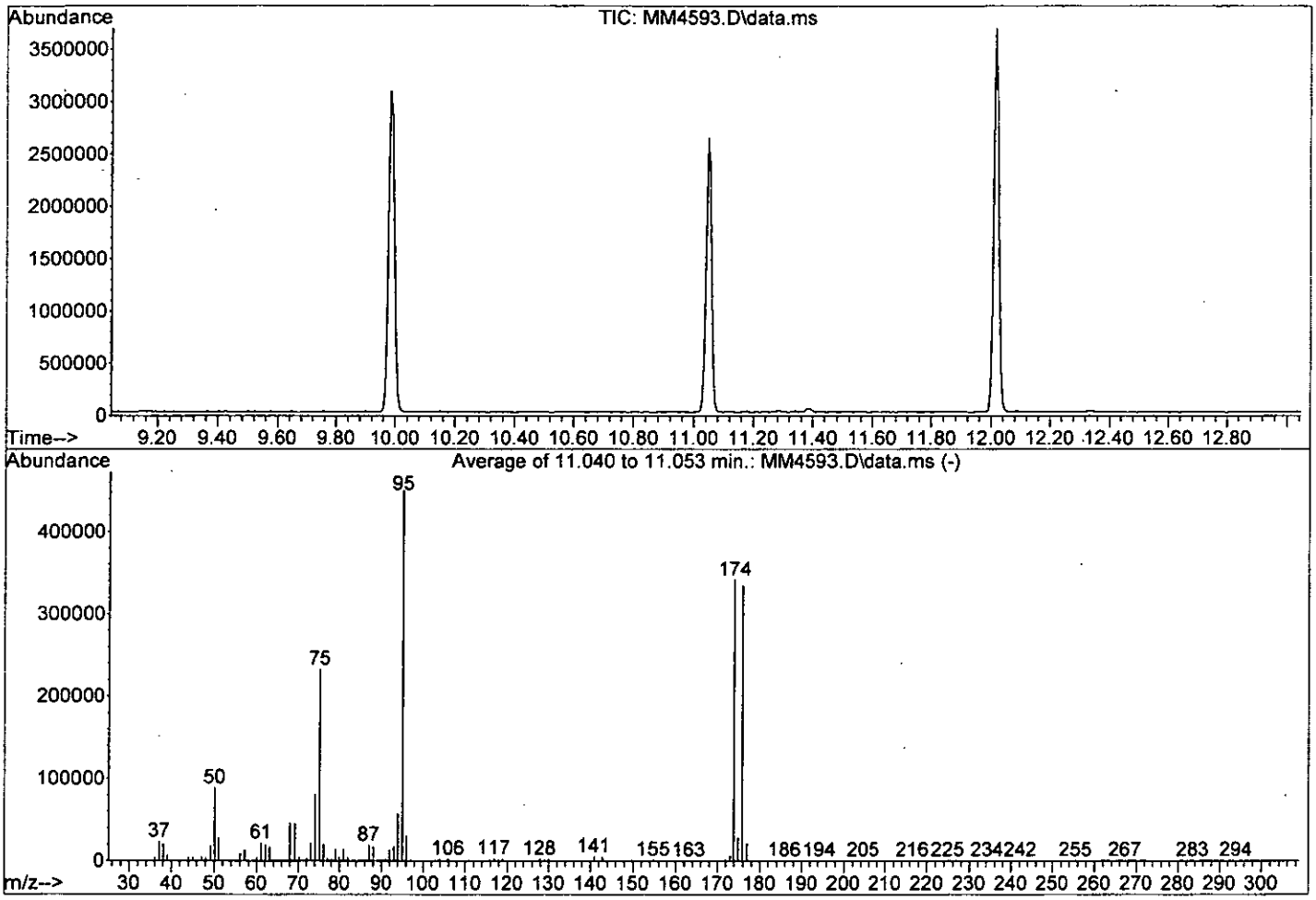
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1507515-02	I:\ACQUDATA\MSVOA12\DATA\070815\MM4594.D\	7/8/15 11:10	
Lab Control Sample	RQ1507515-03	I:\ACQUDATA\MSVOA12\DATA\070815\MM4595.D\	7/8/15 11:41	
Method Blank	RQ1507515-04	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\	7/8/15 12:42	
FTMM-TB-20150629	R1505216-003	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	7/8/15 13:12	
FTMM-EB-20150629	R1505216-001	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	7/8/15 13:43	
FTMM-DI-20150629	R1505216-002	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	7/8/15 14:13	

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4593.D
Acq On : 8 Jul 2015 10:39 am
Operator : K.Ruest
Sample : TUNE PQ1507515-01 Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: INTP60.P

KR 7/8/15

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Thu Jul 02 09:03:54 2015



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	88147	PASS
75	95	30	60	51.6	232064	PASS
95	95	100	100	100.0	450114	PASS
96	95	5	9	6.7	30064	PASS
173	174	0.00	2	1.7	5698	PASS
174	95	50	120	75.8	341096	PASS
175	174	5	9	8.2	28059	PASS
176	174	95	101	97.9	333874	PASS
177	176	5	9	6.3	21052	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000

Service Request: R1505216
Date Analyzed: 7/8/15 11:10

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA12\DATA\070815\MM4594.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1507515-02
Analysis Lot: 452149
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	802,545	12.02	1,555,393	6.77	1,470,668	9.99
	Upper Limit ==>	1,605,090	12.52	3,110,786	7.27	2,941,336	10.49
	Lower Limit ==>	401,273	11.52	777,697	6.27	735,334	9.49
	ICAL Result ==>	811,080	12.02	1,567,087	6.77	1,461,862	9.99
Associated Analyses							
Lab Control Sample	RQ1507515-03	783,888	12.02	1,552,500	6.77	1,473,842	9.99
Method Blank	RQ1507515-04	721,933	12.02	1,472,271	6.77	1,403,540	9.99
FTMM-TB-20150629	R1505216-003	684,142	12.02	1,473,470	6.77	1,396,912	9.99
FTMM-EB-20150629	R1505216-001	693,869	12.02	1,448,460	6.77	1,381,016	9.99
FTMM-DI-20150629	R1505216-002	698,393	12.02	1,436,116	6.77	1,364,028	9.99

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 GW Sampling/748810-03000

Service Request: R1505216
Date Analyzed: 7/8/15 11:10

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA12\DATA\070815\MM4594.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1507515-02
Analysis Lot: 452149
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	932,964	5.74
	Upper Limit ==>	1,865,928	6.24
	Lower Limit ==>	466,482	5.24
	ICAL Result ==>	943,892	5.74
Associated Analyses			
Lab Control Sample	RQ1507515-03	962,416	5.74
Method Blank	RQ1507515-04	894,697	5.74
FTMM-TB-20150629	R1505216-003	876,323	5.74
FTMM-EB-20150629	R1505216-001	873,046	5.74
FTMM-DI-20150629	R1505216-002	867,669	5.74

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Environmental

VOLATILE ORGANICS SAMPLE DATA

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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00020A

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1400
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:43
Sample Name:	FTMM-EB-20150629	**Units:**	µg/L
Lab Code:	R1505216-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**0.29**	J	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.9**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1400
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:43
Sample Name:	FTMM-EB-20150629	**Units:**	µg/L
Lab Code:	R1505216-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.30**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1400
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:43
Sample Name:	FTMM-EB-20150629	**Units:**	Percent
Lab Code:	R1505216-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4599.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	7/8/15 13:43	
Dibromofluoromethane	106	85-115	7/8/15 13:43	
Toluene-d8	107	85-120	7/8/15 13:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 1343

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-EB-20150629	**Units:**	µg/L
Lab Code:	R1505216-001	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 16:51:36 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	873046	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1448460	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1381016	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	693869	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	413892	52.81	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.62%				
48) surr1,1,2-dichloroetha...	6.096	65	438874	52.42	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 104.84%				
65) SURR3,Toluene-d8	8.529	98	1833429	53.56	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.12%				
70) SURR2,BFB	11.047	95	675235	51.91	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.82%				
Target Compounds							Qvalue
15) Acetone	2.475	43	2346m	1.92	ppb		
66) Toluene	8.602	91	9817	0.30	ppb		97
115) 1,2,4-Tcbenzene	13.607	180	2403	0.29	ppb	#	55
116) Hexachlorobt	13.747	225	1295	0.40	ppb	#	73
118) 1,2,3-Tclbenzene	13.985	180	1989m	0.29	ppb		

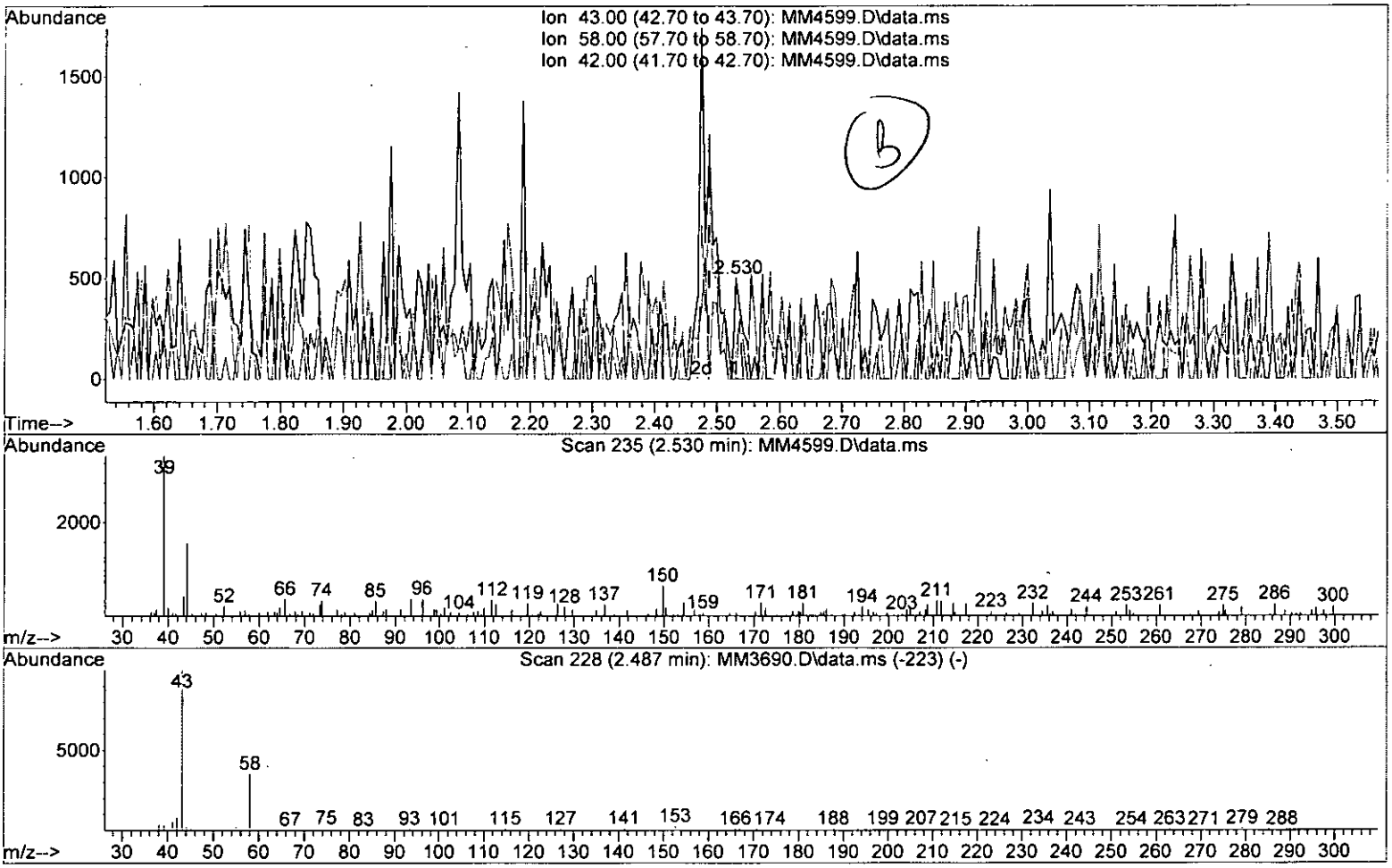
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KR 7/8/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 13:59:09 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4599.D\data.ms

(15) Acetone (P)

2.530min (+0.043) 0.41 ppb

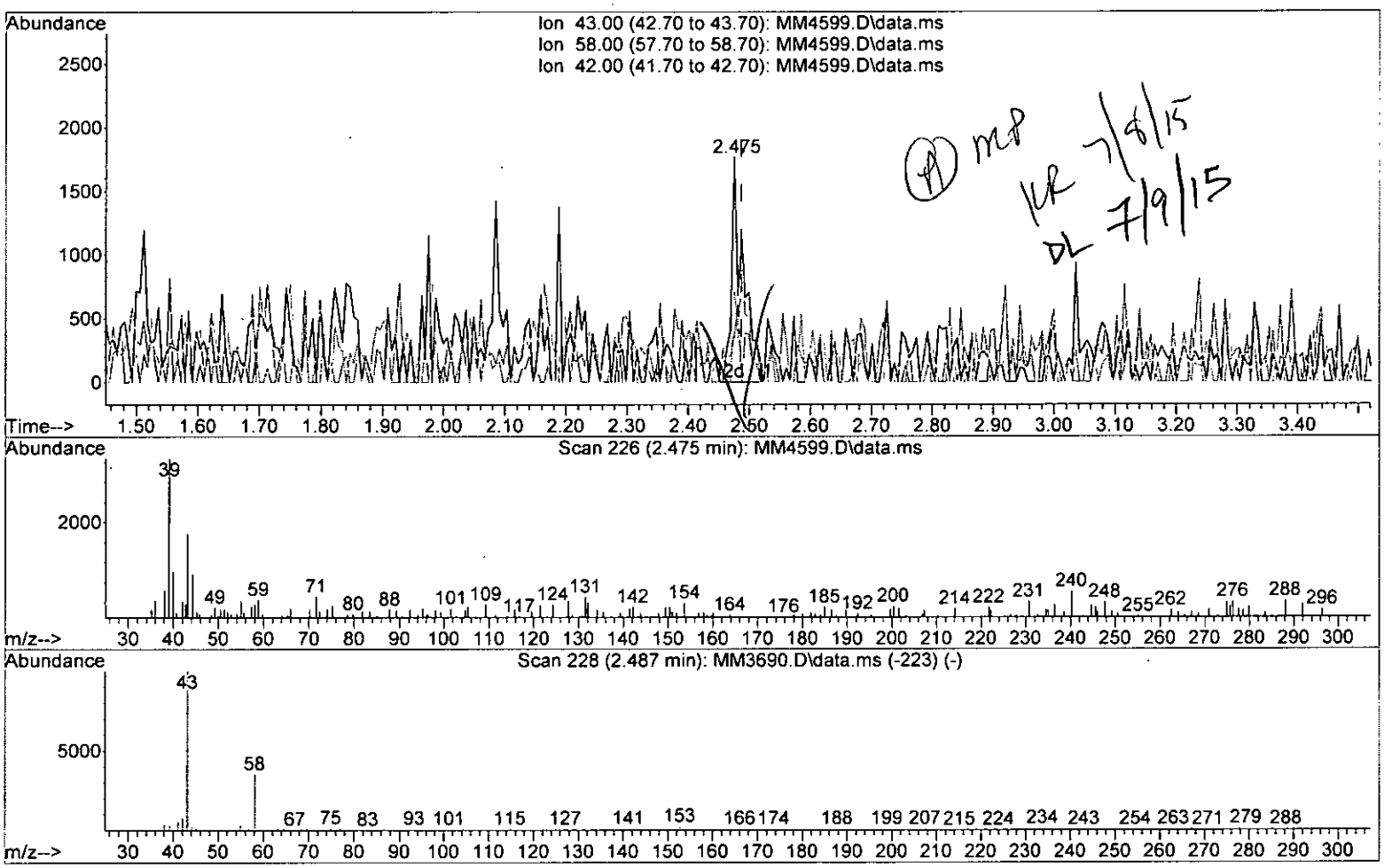
response 500

Ion	Exp%	Act%
43.00	100	100
58.00	33.90	28.40
42.00	7.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 13:59:09 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4599.D\data.ms

(15) Acetone (P)

2.475min (-0.012) 1.92 ppb m

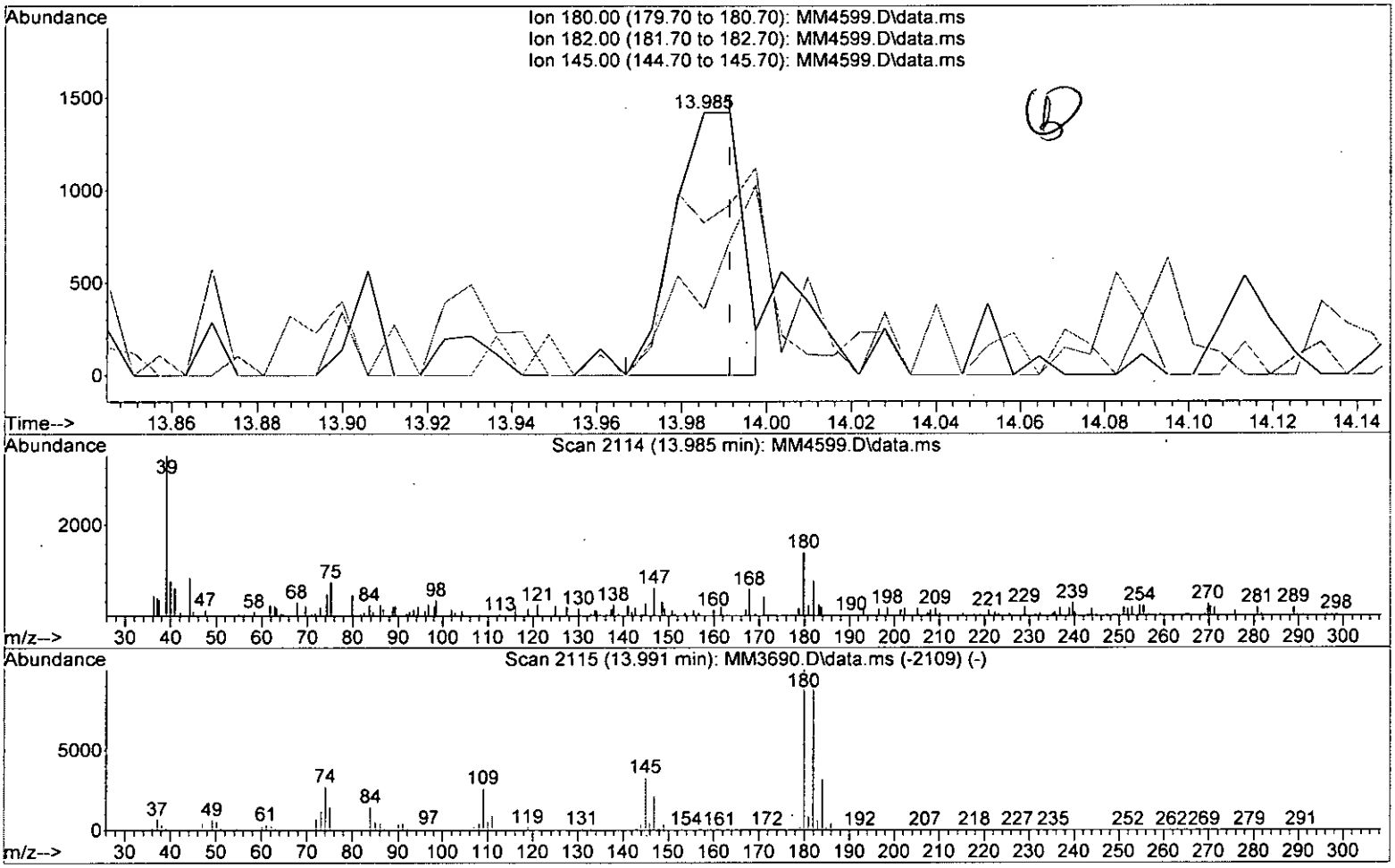
response 2346

Ion	Exp%	Act%
43.00	100	100
58.00	33.90	20.23
42.00	7.30	22.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 13:59:09 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4599.D\data.ms

(118) 1,2,3-Tclbenzene

13.985min (-0.006) 0.23 ppb

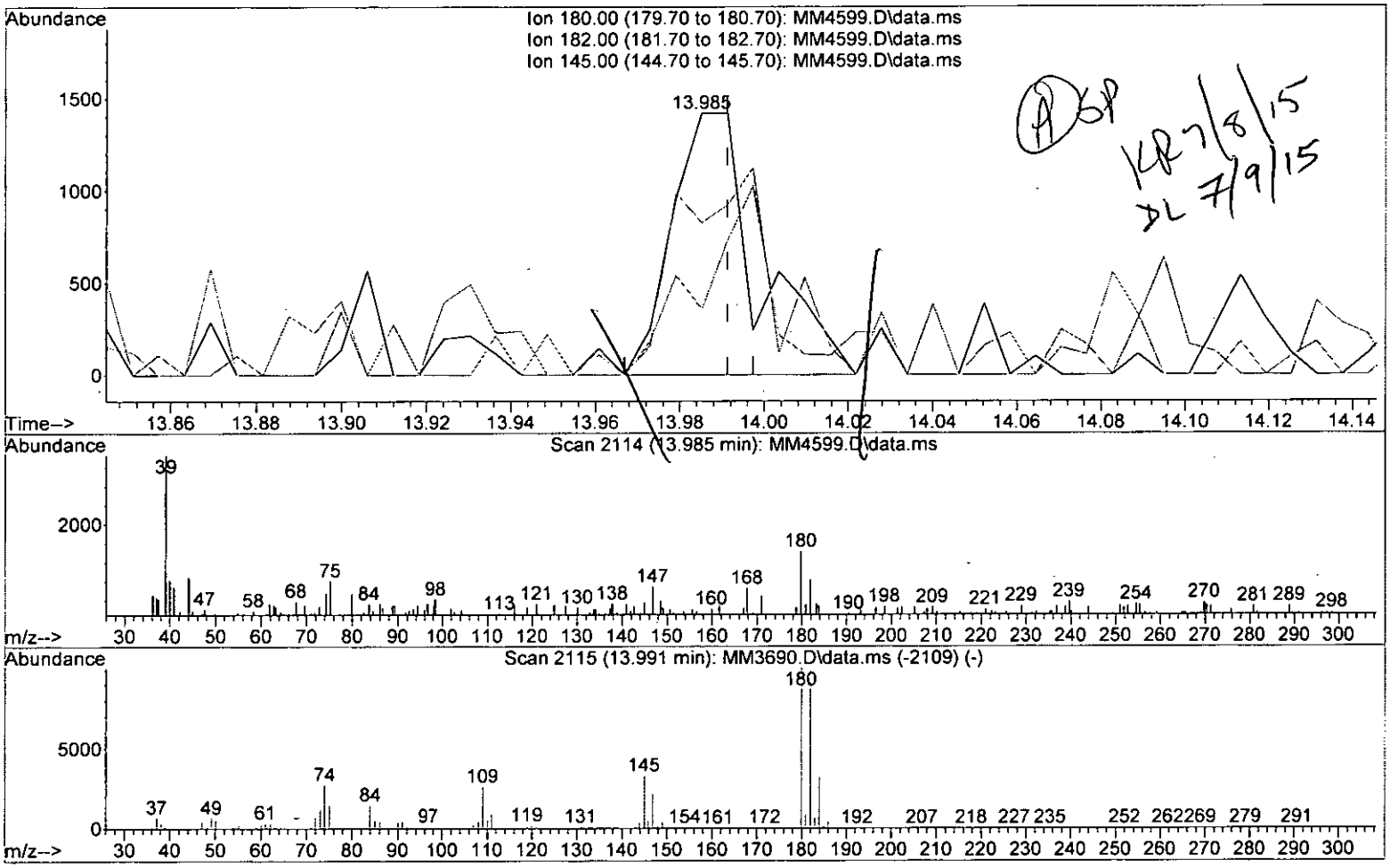
response 1567

Ion	Exp%	Act%
180.00	100	100
182.00	99.10	58.03#
145.00	33.10	24.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 13:59:09 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4599.D\data.ms

(118) 1,2,3-Tclbenzene

13.985min (-0.006) 0.29 ppb m

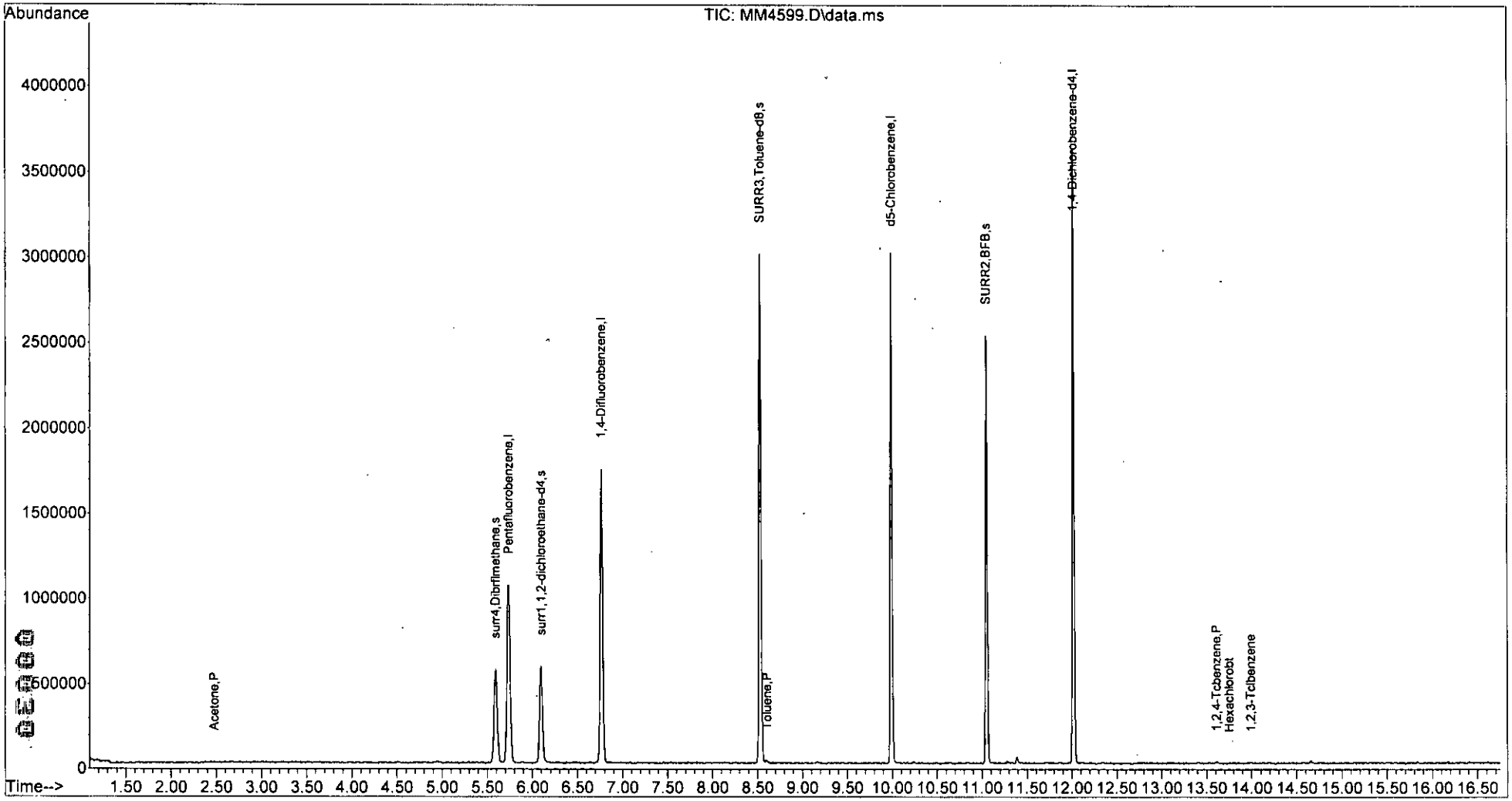
response 1989

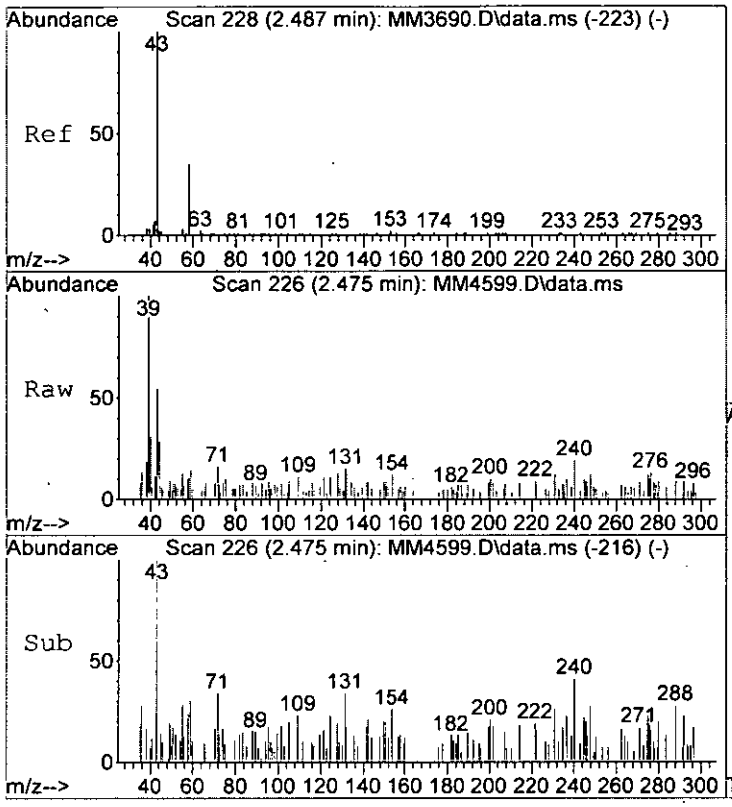
Ion	Exp%	Act%
180.00	100	100
182.00	99.10	58.03#
145.00	33.10	24.93
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 16:51:36 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

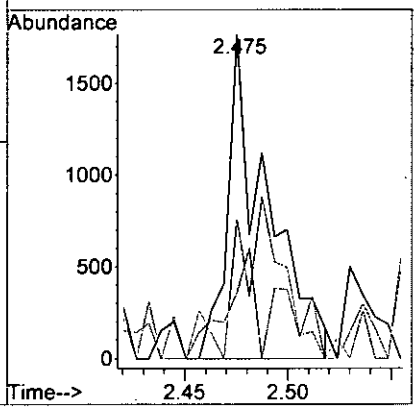


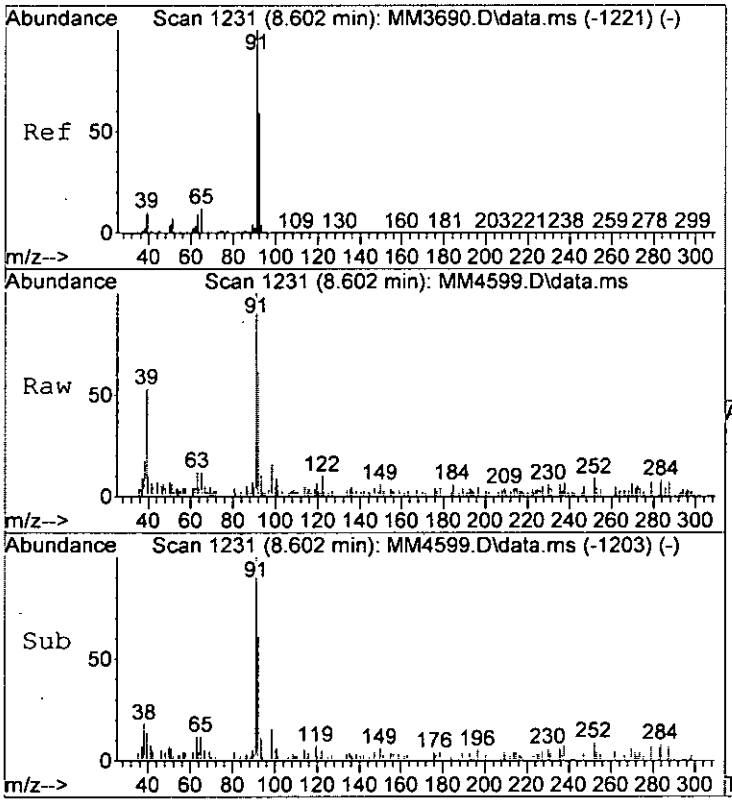


#15
Acetone
Concen: 1.92 ppb m
RT: 2.475 min Scan# 226
Delta R.T. -0.012 min
Lab File: MM4599.D
Acq: 8 Jul 2015 1:43 pm

Tgt Ion: 43 Resp: 2346

Ion	Ratio	Lower	Upper
43	100		
58	20.2	13.9	53.9
42	22.9	0.0	27.3

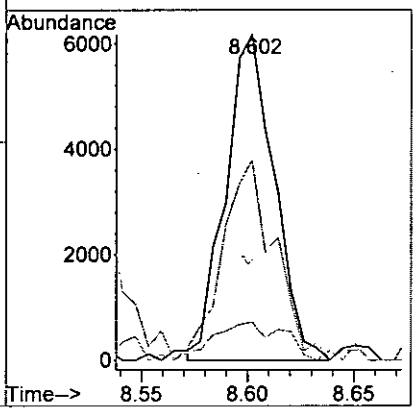


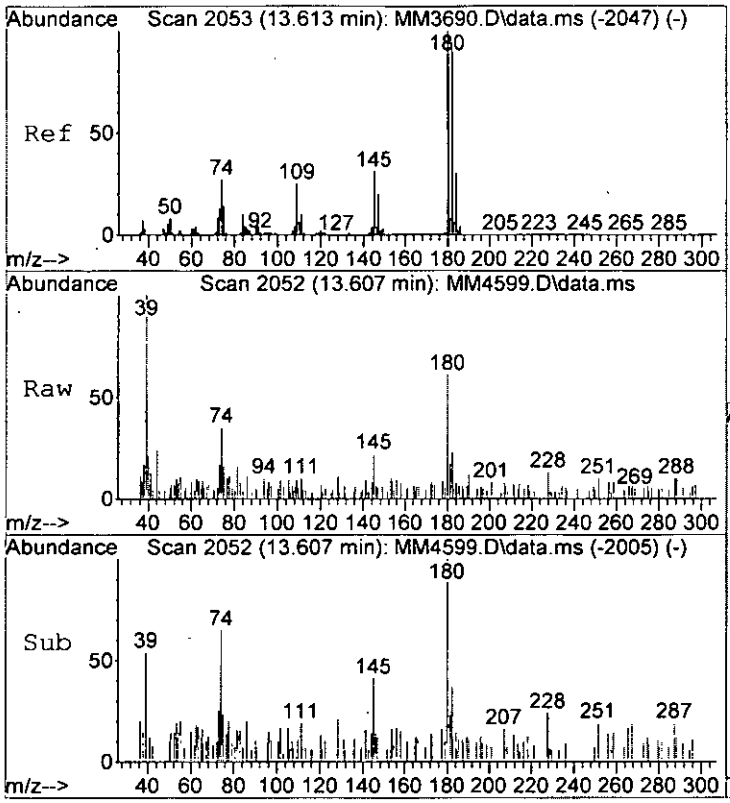


#66
Toluene
Concen: 0.30 ppb
RT: 8.602 min Scan# 1231
Delta R.T. 0.000 min
Lab File: MM4599.D
Acq: 8 Jul 2015 1:43 pm

Tgt Ion: 91 Resp: 9817

Ion	Ratio	Lower	Upper
91	100		
92	61.4	39.1	79.1
65	11.6	0.0	32.0

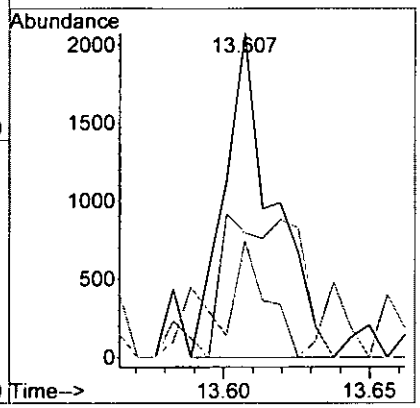


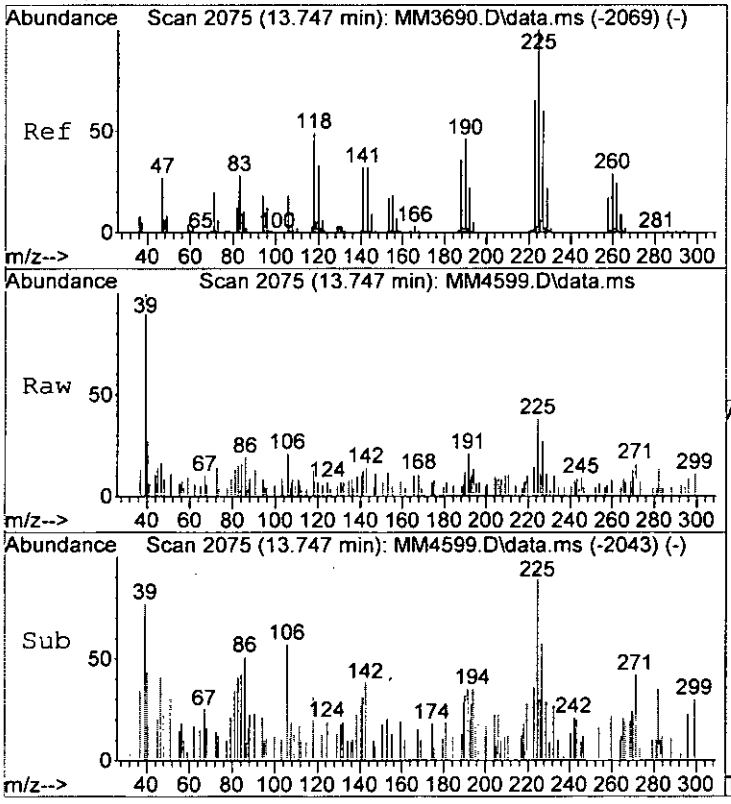


#115
1,2,4-Tcbenzene
Concen: 0.29 ppb
RT: 13.607 min Scan# 2052
Delta R.T. -0.006 min
Lab File: MM4599.D
Acq: 8 Jul 2015 1:43 pm

Tgt Ion:180 Resp: 2403

Ion	Ratio	Lower	Upper
180	100		
182	38.3	73.7	113.7#
145	35.9	11.4	51.4

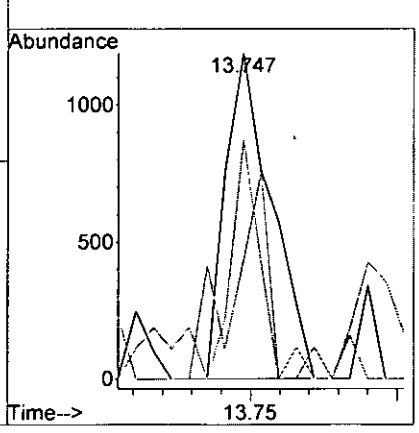


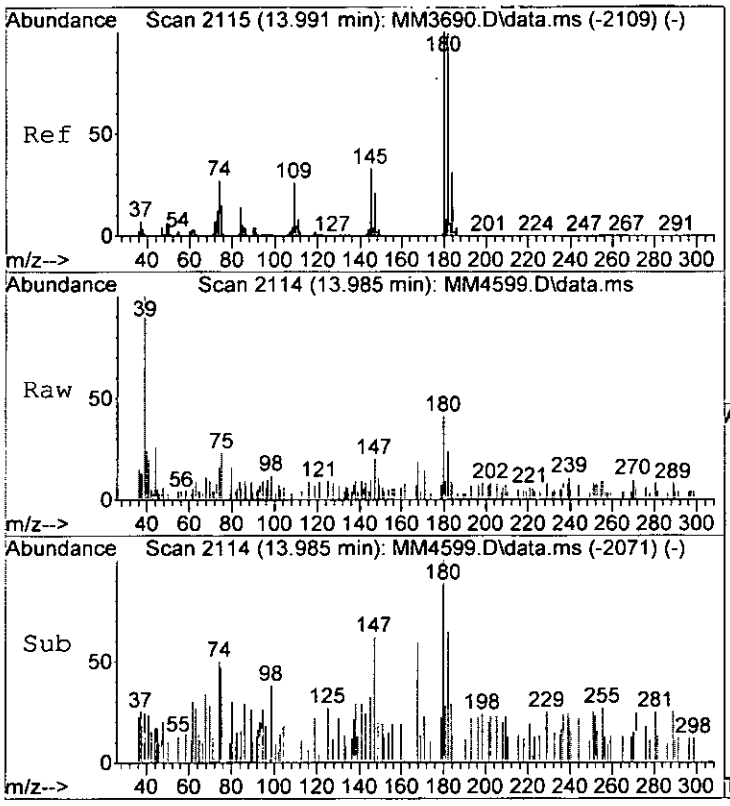


#116
Hexachlorobt
Concen: 0.40 ppb
RT: 13.747 min Scan# 2075
Delta R.T. 0.000 min
Lab File: MM4599.D
Acq: 8 Jul 2015 1:43 pm

Tgt Ion:225 Resp: 1295

Ion	Ratio	Lower	Upper
225	100		
223	36.2	45.1	85.1#
227	73.3	40.1	80.1

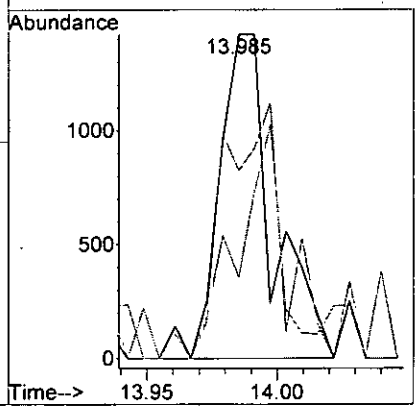




#118
1,2,3-Tclbenzene
Concen: 0.29 ppb m
RT: 13.985 min Scan# 2114
Delta R.T. -0.006 min
Lab File: MM4599.D
Acq: 8 Jul 2015 1:43 pm

Tgt Ion:180 Resp: 1989

Ion	Ratio	Lower	Upper
180	100		
182	58.0	79.1	119.1#
145	24.9	13.1	53.1



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: INTP60.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM4599.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.591	728	737	746	rBV	548175	1356413	28.71%	5.399%
2	5.737	751	761	773	rVB	1042679	2520887	53.36%	10.034%
3	6.097	811	820	831	rBV	566216	1262069	26.71%	5.023%
4	6.767	922	930	942	rVB	1723099	3264550	69.10%	12.993%
5	8.529	1210	1219	1228	rBV	2988275	4724579	100.00%	18.805%
6	9.986	1451	1458	1469	rBV	2998948	4235646	89.65%	16.859%
7	11.047	1627	1632	1640	rVB	2507019	3268675	69.18%	13.010%
8	11.388	1684	1688	1693	rBV4	40329	56984	1.21%	0.227%
9	12.016	1785	1791	1801	rVB	3601734	4434858	93.87%	17.651%

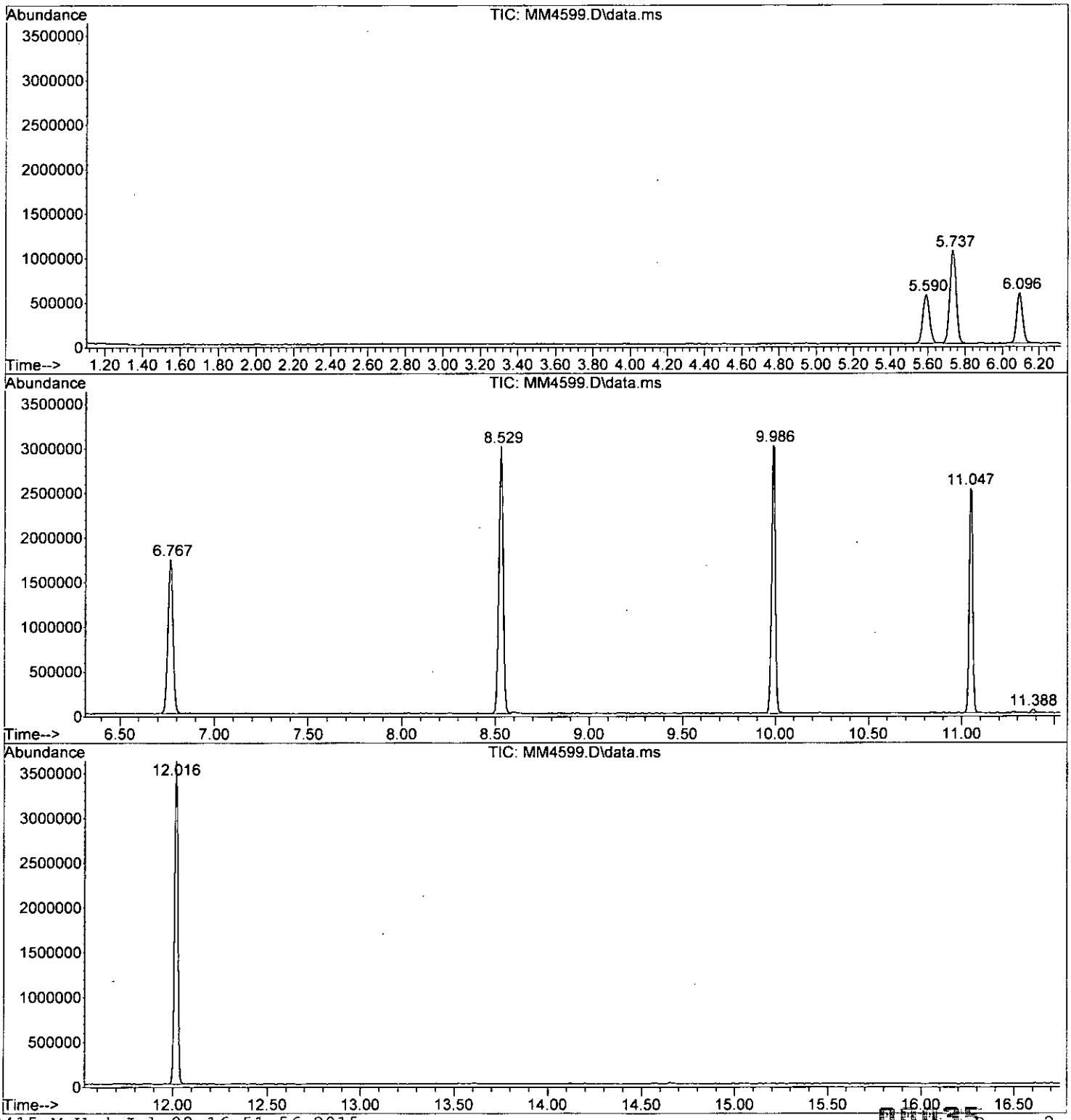
Sum of corrected areas: 25124661

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pm
Operator : K.Ruest
Sample : R1505216-001|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\070815\\
Data File : MM4599.D
Acq On : 8 Jul 2015 1:43 pmm
Operator : K.Ruestt
Sample : R1505216-001|1.0 Inst : MSVOA-122
Misc : PARSONS 11603 T4*DOD**
ALS Vial : 7 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1500
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 14:13
Sample Name:	FTMM-DI-20150629	**Units:**	µg/L
Lab Code:	R1505216-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1500
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 14:13
Sample Name:	FTMM-DI-20150629	**Units:**	µg/L
Lab Code:	R1505216-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.25**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15 1500
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 14:13
Sample Name:	FTMM-DI-20150629	**Units:**	Percent
Lab Code:	R1505216-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4600.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	75-120	7/8/15 14:13	
Dibromofluoromethane	106	85-115	7/8/15 14:13	
Toluene-d8	111	85-120	7/8/15 14:13	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 1413

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-DI-20150629	**Units:**	µg/L
Lab Code:	R1505216-002	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4600.D
Acq On : 8 Jul 2015 2:13 pm
Operator : K.Ruest
Sample : R1505216-002|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 16:53:20 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	867669	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1436116	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1364028	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	698393	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.590	113	411833	52.99	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.98%			
48) surr1,1,2-dichloroetha...	6.096	65	429313	51.72	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.44%			
65) SURR3,Toluene-d8	8.529	98	1876307	55.28	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.56%			
70) SURR2,BFB	11.047	95	674430	52.30	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.60%			
Target Compounds						Qvalue
66) Toluene	8.602	91	8214	0.25	ppb	93

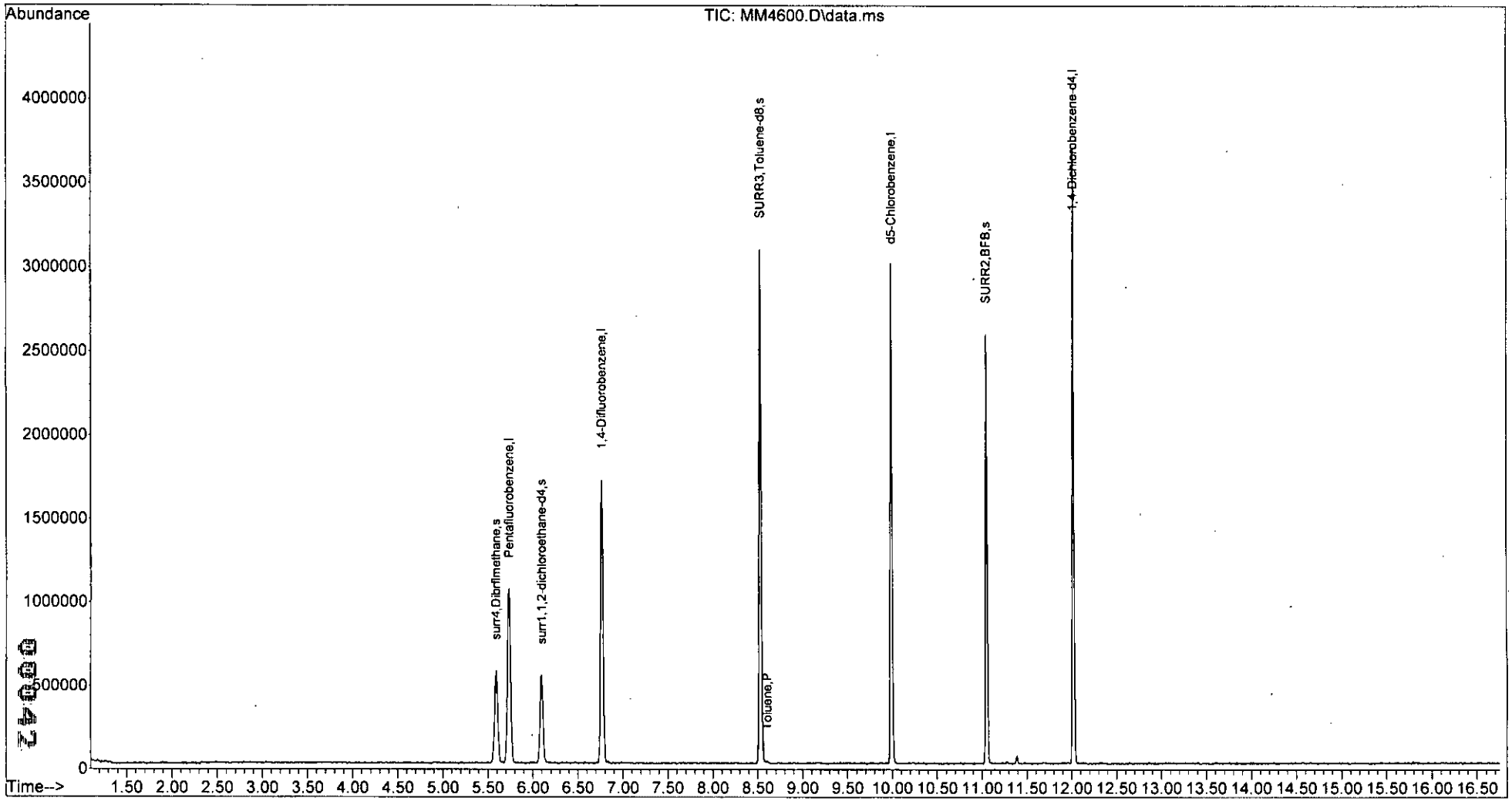
KR 7/8/15

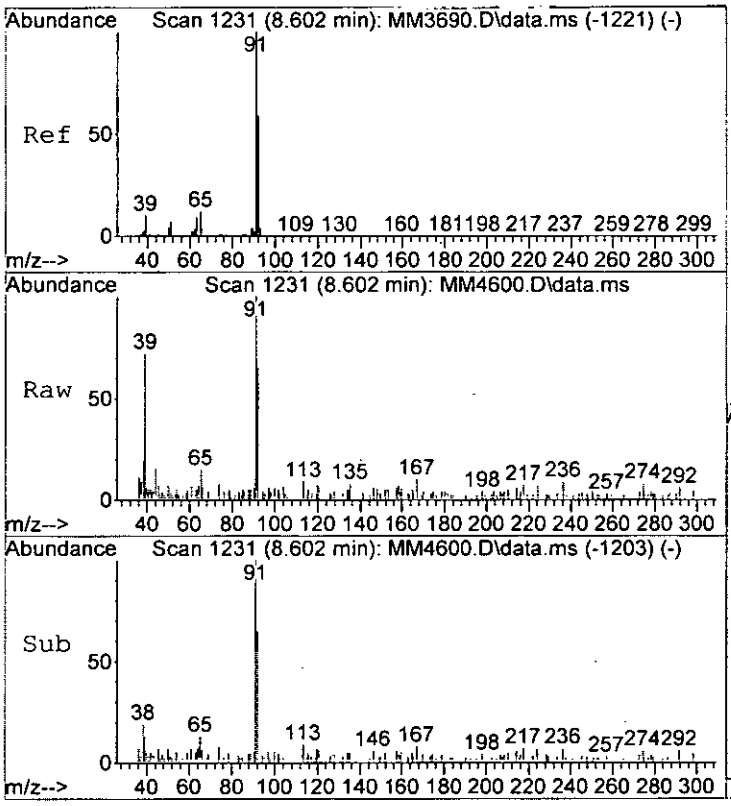
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4600.D
Acq On : 8 Jul 2015 2:13 pm
Operator : K.Ruest
Sample : R1505216-002|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 16:53:20 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

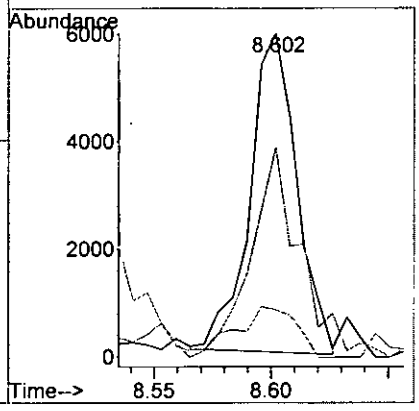




#66
Toluene
Concen: 0.25 ppb
RT: 8.602 min Scan# 1231
Delta R.T. -0.000 min
Lab File: MM4600.D
Acq: 8 Jul 2015 2:13 pm

Tgt Ion: 91 Resp: 8214

Ion	Ratio	Lower	Upper
91	100		
92	64.7	39.1	79.1
65	14.5	0.0	32.0



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4600.D
Acq On : 8 Jul 2015 2:13 pm
Operator : K.Ruest
Sample : R1505216-002|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: INTP60.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM4600.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.590	726	737	748	rBV	553635	1370526	28.74%	5.469%
2	5.737	751	761	771	rBV	1045296	2516170	52.77%	10.041%
3	6.096	812	820	829	rBV	526258	1209421	25.36%	4.826%
4	6.767	922	930	938	rBV	1694813	3238238	67.91%	12.922%
5	8.529	1213	1219	1226	rBV	3068538	4768402	100.00%	19.029%
6	9.986	1453	1458	1467	rBV	2989236	4194779	87.97%	16.740%
7	11.047	1627	1632	1640	rBV	2567980	3300112	69.21%	13.169%
8	11.388	1684	1688	1692	rBV3	46547	58582	1.23%	0.234%
9	12.016	1785	1791	1798	rBV	3671125	4402916	92.34%	17.570%

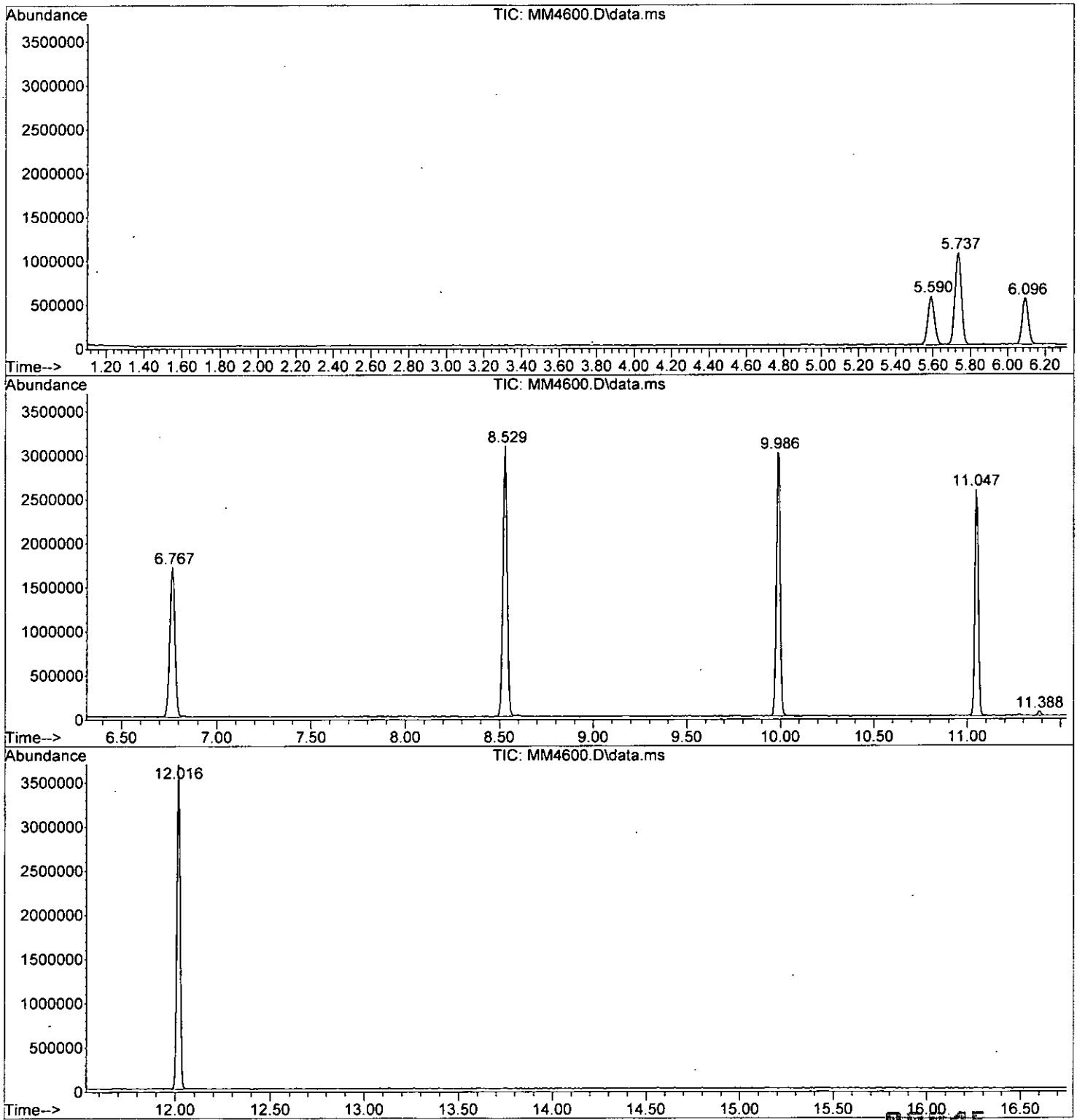
Sum of corrected areas: 25059146

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4600.D
Acq On : 8 Jul 2015 2:13 pm
Operator : K.Ruest
Sample : R1505216-002|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\070815\\
Data File : MM4600.D
Acq On : 8 Jul 2015 2:13 pmm
Operator : K.Ruestt
Sample : R1505216-002|1.0 Inst : MSVOA-122
Misc : PARSONS 11603 T4*DOD**
ALS Vial : 8 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:12
Sample Name:	FTMM-TB-20150629	**Units:**	µg/L
Lab Code:	R1505216-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**0.32**	J	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**0.21**	J	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:12
Sample Name:	FTMM-TB-20150629	**Units:**	µg/L
Lab Code:	R1505216-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 13:12
Sample Name:	FTMM-TB-20150629	**Units:**	Percent
Lab Code:	R1505216-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4598.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	7/8/15 13:12	
Dibromofluoromethane	105	85-115	7/8/15 13:12	
Toluene-d8	106	85-120	7/8/15 13:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	6/29/15
Sample Matrix:	Water	**Date Received:**	6/30/15
		Date Analyzed:	7/8/15 1312

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-TB-20150629	**Units:**	µg/L
Lab Code:	R1505216-003	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 16:47:55 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	876323	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1473470	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1396912	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	684142	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	417225	52.33	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.66%				
48) surr1,1,2-dichloroetha...	6.096	65	453645	53.26	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 106.52%				
65) SURR3,Toluene-d8	8.529	98	1839078	52.81	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.62%				
70) SURR2,BFB	11.047	95	673451	50.90	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.80%				
Target Compounds							Qvalue
5) Bromomethane	1.683	94	1184m	0.23	ppb		
106) 1,4-Dclbenz	12.040	146	3390m	0.21	ppb		
115) 1,2,4-Tcbenzene	13.613	180	2678	0.32	ppb	#	61
116) Hexachlorobt	13.747	225	1819	0.57	ppb		90
118) 1,2,3-Tclbenzene	13.985	180	2013	0.30	ppb	#	64

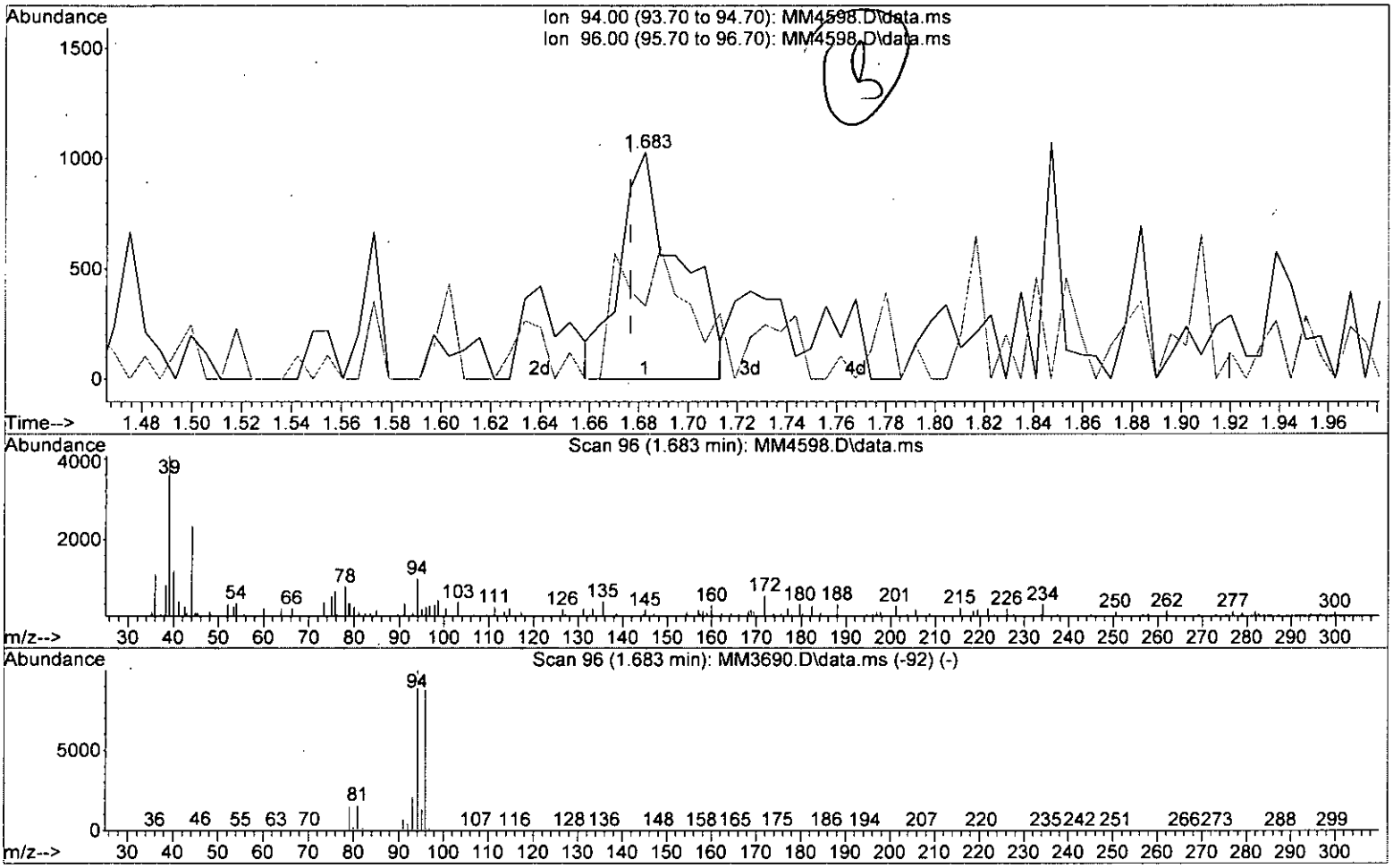
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KR 7/8/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:28:34 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4598.D\data.ms

(5) Bromomethane (P)

1.683min (+0.006) 0.33 ppb

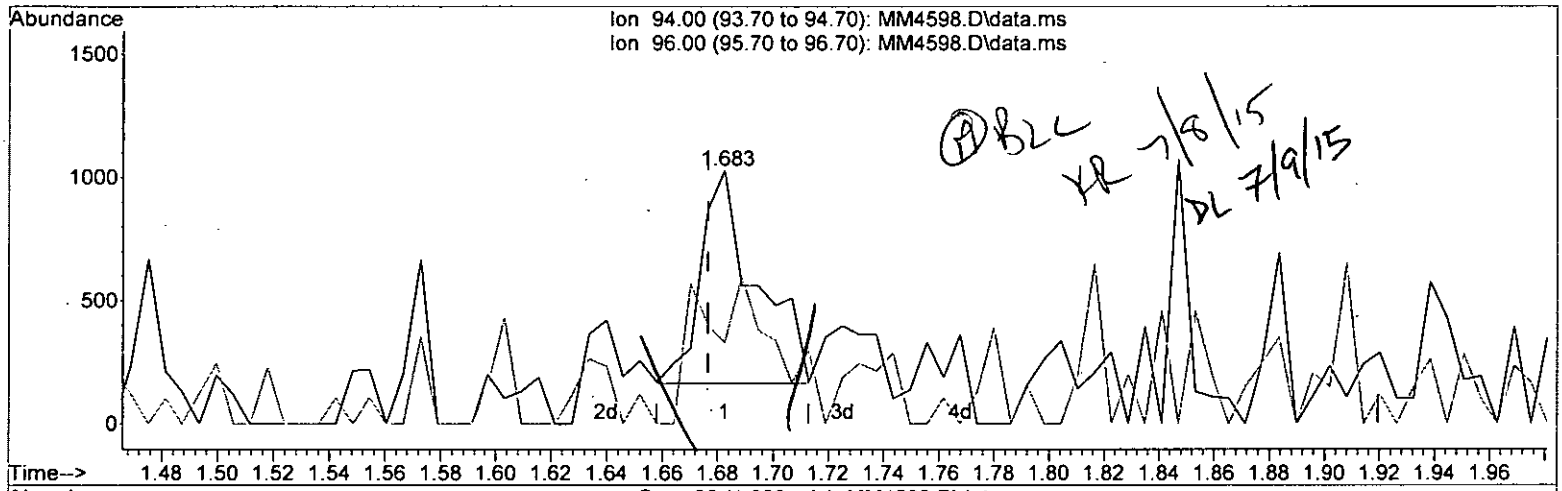
response 1727

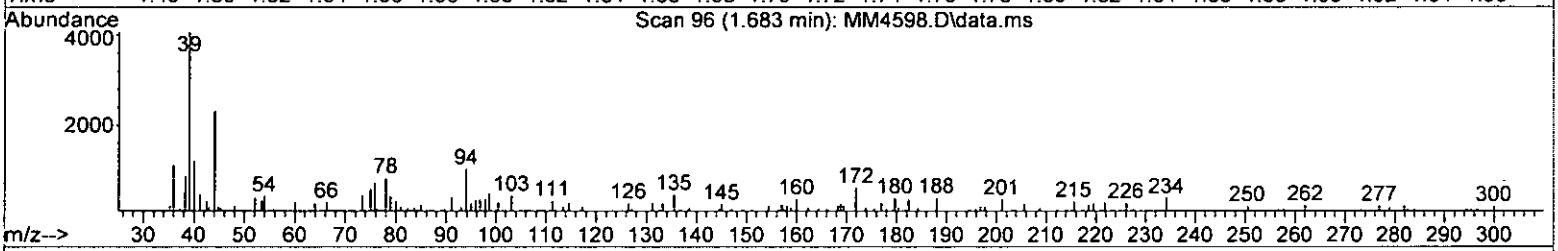
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	31.91#
0.00	0.00	0.00
0.00	0.00	0.00

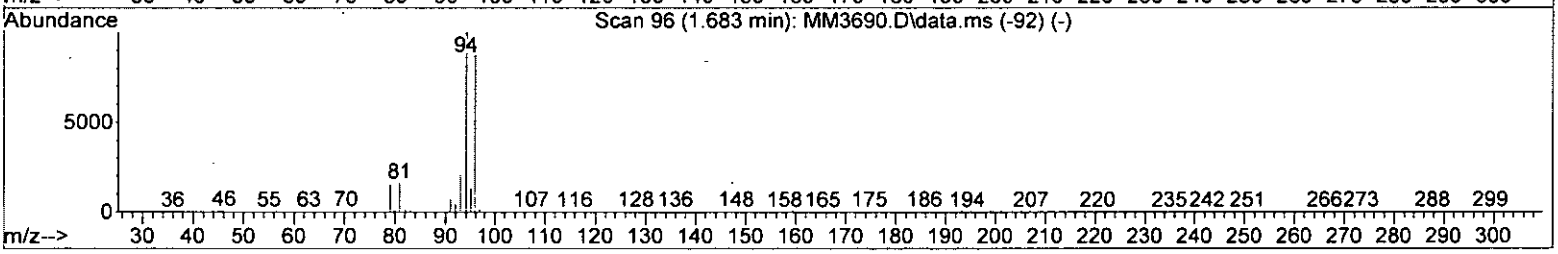
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:28:34 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration







TIC: MM4598.D\data.ms

(5) Bromomethane (P)

1.683min (+0.006) 0.23 ppb m

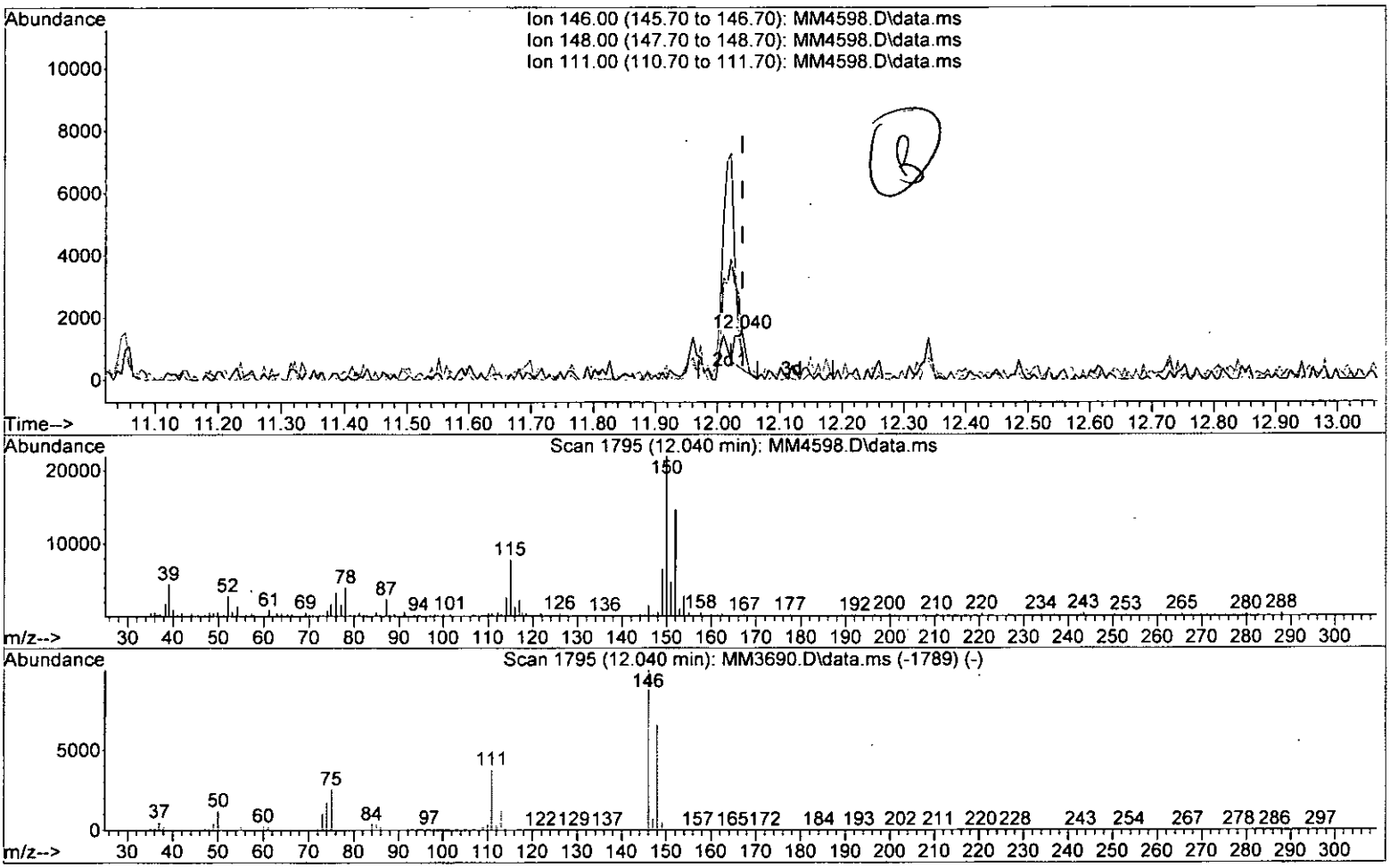
response 1184

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	31.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:28:34 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4598.D\data.ms

(106) 1,4-Dclbenz (P)

12.040min (-0.000) 0.08 ppb

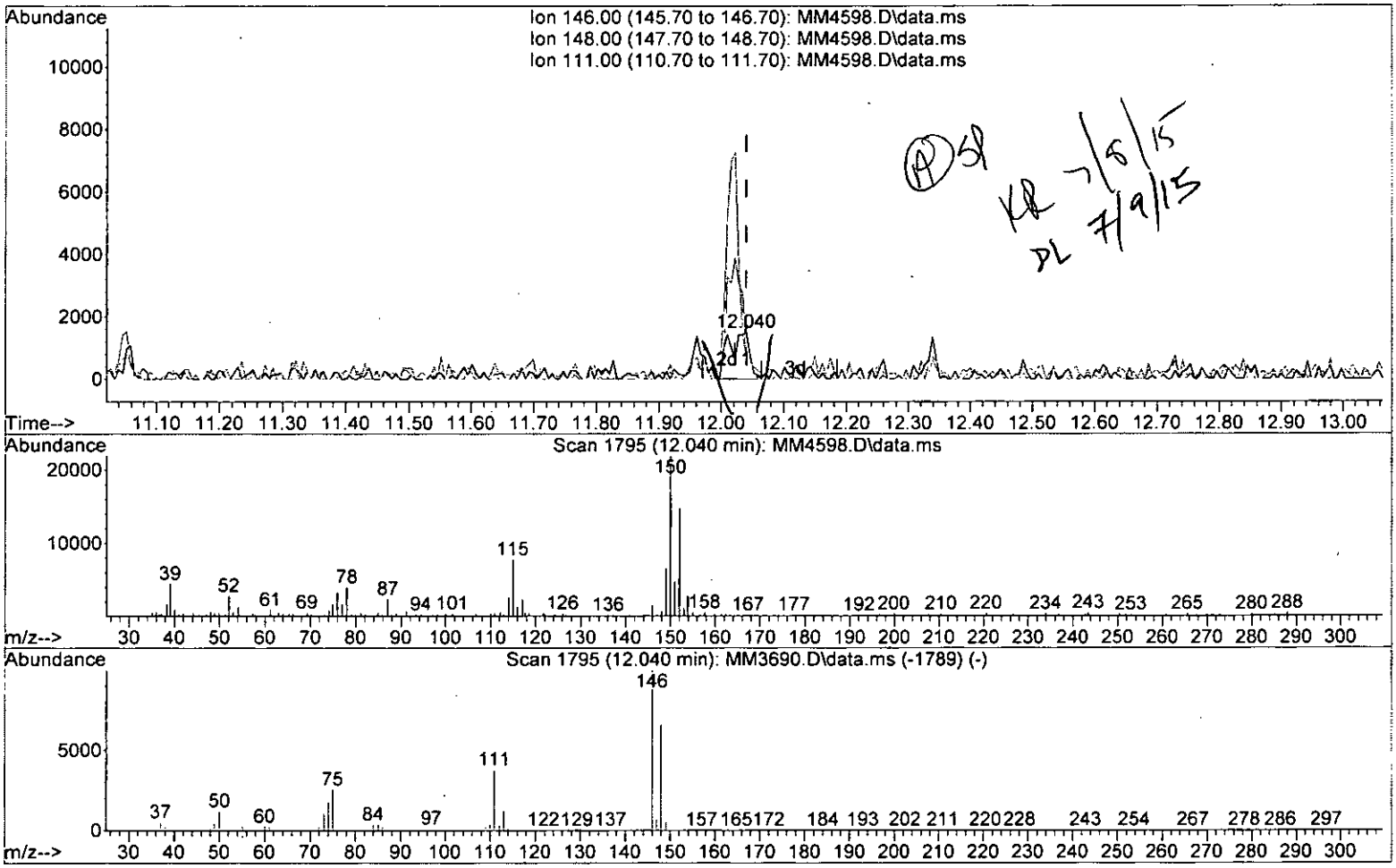
response 1219

Ion	Exp%	Act%
146.00	100	100
148.00	65.70	45.67#
111.00	38.10	31.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 13:28:34 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4598.D\data.ms

(106) 1,4-Dclbenz (P)

12.040min (-0.000) 0.21 ppb m

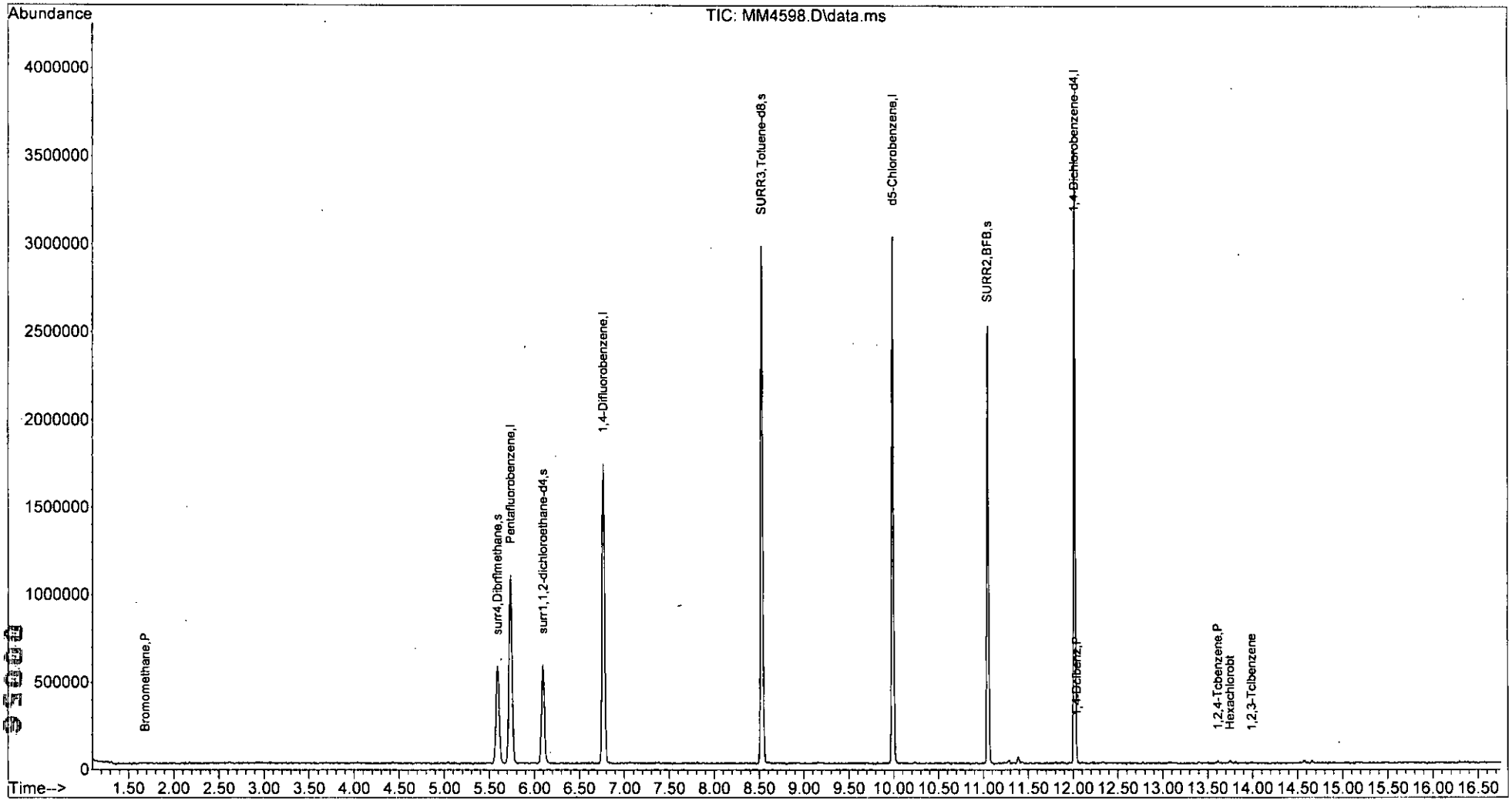
response 3390

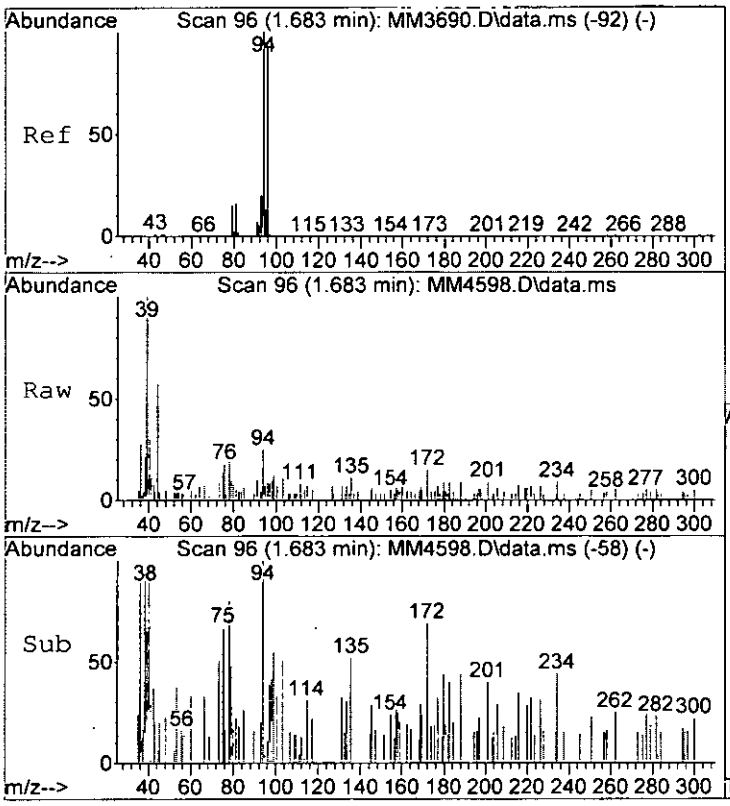
Ion	Exp%	Act%
146.00	100	100
148.00	65.70	45.67#
111.00	38.10	31.49
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 16:47:55 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

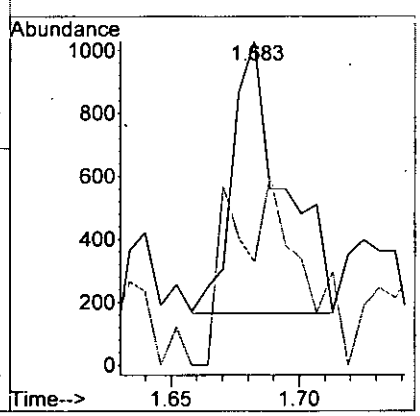


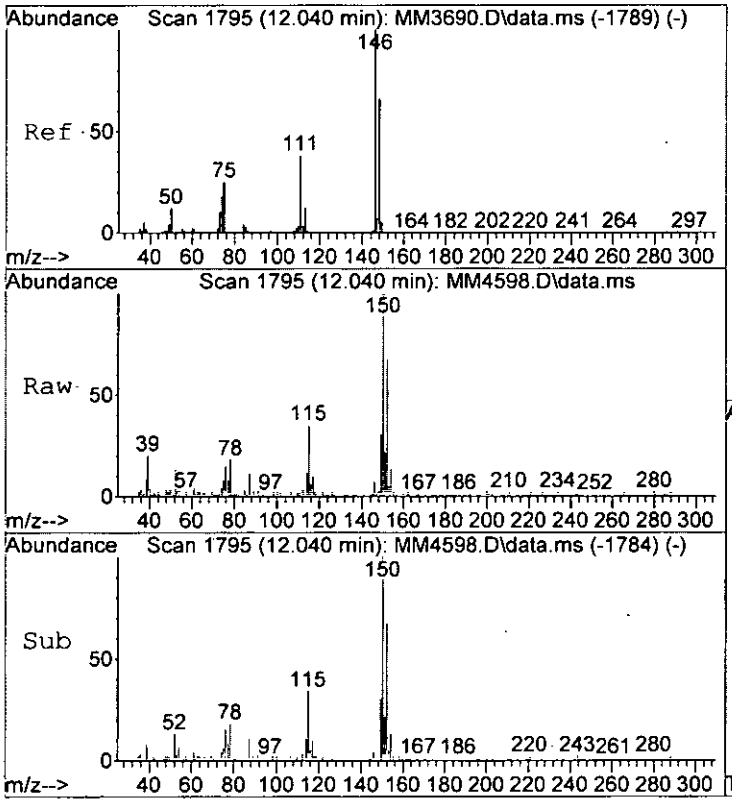


#5
Bromomethane
Concen: 0.23 ppb m
RT: 1.683 min Scan# 96
Delta R.T. 0.006 min
Lab File: MM4598.D
Acq: 8 Jul 2015 1:12 pm

Tgt Ion: 94 Resp: 1184

Ion	Ratio	Lower	Upper
94	100		
96	31.9	71.8	111.8#

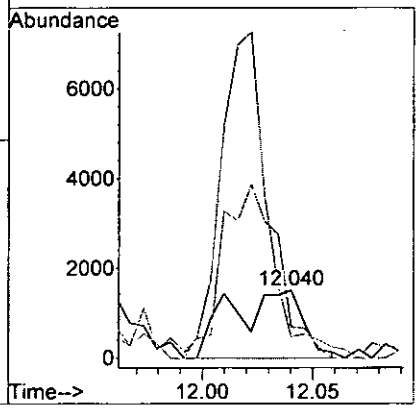


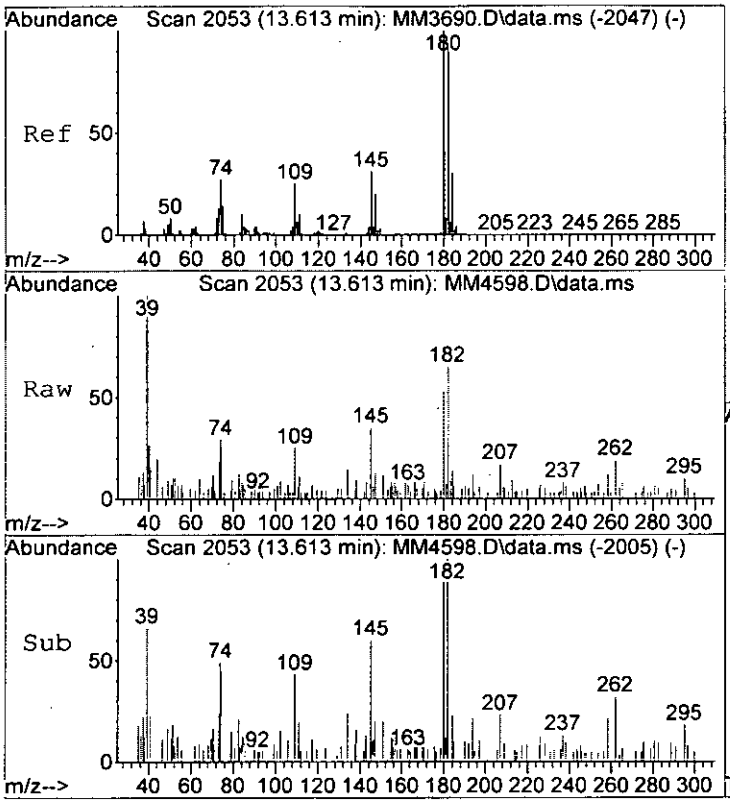


#106
1,4-Dclbenz
Concen: 0.21 ppb m
RT: 12.040 min Scan# 1795
Delta R.T. -0.000 min
Lab File: MM4598.D
Acq: 8 Jul 2015 1:12 pm

Tgt Ion:146 Resp: 3390

Ion	Ratio	Lower	Upper
146	100		
148	45.7	45.7	85.7#
111	31.5	18.1	58.1

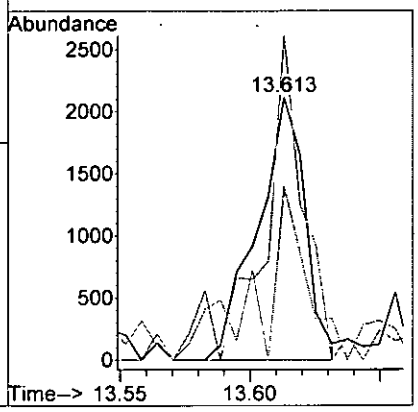


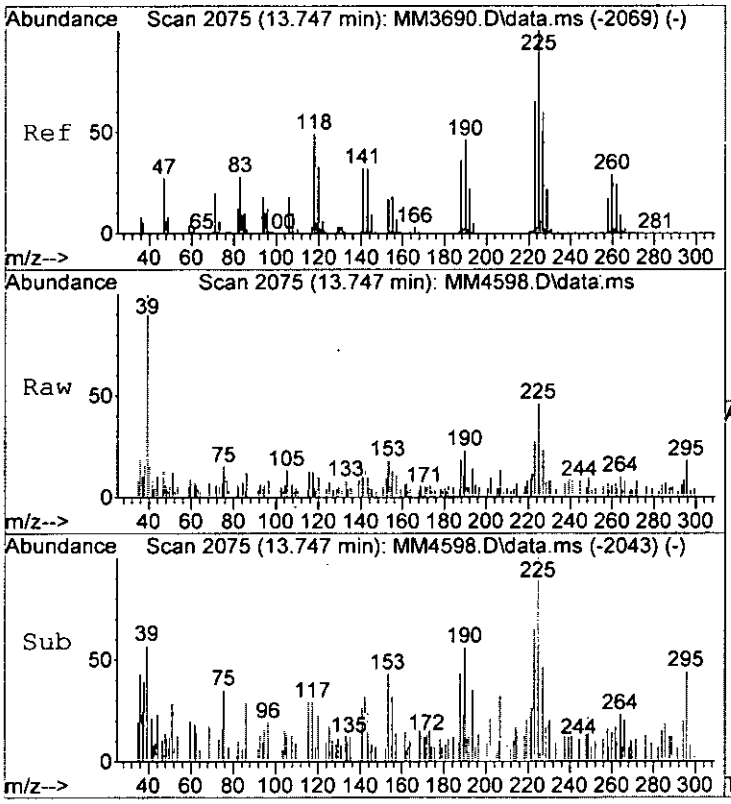


#115
1,2,4-Tcbenzene
Concen: 0.32 ppb
RT: 13.613 min Scan# 2053
Delta R.T. -0.000 min
Lab File: MM4598.D
Acq: 8 Jul 2015 1:12 pm

Tgt Ion:180 Resp: 2678

Ion	Ratio	Lower	Upper
180	100		
182	123.4	73.7	113.7#
145	66.0	11.4	51.4#

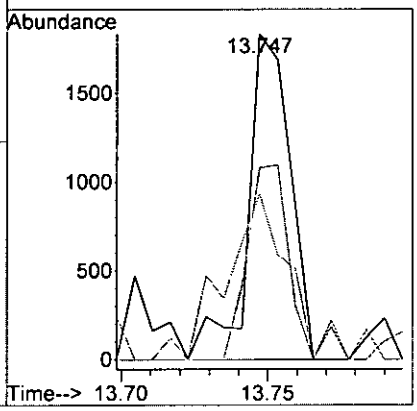


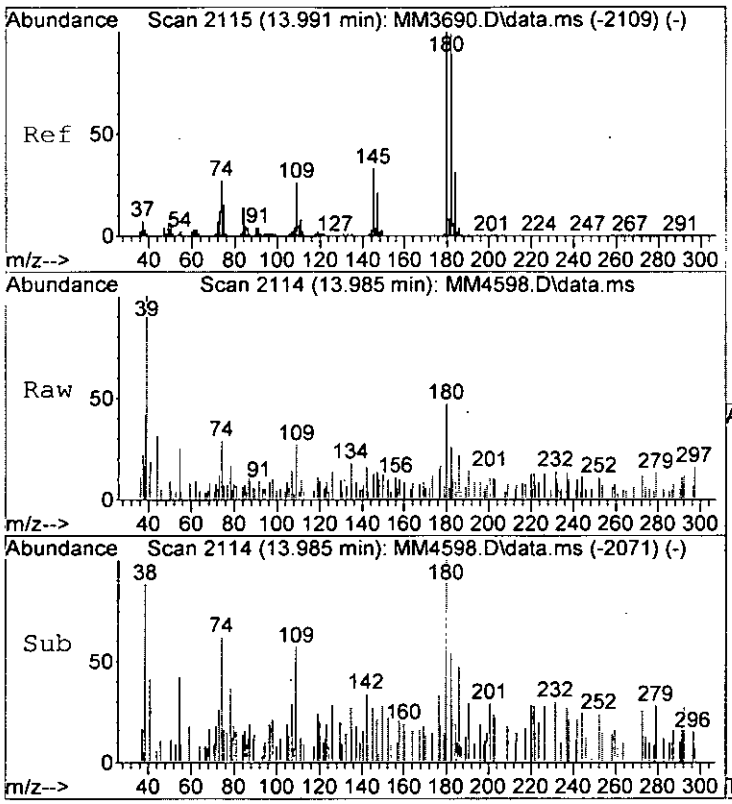


#116
Hexachlorobt
Concen: 0.57 ppb
RT: 13.747 min Scan# 2075
Delta R.T. -0.000 min
Lab File: MM4598.D
Acq: 8 Jul 2015 1:12 pm

Tgt Ion:225 Resp: 1819

Ion	Ratio	Lower	Upper
225	100		
223	58.8	45.1	85.1
227	50.8	40.1	80.1

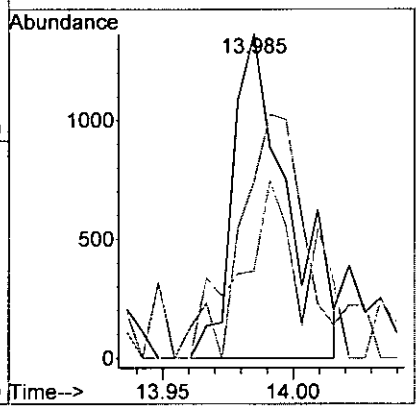




#118
1,2,3-Tclbenzene
Concen: 0.30 ppb
RT: 13.985 min Scan# 2114
Delta R.T. -0.006 min
Lab File: MM4598.D
Acq: 8 Jul 2015 1:12 pm

Tgt Ion:180 Resp: 2013

Ion	Ratio	Lower	Upper
180	100		
182	54.4	79.1	119.1#
145	26.7	13.1	53.1



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: INTP60.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM4598.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.590	727	737	749	rBV	559322	1409396	29.75%	5.603%
2	5.737	752	761	771	rVV	1078494	2530021	53.41%	10.057%
3	6.096	809	820	834	rBV2	567630	1293367	27.30%	5.141%
4	6.767	921	930	938	rBV	1717634	3293765	69.53%	13.093%
5	8.529	1211	1219	1229	rBV	2961641	4737068	100.00%	18.831%
6	9.992	1452	1459	1467	rVB	3011214	4235861	89.42%	16.838%
7	11.053	1627	1633	1641	rBV	2504508	3269504	69.02%	12.997%
8	11.388	1683	1688	1692	rBV5	41477	59827	1.26%	0.238%
9	12.016	1786	1791	1798	rBV	3505925	4327042	91.34%	17.201%

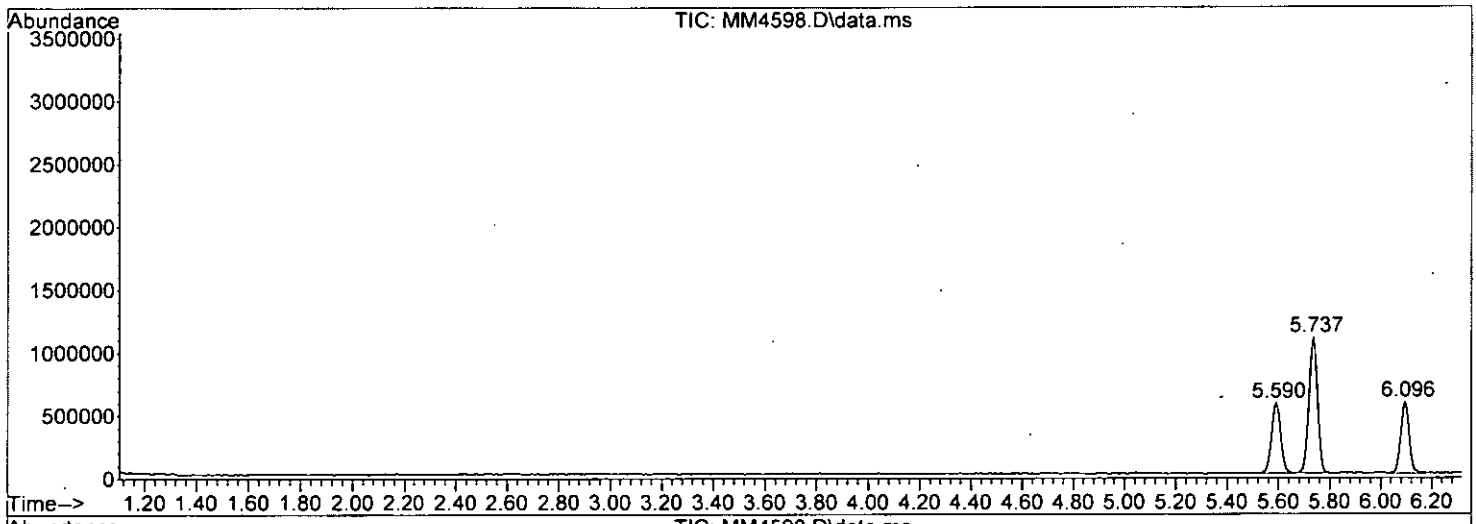
Sum of corrected areas: 25155851

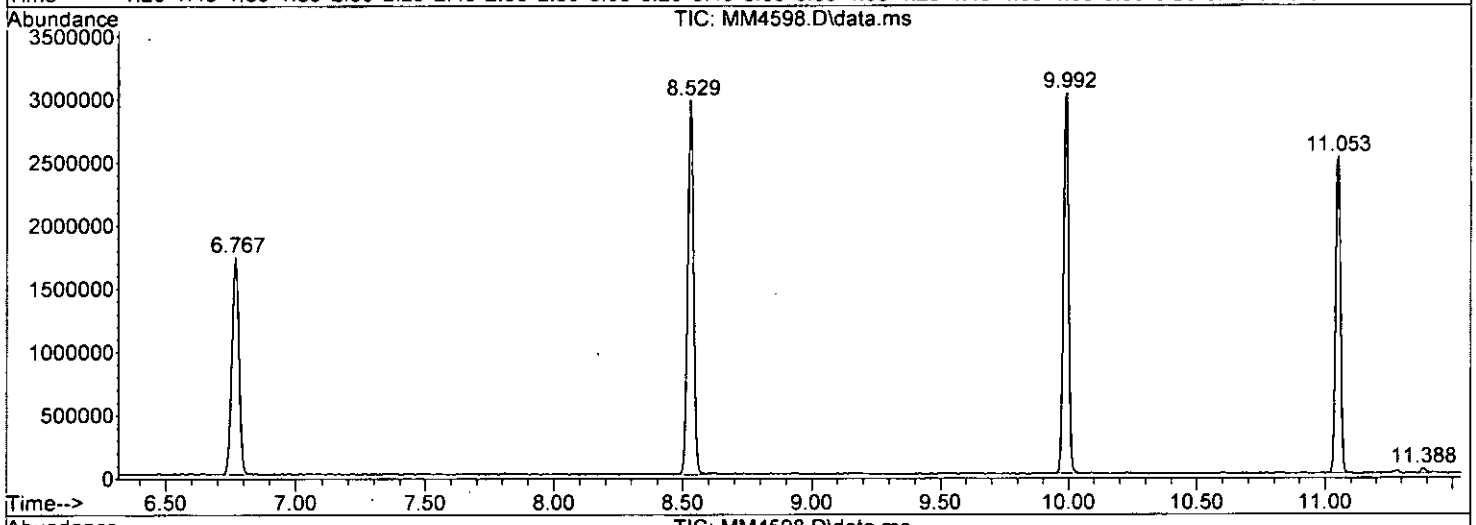
LSC Report - Integrated Chromatogram

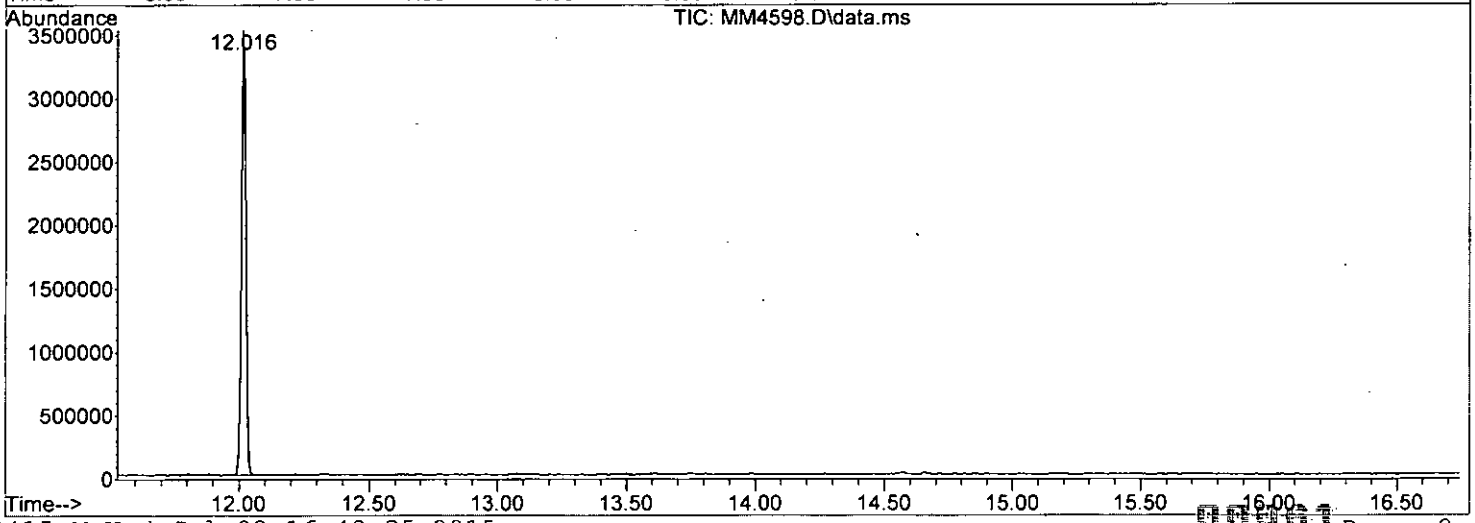
Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pm
Operator : K.Ruest
Sample : R1505216-003|1.0 Inst : MSVOA-12
Misc : PARSONS 11603 T4*DOD*
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\070815\\
Data File : MM4598.D
Acq On : 8 Jul 2015 1:12 pmm
Operator : K.Ruestt
Sample : R1505216-003|1.0 Inst : MSVOA-122
Misc : PARSONS 11603 T4*DOD**
ALS Vial : 6 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

ALS Environmental

VOLATILE ORGANICS STANDARDS DATA

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

KR 6/5/15

Initial Calibration - Summary Report

8260 Waters - W0600115

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.2738	<=20	6.0
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.6880	<=20	9.4
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.4225	<=20	6.8
1,1,2-Trichloroethane	T	Average RF		0.100	0.1833	<=20	3.9
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.3640	<=20	5.2
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.6788	<=20	5.9
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.3677	<=20	7.4
1,1-Dichloropropene	T	Average RF			0.3441	<=20	9.0
1,2,3-Trichlorobenzene	T	Average RF			0.4939	<=20	3.3
1,2,3-Trichloropropane	T	Average RF			0.1286	<=20	10.6
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.6041	<=20	3.8
1,2,4-Trimethylbenzene	T	Average RF			2.008	<=20	4.0
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.08551	<=20	9.6
1,2-Dibromoethane	T	Average RF		0.100	0.1939	<=20	7.0
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5540	<=20	7.8
1,2-Dichlorobenzene	T	Average RF		0.400	1.052	<=20	4.0
1,2-Dichloroethane	T	Average RF		0.100	0.3177	<=20	8.6
1,2-Dichloropropane	T	Average RF		0.100	0.2370	<=20	6.4
1,3,5-Trichlorobenzene	T	Average RF			0.6596	<=20	5.7
1,3,5-Trimethylbenzene	T	Average RF			1.989	<=20	3.3
1,3-Dichlorobenzene	T	Average RF		0.600	1.125	<=20	3.1
1,3-Dichloropropane	T	Average RF			0.3283	<=20	4.4
1,4-Dichlorobenzene	T	Average RF		0.500	1.172	<=20	4.9
1,4-Dioxane	T	Average RF			0.001904	<=20	18.3
1-Butanol	T	Average RF			0.004180	<=20	4.8
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.3476	<=20	4.5
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6437	<=20	9.1
2,2-Dichloropropane	T	Average RF			0.6467	<=20	3.4
2,3,6-Trichlorotoluene	T	Average RF			0.3395	<=20	5.8
2,4,5-Trichlorotoluene	T	Average RF			0.3948	<=20	5.1
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			0.8856	<=20	2.9
2,4-Dichlorobenzotrifluoride	T	Average RF			0.4190	<=20	4.2
2,5-Dichlorobenzotrifluoride	T	Average RF			0.4712	<=20	5.5
2-Bromo-2-chloro-1,1,1-trifluoroethane	T	Average RF				<=20	
2-Butanone (MEK)	T	Average RF		0.05	0.09211	<=20	6.1
2-Chloro-1,3-butadiene	T	Average RF			0.7387	<=20	3.6
2-Chlorobenzotrifluoride	T	Average RF			0.7253	<=20	7.4
2-Chloroethyl Vinyl Ether	T	Average RF			0.1094	<=20	5.5
2-Chlorotoluene	T	Average RF			1.610	<=20	4.3
2-Hexanone	T	Average RF		0.05	0.1012	<=20	8.8
2-Methyl-1-propanol	T	Average RF			0.006582	<=20	9.8
2-Methyl-2-propanol	T	Average RF			0.02483	<=20	4.4
2-Nitropropane	T	Average RF			0.04423	<=20	10.1
2-Propanol	T	Average RF			0.01392	<=20	6.1
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			0.9488	<=20	4.5
3,4-Dichlorobenzotrifluoride	T	Average RF			0.4749	<=20	6.4
3-Chloro-1-propene	T	Average RF			0.2213	<=20	6.5
3-Chlorobenzotrifluoride	T	Average RF			0.3837	<=20	4.2
3-Chlorotoluene	T	Average RF			1.706	<=20	3.8
4-Chlorotoluene	T	Average RF			1.990	<=20	3.4
4-Isopropyltoluene	T	Average RF			1.869	<=20	4.6
4-Methyl-2-pentanone	T	Average RF		0.05	0.1351	<=20	3.9

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Initial Calibration - Summary Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetone	T	Average RF		0.05	0.07009	<=20	10.0
Acetonitrile	T	Average RF			0.008996	<=20	14.4
Acrolein	T	Average RF			0.03600	<=20	16.1
Acrylonitrile	T	Average RF			0.07966	<=20	7.6
Benzene	T	Average RF		0.500	0.9909	<=20	5.6
Bromobenzene	T	Average RF			0.5788	<=20	3.0
Bromochloromethane	T	Average RF			0.2421	<=20	10.8
Bromodichloromethane	T	Average RF		0.200	0.3420	<=20	4.7
Bromoform	T	Average RF		0.100	0.2560	<=20	2.8
Bromomethane	T	Average RF		0.100	0.2975	<=20	7.1
Carbon Disulfide	T	Average RF		0.100	1.178	<=20	6.1
Carbon Tetrachloride	T	Average RF		0.05	0.1088	<=20	3.5
Chlorobenzene	T	Average RF		0.500	0.8139	<=20	5.3
Chloroethane	T	Average RF		0.100	0.3477	<=20	8.9
Chloroform	T	Average RF		0.200	0.7154	<=20	6.2
Chloromethane	T	Average RF		0.100	0.4149	<=20	6.6
Cyclohexane	T	Average RF		0.100	0.2271	<=20	8.6
Cyclohexanone	T	Average RF			0.01376	<=20	3.8
Dibromochloromethane	T	Average RF		0.100	0.2472	<=20	9.3
Dibromomethane	T	Average RF			0.1277	<=20	8.9
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.4266	<=20	6.3
Dichlorofluoromethane (CFC 21)	T	Average RF			0.8681	<=20	4.7
Dichloromethane	T	Average RF		0.100	0.3908	<=20	6.9
Diethyl Ether	T	Average RF			0.3453	<=20	7.1
Diisopropyl Ether	T	Average RF			1.180	<=20	5.0
Ethyl Methacrylate	T	Average RF			0.2473	<=20	9.8
Ethyl tert-Butyl Ether	T	Average RF			1.176	<=20	6.0
Ethylbenzene	T	Average RF		0.100	0.4406	<=20	6.7
Hexachlorobutadiene	T	Average RF			0.2326	<=20	10.6
Iodomethane	T	Linear	Equal		0.3852	>=0.99	0.9990
Isopropylbenzene (Cumene)	T	Average RF		0.100	2.321	<=20	4.3
Methacrylonitrile	T	Average RF			0.1050	<=20	11.6
Methyl Acetate	T	Average RF		0.100	0.1526	<=20	6.7
Methyl Methacrylate	T	Average RF			0.1156	<=20	4.6
Methyl tert-Butyl Ether	T	Average RF		0.100	0.9554	<=20	3.0
Methylcyclohexane	T	Average RF		0.100	0.2502	<=20	3.5
Naphthalene	T	Average RF			1.268	<=20	6.5
Propionitrile	T	Average RF			0.02812	<=20	7.8
Styrene	T	Average RF		0.300	0.8926	<=20	2.1
Tetrachloroethene (PCE)	T	Average RF		0.200	0.2293	<=20	8.5
Tetrahydrofuran (THF)	T	Average RF			0.06265	<=20	13.7
Toluene	T	Average RF		0.400	1.137	<=20	2.1
Trichloroethene (TCE)	T	Average RF		0.200	0.2675	<=20	3.9
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7809	<=20	4.4
Vinyl Acetate	T	Average RF			0.08139	<=20	14.2
Vinyl Chloride	T	Average RF		0.100	0.5240	<=20	9.4
cis-1,2-Dichloroethene	T	Average RF		0.100	0.4380	<=20	3.8
cis-1,3-Dichloropropene	T	Average RF		0.200	0.3982	<=20	3.4
m,p-Xylenes	T	Average RF		0.100	0.5370	<=20	2.7
n-Butyl Acetate	T	Average RF			0.2659	<=20	5.9
n-Butylbenzene	T	Average RF			1.677	<=20	5.2
n-Heptane	T	Average RF			0.2111	<=20	6.6

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Initial Calibration - Summary Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
n-Propylbenzene	T	Average RF			2.612	<=20	4.5
o-Xylene	T	Average RF		0.300	0.5200	<=20	4.8
sec-Butylbenzene	T	Average RF			2.197	<=20	6.3
tert-Amyl Methyl Ether	T	Average RF			1.026	<=20	5.3
tert-Butylbenzene	T	Average RF			1.602	<=20	6.1
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4109	<=20	4.0
trans-1,3-Dichloropropene	T	Average RF		0.100	0.3408	<=20	2.6
trans-1,4-Dichloro-2-butene	T	Average RF			0.1249	<=20	7.3
1,2-Dichloroethane-d4	S	Average RF			0.2890	<=20	7.4
4-Bromofluorobenzene	S	Average RF			0.4490	<=20	7.4
Dibromofluoromethane	S	Average RF			0.2706	<=20	6.3
Toluene-d8	S	Average RF			1.182	<=20	7.5

8260 Waters

Initial Calibration - Detailed Report

KR 6/5/15

Calibration ID: RC1500064 WOC0415 **Instrument ID:** R-MS-12
Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
11	RC1500064-11	5.0ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3688.D	6/4/15 14:11
01	RC1500064-01	0.5ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3685.D	6/4/15 12:40
02	RC1500064-02	1.0ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3686.D	6/4/15 13:10
03	RC1500064-03	2.0ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3687.D	6/4/15 13:41
05	RC1500064-05	20ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3689.D	6/4/15 14:42
06	RC1500064-06	50ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3690.D	6/4/15 15:12
07	RC1500064-07	100ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3691.D	6/4/15 15:43
08	RC1500064-08	150ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3692.D	6/4/15 16:13
09	RC1500064-09	200ppb	I:\ACQUDATA\msvoa12\Data\060415\MM3693.D	6/4/15 16:43

Analyte **Curve Fit** **Weighting**

1,1,1,2-Tetrachloroethane Average RF RSD = 6.0 Average RF = 0.2738

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2643	02	1.000	0.2473	03	2.000	0.2942	11	5.000	0.2532
05	20.000	0.2774	06	50.000	0.2695	07	100.000	0.2794	08	150.000	0.2873
09	200.000	0.2913									

1,1,1-Trichloroethane (TCA) Average RF RSD = 9.4 Average RF = 0.6880

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8445	02	1.000	0.7201	03	2.000	0.6991	11	5.000	0.6459
05	20.000	0.6741	06	50.000	0.6552	07	100.000	0.6311	08	150.000	0.6599
09	200.000	0.6616									

1,1,2,2-Tetrachloroethane Average RF RSD = 6.8 Average RF = 0.4225

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4961	02	1.000	0.4041	03	2.000	0.4146	11	5.000	0.4076
05	20.000	0.4323	06	50.000	0.4163	07	100.000	0.4131	08	150.000	0.4135
09	200.000	0.4049									

1,1,2-Trichloroethane Average RF RSD = 3.9 Average RF = 0.1833

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1998	02	1.000	0.1891	03	2.000	0.1761	11	5.000	0.1837
05	20.000	0.1821	06	50.000	0.1780	07	100.000	0.1794	08	150.000	0.1802
09	200.000	0.1818									

1,1,2-Trichlorotrifluoroethane Average RF RSD = 5.2 Average RF = 0.3640

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3994	03	2.000	0.3508	11	5.000	0.3681	05	20.000	0.3753
06	50.000	0.3460	07	100.000	0.3409	08	150.000	0.3612	09	200.000	0.3707

1,1-Dichloroethane (1,1-DCA) Average RF RSD = 5.9 Average RF = 0.6788

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7751	02	1.000	0.6982	03	2.000	0.6825	11	5.000	0.6581
05	20.000	0.6806	06	50.000	0.6545	07	100.000	0.6397	08	150.000	0.6543
09	200.000	0.6666									

1,1-Dichloroethene (1,1-DCE) Average RF RSD = 7.4 Average RF = 0.3677

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3624	02	1.000	0.4297	03	2.000	0.3796	11	5.000	0.3393
05	20.000	0.3651	06	50.000	0.3504	07	100.000	0.3420	08	150.000	0.3649
09	200.000	0.3758									

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte	Curve Fit	Weighting

1,1-Dichloropropene — Average RF — RSD = 9.0 — Average RF = 0.3441

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4225	02	1.000	0.3528	03	2.000	0.3275	11	5.000	0.3410
05	20.000	0.3336	06	50.000	0.3243	07	100.000	0.3200	08	150.000	0.3324
09	200.000	0.3426									

1,2,3-Trichlorobenzene — Average RF — RSD = 3.3 — Average RF = 0.4939

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4699	03	2.000	0.5167	11	5.000	0.4992	05	20.000	0.5122
06	50.000	0.5005	07	100.000	0.4901	08	150.000	0.4807	09	200.000	0.4817

1,2,3-Trichloropropane — Average RF — RSD = 10.6 — Average RF = 0.1286

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1611	03	2.000	0.1270	11	5.000	0.1286	05	20.000	0.1264
06	50.000	0.1233	07	100.000	0.1234	08	150.000	0.1204	09	200.000	0.1183

1,2,4-Trichlorobenzene — Average RF — RSD = 3.8 — Average RF = 0.6041

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6343	02	1.000	0.6020	03	2.000	0.6468	11	5.000	0.5967
05	20.000	0.6082	06	50.000	0.5976	07	100.000	0.5823	08	150.000	0.5856
09	200.000	0.5831									

1,2,4-Trimethylbenzene — Average RF — RSD = 4.0 — Average RF = 2.008

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.136	02	1.000	2.017	03	2.000	1.946	11	5.000	1.978
05	20.000	2.150	06	50.000	1.984	07	100.000	1.940	08	150.000	1.970
09	200.000	1.948									

1,2-Dibromo-3-chloropropane (DBCP) — Average RF — RSD = 9.6 — Average RF = 0.08551

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.09639	03	2.000	0.09903	11	5.000	0.08515	05	20.000	0.08214
06	50.000	0.08562	07	100.000	0.08135	08	150.000	0.07871	09	200.000	0.07572

1,2-Dibromoethane — Average RF — RSD = 7.0 — Average RF = 0.1939

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2122	02	1.000	0.2205	03	2.000	0.1817	11	5.000	0.1888
05	20.000	0.1915	06	50.000	0.1950	07	100.000	0.1852	08	150.000	0.1849
09	200.000	0.1852									

1,2-Dichloro-1,1,2-trifluoroethane (CFC — Average RF — RSD = 7.8 — Average RF = 0.5540

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6436	03	2.000	0.5812	11	5.000	0.5598	05	20.000	0.5490
06	50.000	0.5365	07	100.000	0.5251	08	150.000	0.5036	09	200.000	0.5335

1,2-Dichlorobenzene — Average RF — RSD = 4.0 — Average RF = 1.052

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.143	02	1.000	1.044	03	2.000	1.046	11	5.000	0.9911
05	20.000	1.081	06	50.000	1.037	07	100.000	1.019	08	150.000	1.047
09	200.000	1.056									

1,2-Dichloroethane — Average RF — RSD = 8.6 — Average RF = 0.3177

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3748	02	1.000	0.3541	03	2.000	0.3026	11	5.000	0.3055
05	20.000	0.3108	06	50.000	0.3034	07	100.000	0.3034	08	150.000	0.2977
09	200.000	0.3066									

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1,2-Dichloroethane-d4 Average RF RSD = 7.4 Average RF = 0.2890

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3139	03	60.000	0.3083	11	70.000	0.2990	05	100.000	0.2806
07	125.000	0.2726	08	150.000	0.2598						

1,2-Dichloropropane Average RF RSD = 6.4 Average RF = 0.2370

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2534	02	1.000	0.2629	03	2.000	0.2469	11	5.000	0.2127
05	20.000	0.2342	06	50.000	0.2308	07	100.000	0.2266	08	150.000	0.2293
09	200.000	0.2365									

1,3,5-Trichlorobenzene Average RF RSD = 5.7 Average RF = 0.6596

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5925	02	1.000	0.7051	03	2.000	0.6254	11	5.000	0.6646
05	20.000	0.7106	06	50.000	0.6352	07	100.000	0.6598	08	150.000	0.6730
09	200.000	0.6700									

1,3,5-Trimethylbenzene Average RF RSD = 3.3 Average RF = 1.989

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.898	02	1.000	2.063	03	2.000	1.951	11	5.000	1.964
05	20.000	2.109	06	50.000	1.976	07	100.000	1.924	08	150.000	2.006
09	200.000	2.008									

1,3-Dichlorobenzene Average RF RSD = 3.1 Average RF = 1.125

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.156	02	1.000	1.148	03	2.000	1.130	11	5.000	1.078
05	20.000	1.188	06	50.000	1.098	07	100.000	1.088	08	150.000	1.114
09	200.000	1.127									

1,3-Dichloropropane Average RF RSD = 4.4 Average RF = 0.3283

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3028	03	2.000	0.3111	11	5.000	0.3423	05	20.000	0.3363
06	50.000	0.3449	07	100.000	0.3289	08	150.000	0.3298	09	200.000	0.3303

1,4-Dichlorobenzene Average RF RSD = 4.9 Average RF = 1.172

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.197	03	2.000	1.282	11	5.000	1.147	05	20.000	1.223
06	50.000	1.138	07	100.000	1.111	08	150.000	1.135	09	200.000	1.143

1,4-Dioxane Average RF RSD = 18.3 Average RF = 0.001904

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.002602	11	100.000	0.002047	05	400.000	0.001986	06	1000.000	0.001732
07	2000.000	0.001690	08	3000.000	0.001621	09	4000.000	0.001653			

1-Butanol Average RF RSD = 4.8 Average RF = 0.004180

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.004139	03	100.000	0.004571	11	250.000	0.003978	05	1000.000	0.004086
06	2500.000	0.004321	07	5000.000	0.004294	08	7500.000	0.004037	09	10000.000	0.004012

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 4.5 Average RF = 0.3476

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3476	02	1.000	0.3338	03	2.000	0.3253	11	5.000	0.3435
05	20.000	0.3552	06	50.000	0.3327	07	100.000	0.3532	08	150.000	0.3625
09	200.000	0.3747									

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Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte — **Curve Fit** — **Weighting**

2,2-Dichloro-1,1,1-trifluoroethane (CFC — Average RF — RSD = 9.1 — Average RF = 0.6437

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7339	02	1.000	0.7482	03	2.000	0.6365	11	5.000	0.6123
05	20.000	0.6454	06	50.000	0.6226	07	100.000	0.6011	08	150.000	0.5767
09	200.000	0.6168									

2,2-Dichloropropane — Average RF — RSD = 3.4 — Average RF = 0.6467

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6792	03	2.000	0.6332	11	5.000	0.6314	05	20.000	0.6746
06	50.000	0.6502	07	100.000	0.6133	08	150.000	0.6475	09	200.000	0.6443

2,3,6-Trichlorotoluene — Average RF — RSD = 5.8 — Average RF = 0.3395

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3837	03	2.000	0.3189	11	5.000	0.3432	05	20.000	0.3402
06	50.000	0.3309	07	100.000	0.3241	08	150.000	0.3333	09	200.000	0.3420

2,4,5-Trichlorotoluene — Average RF — RSD = 5.1 — Average RF = 0.3948

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4312	03	2.000	0.4019	11	5.000	0.3868	05	20.000	0.4117
06	50.000	0.3676	07	100.000	0.3748	08	150.000	0.3918	09	200.000	0.3927

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut — Average RF — RSD = 2.9 — Average RF = 0.8856

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	0.9161	02	3.000	0.8657	03	6.000	0.8995	11	15.000	0.8877
05	60.000	0.9185	06	150.000	0.8379	07	300.000	0.8734	08	450.000	0.8934
09	600.000	0.8786									

2,4-Dichlorobenzotrifluoride — Average RF — RSD = 4.2 — Average RF = 0.4190

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4043	03	2.000	0.4077	11	5.000	0.4163	05	20.000	0.4405
06	50.000	0.3917	07	100.000	0.4180	08	150.000	0.4380	09	200.000	0.4360

2,5-Dichlorobenzotrifluoride — Average RF — RSD = 5.5 — Average RF = 0.4712

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5053	02	1.000	0.4437	03	2.000	0.4334	11	5.000	0.4663
05	20.000	0.4809	06	50.000	0.4480	07	100.000	0.4698	08	150.000	0.4941
09	200.000	0.4988									

2-Butanone (MEK) — Average RF — RSD = 6.1 — Average RF = 0.09211

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
11	5.000	0.08561	05	20.000	0.09835	06	50.000	0.09705	07	100.000	0.09602
08	150.000	0.08878	09	200.000	0.08686						

2-Chloro-1,3-butadiene — Average RF — RSD = 3.6 — Average RF = 0.7387

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7590	02	1.000	0.7631	03	2.000	0.6952	11	5.000	0.7283
05	20.000	0.7833	06	50.000	0.7184	07	100.000	0.7218	08	150.000	0.7397
09	200.000	0.7398									

2-Chlorobenzotrifluoride — Average RF — RSD = 7.4 — Average RF = 0.7253

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8364	02	1.000	0.7253	03	2.000	0.7206	11	5.000	0.7713
05	20.000	0.7118	06	50.000	0.6499	07	100.000	0.6728	08	150.000	0.7161
09	200.000	0.7233									

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Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte	Curve Fit	Weighting

2-Chloroethyl Vinyl Ether — Average RF — RSD = 5.5 — Average RF = 0.1094

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1038	03	2.000	0.09760	11	5.000	0.1145	05	20.000	0.1135
06	50.000	0.1149	07	100.000	0.1129	08	150.000	0.1085	09	200.000	0.1093

2-Chlorotoluene — Average RF — RSD = 4.3 — Average RF = 1.610

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.664	02	1.000	1.459	03	2.000	1.622	11	5.000	1.607
05	20.000	1.714	06	50.000	1.606	07	100.000	1.578	08	150.000	1.619
09	200.000	1.622									

2-Hexanone — Average RF — RSD = 8.8 — Average RF = 0.1012

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.08814	11	5.000	0.1131	05	20.000	0.1070	06	50.000	0.1081
07	100.000	0.1026	08	150.000	0.09447	09	200.000	0.09523			

2-Methyl-1-propanol — Average RF — RSD = 9.8 — Average RF = 0.006582

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.007989	11	100.000	0.006336	05	400.000	0.006595	06	1000.000	0.006463
07	2000.000	0.006413	08	3000.000	0.006182	09	4000.000	0.006097			

2-Methyl-2-propanol — Average RF — RSD = 4.4 — Average RF = 0.02483

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.02472	11	100.000	0.02398	05	400.000	0.02522	06	1000.000	0.02677
07	2000.000	0.02540	08	3000.000	0.02426	09	4000.000	0.02344			

2-Nitropropane — Average RF — RSD = 10.1 — Average RF = 0.04423

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	2.000	0.04492	03	4.000	0.04844	11	10.000	0.03375	05	40.000	0.04446
06	100.000	0.04572	07	200.000	0.04693	08	300.000	0.04443	09	400.000	0.04518

2-Propanol — Average RF — RSD = 6.1 — Average RF = 0.01392

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.01451	03	40.000	0.01522	11	100.000	0.01324	05	400.000	0.01411
06	1000.000	0.01442	07	2000.000	0.01406	08	3000.000	0.01264	09	4000.000	0.01316

3,4- and 2,3-Dichlorotoluene Coelution — Average RF — RSD = 4.5 — Average RF = 0.9488

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.042	02	2.000	0.9343	03	4.000	0.9098	11	10.000	0.9351
05	40.000	0.9903	06	100.000	0.9071	07	200.000	0.9391	08	300.000	0.9512
09	400.000	0.9301									

3,4-Dichlorobenzotrifluoride — Average RF — RSD = 6.4 — Average RF = 0.4749

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4924	02	1.000	0.4792	03	2.000	0.4701	11	5.000	0.4211
05	20.000	0.4747	06	50.000	0.4431	07	100.000	0.4670	08	150.000	0.5067
09	200.000	0.5193									

3-Chloro-1-propene — Average RF — RSD = 6.5 — Average RF = 0.2213

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2421	03	2.000	0.2152	11	5.000	0.2339	05	20.000	0.2377
06	50.000	0.2182	07	100.000	0.2082	08	150.000	0.2081	09	200.000	0.2069

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Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

3-Chlorobenzotrifluoride Average RF RSD = 4.2 Average RF = 0.3837

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3726	02	1.000	0.3657	03	2.000	0.3756	11	5.000	0.3791
05	20.000	0.3852	06	50.000	0.3697	07	100.000	0.3888	08	150.000	0.4034
09	200.000	0.4135									

3-Chlorotoluene Average RF RSD = 3.8 Average RF = 1.706

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.715	02	1.000	1.610	03	2.000	1.738	11	5.000	1.704
05	20.000	1.781	06	50.000	1.608	07	100.000	1.678	08	150.000	1.787
09	200.000	1.730									

4-Bromofluorobenzene Average RF RSD = 7.4 Average RF = 0.4490

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.4974	03	60.000	0.4701	11	70.000	0.4610	05	100.000	0.4353
07	125.000	0.4224	08	150.000	0.4078						

4-Chlorotoluene Average RF RSD = 3.4 Average RF = 1.990

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.937	02	1.000	1.855	03	2.000	2.070	11	5.000	2.002
05	20.000	2.084	06	50.000	1.999	07	100.000	1.978	08	150.000	1.986
09	200.000	2.004									

4-Isopropyltoluene Average RF RSD = 4.6 Average RF = 1.869

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.753	02	1.000	1.793	03	2.000	1.939	11	5.000	1.908
05	20.000	2.041	06	50.000	1.878	07	100.000	1.814	08	150.000	1.863
09	200.000	1.828									

4-Methyl-2-pentanone Average RF RSD = 3.9 Average RF = 0.1351

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1360	11	5.000	0.1275	05	20.000	0.1387	06	50.000	0.1416
07	100.000	0.1395	08	150.000	0.1309	09	200.000	0.1316			

Acetone Average RF RSD = 10.0 Average RF = 0.07009

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.08328	11	5.000	0.07516	05	20.000	0.07049	06	50.000	0.06483
07	100.000	0.06403	08	150.000	0.06522	09	200.000	0.06761			

Acetonitrile Average RF RSD = 14.4 Average RF = 0.008996

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.009063	11	25.000	0.006571	05	100.000	0.008901	06	250.000	0.008295
07	500.000	0.009578	08	750.000	0.01039	09	1000.000	0.01017			

Acrolein Average RF RSD = 16.1 Average RF = 0.03600

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.04187	03	10.000	0.02303	11	25.000	0.03305	05	100.000	0.03780
06	250.000	0.03879	07	500.000	0.03907	08	750.000	0.03755	09	1000.000	0.03684

Acrylonitrile Average RF RSD = 7.6 Average RF = 0.07966

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.09388	03	10.000	0.07805	11	25.000	0.07323	05	100.000	0.07812
06	250.000	0.07981	07	500.000	0.07928	08	750.000	0.07826	09	1000.000	0.07666

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Weighted

Benzene Average RF RSD = 5.6 Average RF = 0.9909

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.127	02	1.000	0.9977	03	2.000	0.9623	11	5.000	0.9395
05	20.000	1.011	06	50.000	0.9587	07	100.000	0.9572	08	150.000	0.9696
09	200.000	0.9952									

Bromobenzene Average RF RSD = 3.0 Average RF = 0.5788

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5940	02	1.000	0.5945	03	2.000	0.5707	11	5.000	0.5836
05	20.000	0.6063	06	50.000	0.5656	07	100.000	0.5526	08	150.000	0.5653
09	200.000	0.5761									

Bromochloromethane Average RF RSD = 10.8 Average RF = 0.2421

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2996	03	2.000	0.2535	11	5.000	0.2407	05	20.000	0.2421
06	50.000	0.2389	07	100.000	0.2217	08	150.000	0.2219	09	200.000	0.2186

Bromodichloromethane Average RF RSD = 4.7 Average RF = 0.3420

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3514	02	1.000	0.3734	03	2.000	0.3529	11	5.000	0.3440
05	20.000	0.3442	06	50.000	0.3286	07	100.000	0.3221	08	150.000	0.3249
09	200.000	0.3367									

Bromoform Average RF RSD = 2.8 Average RF = 0.2560

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2406	03	2.000	0.2516	11	5.000	0.2630	05	20.000	0.2623
06	50.000	0.2595	07	100.000	0.2545	08	150.000	0.2570	09	200.000	0.2592

Bromomethane Average RF RSD = 7.1 Average RF = 0.2975

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3166	02	1.000	0.2864	03	2.000	0.3135	11	5.000	0.2677
05	20.000	0.2826	06	50.000	0.2797	07	100.000	0.2862	08	150.000	0.3169
09	200.000	0.3276									

Carbon Disulfide Average RF RSD = 6.1 Average RF = 1.178

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.331	02	1.000	1.235	03	2.000	1.181	11	5.000	1.124
05	20.000	1.220	06	50.000	1.119	07	100.000	1.116	08	150.000	1.141
09	200.000	1.140									

Carbon Tetrachloride Average RF RSD = 3.5 Average RF = 0.1088

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1107	03	2.000	0.1140	11	5.000	0.1070	05	20.000	0.1103
06	50.000	0.1049	07	100.000	0.1035	08	150.000	0.1071	09	200.000	0.1129

Chlorobenzene Average RF RSD = 5.3 Average RF = 0.8139

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9225	02	1.000	0.7884	03	2.000	0.7875	11	5.000	0.7847
05	20.000	0.8294	06	50.000	0.8067	07	100.000	0.7906	08	150.000	0.8006
09	200.000	0.8146									

Chloroethane Average RF RSD = 8.9 Average RF = 0.3477

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4106	02	1.000	0.3816	03	2.000	0.3434	11	5.000	0.3124
05	20.000	0.3572	06	50.000	0.3343	07	100.000	0.3223	08	150.000	0.3308
09	200.000	0.3365									

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Chloroform Average RF RSD = 6.2 Average RF = 0.7154

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.7762	03	2.000	0.7808	11	5.000	0.7185	05	20.000	0.7246
06	50.000	0.6814	07	100.000	0.6601	08	150.000	0.6853	09	200.000	0.6962

Chloromethane Average RF RSD = 6.6 Average RF = 0.4149

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4680	02	1.000	0.4425	03	2.000	0.4223	11	5.000	0.3852
05	20.000	0.4232	06	50.000	0.4059	07	100.000	0.3844	08	150.000	0.4063
09	200.000	0.3960									

Cyclohexane Average RF RSD = 8.6 Average RF = 0.2271

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2681	03	2.000	0.2448	11	5.000	0.2183	05	20.000	0.2178
06	50.000	0.2185	07	100.000	0.2148	08	150.000	0.2103	09	200.000	0.2242

Cyclohexanone Average RF RSD = 3.8 Average RF = 0.01376

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.01410	03	40.000	0.01374	11	100.000	0.01393	05	400.000	0.01405
06	1000.000	0.01459	07	2000.000	0.01351	08	3000.000	0.01313	09	4000.000	0.01303

Dibromochloromethane Average RF RSD = 9.3 Average RF = 0.2472

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3000	02	1.000	0.2509	03	2.000	0.2159	11	5.000	0.2281
05	20.000	0.2491	06	50.000	0.2506	07	100.000	0.2410	08	150.000	0.2443
09	200.000	0.2447									

Dibromofluoromethane Average RF RSD = 6.3 Average RF = 0.2706

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.2935	03	60.000	0.2817	11	70.000	0.2815	05	100.000	0.2561
07	125.000	0.2586	08	150.000	0.2521						

Dibromomethane Average RF RSD = 8.9 Average RF = 0.1277

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1450	03	2.000	0.1471	11	5.000	0.1204	05	20.000	0.1227
06	50.000	0.1218	07	100.000	0.1210	08	150.000	0.1201	09	200.000	0.1234

Dichlorodifluoromethane (CFC 12) Average RF RSD = 6.3 Average RF = 0.4266

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4455	02	1.000	0.4374	03	2.000	0.3751	11	5.000	0.3960
05	20.000	0.4593	06	50.000	0.4379	07	100.000	0.4149	08	150.000	0.4299
09	200.000	0.4437									

Dichlorofluoromethane (CFC 21) Average RF RSD = 4.7 Average RF = 0.8681

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9524	02	1.000	0.9004	03	2.000	0.8773	11	5.000	0.8514
05	20.000	0.8769	06	50.000	0.8609	07	100.000	0.8337	08	150.000	0.8128
09	200.000	0.8466									

Dichloromethane Average RF RSD = 6.9 Average RF = 0.3908

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4546	03	2.000	0.3951	11	5.000	0.3823	05	20.000	0.3876
06	50.000	0.3790	07	100.000	0.3683	08	150.000	0.3764	09	200.000	0.3830

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte	Curve Fit	Weighting									
Diethyl Ether	Average RF			RSD = 7.1		Average RF = 0.3453					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3968	03	2.000	0.3651	11	5.000	0.3399	05	20.000	0.3386
06	50.000	0.3416	07	100.000	0.3285	08	150.000	0.3254	09	200.000	0.3266
Diisopropyl Ether	Average RF			RSD = 5.0		Average RF = 1.180					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.326	02	1.000	1.213	03	2.000	1.160	11	5.000	1.160
05	20.000	1.147	06	50.000	1.144	07	100.000	1.138	08	150.000	1.156
09	200.000	1.177									
Ethyl Methacrylate	Average RF			RSD = 9.8		Average RF = 0.2473					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3026	02	1.000	0.2252	03	2.000	0.2466	11	5.000	0.2141
05	20.000	0.2452	06	50.000	0.2511	07	100.000	0.2506	08	150.000	0.2442
09	200.000	0.2462									
Ethyl tert-Butyl Ether	Average RF			RSD = 6.0		Average RF = 1.176					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.338	02	1.000	1.214	03	2.000	1.218	11	5.000	1.139
05	20.000	1.145	06	50.000	1.146	07	100.000	1.132	08	150.000	1.124
09	200.000	1.129									
Ethylbenzene	Average RF			RSD = 6.7		Average RF = 0.4406					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4957	02	1.000	0.4425	03	2.000	0.3886	11	5.000	0.4312
05	20.000	0.4656	06	50.000	0.4347	07	100.000	0.4241	08	150.000	0.4330
09	200.000	0.4499									
Hexachlorobutadiene	Average RF			RSD = 10.6		Average RF = 0.2326					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2686	03	2.000	0.2721	11	5.000	0.2119	05	20.000	0.2328
06	50.000	0.2173	07	100.000	0.2085	08	150.000	0.2243	09	200.000	0.2249
Iodomethane	Linear	Equal		R2 = 0.9990		Y = 0.4618 X + -0.01136					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2156	11	5.000	0.2473	05	20.000	0.3939	06	50.000	0.4479
07	100.000	0.4788	08	150.000	0.4603	09	200.000	0.4526			
Isopropylbenzene (Cumene)	Average RF			RSD = 4.3		Average RF = 2.321					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.355	02	1.000	2.388	03	2.000	2.464	11	5.000	2.245
05	20.000	2.463	06	50.000	2.269	07	100.000	2.216	08	150.000	2.266
09	200.000	2.225									
Methacrylonitrile	Average RF			RSD = 11.6		Average RF = 0.1050					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1183	03	2.000	0.1284	11	5.000	0.1016	05	20.000	0.1038
06	50.000	0.1008	07	100.000	0.09777	08	150.000	0.09608	09	200.000	0.09293
Methyl Acetate	Average RF			RSD = 6.7		Average RF = 0.1526					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1631	03	2.000	0.1720	11	5.000	0.1472	05	20.000	0.1472
06	50.000	0.1539	07	100.000	0.1501	08	150.000	0.1400	09	200.000	0.1475

00075

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte	Curve Fit	Weighting

Methyl Methacrylate — Average RF — RSD = 4.6 — Average RF = 0.1156

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1144	03	2.000	0.1258	11	5.000	0.1078	05	20.000	0.1185
06	50.000	0.1178	07	100.000	0.1155	08	150.000	0.1120	09	200.000	0.1132

Methyl tert-Butyl Ether — Average RF — RSD = 3.0 — Average RF = 0.9554

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9069	02	1.000	0.9273	03	2.000	0.9404	11	5.000	0.9981
05	20.000	0.9673	06	50.000	0.9848	07	100.000	0.9689	08	150.000	0.9553
09	200.000	0.9493									

Methylcyclohexane — Average RF — RSD = 3.5 — Average RF = 0.2502

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2346	03	2.000	0.2517	11	5.000	0.2495	05	20.000	0.2567
06	50.000	0.2508	07	100.000	0.2503	08	150.000	0.2435	09	200.000	0.2644

Naphthalene — Average RF — RSD = 6.5 — Average RF = 1.268

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.455	02	1.000	1.261	03	2.000	1.259	11	5.000	1.207
05	20.000	1.292	06	50.000	1.306	07	100.000	1.251	08	150.000	1.203
09	200.000	1.175									

Propionitrile — Average RF — RSD = 7.8 — Average RF = 0.02812

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.03121	11	25.000	0.02461	05	100.000	0.02862	06	250.000	0.03002
07	500.000	0.02852	08	750.000	0.02718	09	1000.000	0.02671			

Styrene — Average RF — RSD = 2.1 — Average RF = 0.8926

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8765	02	1.000	0.8915	03	2.000	0.8708	11	5.000	0.8688
05	20.000	0.9049	06	50.000	0.8984	07	100.000	0.8885	08	150.000	0.9107
09	200.000	0.9231									

Tetrachloroethene (PCE) — Average RF — RSD = 8.5 — Average RF = 0.2293

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2569	02	1.000	0.2535	03	2.000	0.2439	11	5.000	0.2031
05	20.000	0.2393	06	50.000	0.2123	07	100.000	0.2128	08	150.000	0.2192
09	200.000	0.2230									

Tetrahydrofuran (THF) — Average RF — RSD = 13.7 — Average RF = 0.06265

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.06791	11	5.000	0.07959	05	20.000	0.06224	06	50.000	0.05859
07	100.000	0.05817	08	150.000	0.05653	09	200.000	0.05550			

Toluene — Average RF — RSD = 2.1 — Average RF = 1.137

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.163	02	1.000	1.174	03	2.000	1.129	11	5.000	1.112
05	20.000	1.162	06	50.000	1.118	07	100.000	1.112	08	150.000	1.123
09	200.000	1.138									

Toluene-d8 — Average RF — RSD = 7.5 — Average RF = 1.182

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.271	03	60.000	1.262	11	70.000	1.244	05	100.000	1.142
07	125.000	1.104	08	150.000	1.067						

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte	Curve Fit	Weighting									
Trichloroethene (TCE)	Average RF			RSD = 3.9		Average RF = 0.2675					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2848	02	1.000	0.2560	03	2.000	0.2566	11	5.000	0.2588
05	20.000	0.2766	06	50.000	0.2630	07	100.000	0.2618	08	150.000	0.2723
09	200.000	0.2775									
Trichlorofluoromethane (CFC 11)	Average RF			RSD = 4.4		Average RF = 0.7809					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7916	02	1.000	0.8475	03	2.000	0.8023	11	5.000	0.7625
05	20.000	0.8007	06	50.000	0.7795	07	100.000	0.7284	08	150.000	0.7534
09	200.000	0.7621									
Vinyl Acetate	Average RF			RSD = 14.2		Average RF = 0.08139					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1089	03	2.000	0.07806	11	5.000	0.07872	05	20.000	0.08296
06	50.000	0.07978	07	100.000	0.07629	08	150.000	0.07338	09	200.000	0.07303
Vinyl Chloride	Average RF			RSD = 9.4		Average RF = 0.5240					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6344	02	1.000	0.5555	03	2.000	0.4732	11	5.000	0.4801
05	20.000	0.5419	06	50.000	0.5194	07	100.000	0.4934	08	150.000	0.5078
09	200.000	0.5103									
cis-1,2-Dichloroethene	Average RF			RSD = 3.8		Average RF = 0.4380					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4636	02	1.000	0.4647	03	2.000	0.4332	11	5.000	0.4246
05	20.000	0.4310	06	50.000	0.4293	07	100.000	0.4155	08	150.000	0.4376
09	200.000	0.4426									
cis-1,3-Dichloropropene	Average RF			RSD = 3.4		Average RF = 0.3982					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4282	02	1.000	0.4038	03	2.000	0.3966	11	5.000	0.3768
05	20.000	0.3960	06	50.000	0.3928	07	100.000	0.3904	08	150.000	0.3966
09	200.000	0.4022									
m,p-Xylenes	Average RF			RSD = 2.7		Average RF = 0.5370					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5477	02	2.000	0.5477	03	4.000	0.5216	11	10.000	0.5122
05	40.000	0.5523	06	100.000	0.5415	07	200.000	0.5224	08	300.000	0.5375
09	400.000	0.5500									
n-Butyl Acetate	Average RF			RSD = 5.9		Average RF = 0.2659					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2929	02	1.000	0.2808	03	2.000	0.2596	11	5.000	0.2553
05	20.000	0.2670	06	50.000	0.2754	07	100.000	0.2665	08	150.000	0.2409
09	200.000	0.2544									
n-Butylbenzene	Average RF			RSD = 5.2		Average RF = 1.677					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.838	02	1.000	1.587	03	2.000	1.564	11	5.000	1.660
05	20.000	1.763	06	50.000	1.658	07	100.000	1.610	08	150.000	1.711
09	200.000	1.701									

Initial Calibration - Detailed Report

Calibration ID: RC1500064 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Average RF

n-Heptane Average RF RSD = 6.6 Average RF = 0.2111

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2370	03	2.000	0.2265	11	5.000	0.1995	05	20.000	0.2011
06	50.000	0.2048	07	100.000	0.1985	08	150.000	0.2087	09	200.000	0.2124

n-Propylbenzene Average RF RSD = 4.5 Average RF = 2.612

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.642	02	1.000	2.566	03	2.000	2.681	11	5.000	2.657
05	20.000	2.850	06	50.000	2.625	07	100.000	2.510	08	150.000	2.534
09	200.000	2.446									

o-Xylene Average RF RSD = 4.8 Average RF = 0.5200

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5425	02	1.000	0.4752	03	2.000	0.4911	11	5.000	0.5207
05	20.000	0.5375	06	50.000	0.5225	07	100.000	0.5087	08	150.000	0.5290
09	200.000	0.5530									

sec-Butylbenzene Average RF RSD = 6.3 Average RF = 2.197

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.503	02	1.000	2.107	03	2.000	2.247	11	5.000	2.128
05	20.000	2.317	06	50.000	2.170	07	100.000	2.084	08	150.000	2.129
09	200.000	2.086									

tert-Amyl Methyl Ether Average RF RSD = 5.3 Average RF = 1.026

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.069	02	1.000	1.152	03	2.000	0.9731	11	5.000	0.9823
05	20.000	1.011	06	50.000	1.030	07	100.000	1.007	08	150.000	1.006
09	200.000	1.002									

tert-Butylbenzene Average RF RSD = 6.1 Average RF = 1.602

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.819	02	1.000	1.528	03	2.000	1.547	11	5.000	1.641
05	20.000	1.684	06	50.000	1.556	07	100.000	1.510	08	150.000	1.565
09	200.000	1.572									

trans-1,2-Dichloroethene Average RF RSD = 4.0 Average RF = 0.4109

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4072	02	1.000	0.4403	03	2.000	0.4316	11	5.000	0.4109
05	20.000	0.4127	06	50.000	0.3946	07	100.000	0.3864	08	150.000	0.4057
09	200.000	0.4086									

trans-1,3-Dichloropropene Average RF RSD = 2.6 Average RF = 0.3408

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3399	02	1.000	0.3435	03	2.000	0.3391	11	5.000	0.3195
05	20.000	0.3431	06	50.000	0.3438	07	100.000	0.3450	08	150.000	0.3419
09	200.000	0.3511									

trans-1,4-Dichloro-2-butene Average RF RSD = 7.3 Average RF = 0.1249

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1441	03	2.000	0.1115	11	5.000	0.1270	05	20.000	0.1216
06	50.000	0.1247	07	100.000	0.1246	08	150.000	0.1234	09	200.000	0.1222

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.4	02	1.000	0.90	-9.7	03	2.000	2.15	7.5
11	5.000	4.62	-7.5	05	20.000	20.27	1.3	06	50.000	49.22	-1.6
07	100.000	102.06	2.1	08	150.000	157.40	4.9	09	200.000	212.83	6.4

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.8	02	1.000	1.05	4.7	03	2.000	2.03	1.6
11	5.000	4.69	-6.1	05	20.000	19.60	-2.0	06	50.000	47.62	-4.8
07	100.000	91.74	-8.3	08	150.000	143.89	-4.1	09	200.000	192.33	-3.8

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.4	02	1.000	0.96	-4.4	03	2.000	1.96	-1.9
11	5.000	4.82	-3.5	05	20.000	20.46	2.3	06	50.000	49.26	-1.5
07	100.000	97.77	-2.2	08	150.000	146.80	-2.1	09	200.000	191.69	-4.2

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	9.0	02	1.000	1.03	3.2	03	2.000	1.92	-4.0
11	5.000	5.01	0.2	05	20.000	19.86	-0.7	06	50.000	48.54	-2.9
07	100.000	97.82	-2.2	08	150.000	147.43	-1.7	09	200.000	198.28	-0.9

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.10	9.7	03	2.000	1.93	-3.6	11	5.000	5.06	1.1
05	20.000	20.62	3.1	06	50.000	47.52	-5.0	07	100.000	93.63	-6.4
08	150.000	148.83	-0.8	09	200.000	203.65	1.8				

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.2	02	1.000	1.03	2.8	03	2.000	2.01	0.5
11	5.000	4.85	-3.1	05	20.000	20.05	0.3	06	50.000	48.21	-3.6
07	100.000	94.23	-5.8	08	150.000	144.57	-3.6	09	200.000	196.38	-1.8

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.4	02	1.000	1.17	16.9	03	2.000	2.06	3.2
11	5.000	4.61	-7.7	05	20.000	19.86	-0.7	06	50.000	47.65	-4.7
07	100.000	93.01	-7.0	08	150.000	148.86	-0.8	09	200.000	204.40	2.2

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.8	02	1.000	1.03	2.5	03	2.000	1.90	-4.8
11	5.000	4.96	-0.9	05	20.000	19.39	-3.0	06	50.000	47.12	-5.8
07	100.000	92.99	-7.0	08	150.000	144.89	-3.4	09	200.000	199.17	-0.4

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Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.95	-4.8	03	2.000	2.09	4.6	11	5.000	5.05	1.1
05	20.000	20.74	3.7	06	50.000	50.67	1.3	07	100.000	99.23	-0.8
08	150.000	146.00	-2.7	09	200.000	195.05	-2.5				

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.25	25.3	03	2.000	1.98	-1.2	11	5.000	5.00	0.0
05	20.000	19.67	-1.7	06	50.000	47.95	-4.1	07	100.000	95.96	-4.0
08	150.000	140.46	-6.4	09	200.000	184.12	-7.9				

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.0	02	1.000	1.00	-0.3	03	2.000	2.14	7.1
11	5.000	4.94	-1.2	05	20.000	20.14	0.7	06	50.000	49.47	-1.1
07	100.000	96.40	-3.6	08	150.000	145.41	-3.1	09	200.000	193.05	-3.5

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.4	02	1.000	1.00	0.5	03	2.000	1.94	-3.1
11	5.000	4.93	-1.5	05	20.000	21.42	7.1	06	50.000	49.41	-1.2
07	100.000	96.61	-3.4	08	150.000	147.21	-1.9	09	200.000	194.03	-3.0

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.13	12.7	03	2.000	2.32	15.8	11	5.000	4.98	-0.4
05	20.000	19.21	-3.9	06	50.000	50.06	0.1	07	100.000	95.13	-4.9
08	150.000	138.07	-8.0	09	200.000	177.10	-11.5				

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.4	02	1.000	1.14	13.7	03	2.000	1.87	-6.3
11	5.000	4.87	-2.6	05	20.000	19.75	-1.2	06	50.000	50.28	0.6
07	100.000	95.50	-4.5	08	150.000	143.06	-4.6	09	200.000	191.10	-4.5

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.16	16.2	03	2.000	2.10	4.9	11	5.000	5.05	1.0
05	20.000	19.82	-0.9	06	50.000	48.42	-3.2	07	100.000	94.78	-5.2
08	150.000	136.35	-9.1	09	200.000	192.59	-3.7				

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.7	02	1.000	0.99	-0.8	03	2.000	1.99	-0.6
11	5.000	4.71	-5.8	05	20.000	20.57	2.8	06	50.000	49.32	-1.4
07	100.000	96.93	-3.1	08	150.000	149.41	-0.4	09	200.000	200.78	0.4

00080

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.0	02	1.000	1.11	11.5	03	2.000	1.91	-4.7
11	5.000	4.81	-3.8	05	20.000	19.57	-2.2	06	50.000	47.75	-4.5
07	100.000	95.52	-4.5	08	150.000	140.59	-6.3	09	200.000	193.04	-3.5

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	54.30	8.6	03	60.000	64.00	6.7	11	70.000	72.42	3.5
05	100.000	97.10	-2.9	07	125.000	117.88	-5.7	08	150.000	134.83	-10.1

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.9	02	1.000	1.11	10.9	03	2.000	2.08	4.2
11	5.000	4.49	-10.3	05	20.000	19.76	-1.2	06	50.000	48.69	-2.6
07	100.000	95.61	-4.4	08	150.000	145.11	-3.3	09	200.000	199.52	-0.2

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.2	02	1.000	1.07	6.9	03	2.000	1.90	-5.2
11	5.000	5.04	0.8	05	20.000	21.55	7.7	06	50.000	48.15	-3.7
07	100.000	100.04	0.0	08	150.000	153.04	2.0	09	200.000	203.16	1.6

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.6	02	1.000	1.04	3.7	03	2.000	1.96	-1.9
11	5.000	4.94	-1.3	05	20.000	21.21	6.0	06	50.000	49.69	-0.6
07	100.000	96.72	-3.3	08	150.000	151.29	0.9	09	200.000	201.94	1.0

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.7	02	1.000	1.02	2.0	03	2.000	2.01	0.4
11	5.000	4.79	-4.2	05	20.000	21.12	5.6	06	50.000	48.80	-2.4
07	100.000	96.68	-3.3	08	150.000	148.51	-1.0	09	200.000	200.27	0.1

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.92	-7.8	03	2.000	1.90	-5.2	11	5.000	5.21	4.3
05	20.000	20.49	2.4	06	50.000	52.53	5.1	07	100.000	100.18	0.2
08	150.000	150.68	0.5	09	200.000	201.24	0.6				

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.02	2.2	03	2.000	2.19	9.4	11	5.000	4.90	-2.1
05	20.000	20.87	4.3	06	50.000	48.54	-2.9	07	100.000	94.80	-5.2
08	150.000	145.24	-3.2	09	200.000	195.08	-2.5				

00081

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	54.65	36.6	11	100.000	107.47	7.5	05	400.000	417.07	4.3
06	1000.000	909.32	-9.1	07	2000.000	1,775.13	-11.2	08	3000.000	2,553.83	-14.9
09	4000.000	3,472.87	-13.2								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	49.51	-1.0	03	100.000	109.36	9.4	11	250.000	237.95	-4.8
05	1000.000	977.63	-2.2	06	2500.000	2,584.54	3.4	07	5000.000	5,136.73	2.7
08	7500.000	7,243.11	-3.4	09	10000.000	9,598.86	-4.0				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.0	02	1.000	0.96	-4.0	03	2.000	1.87	-6.4
11	5.000	4.94	-1.2	05	20.000	20.44	2.2	06	50.000	47.86	-4.3
07	100.000	101.60	1.6	08	150.000	156.43	4.3	09	200.000	215.57	7.8

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.0	02	1.000	1.16	16.2	03	2.000	1.98	-1.1
11	5.000	4.76	-4.9	05	20.000	20.05	0.3	06	50.000	48.36	-3.3
07	100.000	93.38	-6.6	08	150.000	134.39	-10.4	09	200.000	191.62	-4.2

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.05	5.0	03	2.000	1.96	-2.1	11	5.000	4.88	-2.4
05	20.000	20.86	4.3	06	50.000	50.27	0.5	07	100.000	94.83	-5.2
08	150.000	150.18	0.1	09	200.000	199.26	-0.4				

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.13	13.0	03	2.000	1.88	-6.1	11	5.000	5.05	1.1
05	20.000	20.04	0.2	06	50.000	48.73	-2.5	07	100.000	95.45	-4.6
08	150.000	147.24	-1.8	09	200.000	201.45	0.7				

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.09	9.2	03	2.000	2.04	1.8	11	5.000	4.90	-2.0
05	20.000	20.86	4.3	06	50.000	46.56	-6.9	07	100.000	94.93	-5.1
08	150.000	148.84	-0.8	09	200.000	198.92	-0.5				

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.55	3.4	02	3.000	2.93	-2.3	03	6.000	6.09	1.6
11	15.000	15.03	0.2	05	60.000	62.23	3.7	06	150.000	141.91	-5.4
07	300.000	295.86	-1.4	08	450.000	453.92	0.9	09	600.000	595.21	-0.8

00082

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-3.5	03	2.000	1.95	-2.7	11	5.000	4.97	-0.6
05	20.000	21.02	5.1	06	50.000	46.73	-6.5	07	100.000	99.74	-0.3
08	150.000	156.78	4.5	09	200.000	208.07	4.0				

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.2	02	1.000	0.94	-5.8	03	2.000	1.84	-8.0
11	5.000	4.95	-1.0	05	20.000	20.41	2.1	06	50.000	47.55	-4.9
07	100.000	99.72	-0.3	08	150.000	157.30	4.9	09	200.000	211.73	5.9

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
11	5.000	4.65	-7.1	05	20.000	21.36	6.8	06	50.000	52.68	5.4
07	100.000	104.24	4.2	08	150.000	144.57	-3.6	09	200.000	188.60	-5.7

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.7	02	1.000	1.03	3.3	03	2.000	1.88	-5.9
11	5.000	4.93	-1.4	05	20.000	21.21	6.0	06	50.000	48.62	-2.8
07	100.000	97.70	-2.3	08	150.000	150.20	0.1	09	200.000	200.29	0.1

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	15.3	02	1.000	1.00	0.0	03	2.000	1.99	-0.6
11	5.000	5.32	6.3	05	20.000	19.63	-1.9	06	50.000	44.81	-10.4
07	100.000	92.76	-7.2	08	150.000	148.09	-1.3	09	200.000	199.46	-0.3

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.95	-5.1	03	2.000	1.78	-10.8	11	5.000	5.23	4.7
05	20.000	20.76	3.8	06	50.000	52.54	5.1	07	100.000	103.18	3.2
08	150.000	148.82	-0.8	09	200.000	199.92	0.0				

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.4	02	1.000	0.91	-9.4	03	2.000	2.01	0.7
11	5.000	4.99	-0.2	05	20.000	21.29	6.5	06	50.000	49.87	-0.3
07	100.000	98.02	-2.0	08	150.000	150.88	0.6	09	200.000	201.43	0.7

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.74	-12.9	11	5.000	5.58	11.7	05	20.000	21.13	5.7
06	50.000	53.40	6.8	07	100.000	101.35	1.4	08	150.000	139.99	-6.7
09	200.000	188.15	-5.9								

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	48.55	21.4	11	100.000	96.27	-3.7	05	400.000	400.80	0.2
06	1000.000	981.84	-1.8	07	2000.000	1,948.56	-2.6	08	3000.000	2,817.52	-6.1
09	4000.000	3,705.33	-7.4								

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	39.82	-0.4	11	100.000	96.60	-3.4	05	400.000	406.35	1.6
06	1000.000	1,078.35	7.8	07	2000.000	2,046.14	2.3	08	3000.000	2,931.27	-2.3
09	4000.000	3,776.24	-5.6								

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	2.000	2.03	1.6	03	4.000	4.38	9.5	11	10.000	7.63	-23.7
05	40.000	40.21	0.5	06	100.000	103.37	3.4	07	200.000	212.21	6.1
08	300.000	301.35	0.5	09	400.000	408.59	2.1				

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	20.85	4.3	03	40.000	43.73	9.3	11	100.000	95.10	-4.9
05	400.000	405.37	1.3	06	1000.000	1,035.83	3.6	07	2000.000	2,020.68	1.0
08	3000.000	2,723.99	-9.2	09	4000.000	3,783.05	-5.4				

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.10	9.8	02	2.000	1.97	-1.5	03	4.000	3.84	-4.1
11	10.000	9.86	-1.4	05	40.000	41.75	4.4	06	100.000	95.61	-4.4
07	200.000	197.95	-1.0	08	300.000	300.75	0.3	09	400.000	392.12	-2.0

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.7	02	1.000	1.01	0.9	03	2.000	1.98	-1.0
11	5.000	4.43	-11.3	05	20.000	19.99	0.0	06	50.000	46.66	-6.7
07	100.000	98.34	-1.7	08	150.000	160.06	6.7	09	200.000	218.73	9.4

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.09	9.4	03	2.000	1.94	-2.8	11	5.000	5.29	5.7
05	20.000	21.48	7.4	06	50.000	49.31	-1.4	07	100.000	94.10	-5.9
08	150.000	141.08	-5.9	09	200.000	187.00	-6.5				

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.9	02	1.000	0.95	-4.7	03	2.000	1.96	-2.1
11	5.000	4.94	-1.2	05	20.000	20.07	0.4	06	50.000	48.17	-3.7
07	100.000	101.31	1.3	08	150.000	157.70	5.1	09	200.000	215.51	7.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.5	02	1.000	0.94	-5.6	03	2.000	2.04	1.9
11	5.000	5.00	-0.1	05	20.000	20.89	4.4	06	50.000	47.13	-5.7
07	100.000	98.36	-1.6	08	150.000	157.16	4.8	09	200.000	202.90	1.5

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	55.39	10.8	03	60.000	62.82	4.7	11	70.000	71.87	2.7
05	100.000	96.95	-3.0	07	125.000	117.59	-5.9	08	150.000	136.23	-9.2

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.7	02	1.000	0.93	-6.8	03	2.000	2.08	4.0
11	5.000	5.03	0.6	05	20.000	20.94	4.7	06	50.000	50.21	0.4
07	100.000	99.37	-0.6	08	150.000	149.65	-0.2	09	200.000	201.32	0.7

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.2	02	1.000	0.96	-4.0	03	2.000	2.08	3.8
11	5.000	5.11	2.1	05	20.000	21.84	9.2	06	50.000	50.25	0.5
07	100.000	97.10	-2.9	08	150.000	149.55	-0.3	09	200.000	195.61	-2.2

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.01	0.6	11	5.000	4.72	-5.7	05	20.000	20.53	2.7
06	50.000	52.41	4.8	07	100.000	103.21	3.2	08	150.000	145.32	-3.1
09	200.000	194.85	-2.6								

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.38	18.8	11	5.000	5.36	7.2	05	20.000	20.12	0.6
06	50.000	46.25	-7.5	07	100.000	91.35	-8.6	08	150.000	139.57	-7.0
09	200.000	192.94	-3.5								

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	10.07	0.7	11	25.000	18.26	-27.0	05	100.000	98.95	-1.1
06	250.000	230.53	-7.8	07	500.000	532.35	6.5	08	750.000	866.51	15.5
09	1000.000	1,130.52	13.1								

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	5.82	16.3	03	10.000	6.40	-36.0	11	25.000	22.95	-8.2
05	100.000	105.00	5.0	06	250.000	269.37	7.7	07	500.000	542.60	8.5
08	750.000	782.39	4.3	09	1000.000	1,023.29	2.3				

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	5.89	17.9	03	10.000	9.80	-2.0	11	25.000	22.98	-8.1
05	100.000	98.07	-1.9	06	250.000	250.47	0.2	07	500.000	497.60	-0.5
08	750.000	736.77	-1.8	09	1000.000	962.38	-3.8				

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.7	02	1.000	1.01	0.7	03	2.000	1.94	-2.9
11	5.000	4.74	-5.2	05	20.000	20.41	2.1	06	50.000	48.38	-3.2
07	100.000	96.60	-3.4	08	150.000	146.77	-2.2	09	200.000	200.86	0.4

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.03	2.7	03	2.000	1.97	-1.4
11	5.000	5.04	0.8	05	20.000	20.95	4.8	06	50.000	48.86	-2.3
07	100.000	95.49	-4.5	08	150.000	146.52	-2.3	09	200.000	199.09	-0.5

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.24	23.7	03	2.000	2.09	4.7	11	5.000	4.97	-0.6
05	20.000	20.00	0.0	06	50.000	49.33	-1.3	07	100.000	91.58	-8.4
08	150.000	137.48	-8.3	09	200.000	180.60	-9.7				

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.7	02	1.000	1.09	9.2	03	2.000	2.06	3.2
11	5.000	5.03	0.6	05	20.000	20.13	0.6	06	50.000	48.04	-3.9
07	100.000	94.17	-5.8	08	150.000	142.50	-5.0	09	200.000	196.87	-1.6

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.94	-6.0	03	2.000	1.97	-1.7	11	5.000	5.14	2.8
05	20.000	20.49	2.5	06	50.000	50.69	1.4	07	100.000	99.43	-0.6
08	150.000	150.62	0.4	09	200.000	202.54	1.3				

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.4	02	1.000	0.96	-3.7	03	2.000	2.11	5.4
11	5.000	4.50	-10.0	05	20.000	19.00	-5.0	06	50.000	47.00	-6.0
07	100.000	96.20	-3.8	08	150.000	159.82	6.5	09	200.000	220.25	10.1

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.9	02	1.000	1.05	4.8	03	2.000	2.00	0.2
11	5.000	4.77	-4.6	05	20.000	20.71	3.5	06	50.000	47.48	-5.0
07	100.000	94.74	-5.3	08	150.000	145.22	-3.2	09	200.000	193.43	-3.3

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.02	1.7	03	2.000	2.10	4.8	11	5.000	4.92	-1.6
05	20.000	20.28	1.4	06	50.000	48.18	-3.6	07	100.000	95.14	-4.9
08	150.000	147.70	-1.5	09	200.000	207.54	3.8				

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.3	02	1.000	0.97	-3.1	03	2.000	1.94	-3.2
11	5.000	4.82	-3.6	05	20.000	20.38	1.9	06	50.000	49.56	-0.9
07	100.000	97.14	-2.9	08	150.000	147.55	-1.6	09	200.000	200.16	0.1

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.1	02	1.000	1.10	9.7	03	2.000	1.98	-1.2
11	5.000	4.49	-10.1	05	20.000	20.55	2.7	06	50.000	48.08	-3.8
07	100.000	92.70	-7.3	08	150.000	142.71	-4.9	09	200.000	193.60	-3.2

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.09	8.5	03	2.000	2.18	9.1	11	5.000	5.02	0.4
05	20.000	20.26	1.3	06	50.000	47.62	-4.8	07	100.000	92.28	-7.7
08	150.000	143.69	-4.2	09	200.000	194.63	-2.7				

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.8	02	1.000	1.07	6.7	03	2.000	2.04	1.8
11	5.000	4.64	-7.2	05	20.000	20.40	2.0	06	50.000	48.92	-2.2
07	100.000	92.66	-7.3	08	150.000	146.91	-2.1	09	200.000	190.88	-4.6

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.18	18.1	03	2.000	2.16	7.8	11	5.000	4.81	-3.9
05	20.000	19.19	-4.1	06	50.000	48.11	-3.8	07	100.000	94.59	-5.4
08	150.000	138.88	-7.4	09	200.000	197.44	-1.3				

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	20.49	2.5	03	40.000	39.94	-0.2	11	100.000	101.25	1.2
05	400.000	408.44	2.1	06	1000.000	1,060.59	6.1	07	2000.000	1,963.39	-1.8
08	3000.000	2,861.78	-4.6	09	4000.000	3,788.58	-5.3				

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	21.4	02	1.000	1.02	1.5	03	2.000	1.75	-12.6
11	5.000	4.61	-7.7	05	20.000	20.15	0.8	06	50.000	50.68	1.4
07	100.000	97.52	-2.5	08	150.000	148.23	-1.2	09	200.000	198.01	-1.0

00087

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	54.23	8.5	03	60.000	62.47	4.1	11	70.000	72.82	4.0
05	100.000	94.64	-5.4	07	125.000	119.49	-4.4	08	150.000	139.74	-6.8

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.14	13.6	03	2.000	2.30	15.2	11	5.000	4.71	-5.7
05	20.000	19.22	-3.9	06	50.000	47.69	-4.6	07	100.000	94.75	-5.2
08	150.000	141.15	-5.9	09	200.000	193.32	-3.3				

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.4	02	1.000	1.03	2.5	03	2.000	1.76	-12.1
11	5.000	4.64	-7.2	05	20.000	21.53	7.7	06	50.000	51.32	2.6
07	100.000	97.26	-2.7	08	150.000	151.15	0.8	09	200.000	207.98	4.0

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.7	02	1.000	1.04	3.7	03	2.000	2.02	1.1
11	5.000	4.90	-1.9	05	20.000	20.20	1.0	06	50.000	49.59	-0.8
07	100.000	96.04	-4.0	08	150.000	140.45	-6.4	09	200.000	195.07	-2.5

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.16	16.3	03	2.000	2.02	1.1	11	5.000	4.89	-2.2
05	20.000	19.84	-0.8	06	50.000	48.50	-3.0	07	100.000	94.24	-5.8
08	150.000	144.48	-3.7	09	200.000	196.01	-2.0				

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.15	14.9	03	2.000	2.11	5.7	11	5.000	4.92	-1.6
05	20.000	19.61	-1.9	06	50.000	49.46	-1.1	07	100.000	95.14	-4.9
08	150.000	141.37	-5.8	09	200.000	189.16	-5.4				

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.4	02	1.000	1.03	2.8	03	2.000	1.97	-1.7
11	5.000	4.92	-1.7	05	20.000	19.43	-2.8	06	50.000	48.46	-3.1
07	100.000	96.41	-3.6	08	150.000	146.97	-2.0	09	200.000	199.44	-0.3

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.4	02	1.000	0.91	-9.0	03	2.000	1.99	-0.3
11	5.000	4.33	-13.4	05	20.000	19.83	-0.9	06	50.000	50.76	1.5
07	100.000	101.34	1.3	08	150.000	148.11	-1.3	09	200.000	199.13	-0.4

00088

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.8	02	1.000	1.03	3.2	03	2.000	2.07	3.5
11	5.000	4.84	-3.2	05	20.000	19.47	-2.7	06	50.000	48.73	-2.5
07	100.000	96.23	-3.8	08	150.000	143.40	-4.4	09	200.000	192.05	-4.0

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.5	02	1.000	1.00	0.4	03	2.000	1.76	-11.8
11	5.000	4.89	-2.1	05	20.000	21.14	5.7	06	50.000	49.33	-1.3
07	100.000	96.25	-3.8	08	150.000	147.40	-1.7	09	200.000	204.24	2.1

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.16	15.5	03	2.000	2.34	17.0	11	5.000	4.56	-8.9
05	20.000	20.02	0.1	06	50.000	46.73	-6.5	07	100.000	89.65	-10.4
08	150.000	144.68	-3.5	09	200.000	193.43	-3.3				

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.16	8.2	11	5.000	3.91	-21.8	05	20.000	18.29	-8.5
06	50.000	49.73	-0.5	07	100.000	104.91	4.9	08	150.000	150.75	0.5
09	200.000	197.24	-1.4								

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.5	02	1.000	1.03	2.9	03	2.000	2.12	6.2
11	5.000	4.84	-3.3	05	20.000	21.22	6.1	06	50.000	48.87	-2.3
07	100.000	95.48	-4.5	08	150.000	146.41	-2.4	09	200.000	191.73	-4.1

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.13	12.7	03	2.000	2.45	22.3	11	5.000	4.84	-3.2
05	20.000	19.78	-1.1	06	50.000	48.03	-3.9	07	100.000	93.14	-6.9
08	150.000	137.29	-8.5	09	200.000	177.07	-11.5				

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.07	6.8	03	2.000	2.25	12.7	11	5.000	4.82	-3.5
05	20.000	19.29	-3.6	06	50.000	50.42	0.8	07	100.000	98.34	-1.7
08	150.000	137.55	-8.3	09	200.000	193.34	-3.3				

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.99	-1.0	03	2.000	2.18	8.8	11	5.000	4.66	-6.8
05	20.000	20.50	2.5	06	50.000	50.94	1.9	07	100.000	99.86	-0.1
08	150.000	145.27	-3.2	09	200.000	195.76	-2.1				

00089

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.1	02	1.000	0.97	-2.9	03	2.000	1.97	-1.6
11	5.000	5.22	4.5	05	20.000	20.25	1.2	06	50.000	51.54	3.1
07	100.000	101.42	1.4	08	150.000	149.99	0.0	09	200.000	198.73	-0.6

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.94	-6.2	03	2.000	2.01	0.6	11	5.000	4.99	-0.3
05	20.000	20.52	2.6	06	50.000	50.12	0.2	07	100.000	100.03	0.0
08	150.000	146.01	-2.7	09	200.000	211.36	5.7				

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.8	02	1.000	0.99	-0.5	03	2.000	1.99	-0.7
11	5.000	4.76	-4.8	05	20.000	20.38	1.9	06	50.000	51.51	3.0
07	100.000	98.72	-1.3	08	150.000	142.32	-5.1	09	200.000	185.38	-7.3

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	11.10	11.0	11	25.000	21.87	-12.5	05	100.000	101.75	1.8
06	250.000	266.89	6.8	07	500.000	507.11	1.4	08	750.000	724.74	-3.4
09	1000.000	949.78	-5.0								

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.8	02	1.000	1.00	-0.1	03	2.000	1.95	-2.4
11	5.000	4.87	-2.7	05	20.000	20.28	1.4	06	50.000	50.33	0.7
07	100.000	99.54	-0.5	08	150.000	153.05	2.0	09	200.000	206.83	3.4

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.0	02	1.000	1.11	10.5	03	2.000	2.13	6.3
11	5.000	4.43	-11.4	05	20.000	20.87	4.3	06	50.000	46.28	-7.4
07	100.000	92.78	-7.2	08	150.000	143.40	-4.4	09	200.000	194.49	-2.8

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.17	8.4	11	5.000	6.35	27.0	05	20.000	19.87	-0.6
06	50.000	46.76	-6.5	07	100.000	92.85	-7.1	08	150.000	135.36	-9.8
09	200.000	177.19	-11.4								

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.3	02	1.000	1.03	3.3	03	2.000	1.99	-0.7
11	5.000	4.89	-2.2	05	20.000	20.44	2.2	06	50.000	49.16	-1.7
07	100.000	97.79	-2.2	08	150.000	148.20	-1.2	09	200.000	200.21	0.1

00090

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	53.77	7.5	03	60.000	64.09	6.8	11	70.000	73.69	5.3
05	100.000	96.61	-3.4	07	125.000	116.83	-6.5	08	150.000	135.44	-9.7

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.5	02	1.000	0.96	-4.3	03	2.000	1.92	-4.1
11	5.000	4.84	-3.3	05	20.000	20.68	3.4	06	50.000	49.16	-1.7
07	100.000	97.88	-2.1	08	150.000	152.72	1.8	09	200.000	207.45	3.7

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.4	02	1.000	1.09	8.5	03	2.000	2.05	2.7
11	5.000	4.88	-2.4	05	20.000	20.51	2.5	06	50.000	49.91	-0.2
07	100.000	93.28	-6.7	08	150.000	144.72	-3.5	09	200.000	195.20	-2.4

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.34	33.8	03	2.000	1.92	-4.1	11	5.000	4.84	-3.3
05	20.000	20.39	1.9	06	50.000	49.01	-2.0	07	100.000	93.73	-6.3
08	150.000	135.23	-9.8	09	200.000	179.45	-10.3				

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	21.1	02	1.000	1.06	6.0	03	2.000	1.81	-9.7
11	5.000	4.58	-8.4	05	20.000	20.68	3.4	06	50.000	49.57	-0.9
07	100.000	94.17	-5.8	08	150.000	145.36	-3.1	09	200.000	194.76	-2.6

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.8	02	1.000	1.06	6.1	03	2.000	1.98	-1.1
11	5.000	4.85	-3.1	05	20.000	19.68	-1.6	06	50.000	49.01	-2.0
07	100.000	94.85	-5.1	08	150.000	149.85	-0.1	09	200.000	202.08	1.0

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.5	02	1.000	1.01	1.4	03	2.000	1.99	-0.4
11	5.000	4.73	-5.4	05	20.000	19.89	-0.5	06	50.000	49.32	-1.4
07	100.000	98.06	-1.9	08	150.000	149.41	-0.4	09	200.000	202.04	1.0

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.02	2.0	02	2.000	2.04	2.0	03	4.000	3.89	-2.9
11	10.000	9.54	-4.6	05	40.000	41.14	2.9	06	100.000	100.84	0.8
07	200.000	194.57	-2.7	08	300.000	300.29	0.1	09	400.000	409.66	2.4

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.2	02	1.000	1.06	5.6	03	2.000	1.95	-2.3
11	5.000	4.80	-4.0	05	20.000	20.09	0.4	06	50.000	51.80	3.6
07	100.000	100.23	0.2	08	150.000	135.89	-9.4	09	200.000	191.37	-4.3

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.6	02	1.000	0.95	-5.4	03	2.000	1.87	-6.7
11	5.000	4.95	-1.0	05	20.000	21.03	5.1	06	50.000	49.42	-1.2
07	100.000	96.02	-4.0	08	150.000	153.03	2.0	09	200.000	202.88	1.4

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.12	12.3	03	2.000	2.15	7.3	11	5.000	4.73	-5.5
05	20.000	19.05	-4.7	06	50.000	48.52	-3.0	07	100.000	94.05	-5.9
08	150.000	148.30	-1.1	09	200.000	201.23	0.6				

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.1	02	1.000	0.98	-1.8	03	2.000	2.05	2.6
11	5.000	5.09	1.7	05	20.000	21.82	9.1	06	50.000	50.23	0.5
07	100.000	96.08	-3.9	08	150.000	145.52	-3.0	09	200.000	187.29	-6.4

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.3	02	1.000	0.91	-8.6	03	2.000	1.89	-5.6
11	5.000	5.01	0.1	05	20.000	20.67	3.4	06	50.000	50.24	0.5
07	100.000	97.81	-2.2	08	150.000	152.59	1.7	09	200.000	212.69	6.3

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.9	02	1.000	0.96	-4.1	03	2.000	2.05	2.3
11	5.000	4.84	-3.1	05	20.000	21.10	5.5	06	50.000	49.39	-1.2
07	100.000	94.88	-5.1	08	150.000	145.40	-3.1	09	200.000	189.91	-5.0

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.2	02	1.000	1.12	12.3	03	2.000	1.90	-5.1
11	5.000	4.79	-4.2	05	20.000	19.71	-1.5	06	50.000	50.20	0.4
07	100.000	98.12	-1.9	08	150.000	147.13	-1.9	09	200.000	195.43	-2.3

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.5	02	1.000	0.95	-4.6	03	2.000	1.93	-3.5
11	5.000	5.12	2.4	05	20.000	21.02	5.1	06	50.000	48.54	-2.9
07	100.000	94.23	-5.8	08	150.000	146.52	-2.3	09	200.000	196.18	-1.9

Initial Calibration - Detailed Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.9	02	1.000	1.07	7.2	03	2.000	2.10	5.0
11	5.000	5.00	0.0	05	20.000	20.09	0.5	06	50.000	48.01	-4.0
07	100.000	94.04	-6.0	08	150.000	148.09	-1.3	09	200.000	198.90	-0.5

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.3	02	1.000	1.01	0.8	03	2.000	1.99	-0.5
11	5.000	4.69	-6.2	05	20.000	20.14	0.7	06	50.000	50.45	0.9
07	100.000	101.24	1.2	08	150.000	150.52	0.3	09	200.000	206.08	3.0

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.15	15.4	03	2.000	1.79	-10.7	11	5.000	5.08	1.7
05	20.000	19.47	-2.6	06	50.000	49.93	-0.1	07	100.000	99.78	-0.2
08	150.000	148.22	-1.2	09	200.000	195.66	-2.2				

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:58:01 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.743	168	889727	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1478479	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1380392	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	731691	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.596	113	430381	53.79	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.58%				
48) surr1,1,2-dichloroetha...	6.102	65	477228	55.84	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 111.68%				
65) SURR3,Toluene-d8	8.529	98	1866611	53.42	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.84%				
70) SURR2,BFB	11.047	95	717337	54.03	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.06%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	3964	0.51	ppb		85
3) Chloromethane	1.347	50	4164	0.56	ppb		99
4) Vinyl Chloride	1.427	62	5644	0.61	ppb		78
5) Bromomethane	1.689	94	2817m	0.52	ppb		
6) Chloroethane	1.762	64	3653	0.59	ppb		99
7) Freon 21	1.933	67	8474	0.55	ppb		93
8) Trichlorofluoromethane	1.975	101	7043	0.51	ppb		93
9) Diethyl Ether	2.225	59	3797	0.62	ppb	#	75
10) Freon 123a	2.237	67	7295	0.73	ppb	#	75
11) Freon 123	2.292	83	6530	0.57	ppb	#	76
13) 1,1-Diclethene	2.432	96	3224	0.49	ppb	#	79
14) Freon 113	2.438	101	4202	0.65	ppb		83
16) 2-Propanol	2.664	45	4247	17.32	ppb		66
18) Carbon Disulfide	2.634	76	11838	0.57	ppb		92
19) Acetonitrile	2.762	40	1026	6.29	ppb	#	14
20) Allyl Chloride	2.792	76	1477m	0.38	ppb		
21) Methyl Acetate	2.829	43	2711	1.00	ppb		90
22) Methylene Chloride	2.920	84	4741	0.68	ppb	#	63
23) TBA	3.097	59	5478m	12.40	ppb		
24) Acrylonitrile	3.213	53	4553m	3.19	ppb		
25) Methyl-t-Butyl Ether	3.274	73	8069	0.47	ppb		86
26) trans-1,2-Dichloroethene	3.243	96	3623	0.50	ppb	#	57
28) 1,1-Diclethane	3.786	63	6896m	0.57	ppb		
29) Vinyl Acetate	3.908	86	903	0.62	ppb	#	33
30) DIPE	3.944	45	11801	0.56	ppb		84
31) 2-Chloro-1,3-Butadiene	3.926	53	6753	0.51	ppb		88
32) ETBE	4.530	59	11906	0.57	ppb		95
33) 2,2-Dichloropropane	4.719	77	6747m	0.59	ppb		
34) cis-1,2-Dichloroethene	4.712	96	4125	0.53	ppb	#	70
36) Propionitrile	4.877	54	312	0.62	ppb		56
37) Bromochloromethane	5.139	130	2840m	0.66	ppb		
40) Chloroform	5.328	83	11210m	0.88	ppb		
41) 1,1,1-Trichloroethane	5.596	97	7514	0.61	ppb		81
42) TAME	6.401	73	9513	0.52	ppb		85

KP 6/5/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:58:01 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	Carbontetrachloride	5.877	121	2524m	0.78	ppb		
47)	1,1-Dichloropropene	5.877	75	6246	0.61	ppb		82
49)	Benzene	6.182	78	16656	0.57	ppb		87
50)	1,2-Dichloroethane	6.212	62	5542	0.59	ppb		95
52)	n-Heptane	6.651	43	4629	0.74	ppb	#	80
53)	1-Butanol	7.121	56	3366	27.23	ppb		85
54)	Trichloroethene	7.084	130	4211m	0.53	ppb		
55)	Methylcyclohexane	7.303	55	4943m	0.67	ppb		
56)	1,2-Diclpropane	7.358	63	3747m	0.53	ppb		
57)	Dibromomethane	7.492	93	3330	0.88	ppb	#	72
59)	Methyl Methacrylate	7.572	69	2444	0.70	ppb	#	78
60)	Bromodichloromethane	7.724	83	5195m	0.50	ppb		
62)	2-Chloroethylvinyl Ether	8.114	63	2024	0.63	ppb		94
63)	cis-1,3-Dichloropropene	8.230	75	6331	0.54	ppb		70
66)	Toluene	8.602	91	17195	0.51	ppb		91
67)	trans-1,3-Dichloropropene	8.870	75	5025	0.50	ppb		94
68)	Ethyl Methacrylate	9.004	69	4474	0.61	ppb		90
69)	1,1,2-Trichloroethane	9.047	97	2954	0.54	ppb	#	61
72)	Tetrachloroethene	9.181	164	3546	0.56	ppb	#	78
74)	1,3-Dichloropropane	9.218	76	5895	0.65	ppb		86
75)	Dibromochloromethane	9.431	129	4141	0.61	ppb		81
76)	N-Butyl Acetate	9.474	43	4043m	0.55	ppb		
77)	1,2-Dibromoethane	9.529	107	2929	0.55	ppb		99
78)	Chlorobenzene	10.010	112	12734	0.57	ppb		85
79)	3-CBTF	10.035	180	5144	0.49	ppb	#	75
80)	4-CBTF	10.083	180	4798	0.50	ppb	#	73
81)	1,1,1,2-Tetrachloroethane	10.102	131	3649	0.47	ppb		95
82)	Ethylbenzene	10.132	106	6842	0.56	ppb	#	47
83)	(m+p)Xylene	10.242	106	15121	1.02	ppb		89
84)	o-Xylene	10.595	106	7488	0.52	ppb	#	62
85)	Styrene	10.614	104	12099	0.49	ppb	#	80
87)	Bromoform	10.760	173	2422	0.65	ppb		94
88)	2-CBTF	10.833	180	6120	0.58	ppb	#	74
89)	Isopropylbenzene	10.931	105	17231	0.51	ppb		92
91)	trans-1,4-Dichloro-2-B...	11.236	53	1398	0.76	ppb		88
92)	1,1,2,2-Tetrachloroethane	11.181	83	3630	0.59	ppb		83
93)	Bromobenzene	11.175	156	4346	0.51	ppb	#	69
94)	1,2,3-Trichloropropane	11.199	110	1199	0.64	ppb	#	34
95)	n-Propylbenzene	11.278	91	19330	0.51	ppb		92
96)	2-Chlorotoluene	11.339	91	12175	0.52	ppb		97
97)	3-Chlorotoluene	11.394	91	12546	0.50	ppb		91
98)	4-Chlorotoluene	11.437	91	14174	0.49	ppb		95
99)	1,3,5-Trimethylbenzene	11.431	105	13890	0.48	ppb		93
100)	tert-Butylbenzene	11.705	119	13312	0.57	ppb		91
101)	1,2,4-Trimethylbenzene	11.735	105	15630	0.53	ppb		97
102)	3,4-DCBTF	11.803	214	3603	0.52	ppb		87
103)	sec-Butylbenzene	11.882	105	18313	0.57	ppb		92
104)	p-Isopropyltoluene	12.004	119	12826	0.47	ppb		90
105)	1,3-Dclbenz	11.967	146	8456	0.51	ppb		96
106)	1,4-Dclbenz	12.034	146	10849	0.63	ppb		90
107)	2,4-DCBTF	12.089	214	3670	0.60	ppb	#	74

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:58:01 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

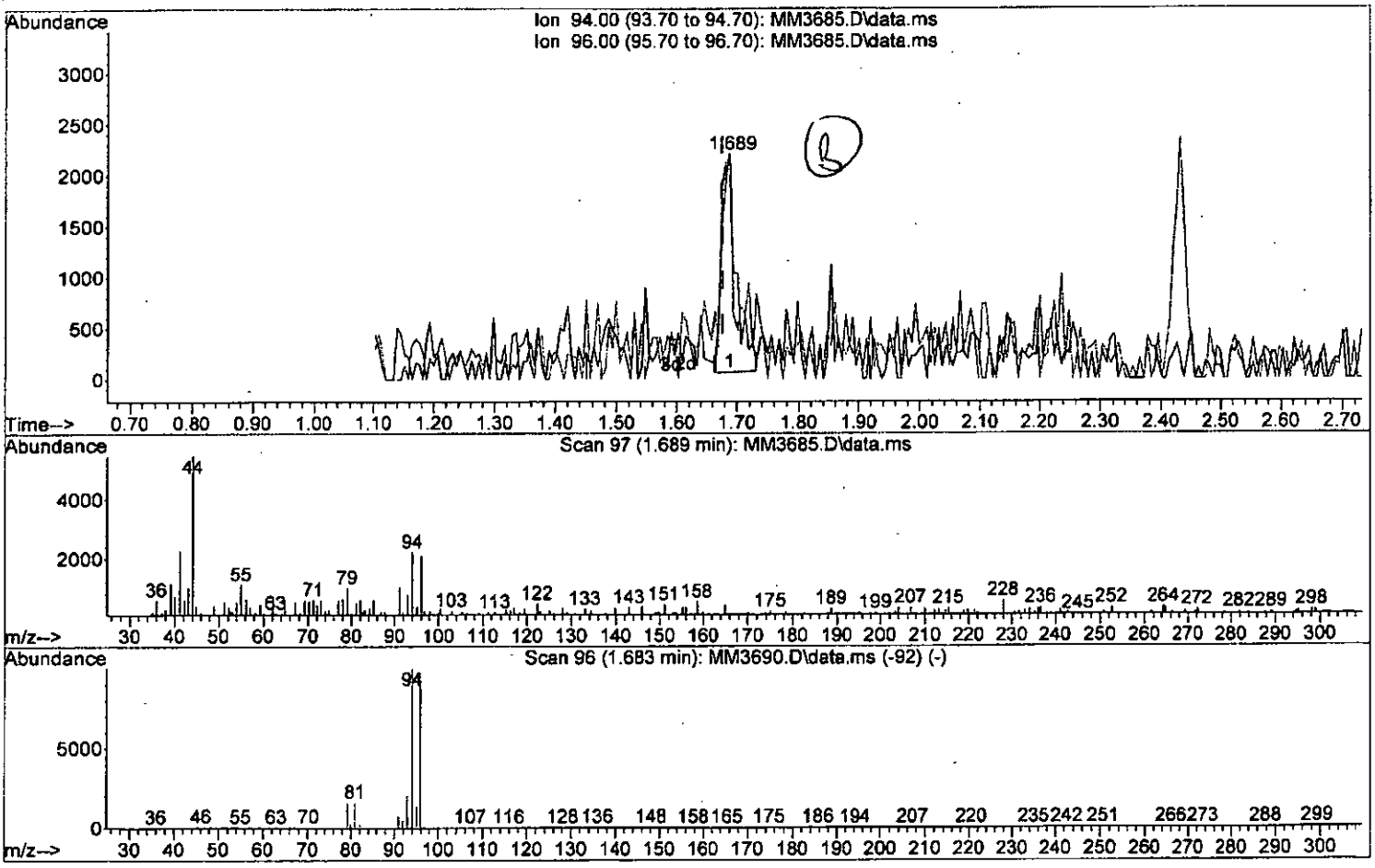
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 2,5-DCBTF	12.126	214	3697	0.54	ppb	#	74
109) n-Butylbenzene	12.333	91	13447	0.55	ppb		86
110) 1,2-Dclbenz	12.333	146	8362	0.54	ppb	#	76
111) 1,2-Dibromo-3-chloropr...	12.961	157	900	0.72	ppb	#	66
112) Trielution Dichlorotol...	13.064	125	20110	1.55	ppb	#	89
113) 1,3,5 Trichlorobenzene	13.132	180	4335	0.45	ppb	#	75
114) Coelution Dichlorotoluene	13.406	125	15252	1.10	ppb		95
115) 1,2,4-Tcbenzene	13.613	180	4641	0.53	ppb	#	70
116) Hexachlorobt	13.747	225	2164	0.64	ppb		83
117) Naphthalen	13.796	128	10647	0.57	ppb		91
118) 1,2,3-Tclbenzene	13.991	180	3529	0.49	ppb		90
119) 2,4,5-Trichlorotolene	14.576	159	3713	0.64	ppb	#	80
120) 2,3,6-Trichlorotoluene	14.662	159	2692	0.54	ppb	#	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 0.63 ppb

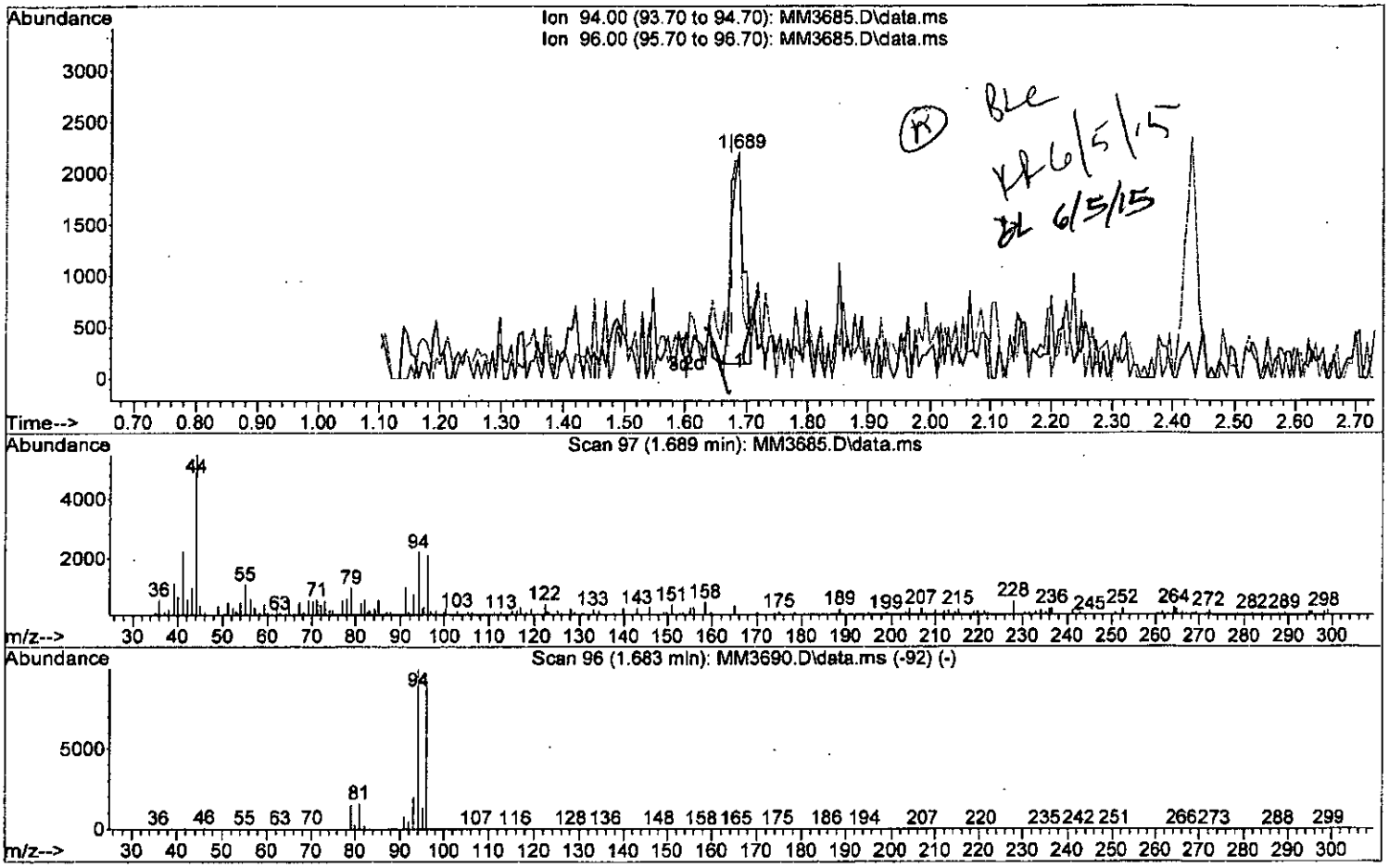
response 3418

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	94.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 0.52 ppb m

response 2817

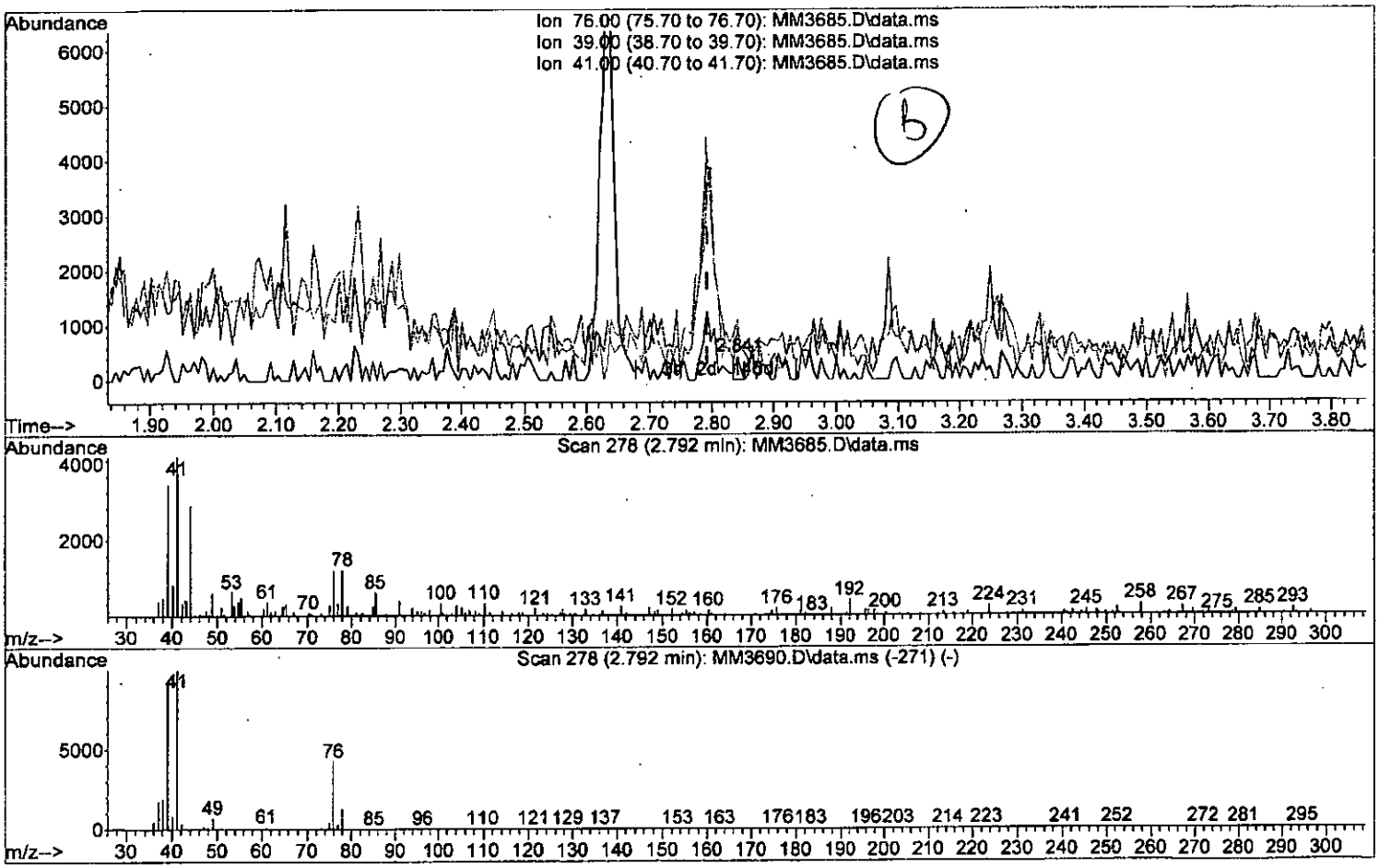
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	94.82
0.00	0.00	0.00
0.00	0.00	0.00

00095

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(20) Allyl Chloride

2.841min (+0.049) 0.06 ppb

response 223

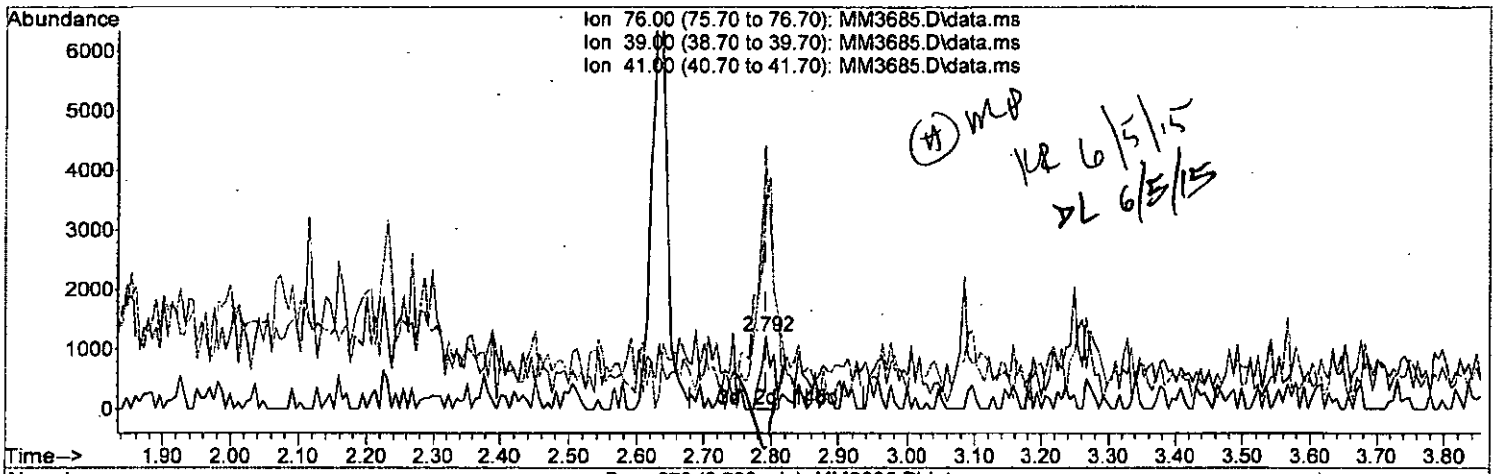
Ion	Exp%	Act%
76.00	100	100
39.00	218.60	216.71
41.00	260.30	254.59
0.00	0.00	0.00

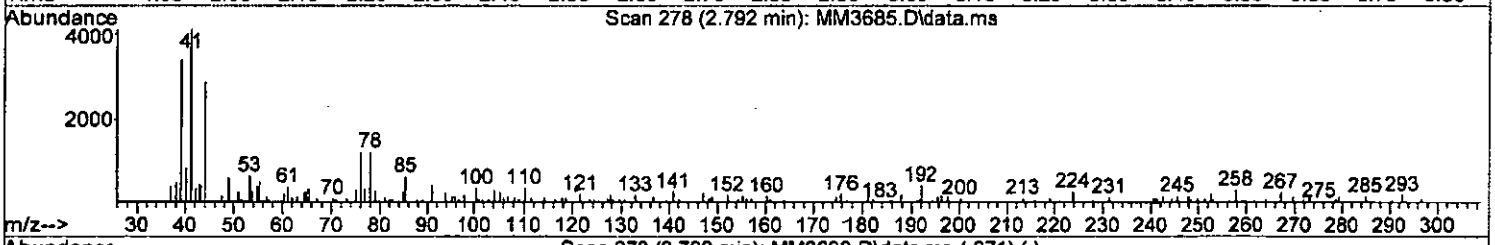
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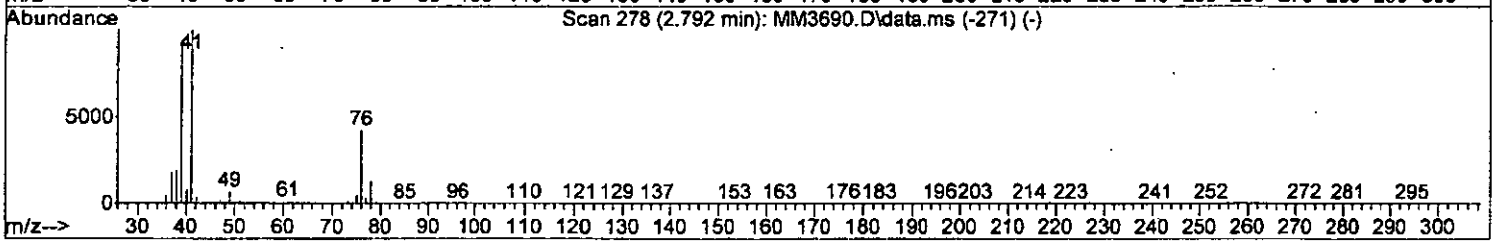
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(20) Allyl Chloride

2.792min (+0.000) 0.38 ppb m

response 1477

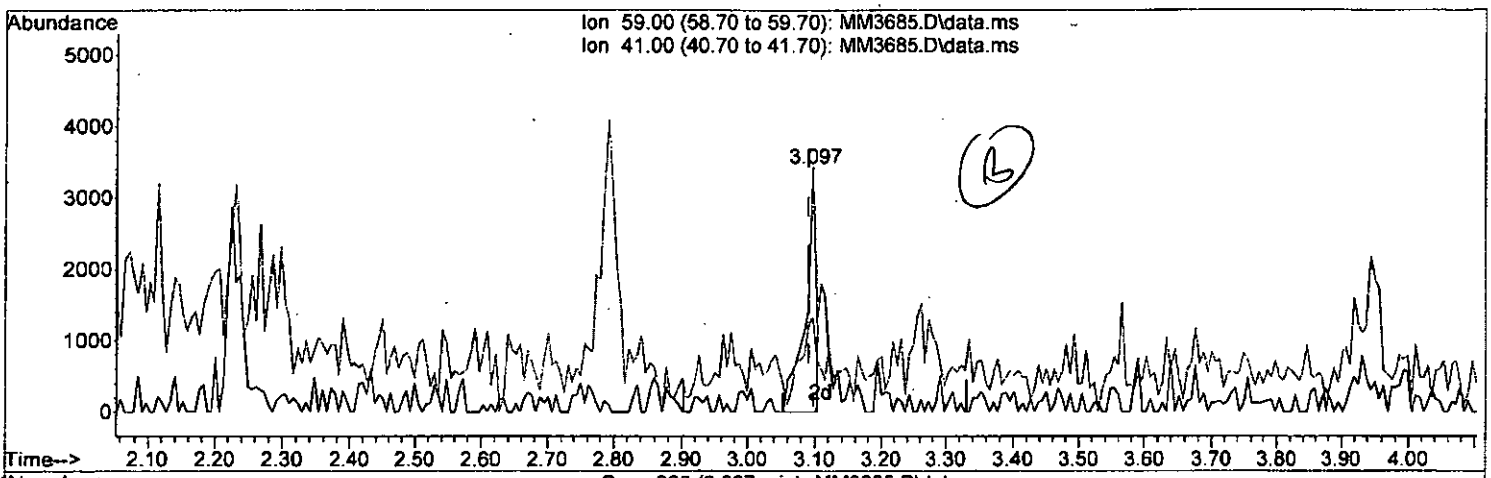
Ion	Exp%	Act%
76.00	100	100
39.00	218.60	275.63#
41.00	260.30	333.09#
0.00	0.00	0.00

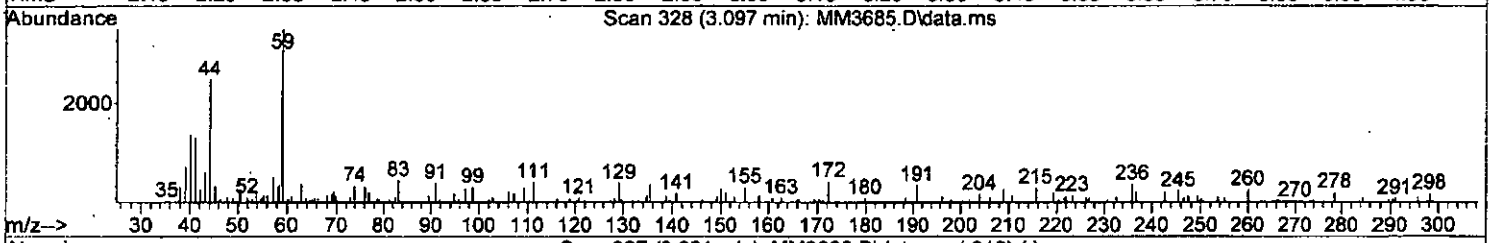
00109

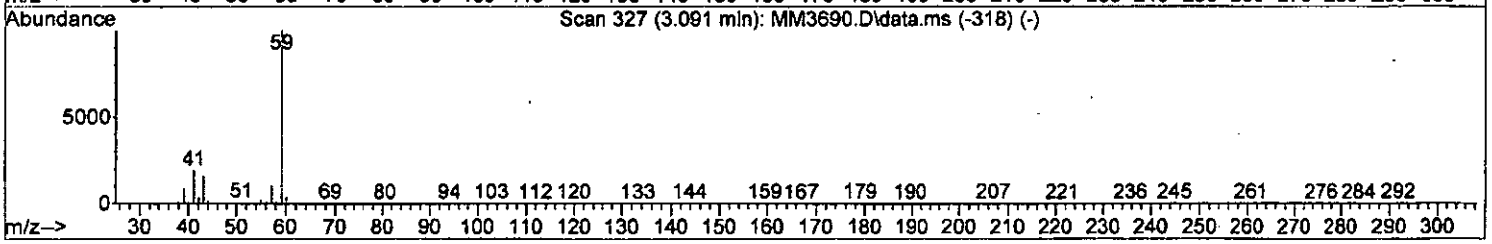
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(23) TBA

3.097min (+0.006) 8.09 ppb

response 3572

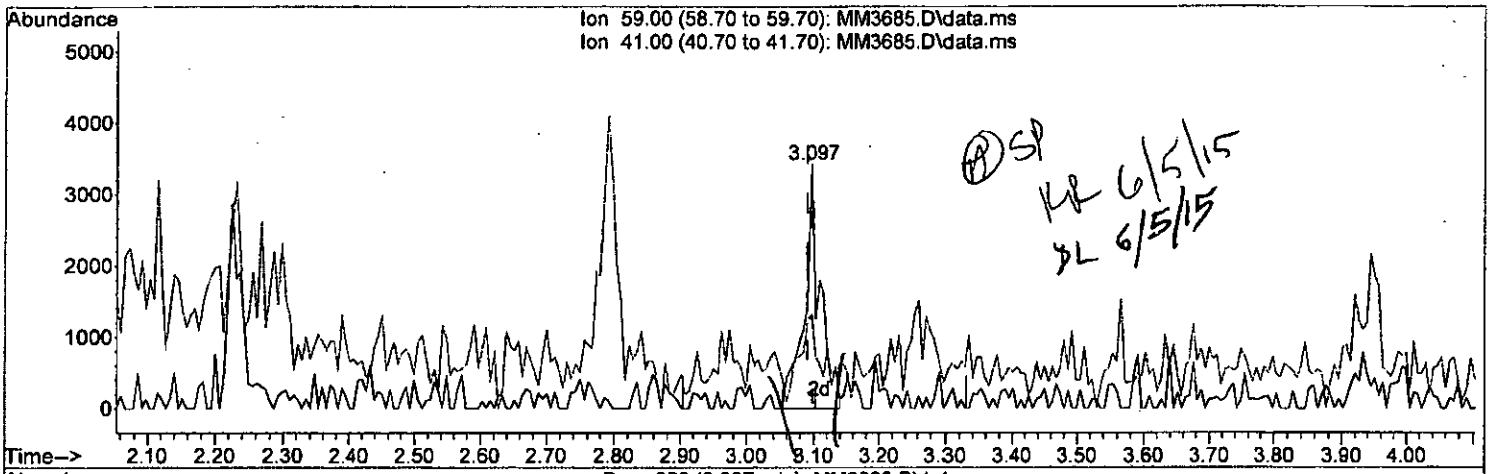
Ion	Exp%	Act%
59.00	100	100
41.00	19.50	38.73
0.00	0.00	0.00
0.00	0.00	0.00

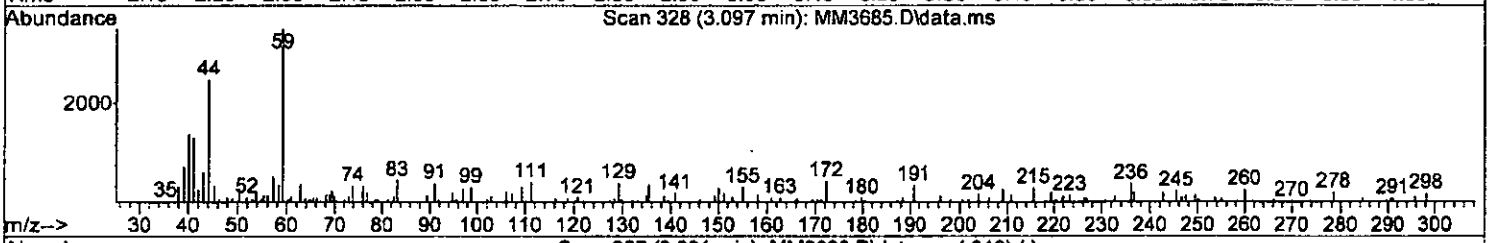
00101

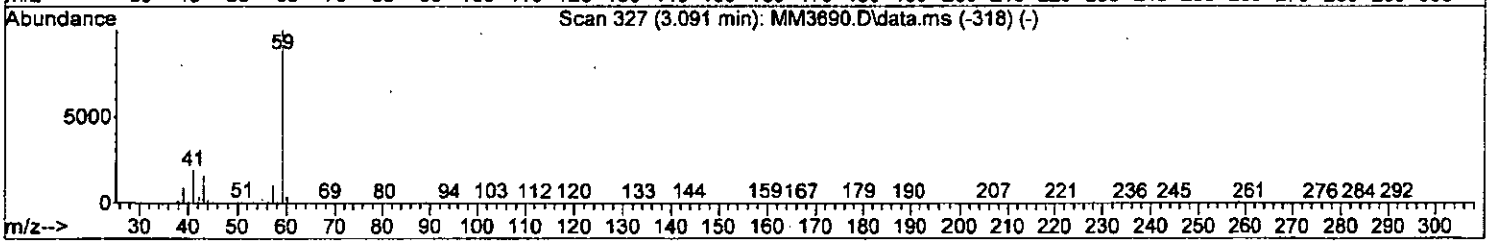
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(23) TBA

3.097min (+0.006) 12.40 ppb m

response 5478

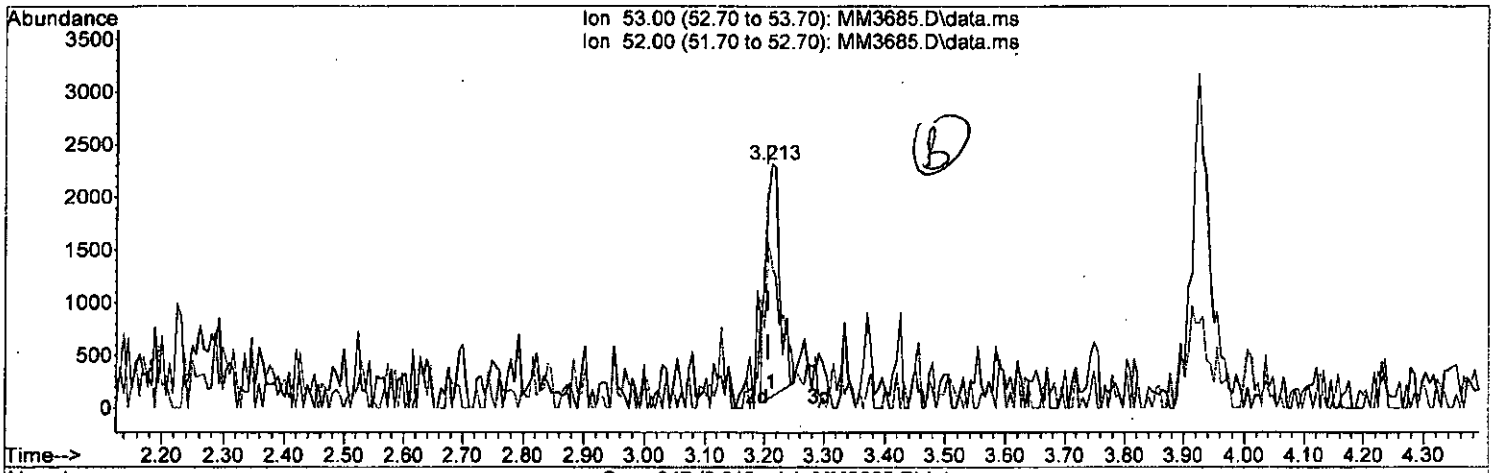
Ion	Exp%	Act%
59.00	100	100
41.00	19.50	38.73
0.00	0.00	0.00
0.00	0.00	0.00

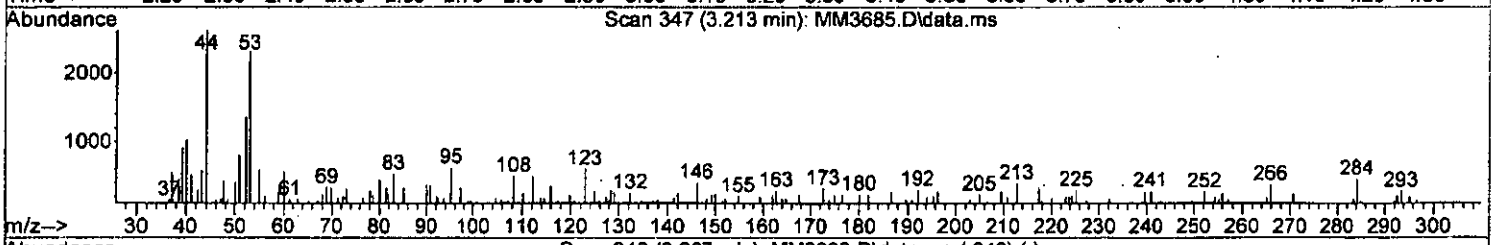
00102

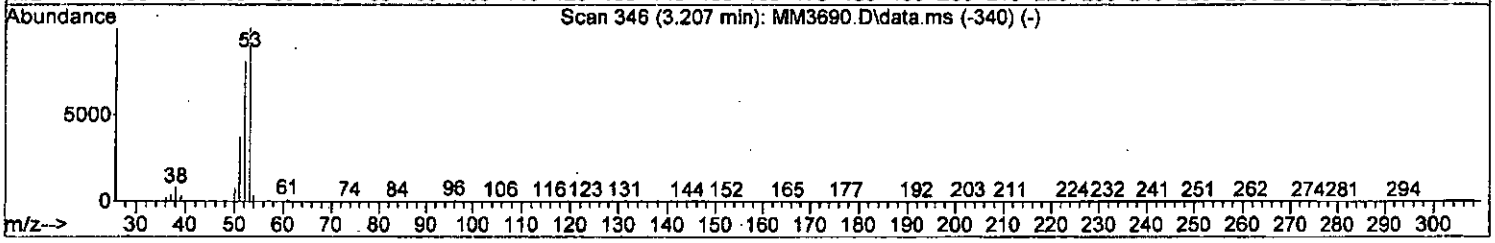
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(24) Acrylonitrile

3.213min (+0.007) 2.44 ppb

response 3478

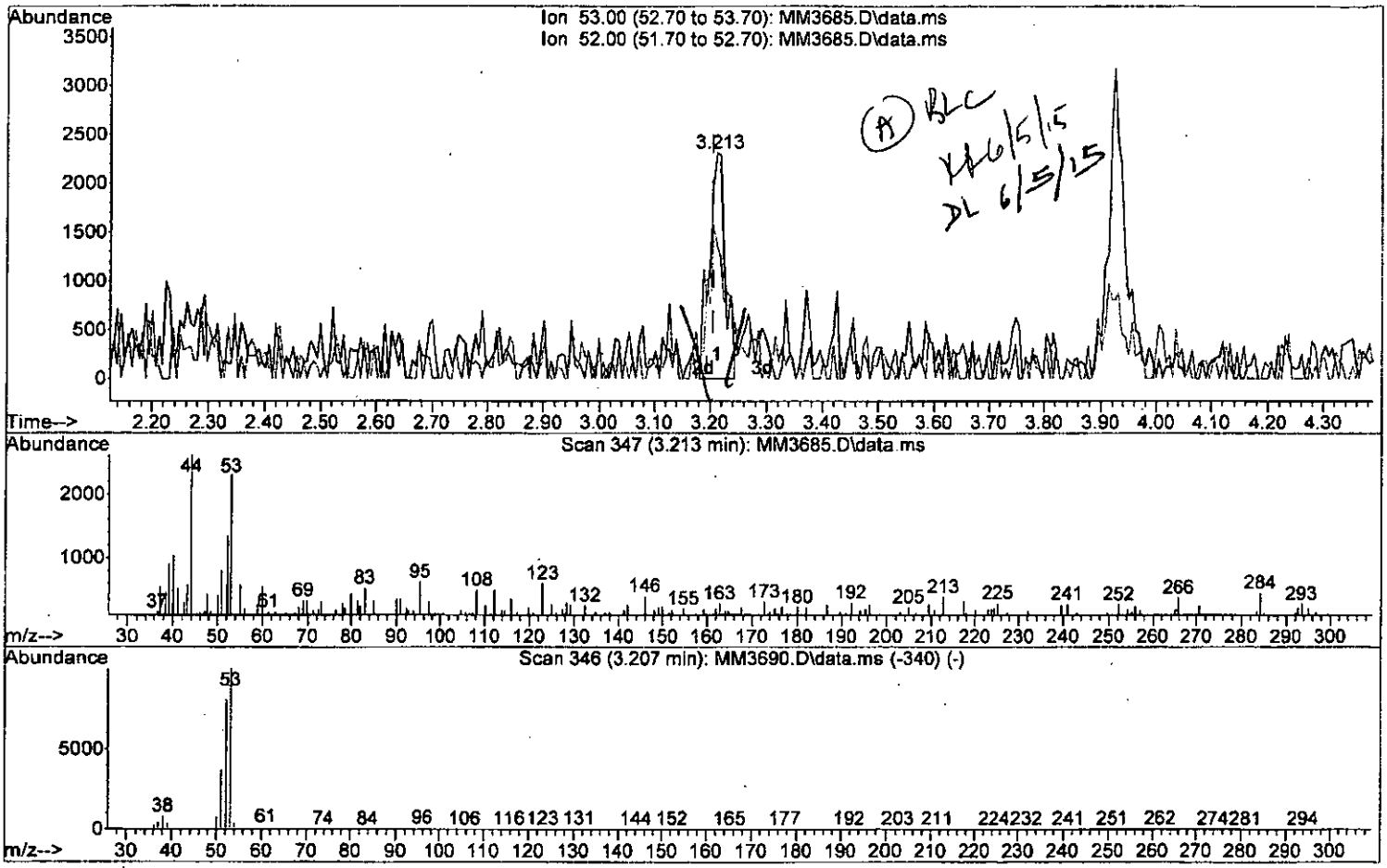
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	58.06#
0.00	0.00	0.00
0.00	0.00	0.00

00103

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(24) Acrylonitrile

3.213min (+0.007) 3.19 ppb m

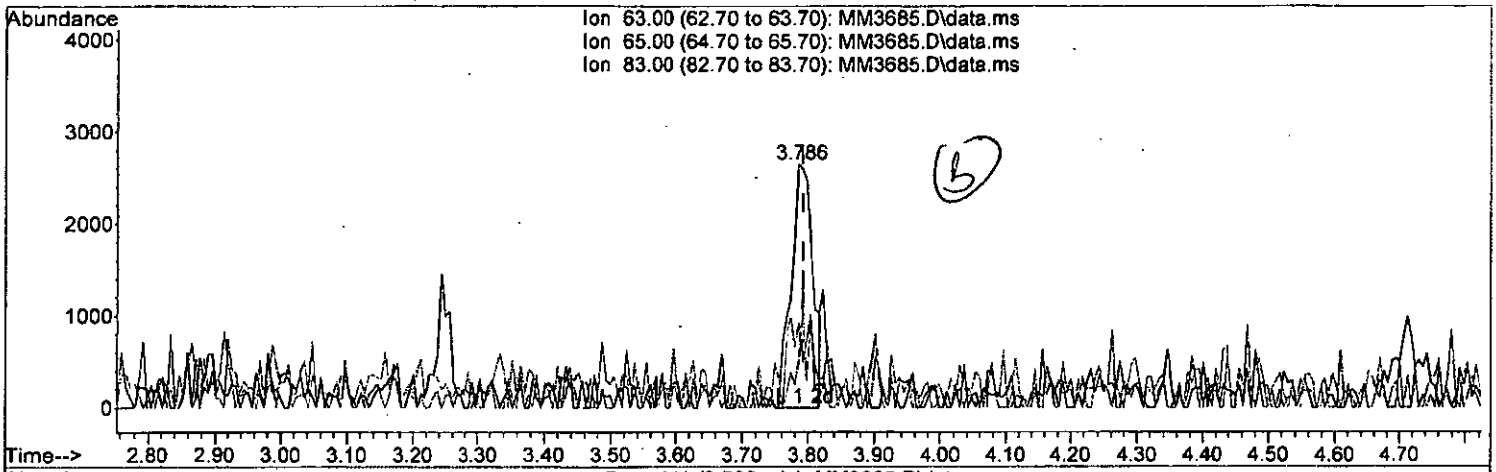
response 4553

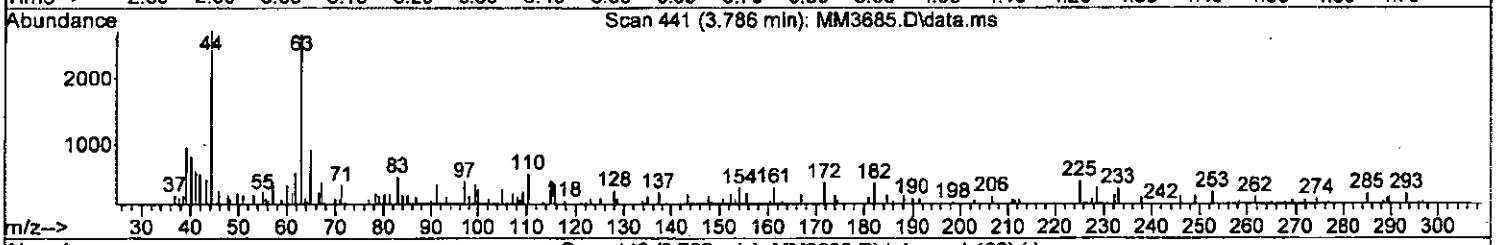
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	58.06#
0.00	0.00	0.00
0.00	0.00	0.00

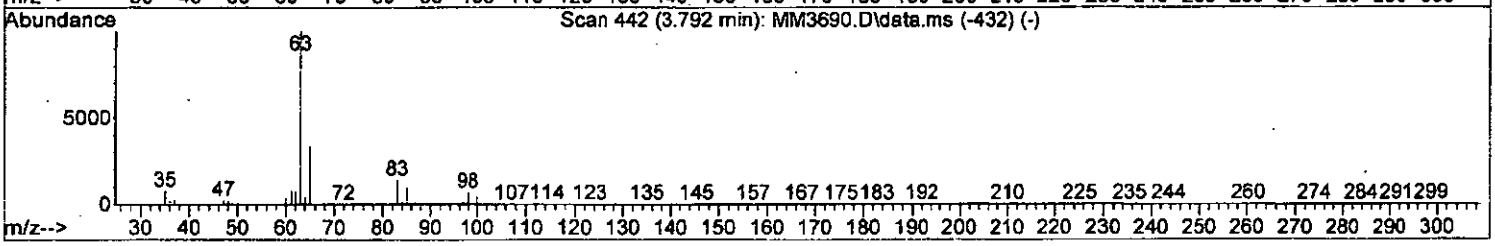
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(28) 1,1-Diclethane (P)

3.786min (-0.006) 0.49 ppb

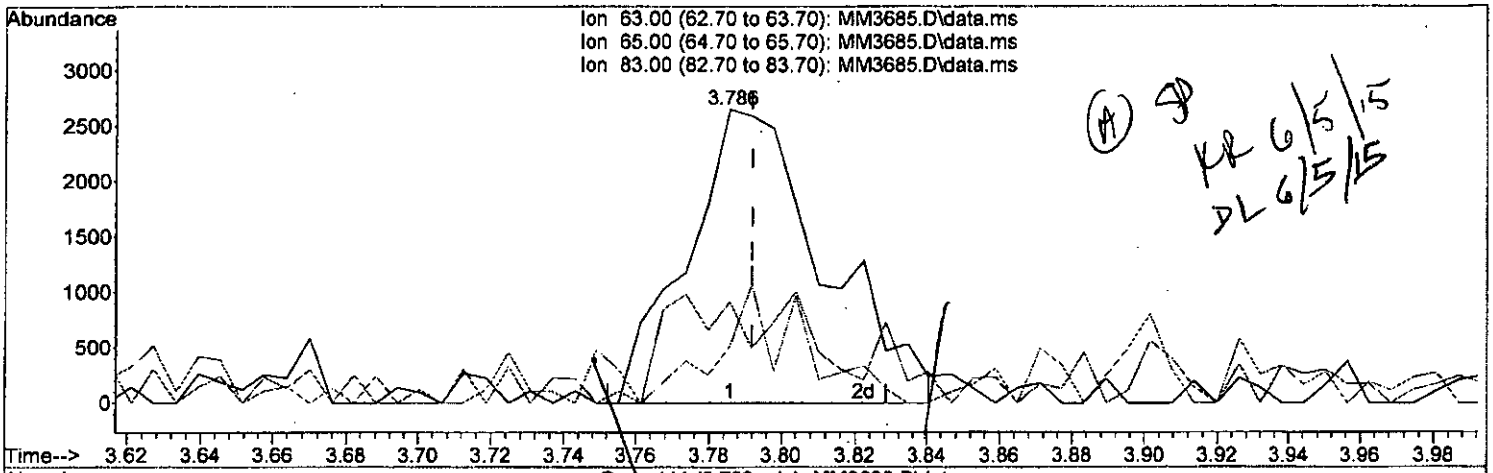
response 5971

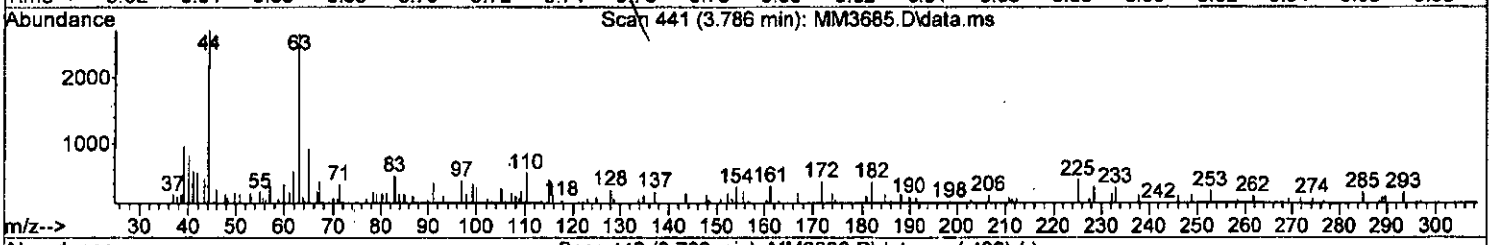
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	34.40
83.00	14.10	19.18
0.00	0.00	0.00

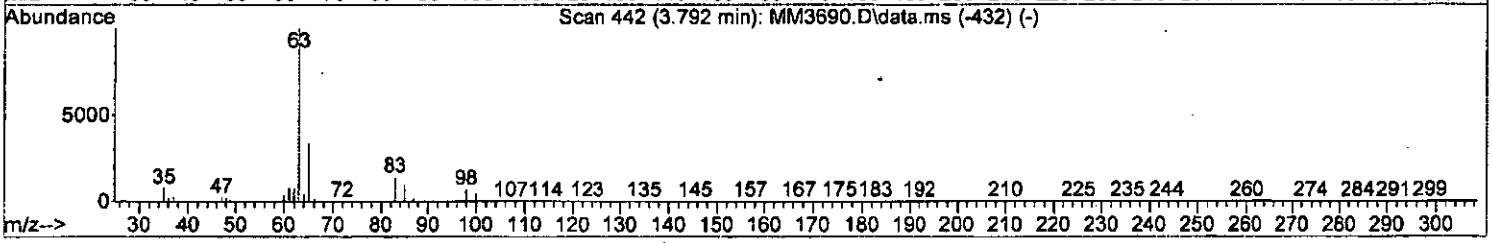
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(28) 1,1-Diclethane (P)

3.786min (-0.006) 0.57 ppb m

response 6896

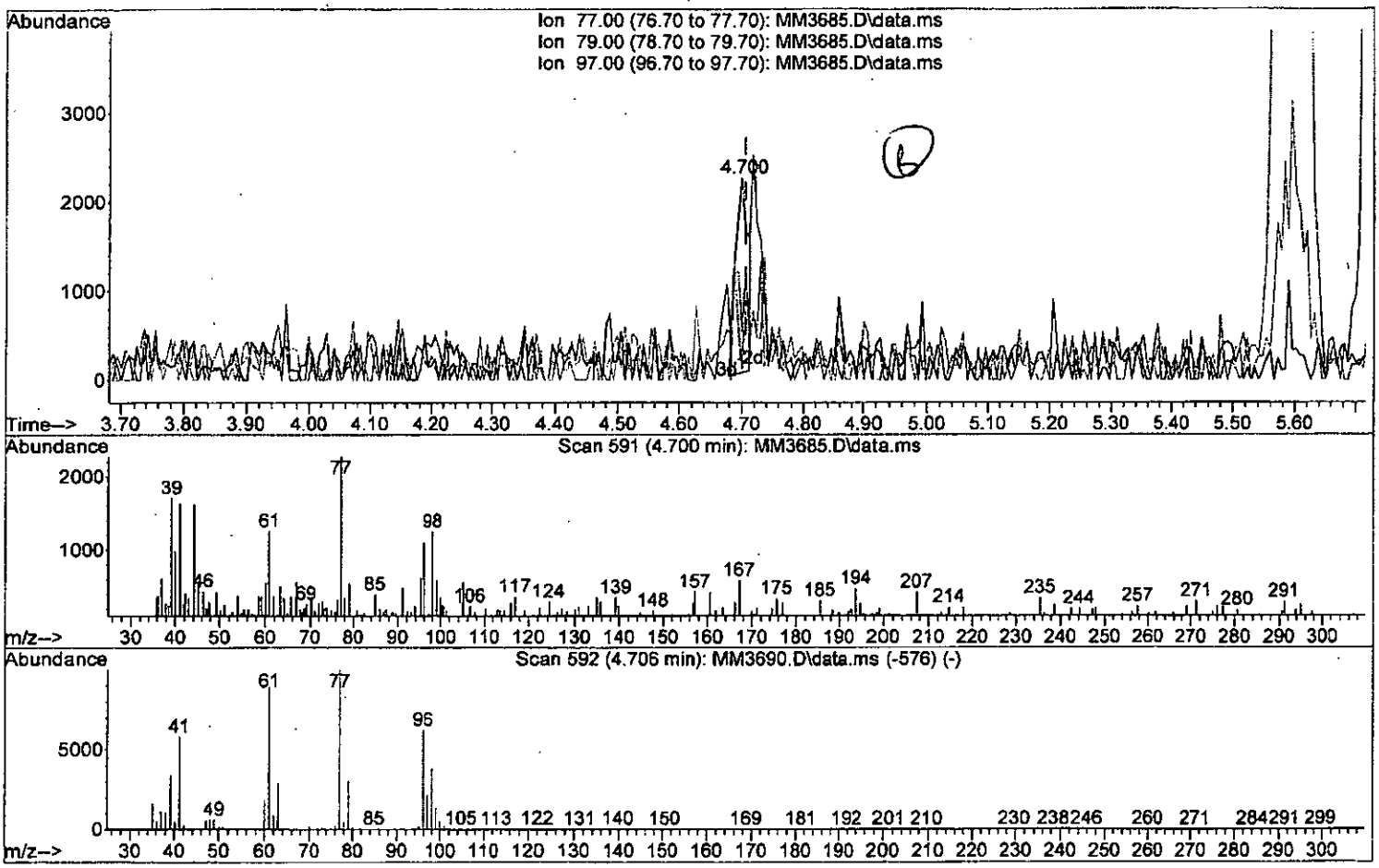
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	34.40
83.00	14.10	19.18
0.00	0.00	0.00

00106

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(33) 2,2-Dichloropropane

4.700min (-0.006) 0.26 ppb

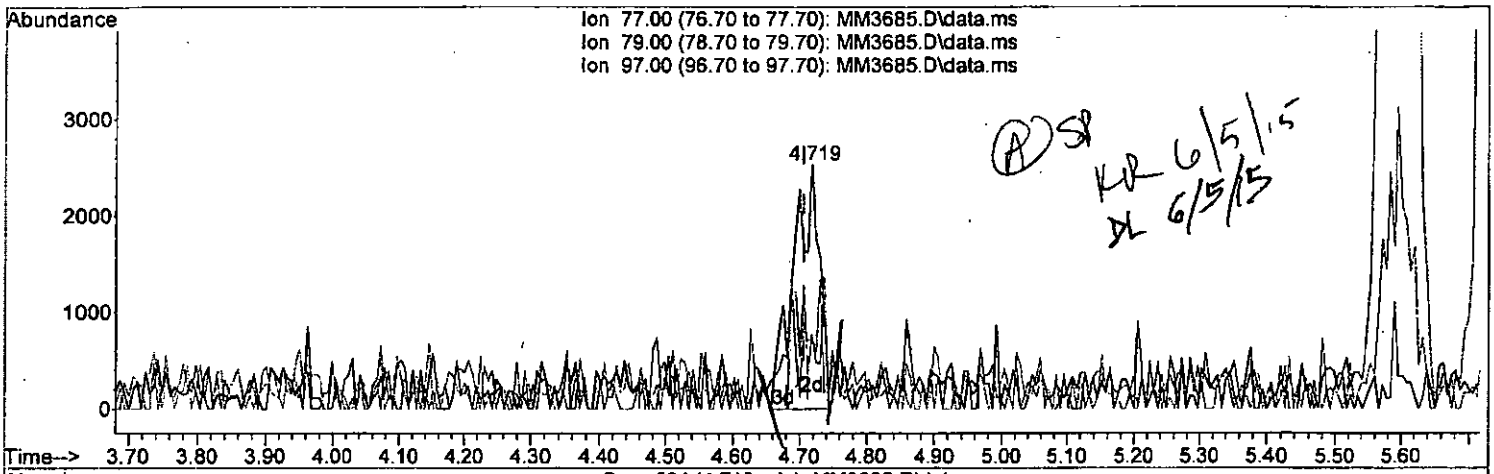
response 3026

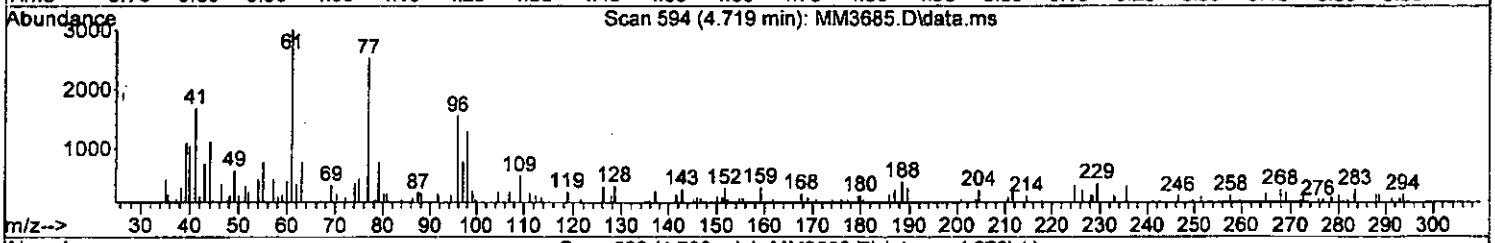
Ion	Exp%	Act%
77.00	100	100
79.00	30.50	23.96
97.00	21.60	5.46
0.00	0.00	0.00

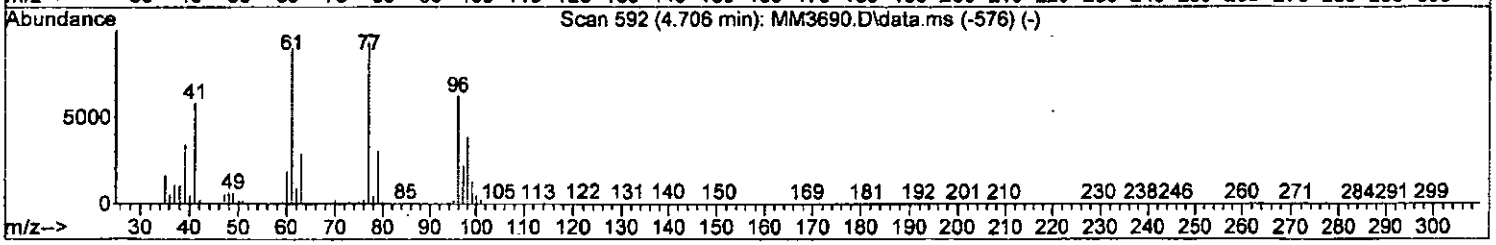
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(33) 2,2-Dichloropropane

4.719min (+0.012) 0.59 ppb m

response 6747

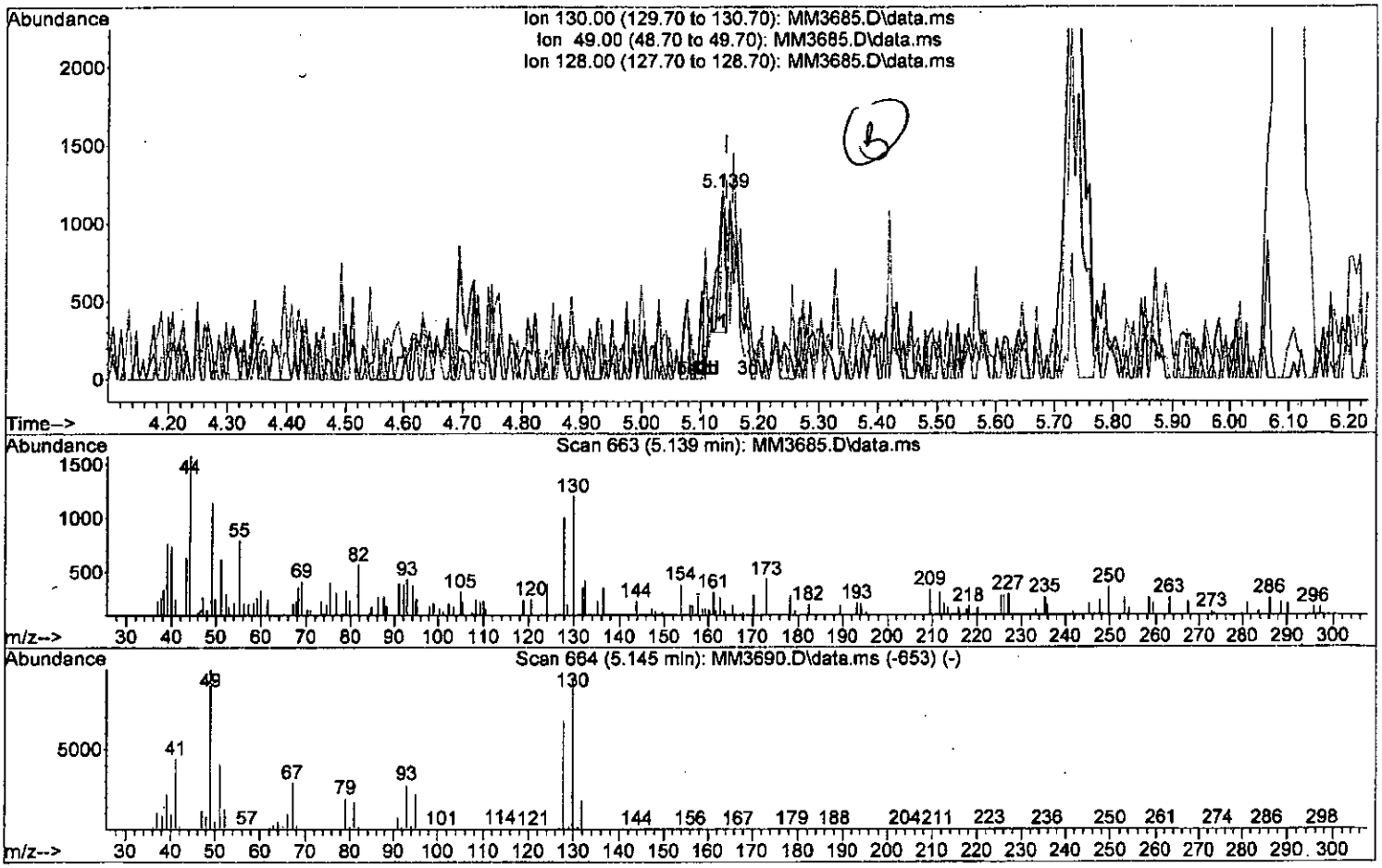
Ion	Exp%	Act%
77.00	100	100
79.00	30.50	30.60
97.00	21.60	30.52
0.00	0.00	0.00

00108

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 0.14 ppb

response 610

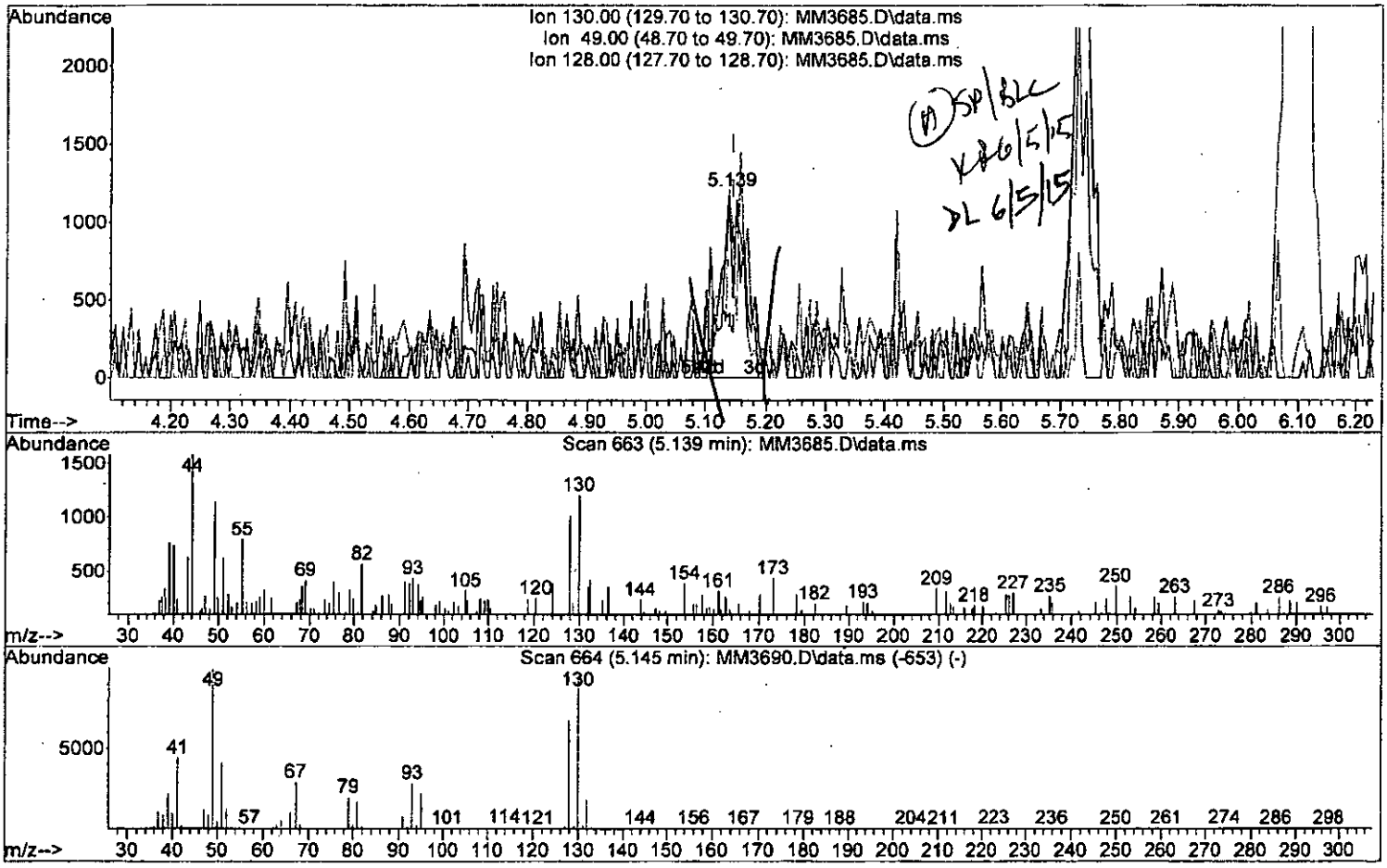
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	95.09
128.00	72.20	100.42#
0.00	0.00	0.00

00109

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 0.66 ppb m

response 2840

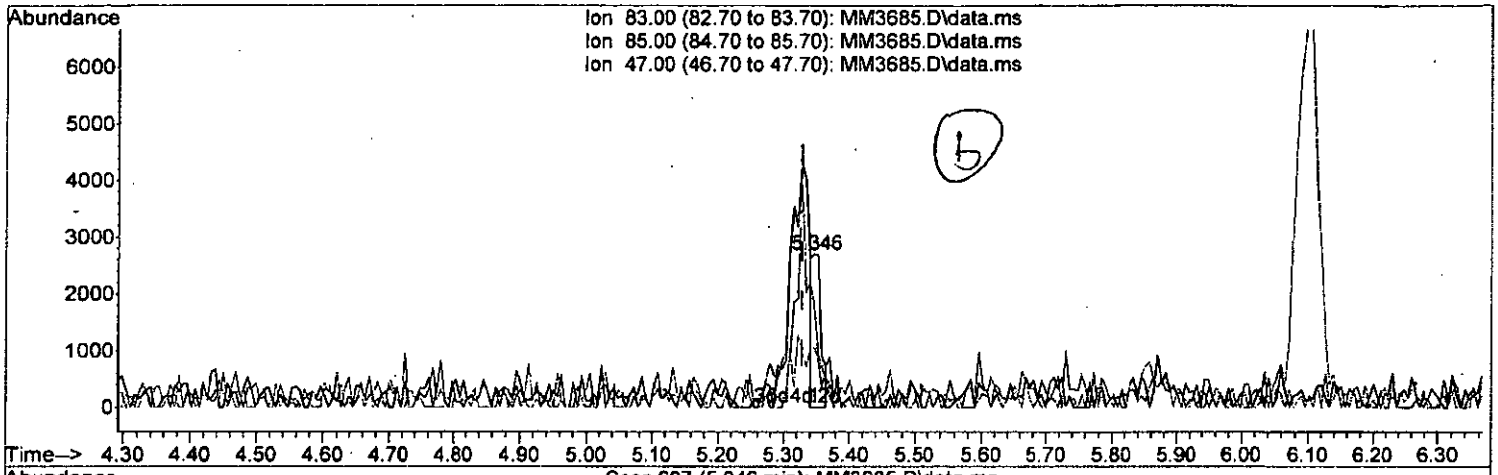
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	95.09
128.00	72.20	83.85
0.00	0.00	0.00

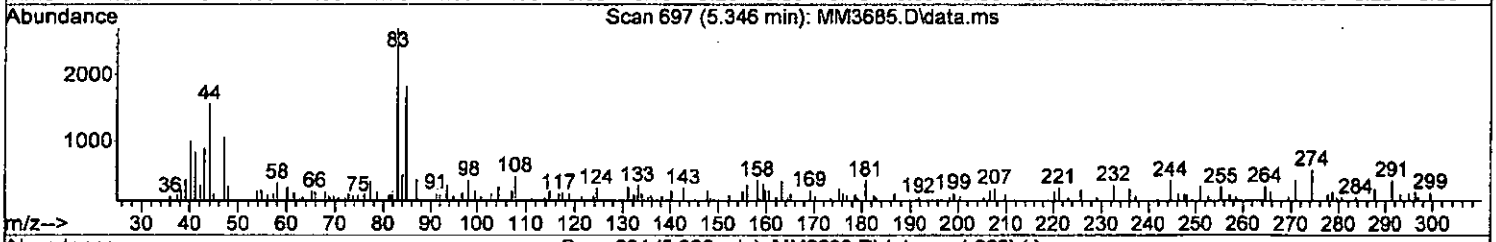
00110

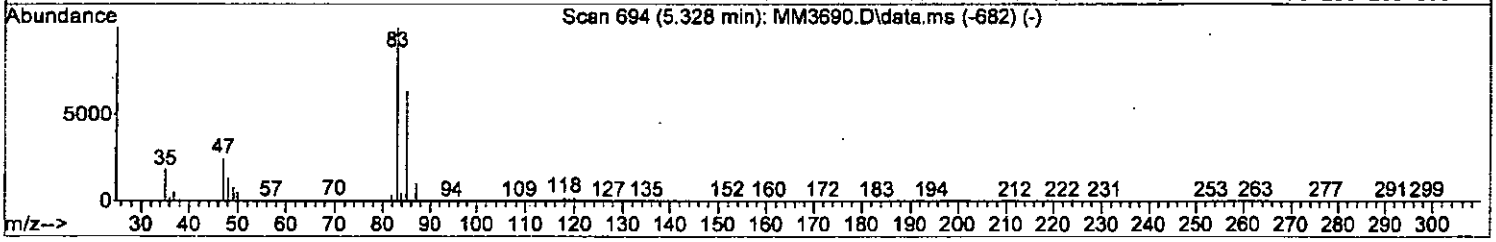
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(40) Chloroform (P)

5.346min (+0.018) 0.20 ppb

response 2559

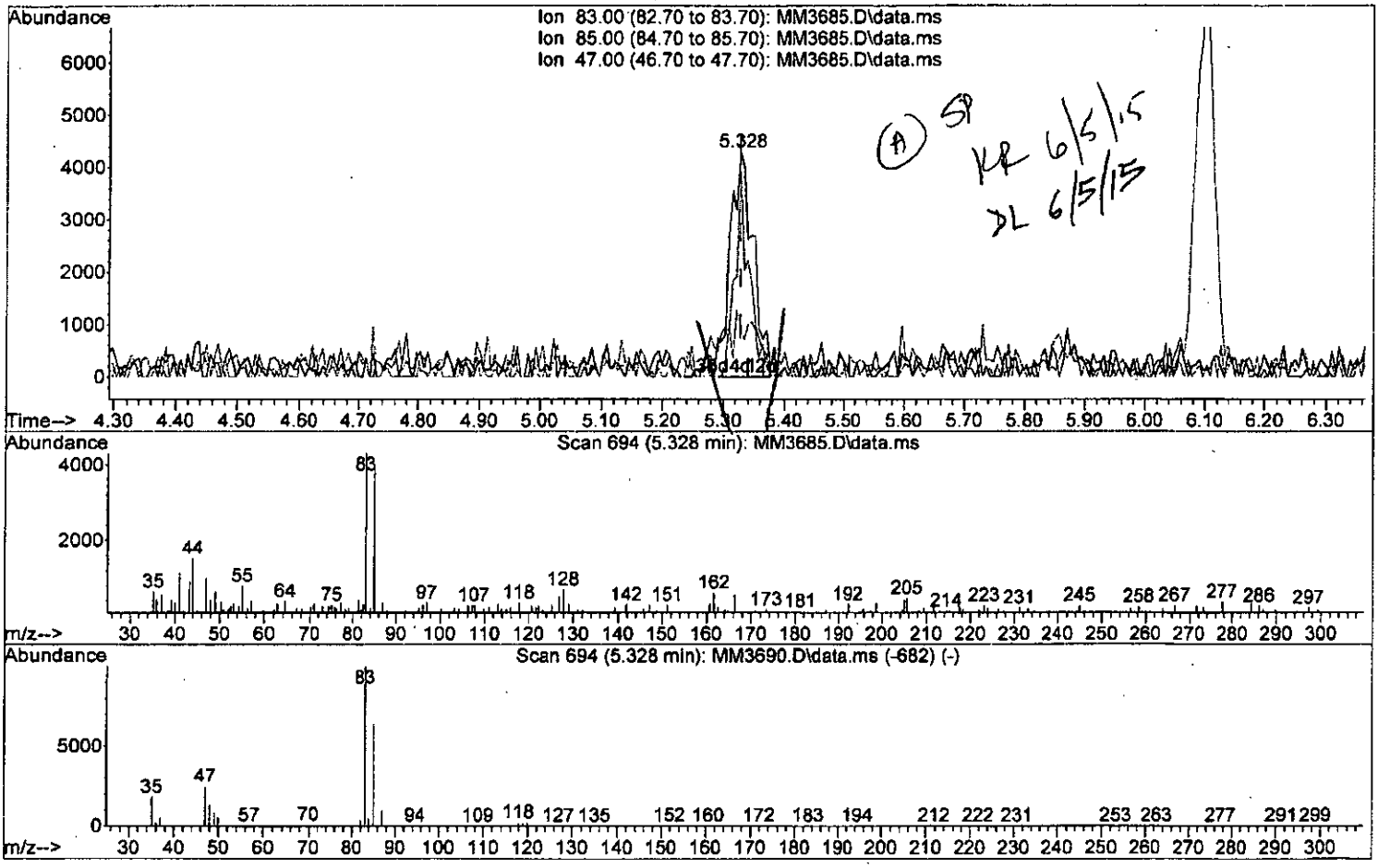
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	67.45
47.00	24.70	39.15
0.00	0.00	0.00

00111

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.88 ppb m

response 11210

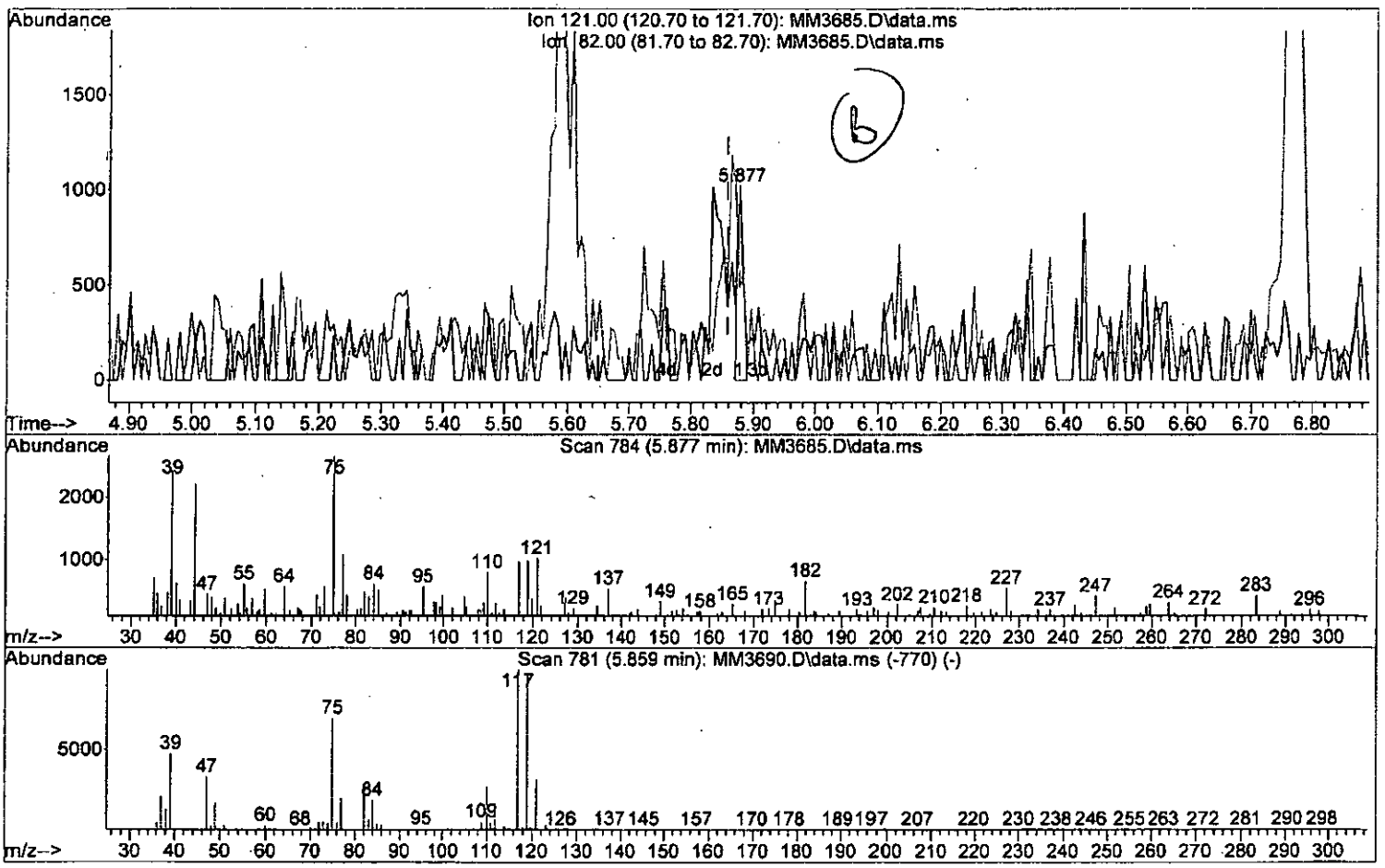
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	91.18#
47.00	24.70	23.57
0.00	0.00	0.00

00112

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(46) Carbontetrachloride (P)

5.877min (+0.018) 0.20 ppb

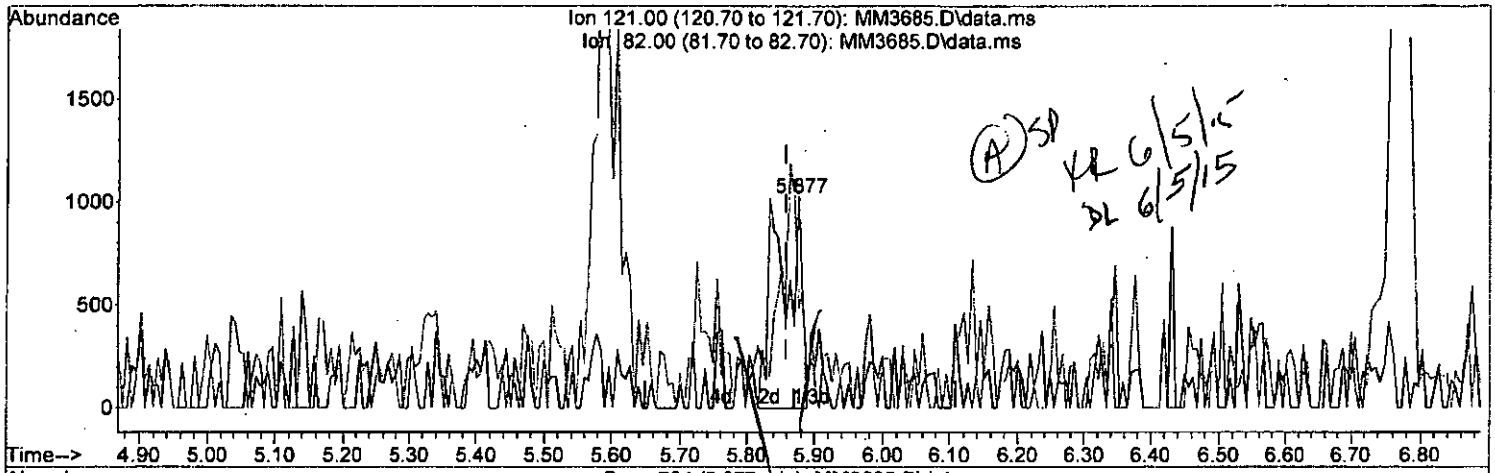
response 634

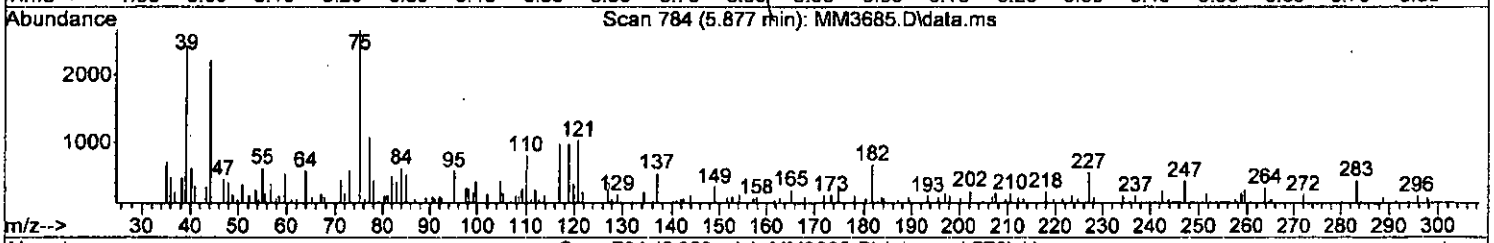
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	47.31#
0.00	0.00	0.00
0.00	0.00	0.00

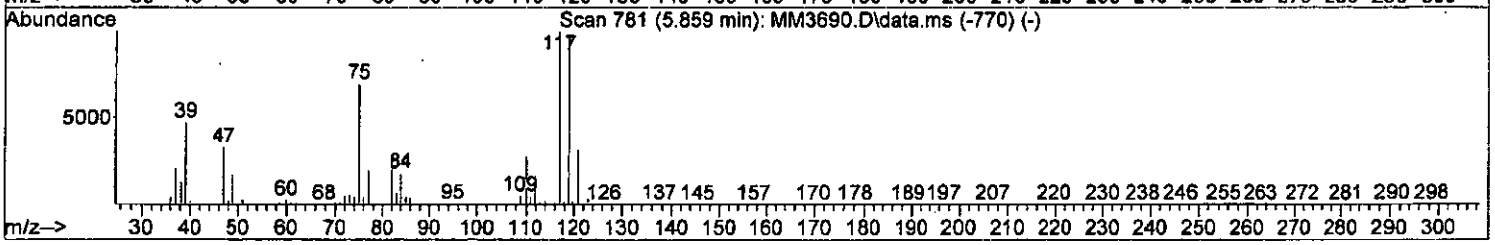
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(46) Carbontetrachloride (P)

5.877min (+0.018) 0.78 ppb m

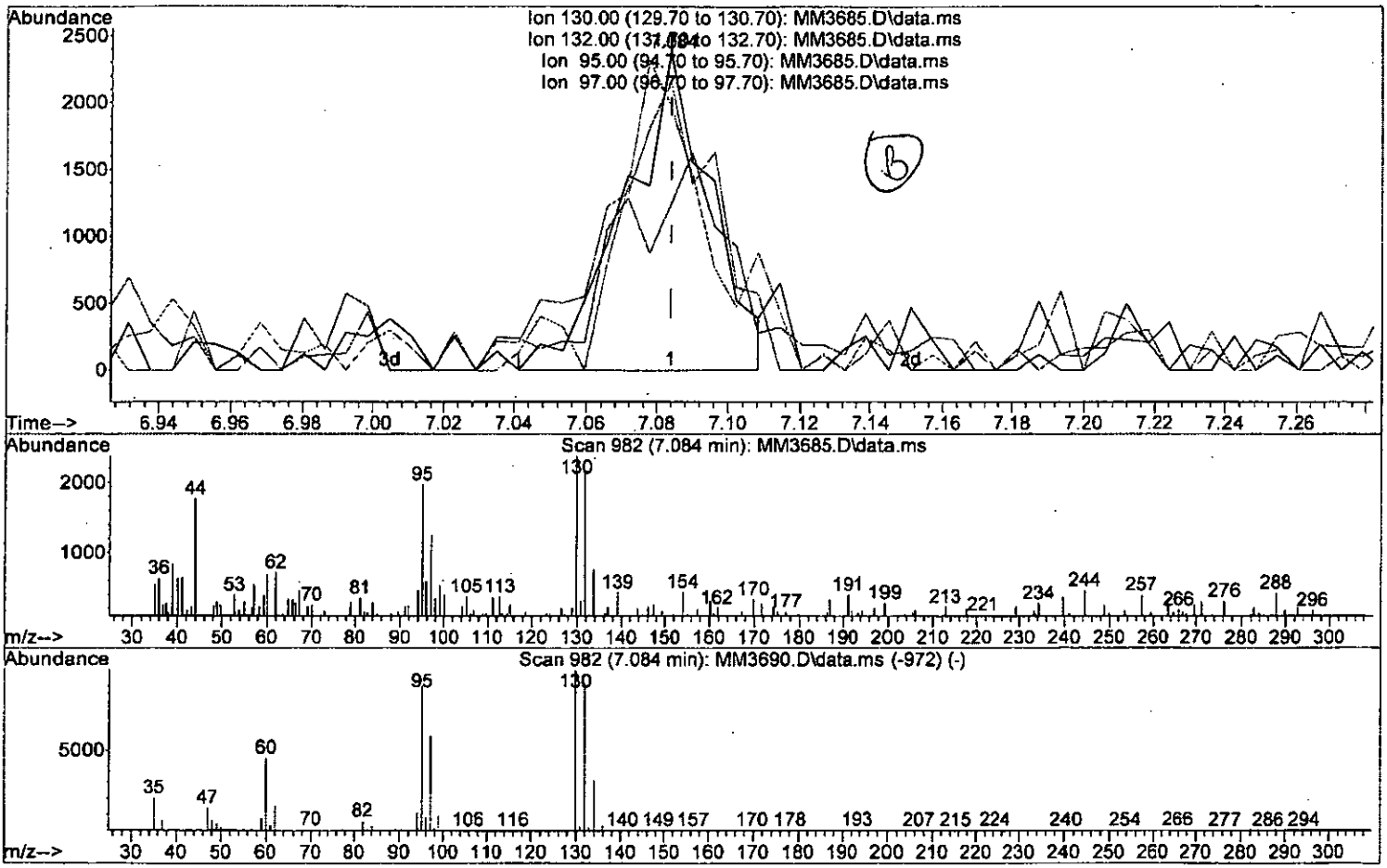
response 2524

Ion	Exp%	Act%
121.00	100	100
82.00	93.50	47.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(54) Trichloroethene (P)

7.084min (-0.000) 0.50 ppb

response 3972

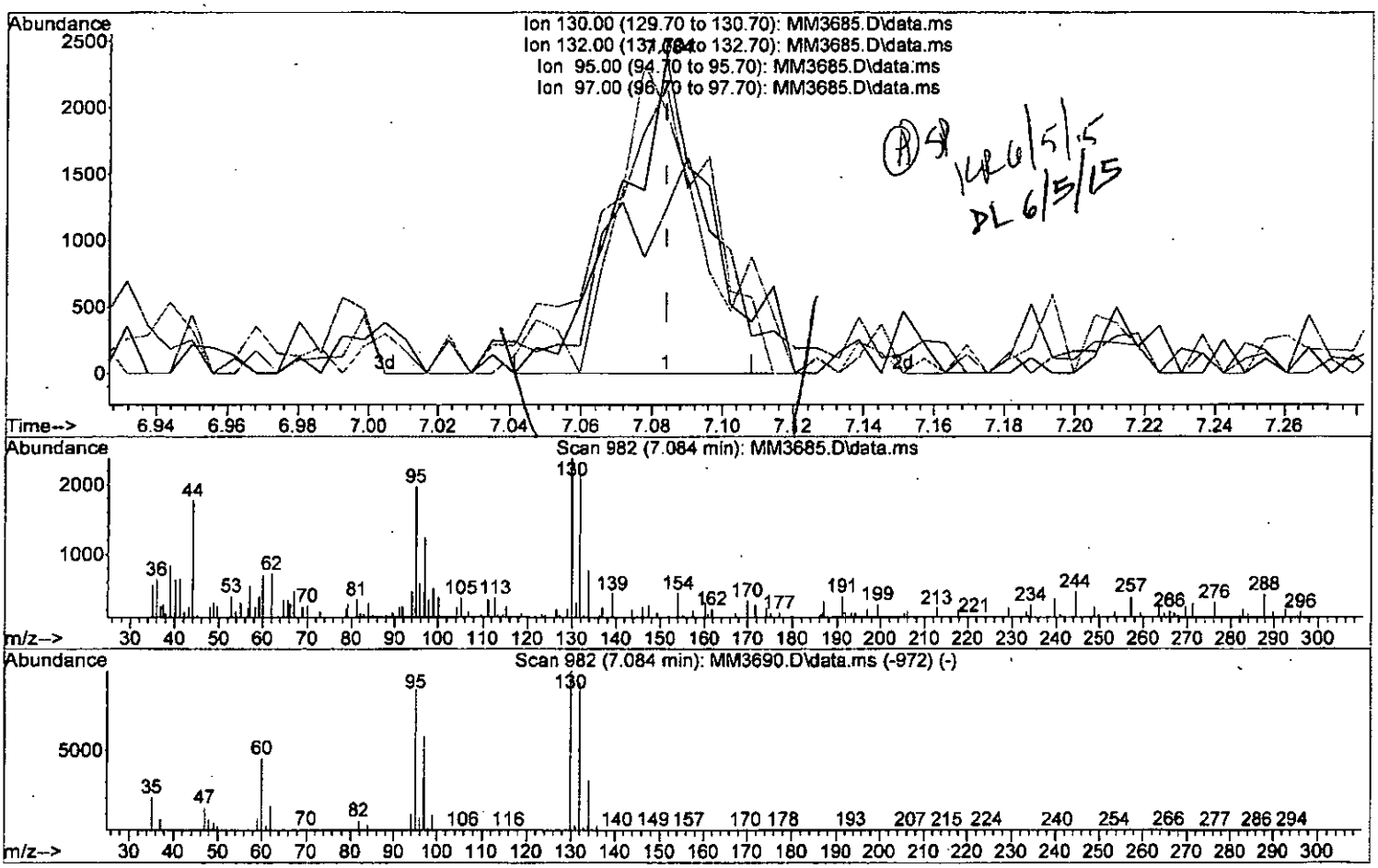
Ion	Exp%	Act%
130.00	100	100
132.00	92.70	95.58
95.00	89.80	82.90
97.00	58.80	52.23

09115

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(54) Trichloroethene (P)

7.084min (-0.000) 0.53 ppb m

response 4211

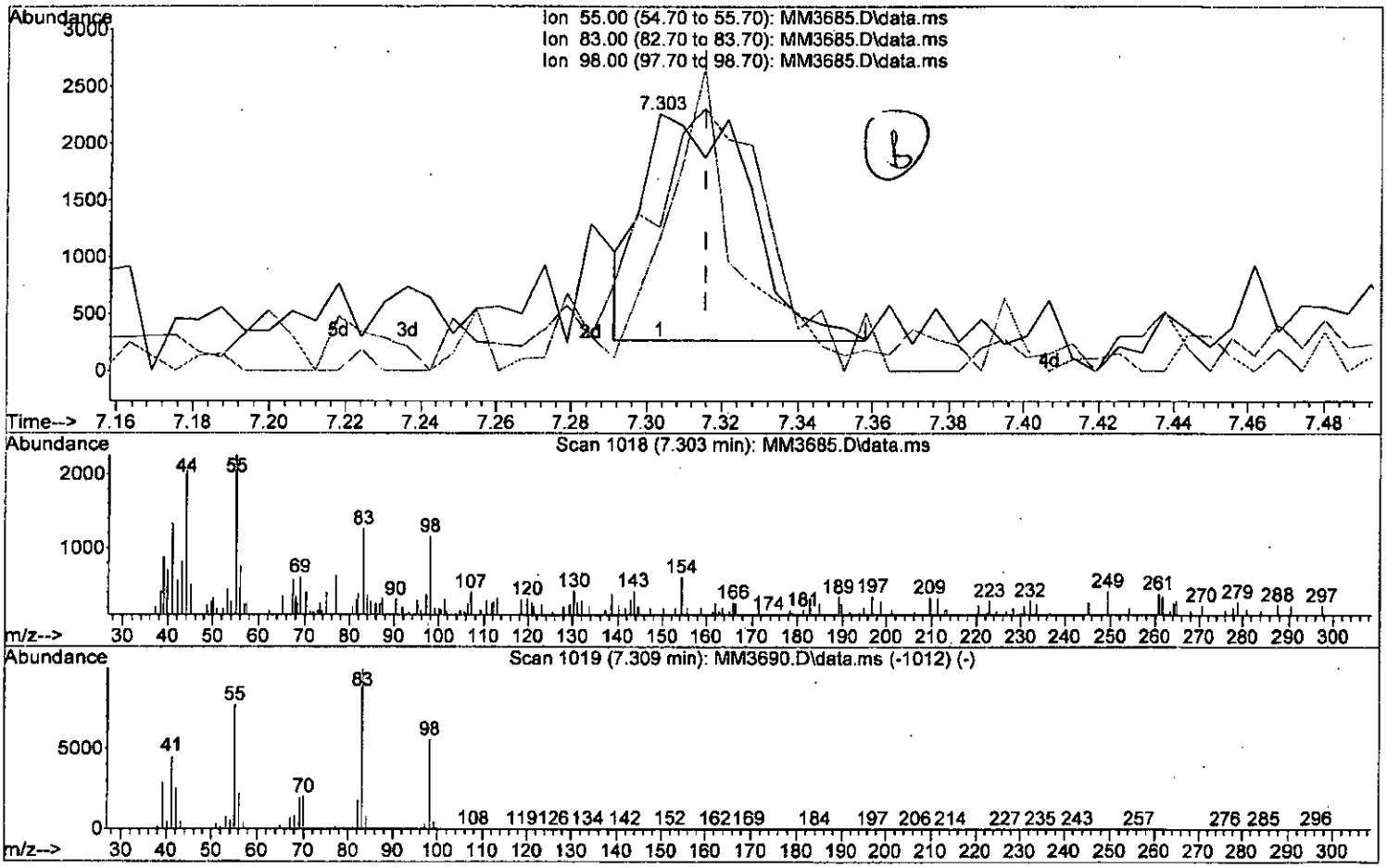
Ion	Exp%	Act%
130.00	100	100
132.00	92.70	90.69
95.00	89.80	82.90
97.00	58.80	52.23

00116

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(55) Methylcyclohexane (P)

7.303min (-0.012) 0.53 ppb

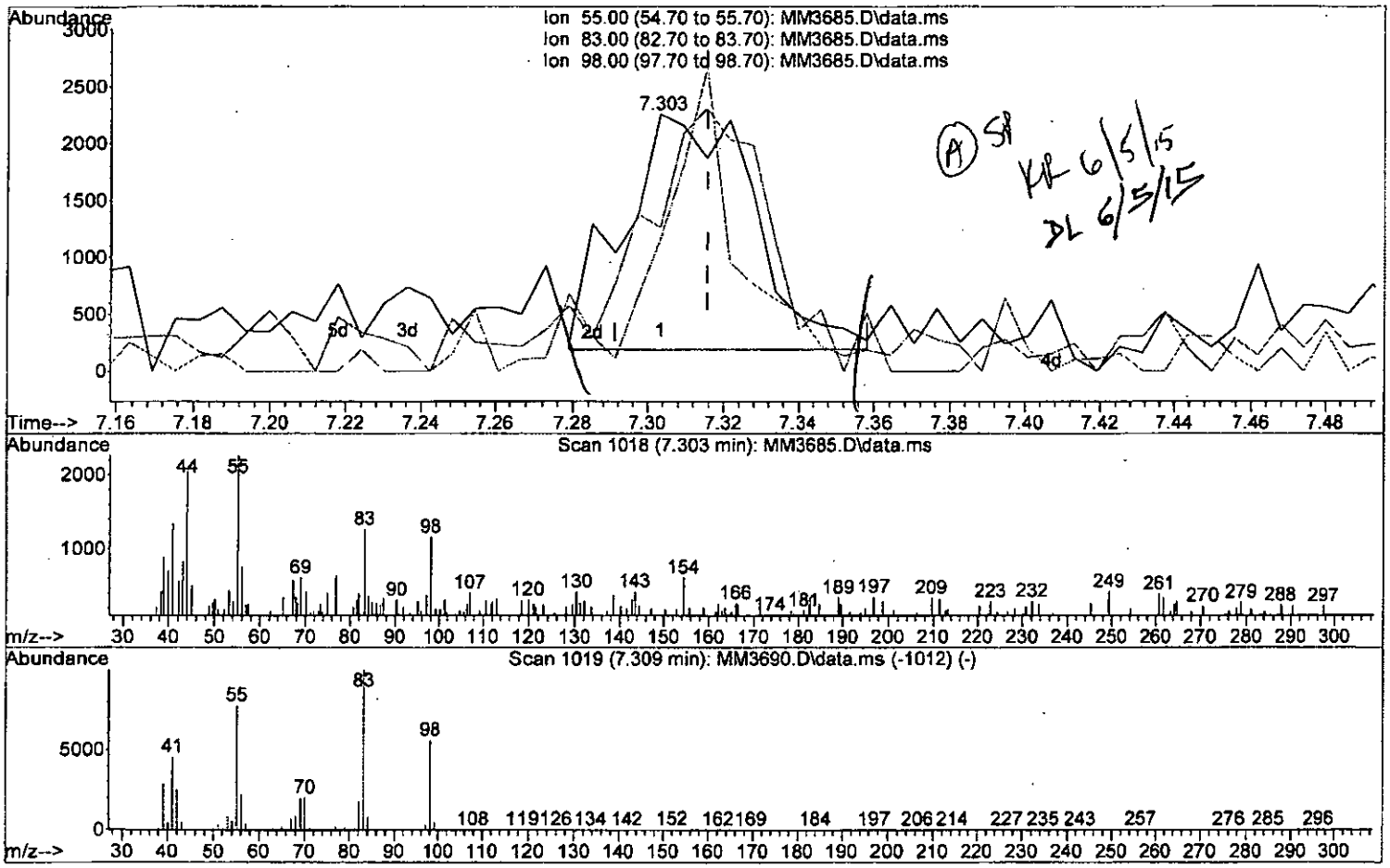
response 3924

Ion	Exp%	Act%
55.00	100	100
83.00	129.00	55.88#
98.00	71.90	51.31#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



A SR KR 6/5/15 DL 6/5/15

TIC: MM3685.D\data.ms

(55) Methylcyclohexane (P)

7.303min (-0.012) 0.67 ppb m

response 4943

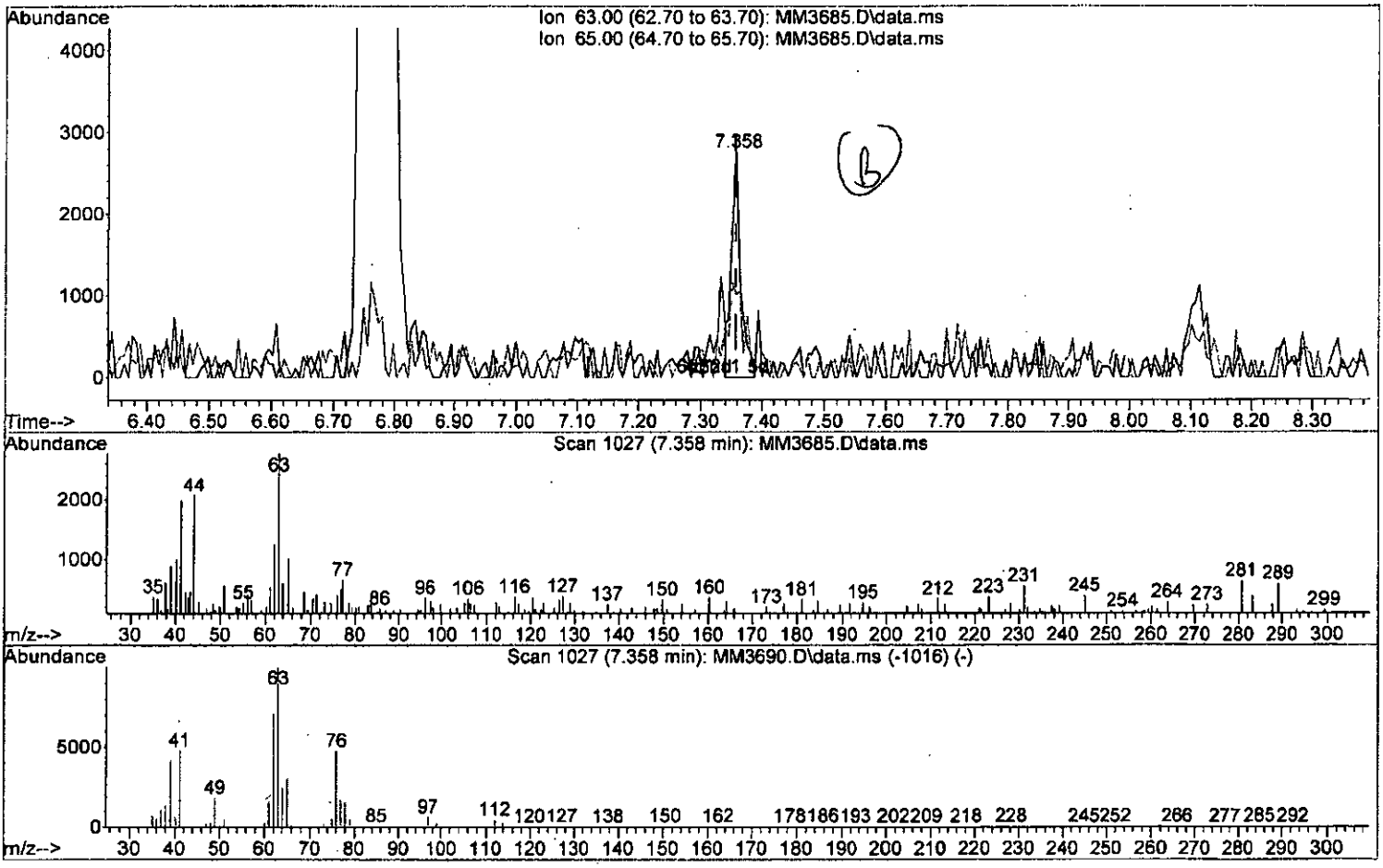
Ion	Exp%	Act%
55.00	100	100
83.00	129.00	55.88#
98.00	71.90	51.31#
0.00	0.00	0.00

00118

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(56) 1,2-Dichloropropane (P)

7.358min (-0.000) 0.41 ppb

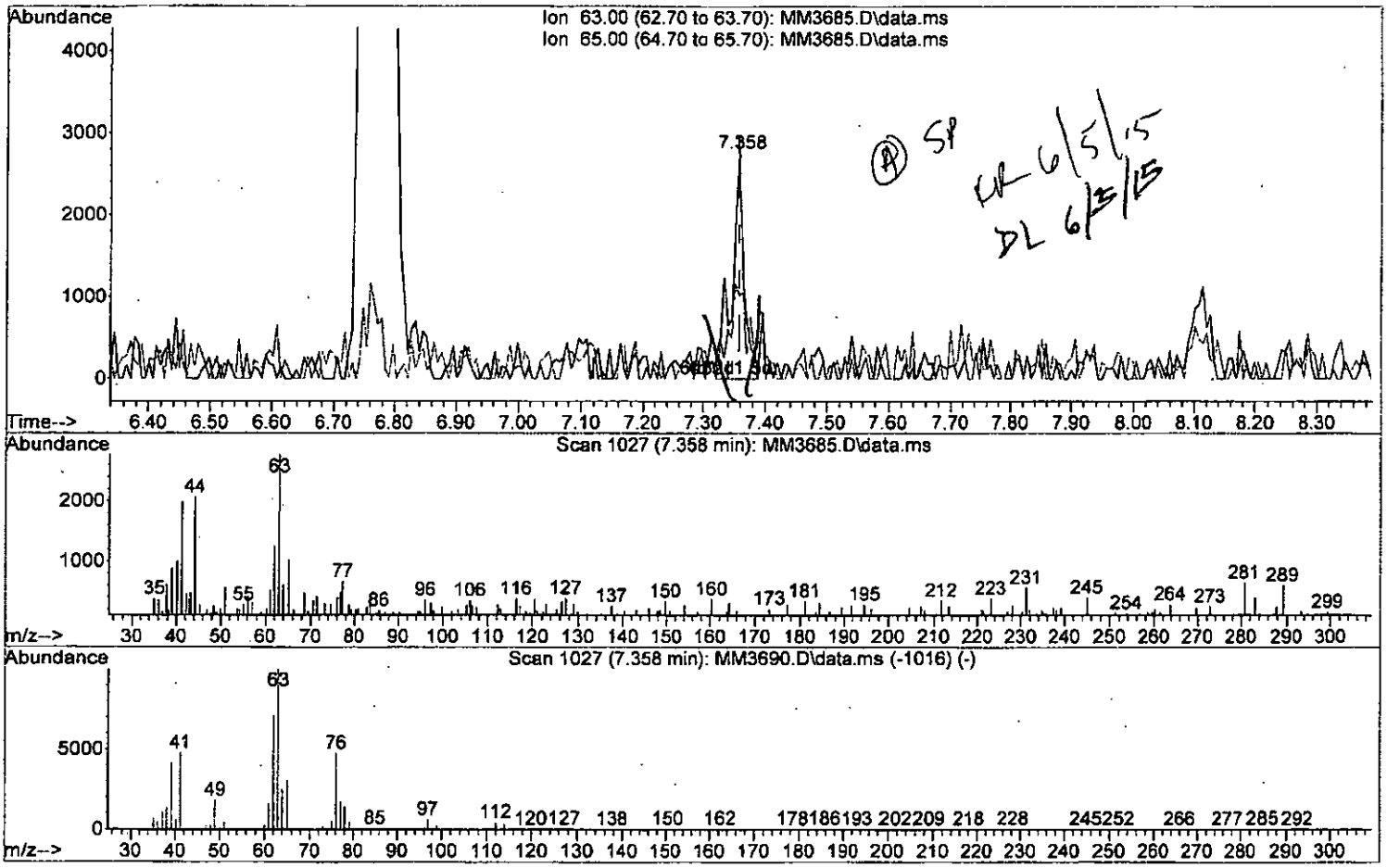
response 2882

Ion	Exp%	Act%
63.00	100	100
65.00	30.60	36.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(56) 1,2-Dichloropane (P)

7.358min (-0.000) 0.53 ppb m

response 3747

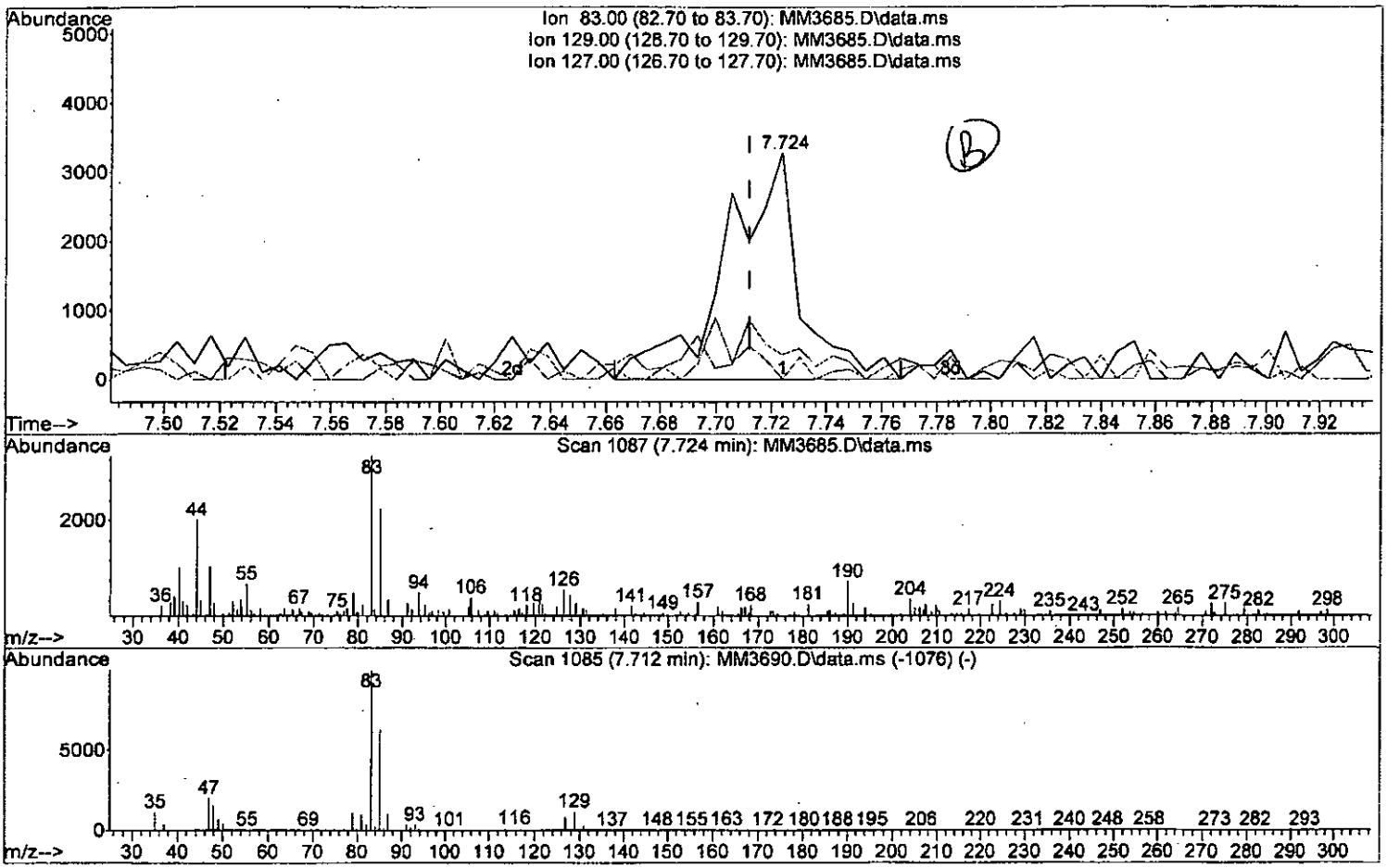
Ion	Exp%	Act%
63.00	100	100
65.00	30.60	36.88
0.00	0.00	0.00
0.00	0.00	0.00

00120

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(60) Bromodichloromethane (P)

7.724min (+0.012) 0.59 ppb

response 6106

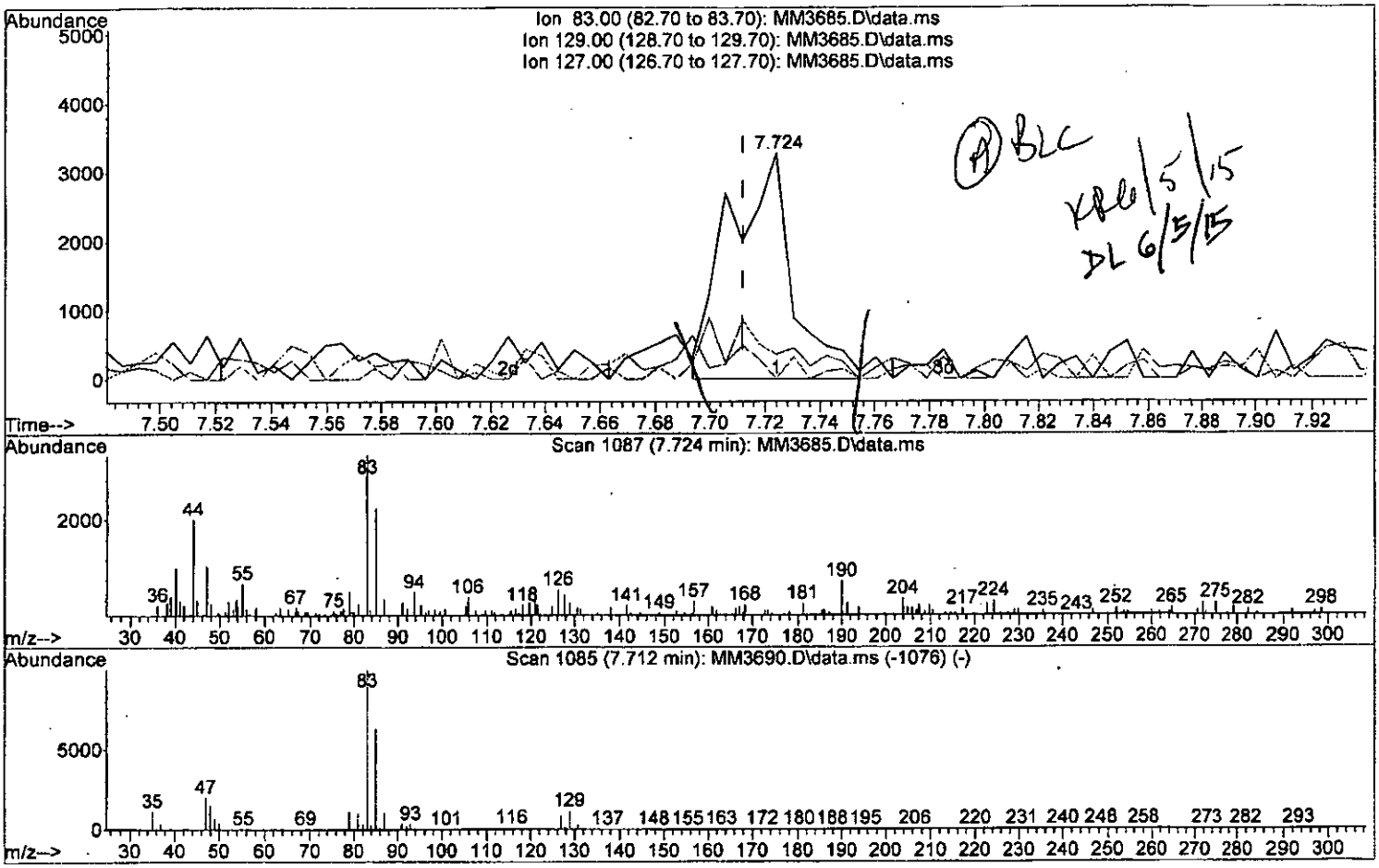
Ion	Exp%	Act%
83.00	100	100
129.00	11.70	10.04
127.00	8.00	14.10
0.00	0.00	0.00

00121

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(60) Bromodichloromethane (P)

7.724min (+0.012) 0.50 ppb m

response 5195

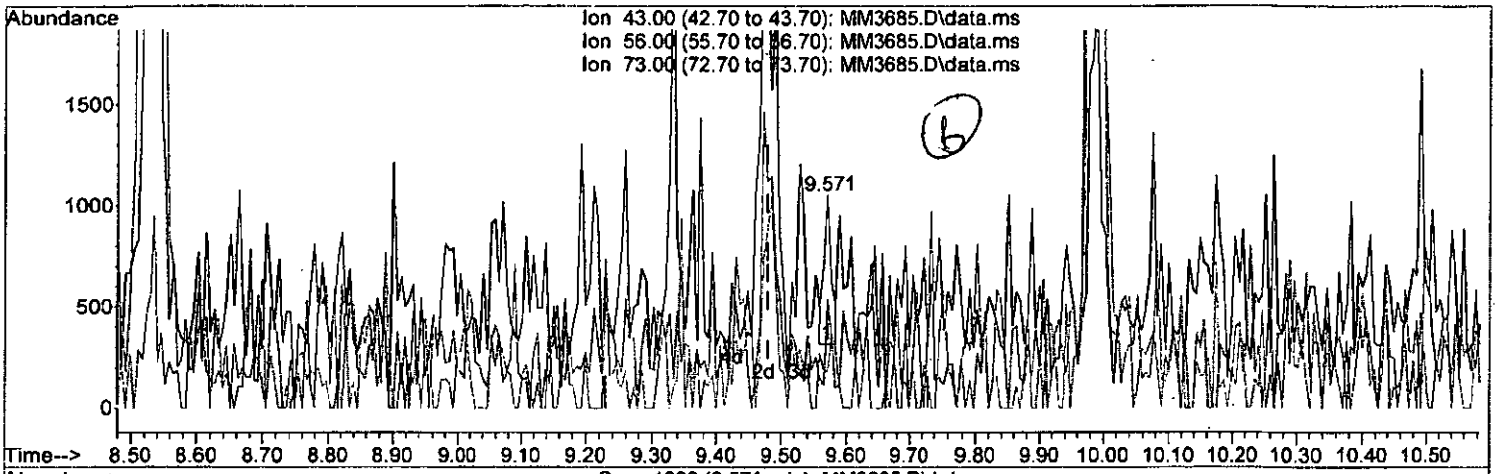
Ion	Exp%	Act%
83.00	100	100
129.00	11.70	10.68
127.00	8.00	14.99
0.00	0.00	0.00

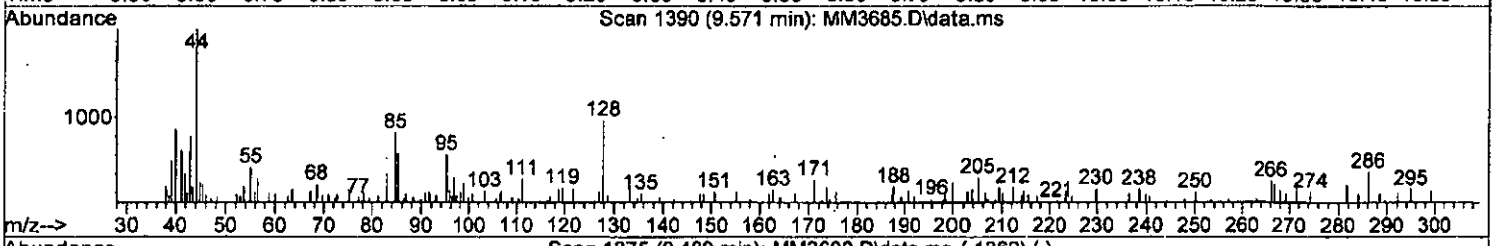
00122

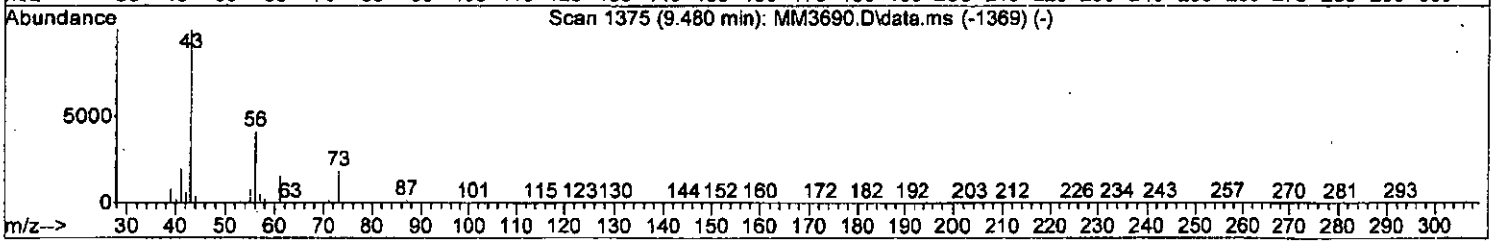
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3685.D\data.ms

(76) N-Butyl Acetate

9.571min (+0.091) 0.08 ppb

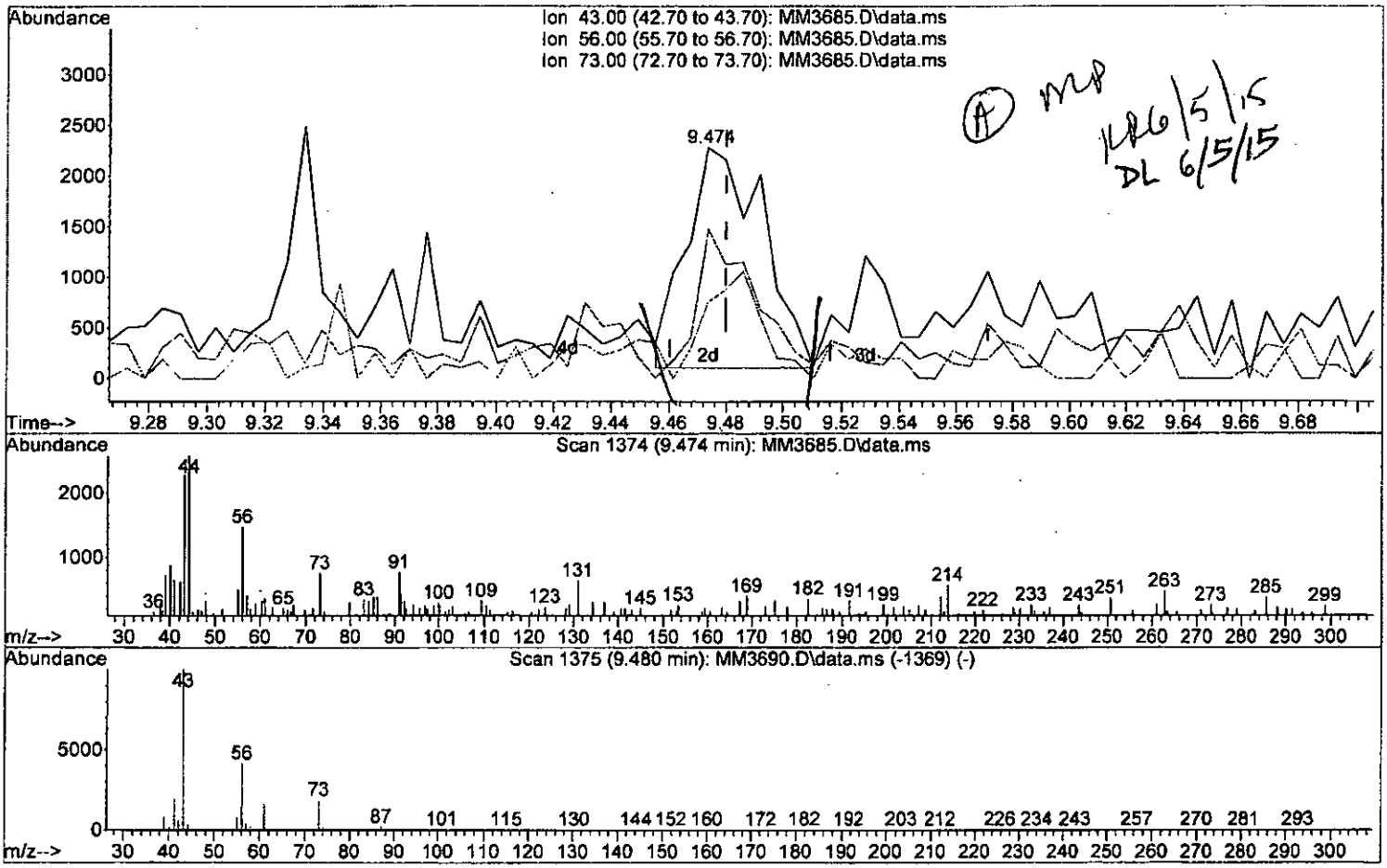
response 587

Ion	Exp%	Act%
43.00	100	100
56.00	41.30	51.19
73.00	18.50	17.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(76) N-Butyl Acetate

9.474min (-0.006) 0.55 ppb m

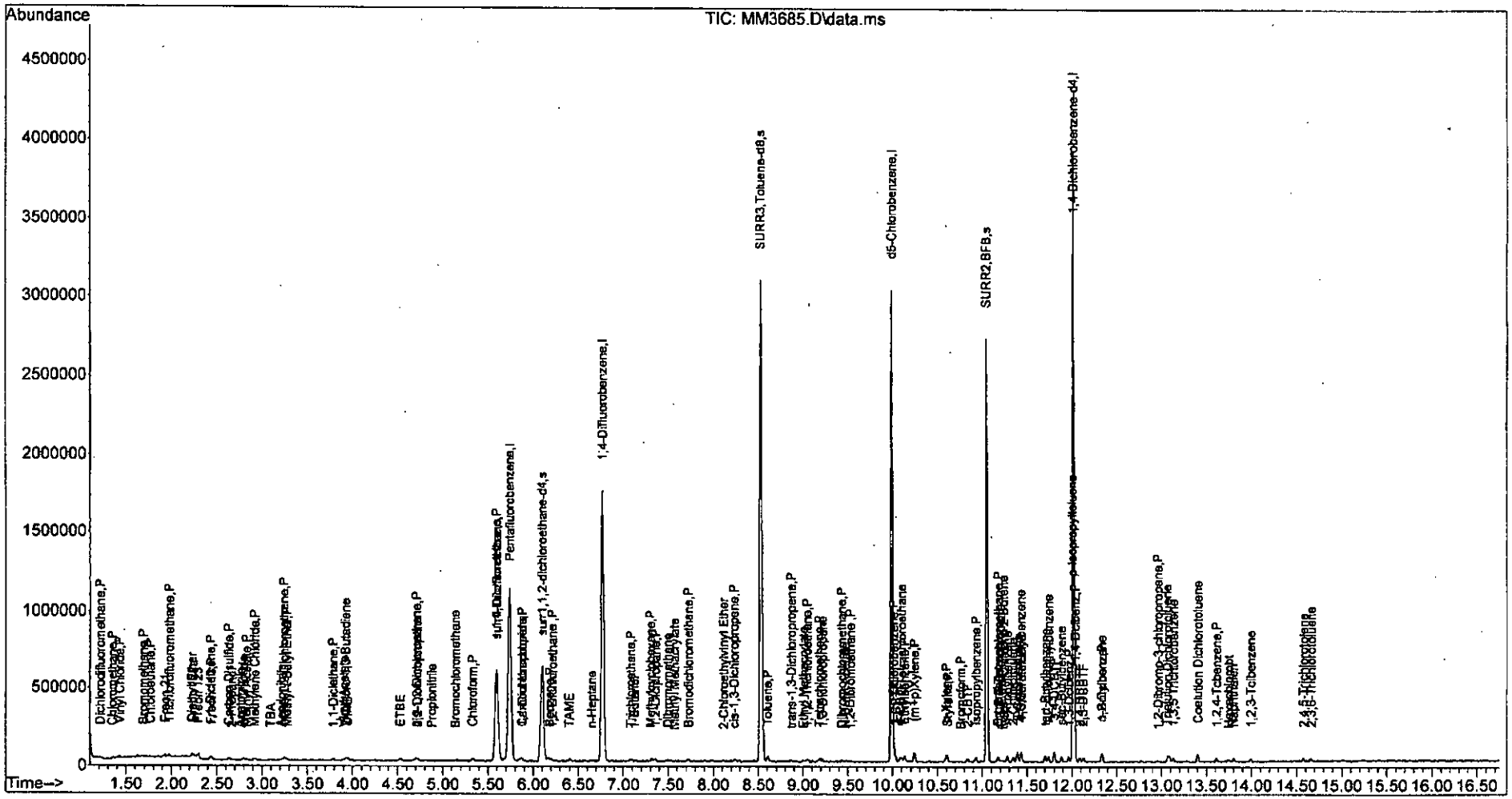
response 4043

Ion	Exp%	Act%
43.00	100	100
56.00	41.30	64.41#
73.00	18.50	32.95
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 05 08:58:01 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:12:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	898779	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1482497	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1392808	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	737650	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	426443	53.16	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.32%				
48) surr1,1,2-dichloroetha...	6.096	65	463968	54.14	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 108.28%				
65) SURR3,Toluene-d8	8.529	98	1893219	54.03	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.06%				
70) SURR2,BFB	11.047	95	716465	53.82	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	7862m	1.01	ppb		
3) Chloromethane	1.341	50	7955	1.07	ppb		100
4) Vinyl Chloride	1.427	62	9985	1.07	ppb		87
5) Bromomethane	1.683	94	5149m	0.94	ppb		
6) Chloroethane	1.762	64	6859	1.10	ppb		98
7) Freon 21	1.927	67	16186	1.04	ppb		92
8) Trichlorofluoromethane	1.975	101	15234	1.09	ppb		89
9) Diethyl Ether	2.231	59	7133	1.15	ppb	#	81
10) Freon 123a	2.231	67	11569	1.15	ppb	#	65
11) Freon 123	2.298	83	13449	1.16	ppb		92
12) Acrolein	2.341	56	3763m	5.80	ppb		
13) 1,1-Diclethene	2.426	96	7725	1.17	ppb	#	82
14) Freon 113	2.439	101	7180	1.10	ppb		97
16) 2-Propanol	2.652	45	5217	21.07	ppb		73
17) Iodomethane	2.573	142	3936	0.57	ppb		82
18) Carbon Disulfide	2.634	76	22191	1.05	ppb		94
19) Acetonitrile	2.762	40	1252	7.60	ppb	#	44
20) Allyl Chloride	2.798	76	4351	1.09	ppb	#	78
21) Methyl Acetate	2.829	43	2931	1.07	ppb		78
22) Methylene Chloride	2.920	84	8172	1.16	ppb	#	79
23) TBA	3.097	59	9796	21.95	ppb		99
24) Acrylonitrile	3.213	53	8438m	5.86	ppb		
25) Methyl-t-Butyl Ether	3.262	73	16669	0.97	ppb		69
26) trans-1,2-Dichloroethene	3.243	96	7915	1.07	ppb	#	76
28) 1,1-Diclethane	3.792	63	12550	1.03	ppb		93
29) Vinyl Acetate	3.908	86	1958m	1.34	ppb		
30) DIPE	3.944	45	21806	1.03	ppb		92
31) 2-Chloro-1,3-Butadiene	3.926	53	13718	1.03	ppb		96
32) ETBE	4.524	59	21815	1.03	ppb		89
33) 2,2-Dichloropropane	4.700	77	12209	1.05	ppb		79
34) cis-1,2-Dichloroethene	4.713	96	8353	1.06	ppb		95
37) Bromochloromethane	5.152	130	5385m	1.24	ppb		
38) Methacrylonitrile	5.164	67	2127m	1.10	ppb		
40) Chloroform	5.328	83	13953	1.09	ppb		81

KR 6/5/15

00126

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:12:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	1,1,1-Trichloroethane	5.597	97	12945m	1.04	ppb		
42)	TAME	6.401	73	20708	1.12	ppb		90
44)	Cyclohexane	5.676	41	7950m	1.18	ppb		
46)	Carbontetrachloride	5.865	121	3282m	1.02	ppb		
47)	1,1-Dichloropropene	5.877	75	10461	1.03	ppb		97
49)	Benzene	6.176	78	29582	1.01	ppb		99
50)	1,2-Dichloroethane	6.212	62	10498	1.11	ppb		85
51)	Iso-Butyl Alcohol	6.206	43	6644	34.04	ppb	#	72
52)	n-Heptane	6.639	43	7028	1.12	ppb		91
53)	1-Butanol	7.121	56	6136	49.51	ppb	#	67
54)	Trichloroethene	7.090	130	7589	0.96	ppb		94
55)	Methylcyclohexane	7.304	55	6957	0.94	ppb	#	70
56)	1,2-Diclpropane	7.346	63	7794m	1.11	ppb		
57)	Dibromomethane	7.493	93	4299	1.14	ppb	#	78
59)	Methyl Methacrylate	7.584	69	3393	0.97	ppb	#	71
60)	Bromodichloromethane	7.712	83	11072	1.07	ppb		90
61)	2-Nitropropane	7.992	41	2664	2.02	ppb		84
62)	2-Chloroethylvinyl Ether	8.102	63	3077	0.95	ppb		77
63)	cis-1,3-Dichloropropene	8.236	75	11972	1.01	ppb		88
64)	4-Methyl-2-pentanone	8.438	43	4764	1.19	ppb		86
66)	Toluene	8.602	91	34813	1.03	ppb		93
67)	trans-1,3-Dichloropropene	8.864	75	10184	1.01	ppb		93
68)	Ethyl Methacrylate	9.004	69	6676	0.91	ppb		86
69)	1,1,2-Trichloroethane	9.053	97	5608m	1.03	ppb		
72)	Tetrachloroethene	9.181	164	7062m	1.11	ppb		
74)	1,3-Dichloropropane	9.212	76	8436	0.92	ppb		82
75)	Dibromochloromethane	9.437	129	6989	1.02	ppb		83
76)	N-Butyl Acetate	9.480	43	7823	1.06	ppb		84
77)	1,2-Dibromoethane	9.529	107	6143	1.14	ppb		98
78)	Chlorobenzene	10.016	112	21963	0.97	ppb		91
79)	3-CBTF	10.029	180	10188	0.95	ppb	#	84
80)	4-CBTF	10.077	180	9297	0.96	ppb		87
81)	1,1,1,2-Tetrachloroethane	10.102	131	6888	0.89	ppb		97
82)	Ethylbenzene	10.126	106	12326	1.00	ppb	#	89
83)	(m+p)Xylene	10.242	106	30514	2.04	ppb		95
84)	o-Xylene	10.596	106	13238	0.91	ppb		97
85)	Styrene	10.608	104	24833	1.00	ppb		88
87)	Bromoform	10.754	173	3550	0.94	ppb		96
88)	2-CBTF	10.833	180	10701	1.00	ppb	#	83
89)	Isopropylbenzene	10.925	105	35223	1.03	ppb		90
90)	Cyclohexanone	10.992	55	4160	20.19	ppb		83
91)	trans-1,4-Dichloro-2-B...	11.230	53	2126	1.15	ppb		81
92)	1,1,2,2-Tetrachloroethane	11.181	83	5961	0.96	ppb		97
93)	Bromobenzene	11.175	156	8771	1.03	ppb	#	81
94)	1,2,3-Trichloropropane	11.211	110	2376	1.25	ppb	#	59
95)	n-Propylbenzene	11.278	91	37856	0.98	ppb		98
96)	2-Chlorotoluene	11.339	91	21520	0.91	ppb		96
97)	3-Chlorotoluene	11.394	91	23749m	0.94	ppb		
98)	4-Chlorotoluene	11.437	91	27364	0.93	ppb		99
99)	1,3,5-Trimethylbenzene	11.431	105	30440	1.04	ppb		96
100)	tert-Butylbenzene	11.699	119	22543	0.95	ppb		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:12:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

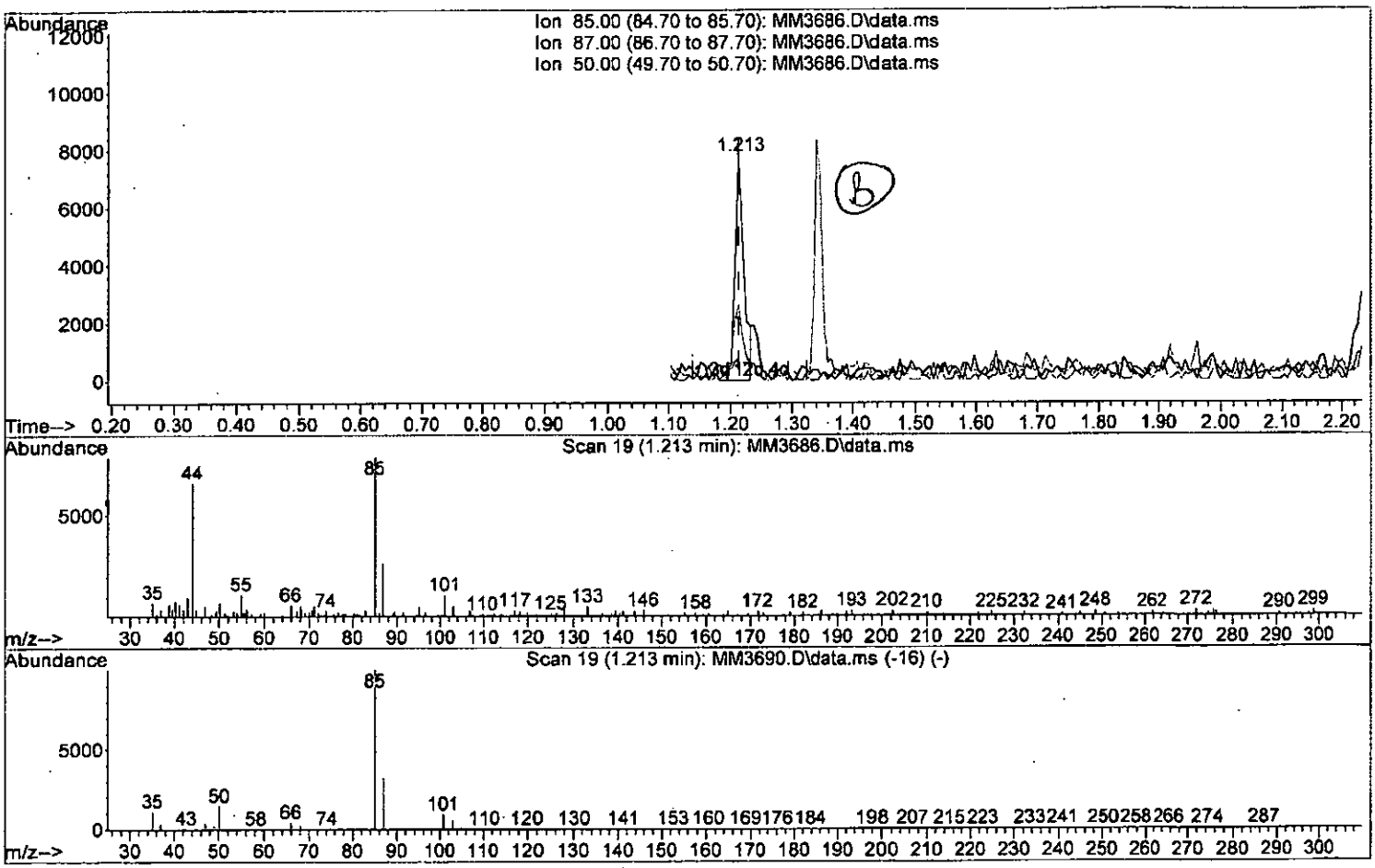
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101)	1,2,4-Trimethylbenzene	11.736	105	29757	1.00	ppb		93
102)	3,4-DCBTF	11.797	214	7070	1.01	ppb	#	86
103)	sec-Butylbenzene	11.882	105	31078	0.96	ppb		98
104)	p-Isopropyltoluene	12.004	119	26453	0.96	ppb		91
105)	1,3-Dclbenz	11.967	146	16930	1.02	ppb		96
106)	1,4-Dclbenz	12.034	146	17661	1.02	ppb		96
107)	2,4-DCBTF	12.089	214	5964	0.96	ppb		89
108)	2,5-DCBTF	12.132	214	6546	0.94	ppb		93
109)	n-Butylbenzene	12.333	91	23410	0.95	ppb		99
110)	1,2-Dclbenz	12.333	146	15397	0.99	ppb		91
111)	1,2-Dibromo-3-chloropr...	12.961	157	1422	1.13	ppb	#	71
112)	Trielution Dichlorotol...	13.077	125	38314	2.93	ppb		95
113)	1,3,5 Trichlorobenzene	13.126	180	10403	1.07	ppb	#	89
114)	Coelution Dichlorotoluene	13.400	125	27567	1.97	ppb	#	89
115)	1,2,4-Tcbenzene	13.607	180	8882	1.00	ppb	#	78
116)	Hexachlorobt	13.747	225	3963	1.16	ppb		96
117)	Naphthalen	13.802	128	18606	0.99	ppb		92
118)	1,2,3-Tclbenzene	13.991	180	6933	0.95	ppb	#	78
119)	2,4,5-Trichlorotolene	14.570	159	6362m	1.09	ppb		
120)	2,3,6-Trichlorotoluene	14.656	159	5661	1.13	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (0.000) 0.98 ppb

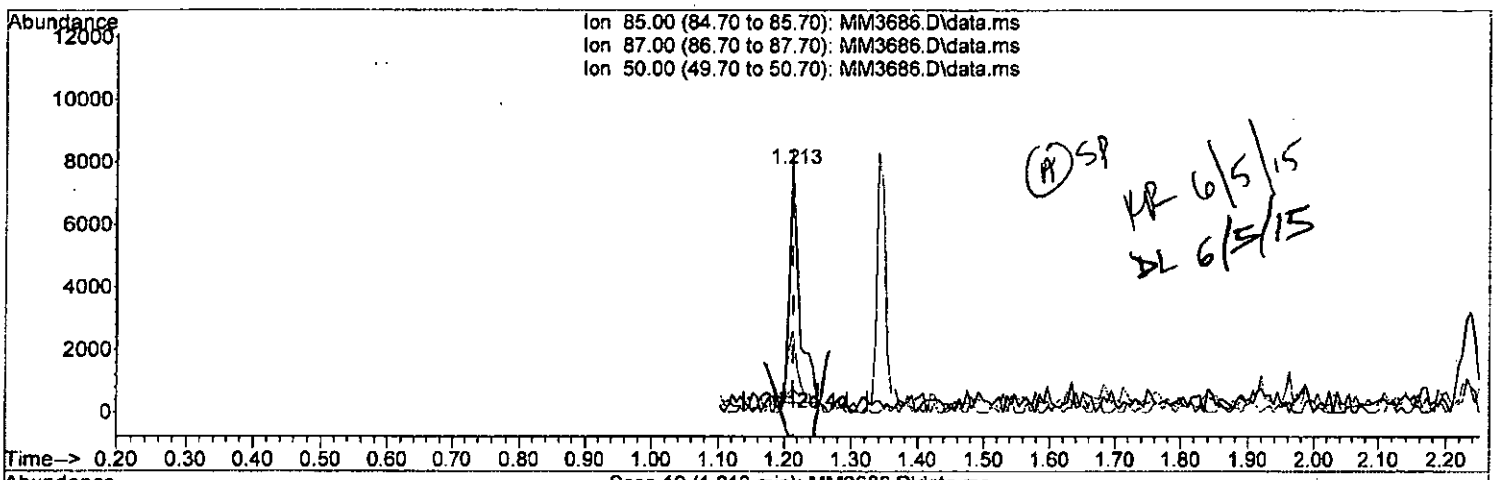
response 7630

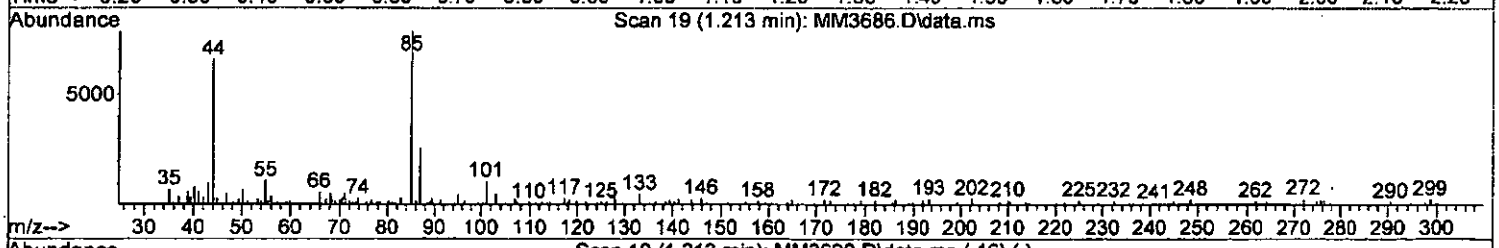
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	33.59
50.00	14.50	9.64
0.00	0.00	0.00

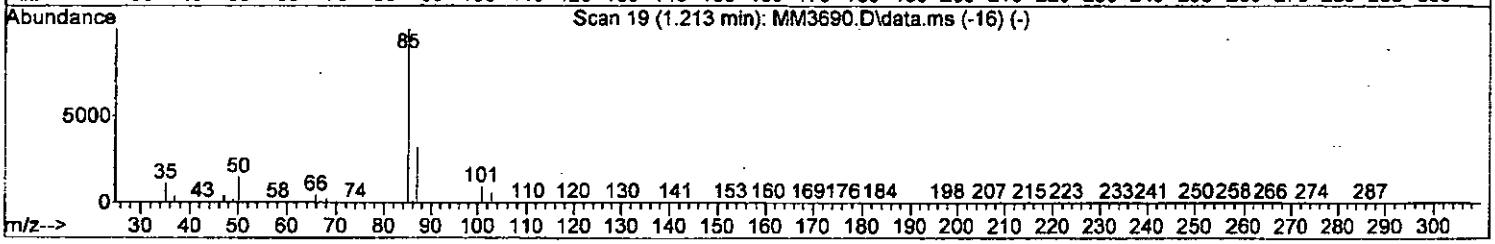
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3686.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (0.000) 1.01 ppb m

response 7862

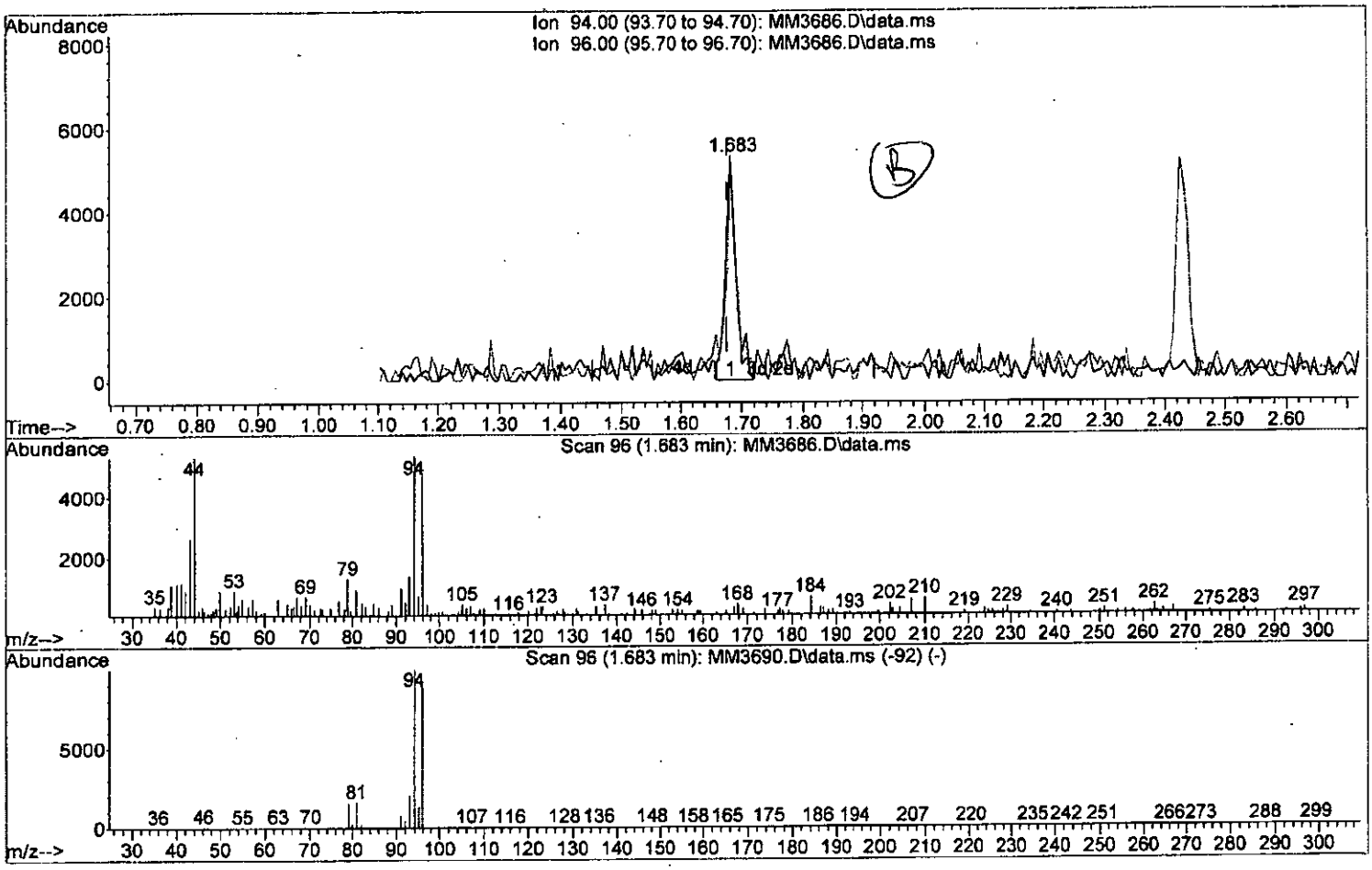
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	33.59
50.00	14.50	9.64
0.00	0.00	0.00

00130

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(5) Bromomethane (P)

1.683min (+0.006) 1.17 ppb

response 6423

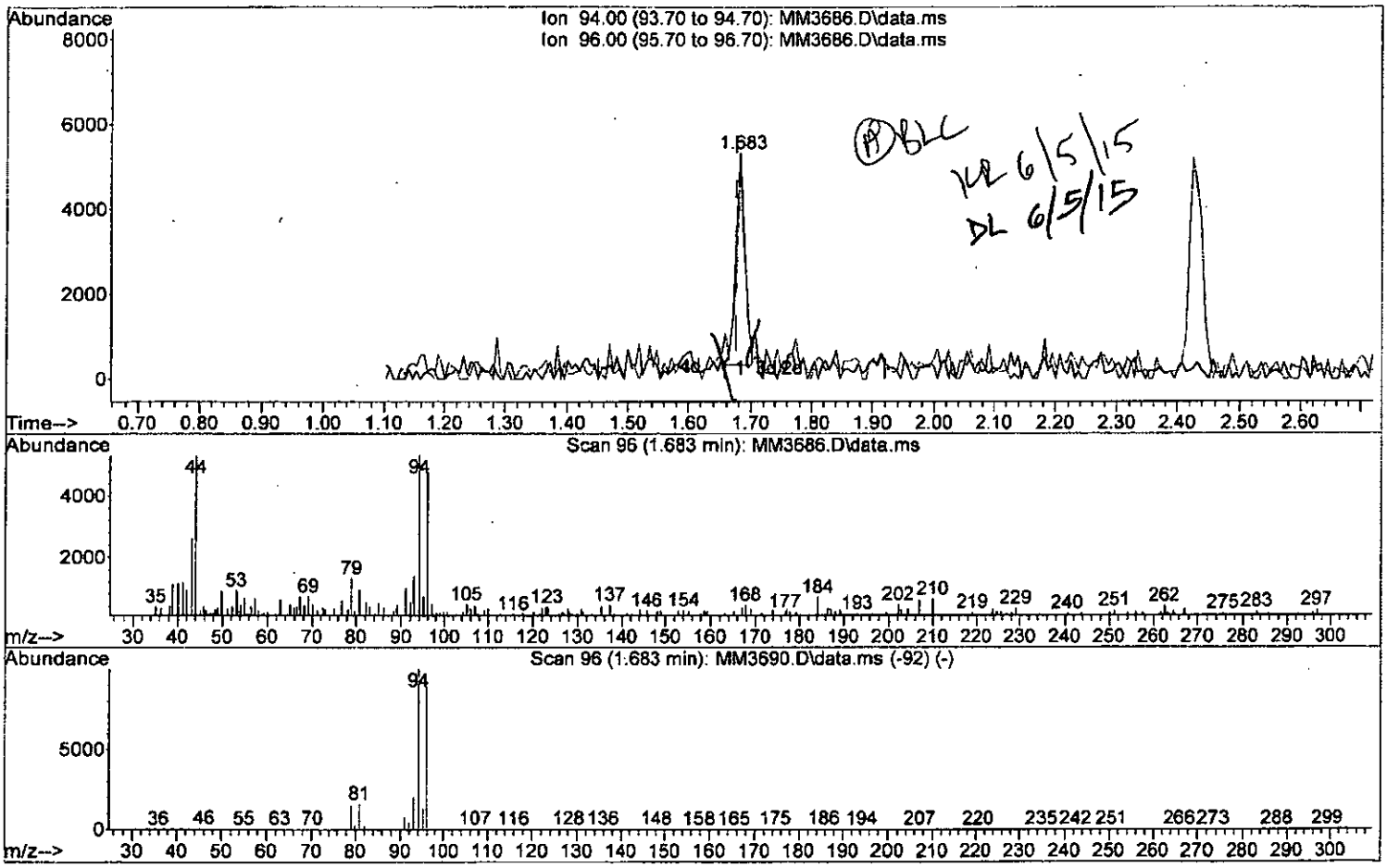
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	90.36
0.00	0.00	0.00
0.00	0.00	0.00

00131

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(5) Bromomethane (P)

1.683min (+0.006) 0.94 ppb m

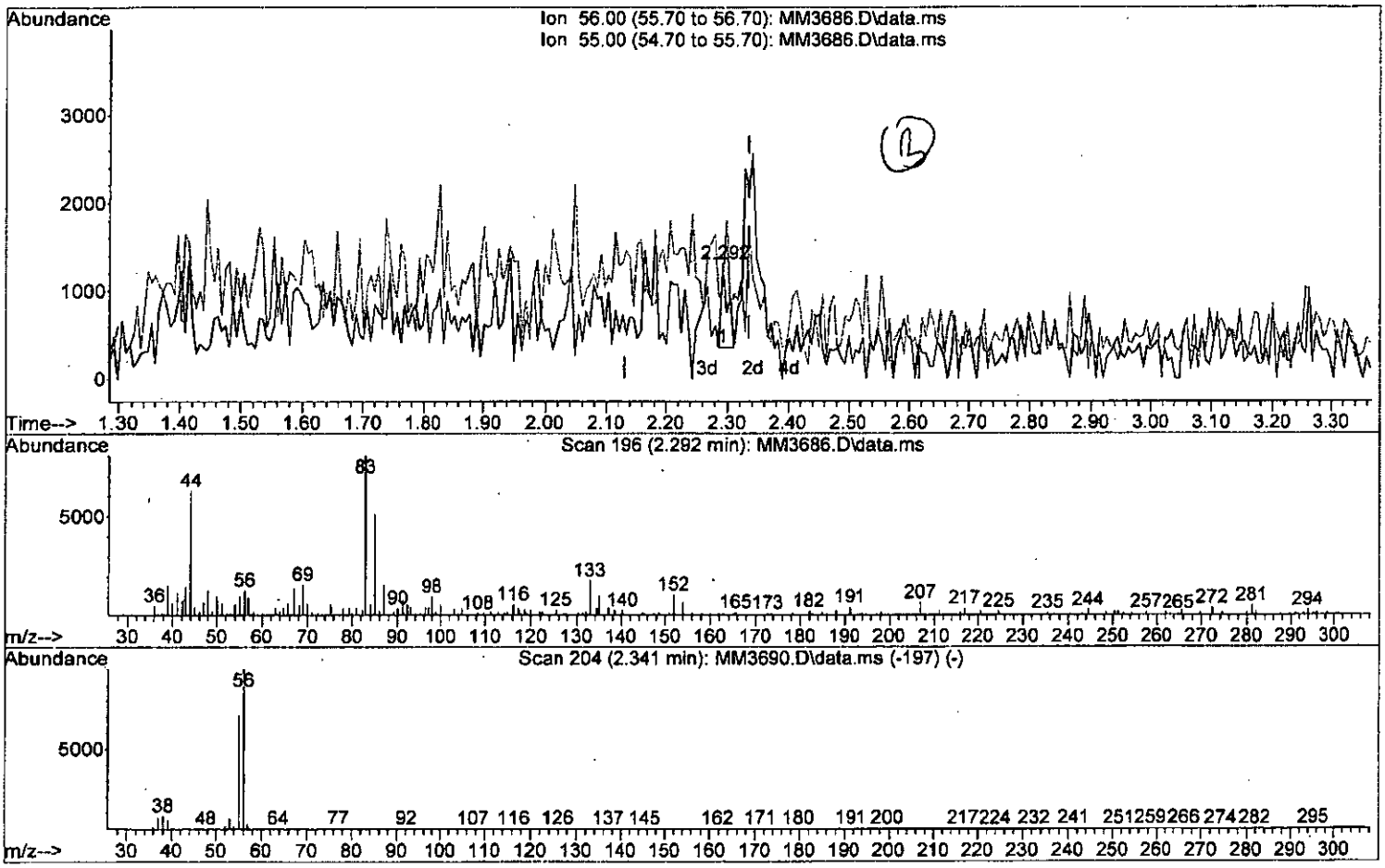
response 5149

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	90.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(12) Acrolein

2.292min (-0.043) 1.08 ppb

response 699

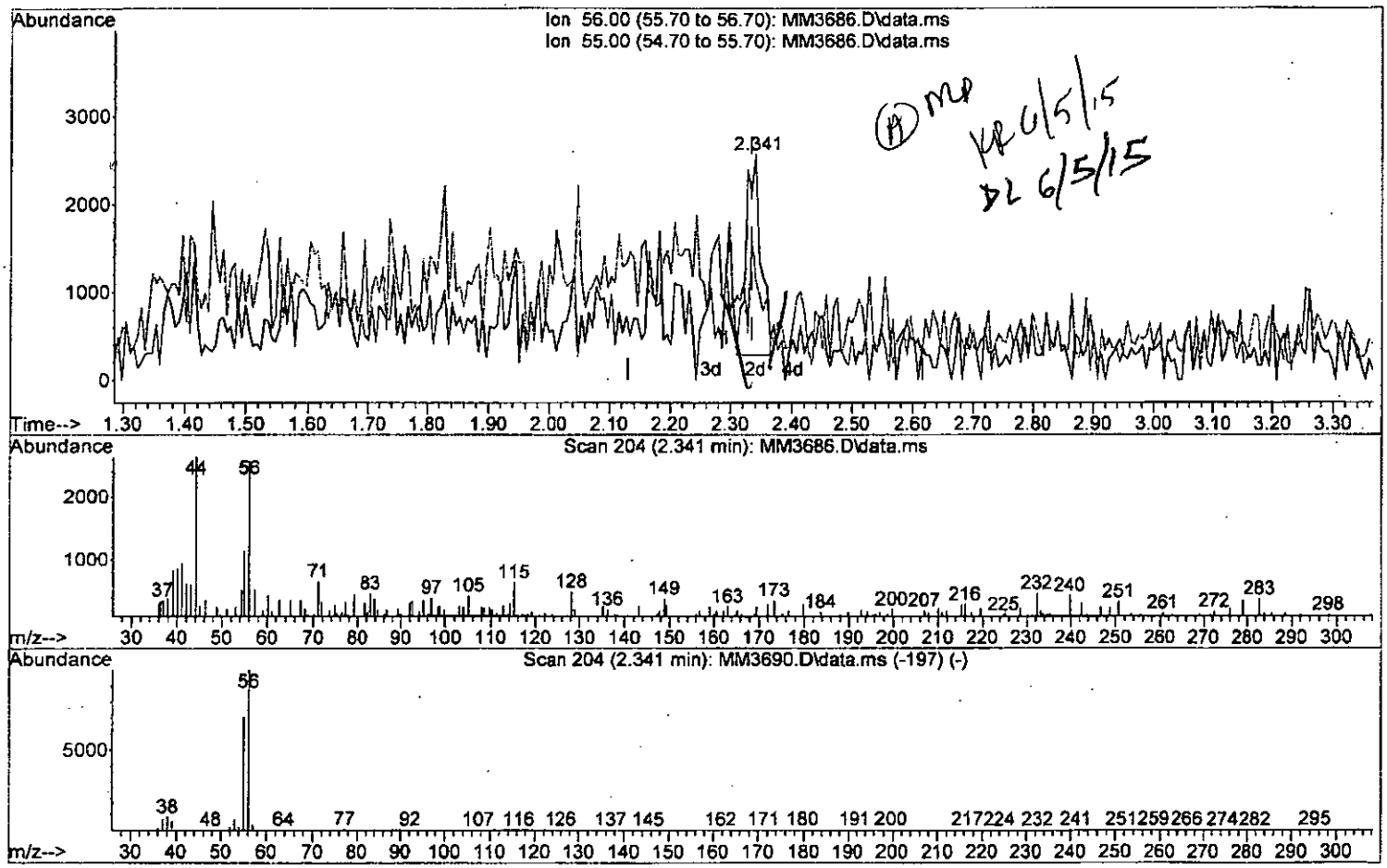
Ion	Exp%	Act%
56.00	100	100
55.00	71.60	78.79
0.00	0.00	0.00
0.00	0.00	0.00

00133

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(12) Acrolein

2.341min (+0.006) 5.80 ppb m

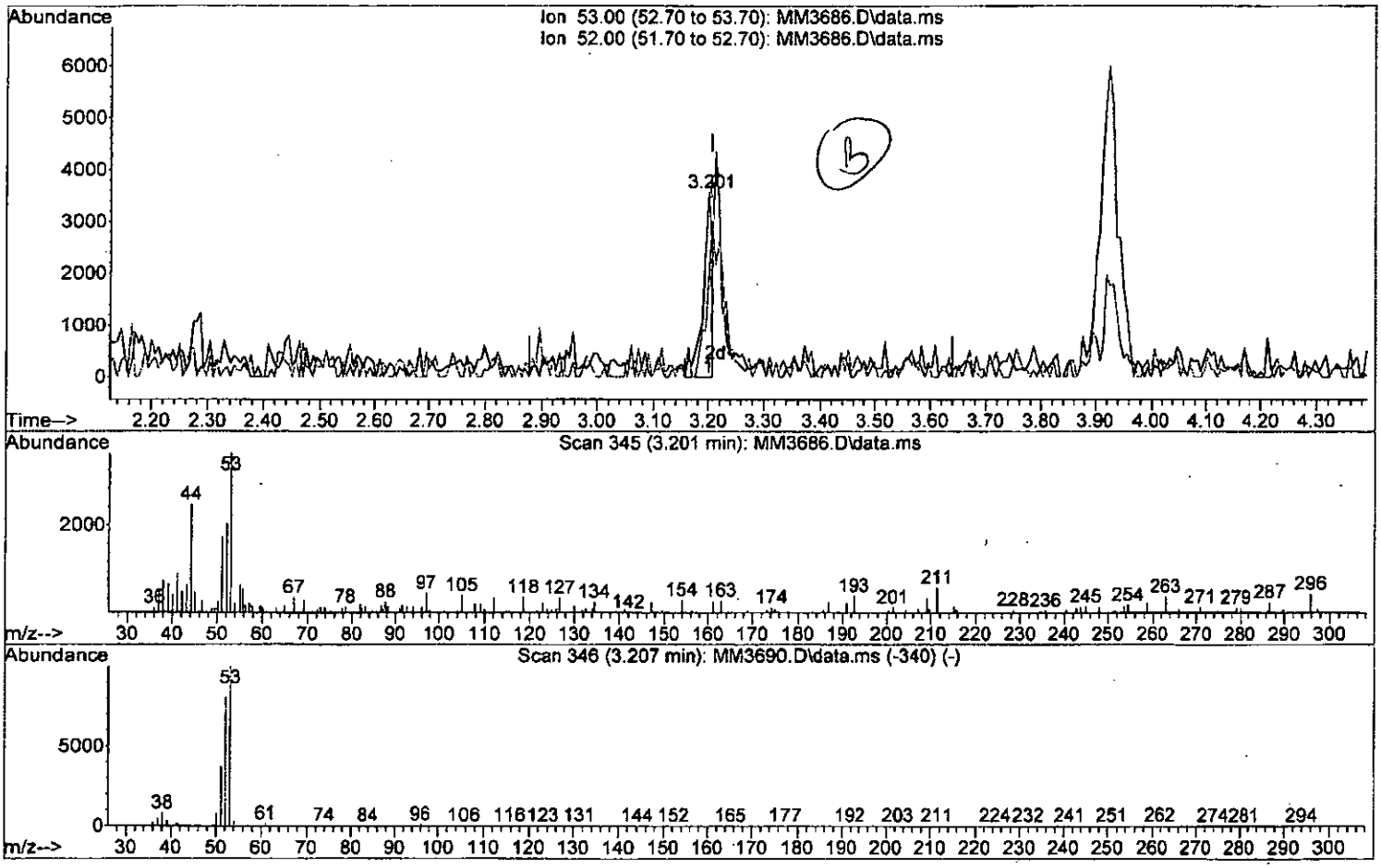
response 3763

Ion	Exp%	Act%
56.00	100	100
55.00	71.60	44.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(24) Acrylonitrile

3.201min (-0.005) 2.88 ppb

response 4153

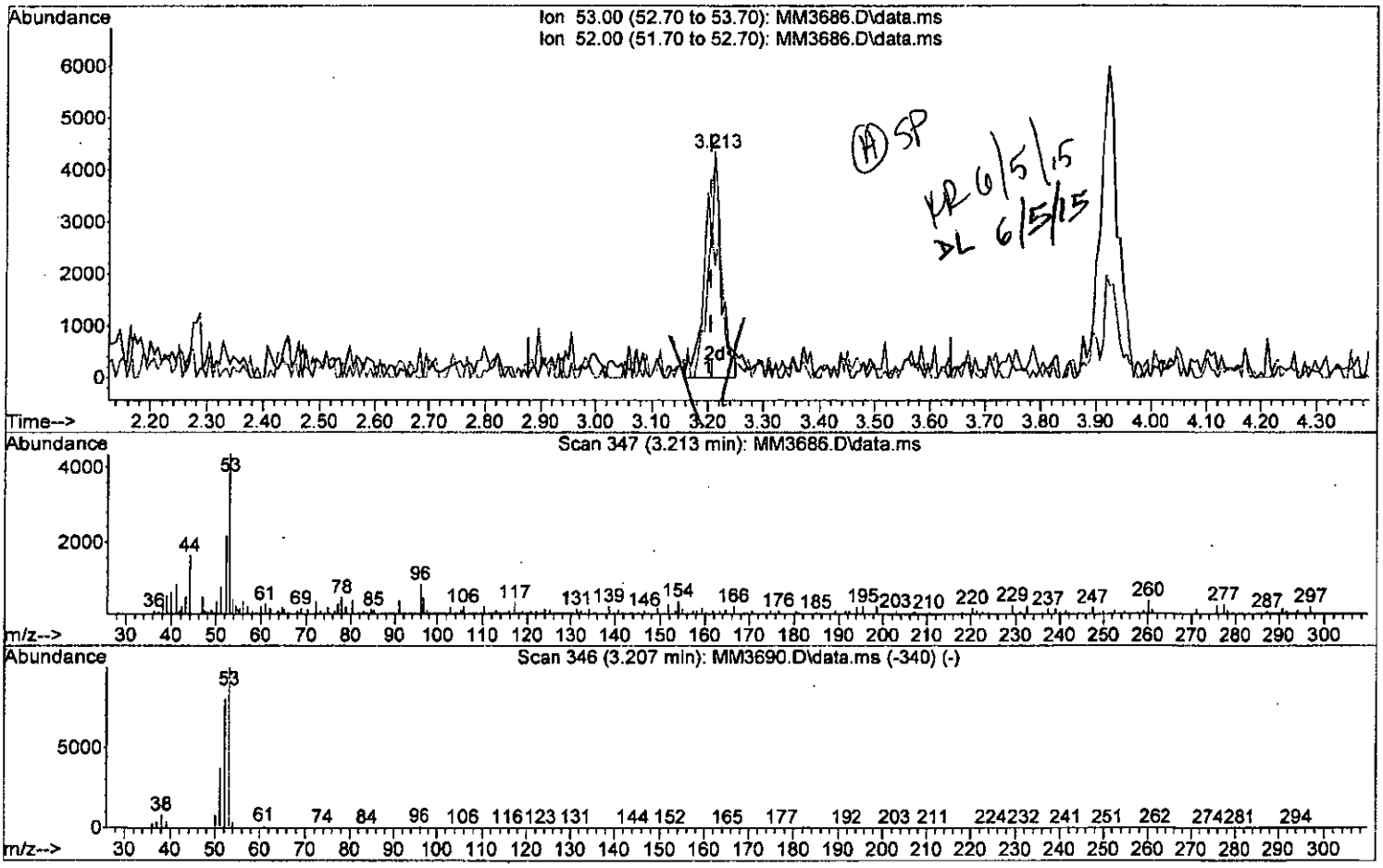
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	57.04#
0.00	0.00	0.00
0.00	0.00	0.00

00135

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(24) Acrylonitrile

3.213min (+0.007) 5.86 ppb m

response 8438

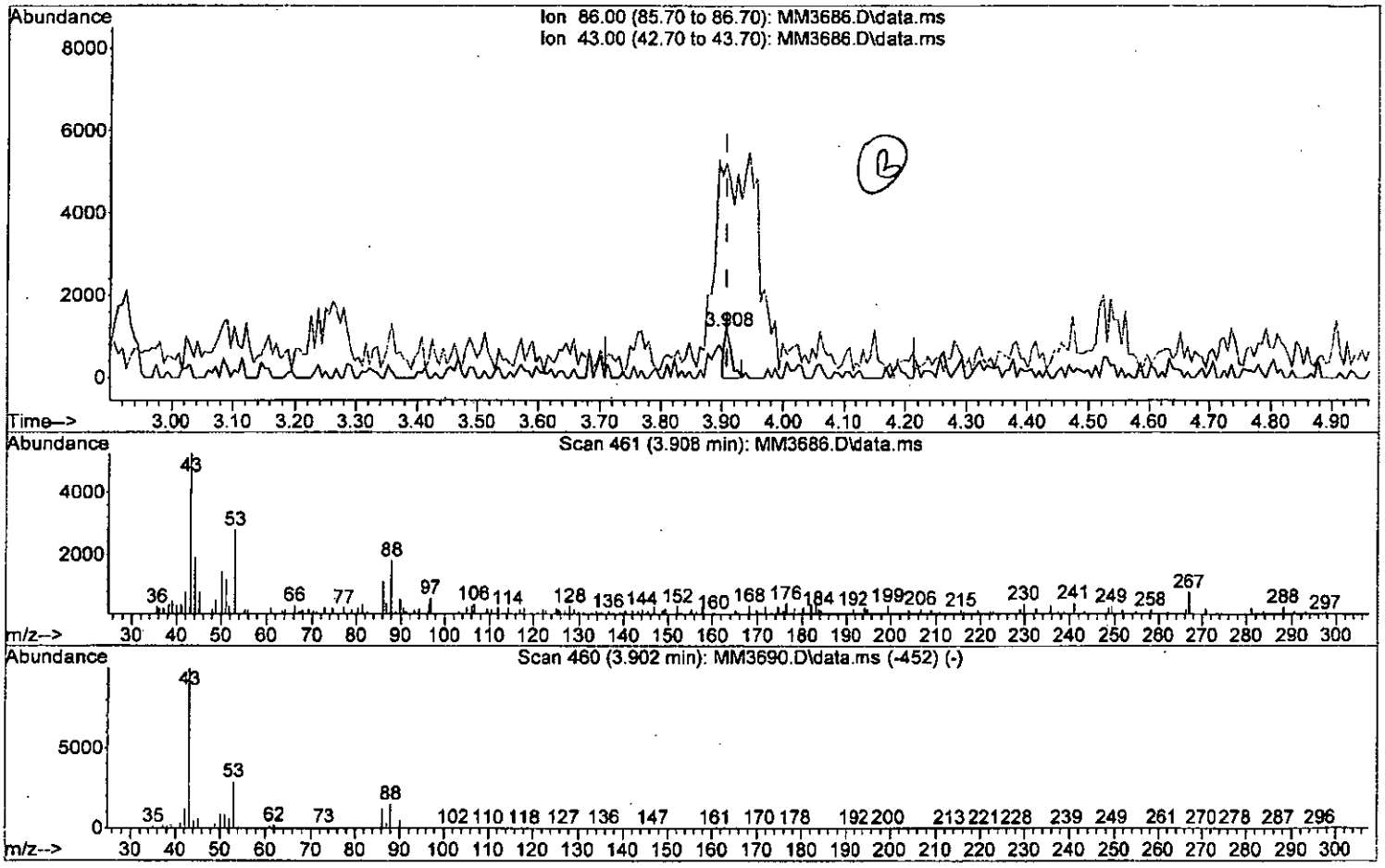
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	49.98#
0.00	0.00	0.00
0.00	0.00	0.00

00136

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(29) Vinyl Acetate

3.908min (0.000) 0.56 ppb

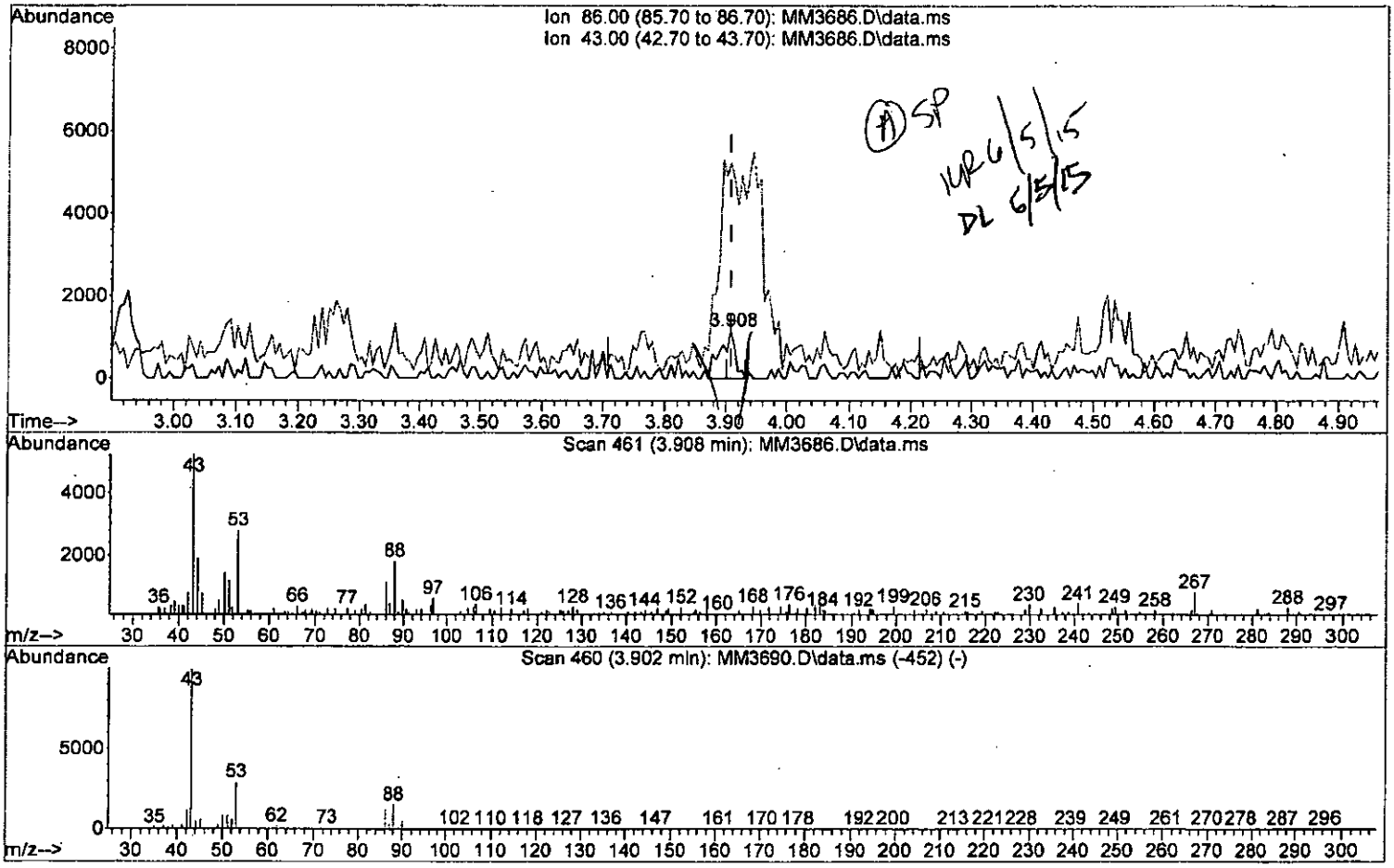
response 824

Ion	Exp%	Act%
86.00	100	100
43.00	799.60	454.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(29) Vinyl Acetate

3.908min (0.000) 1.34 ppb m

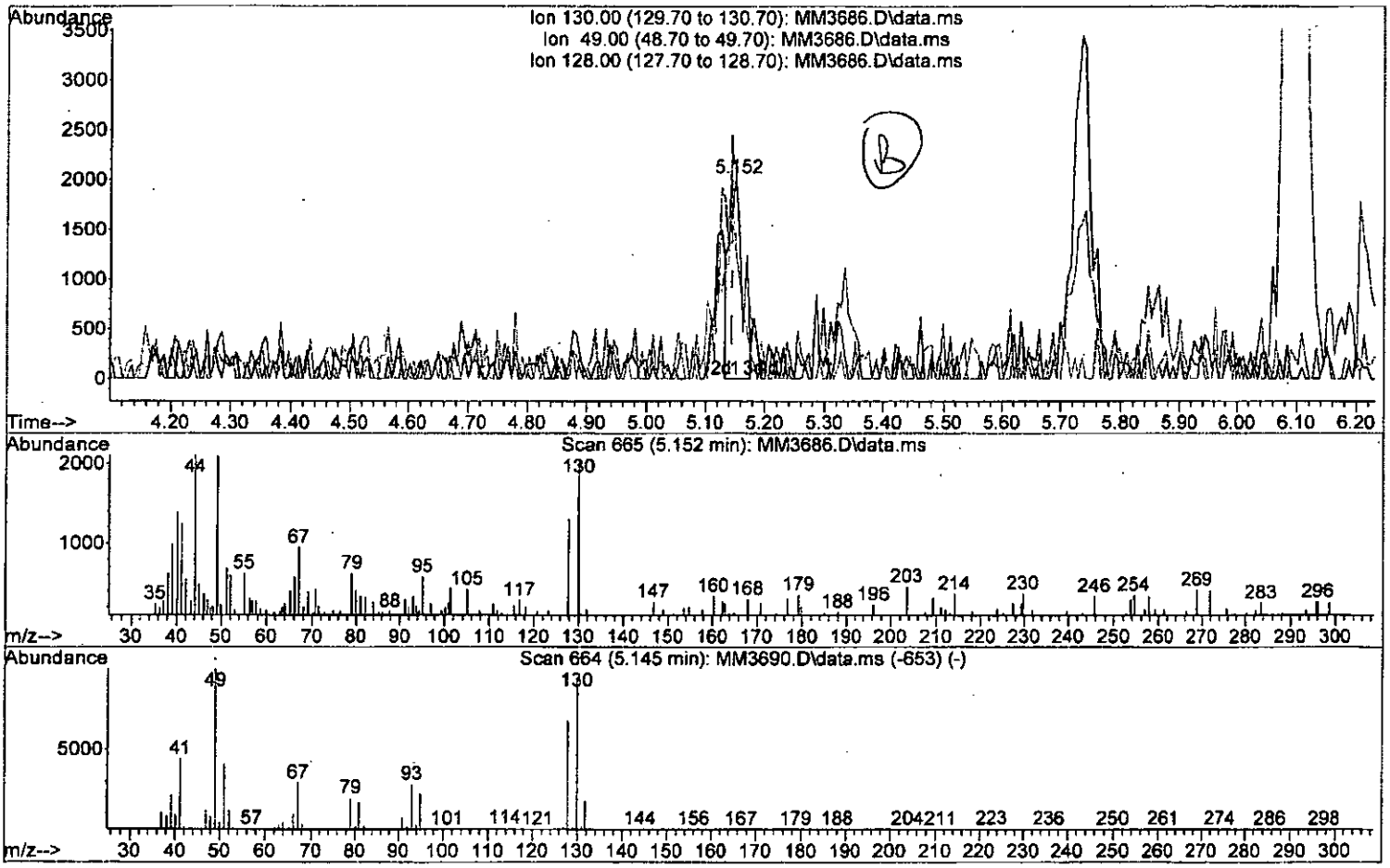
response 1958

Ion	Exp%	Act%
86.00	100	100
43.00	799.60	454.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(37) Bromochloromethane

5.152min (+0.006) 0.71 ppb

response 3095

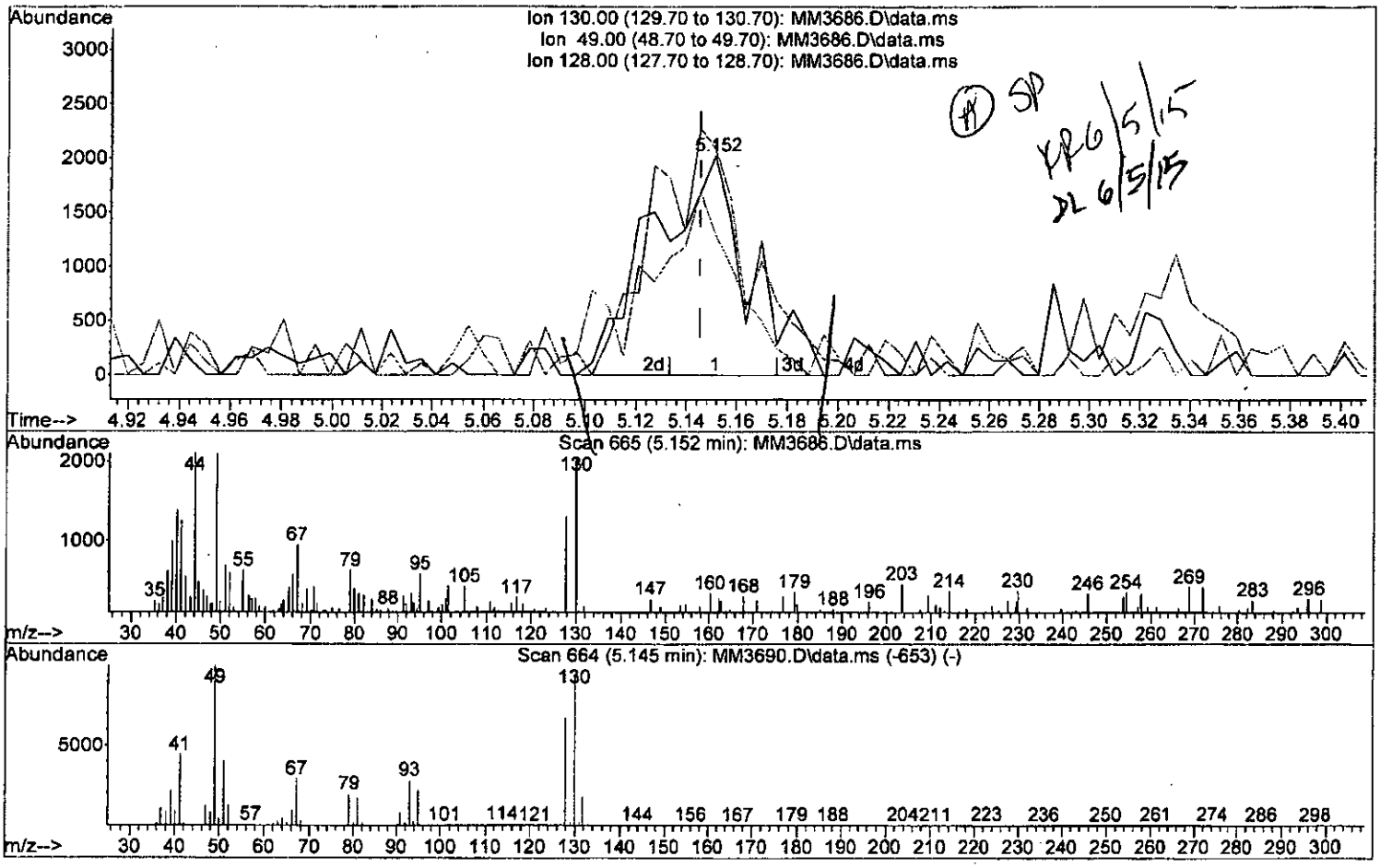
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	97.66
128.00	72.20	60.57
0.00	0.00	0.00

00139

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(37) Bromochloromethane

5.152min (+0.006) 1.24 ppb m

response 5385

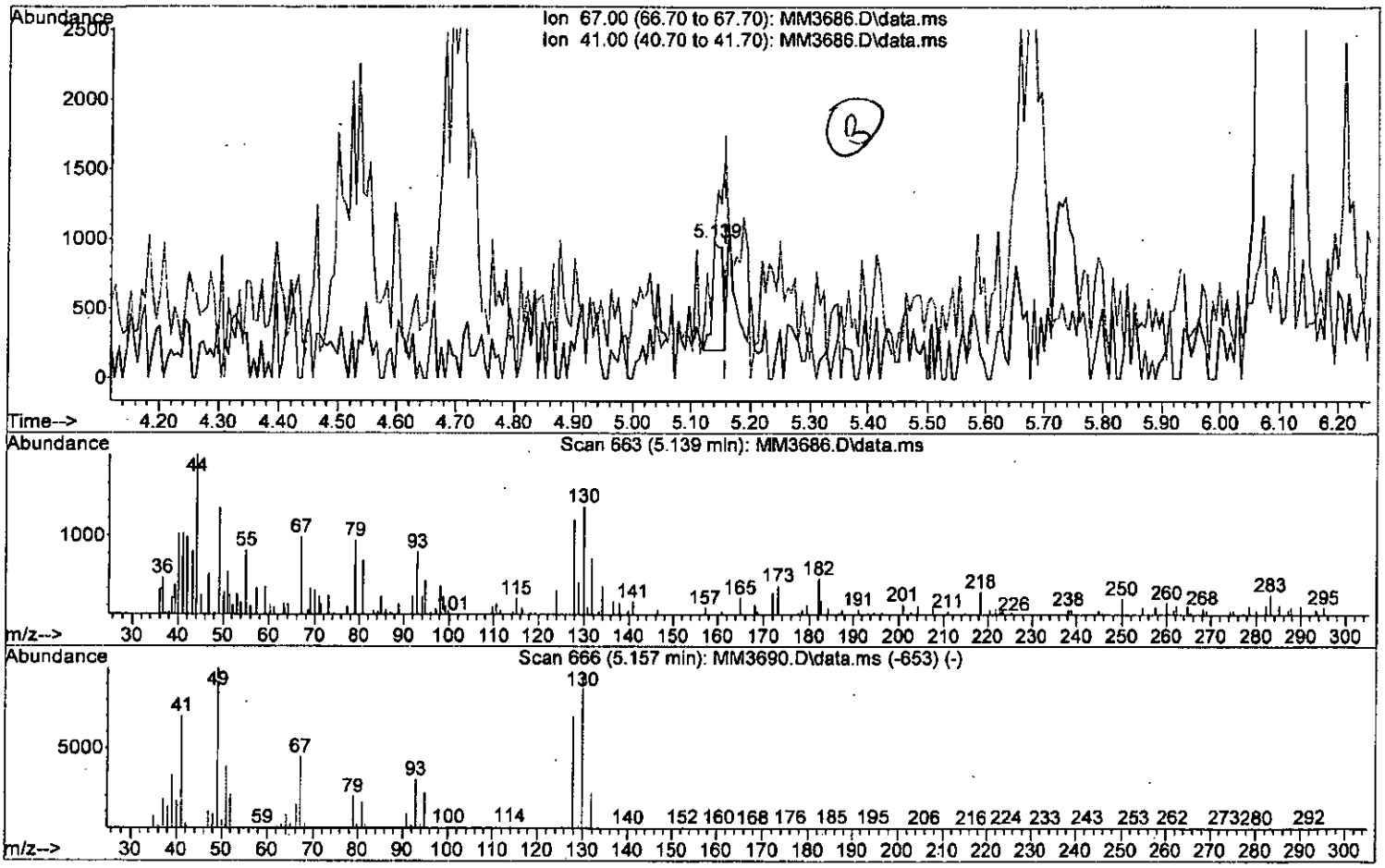
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	103.26
128.00	72.20	64.05
0.00	0.00	0.00

00140

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(38) Methacrylonitrile

5.139min (-0.018) 0.51 ppb

response 984

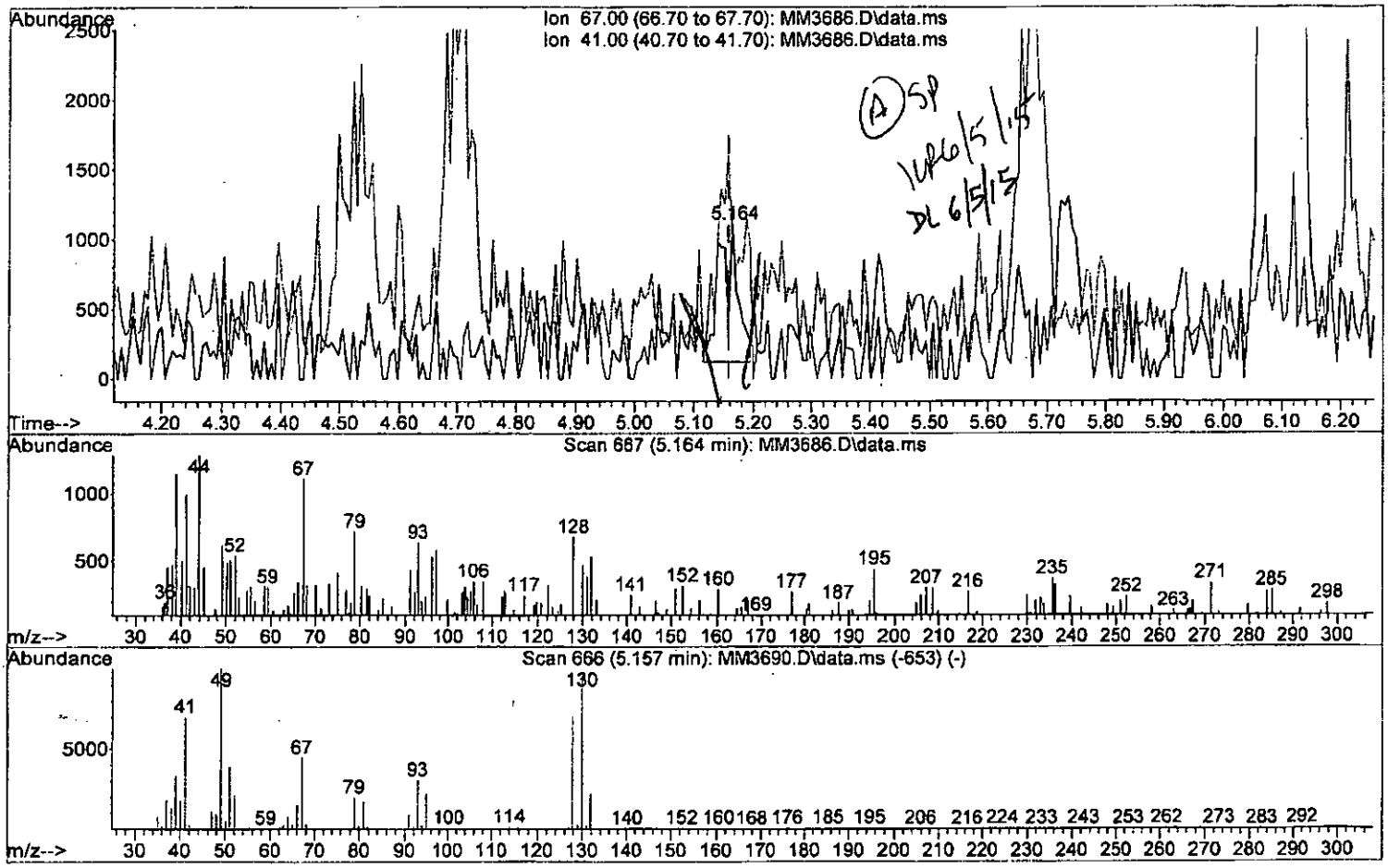
Ion	Exp%	Act%
67.00	100	100
41.00	159.00	104.89#
0.00	0.00	0.00
0.00	0.00	0.00

00141

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(38) Methacrylonitrile

5.164min (+0.006) 1.10 ppb m

response 2127

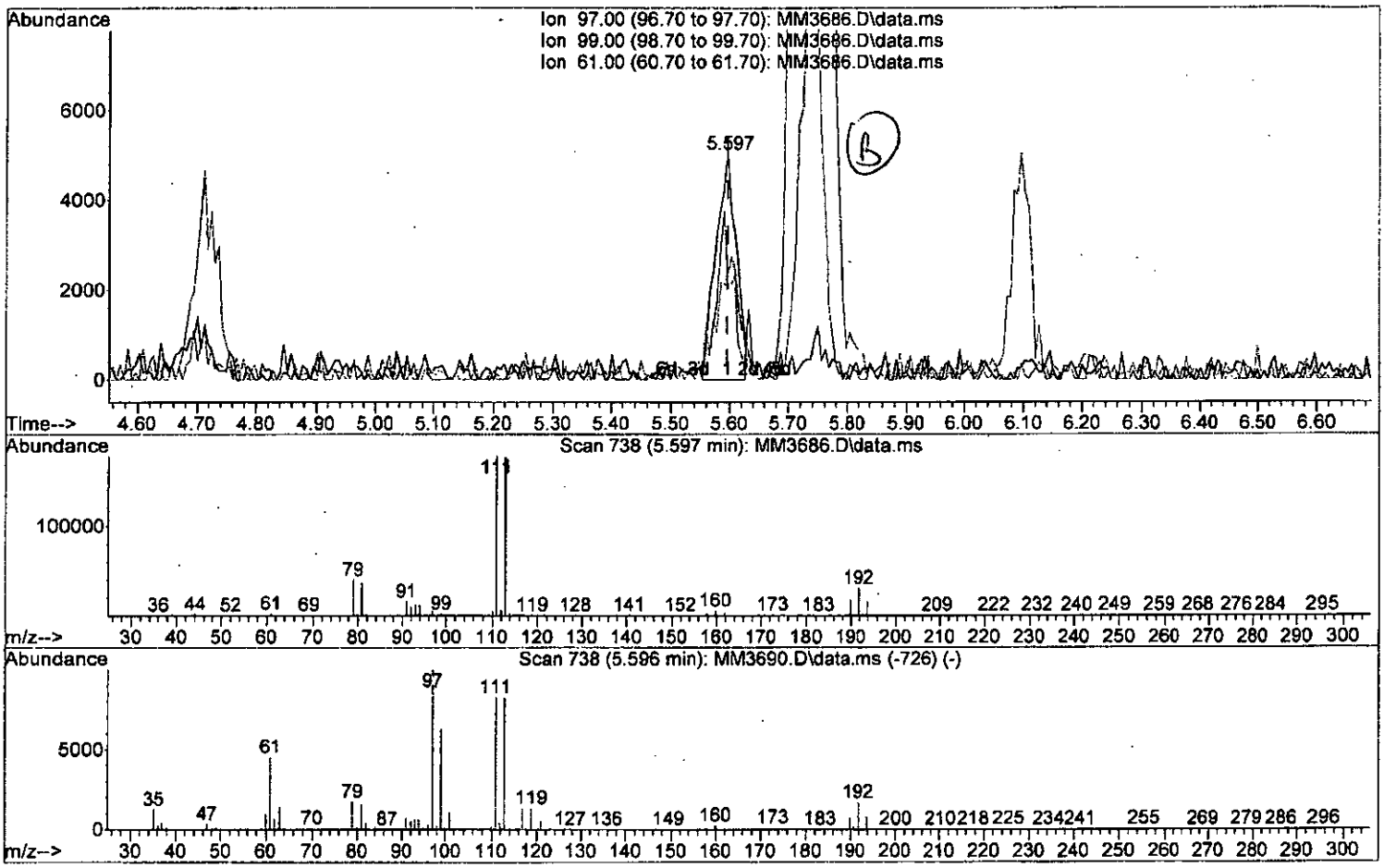
Ion	Exp%	Act%
67.00	100	100
41.00	159.00	89.63#
0.00	0.00	0.00
0.00	0.00	0.00

00142

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.597min (-0.000) 0.98 ppb

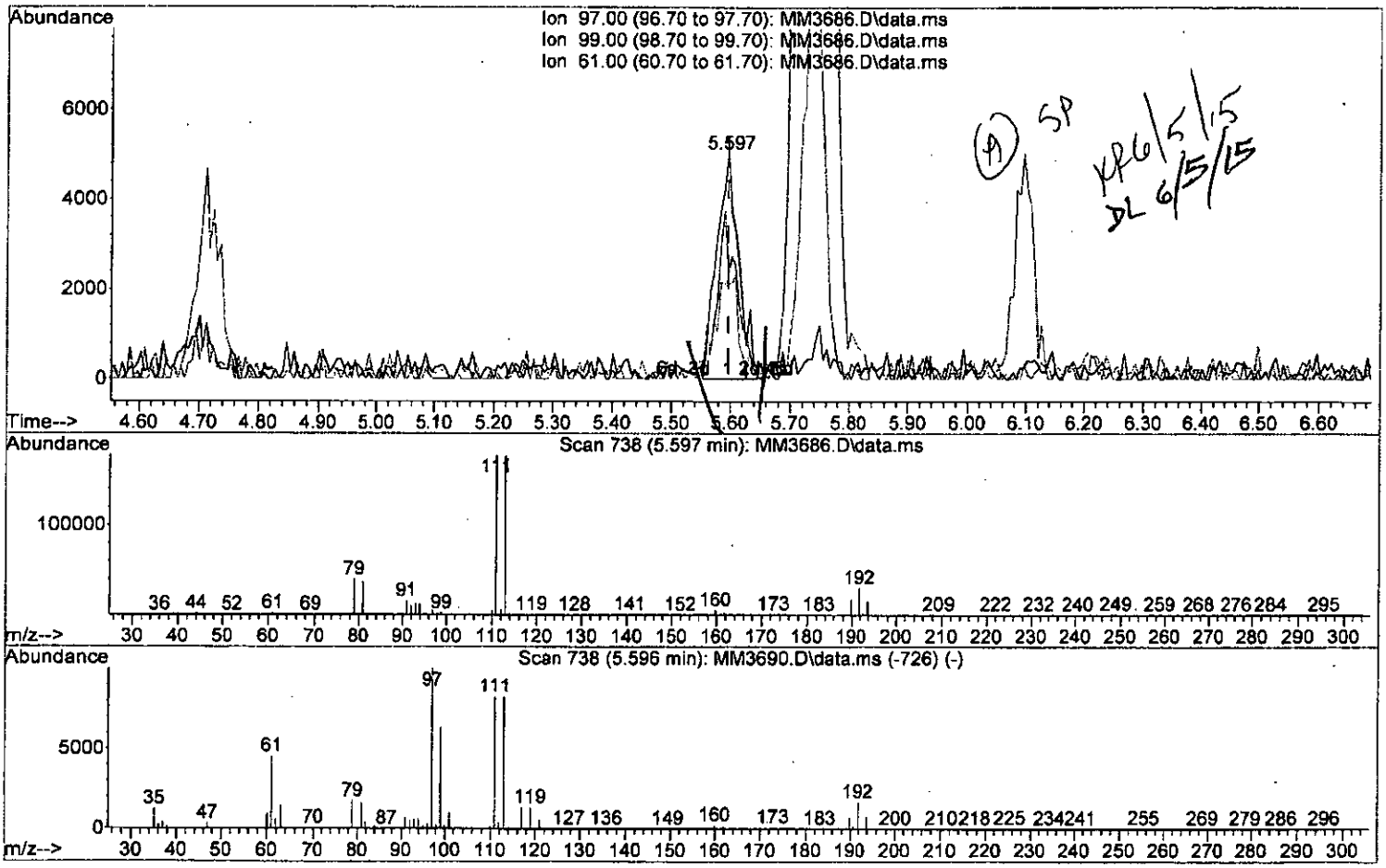
response 12167

Ion	Exp%	Act%
97.00	100	100
99.00	63.80	46.15
61.00	45.30	42.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.597min (-0.000) 1.04 ppb m

response 12945

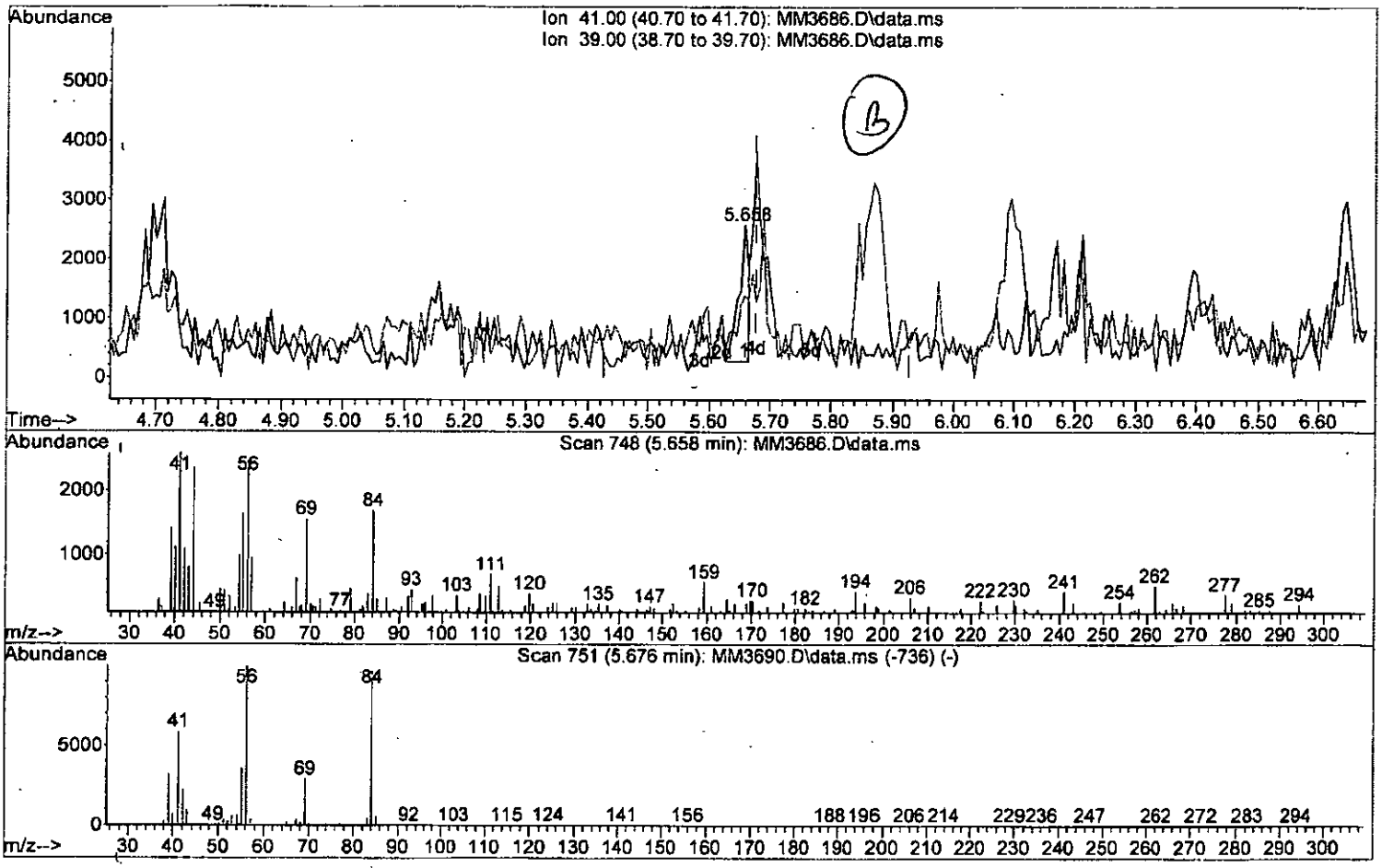
Ion	Exp%	Act%
97.00	100	100
99.00	63.80	46.15
61.00	45.30	42.20
0.00	0.00	0.00

00144

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(44) Cyclohexane (P)

5.658min (-0.018) 0.37 ppb

response 2518

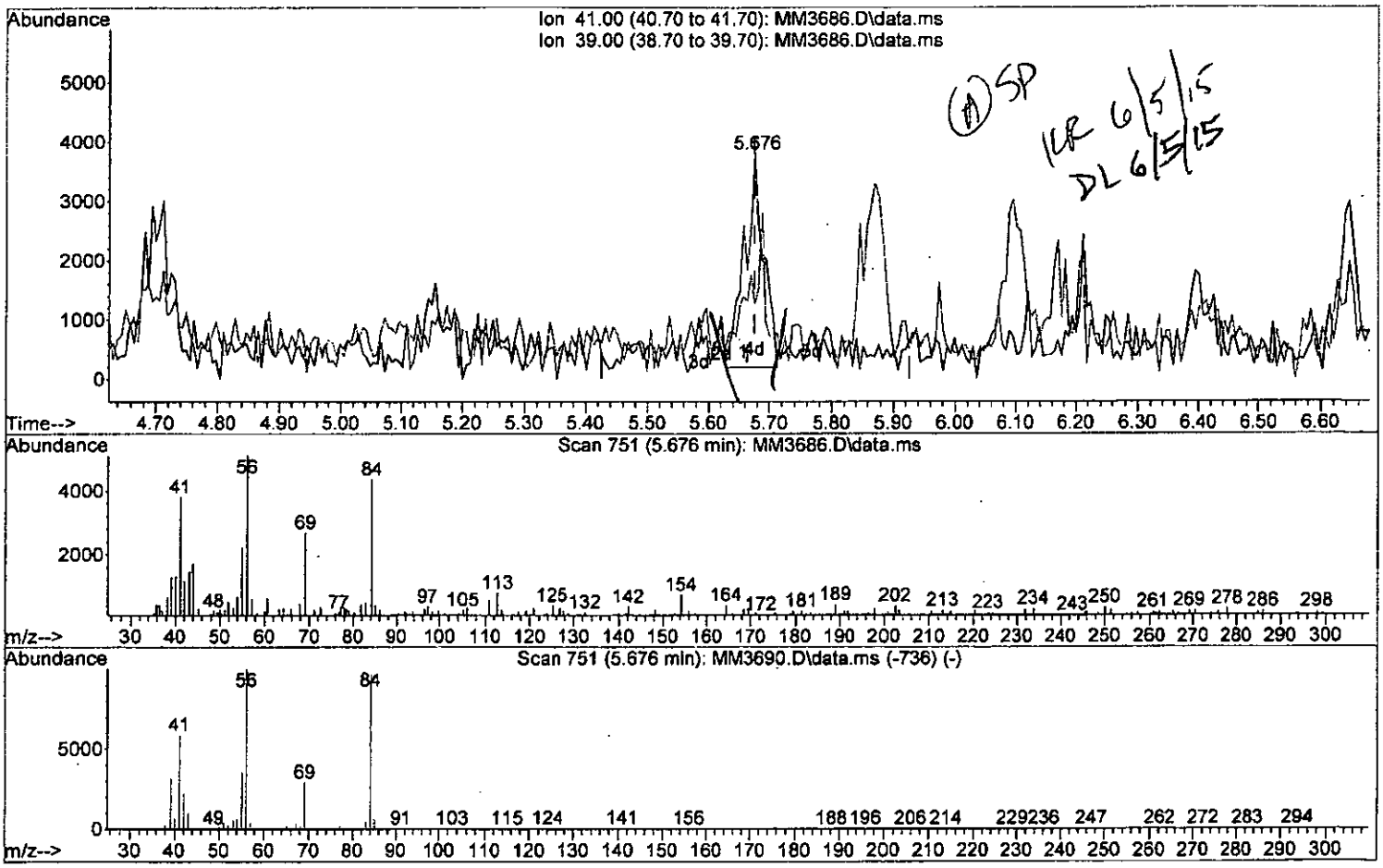
Ion	Exp%	Act%
41.00	100	100
39.00	54.70	54.37
0.00	0.00	0.00
0.00	0.00	0.00

00145

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(44) Cyclohexane (P)

5.676min (0.000) 1.18 ppb m

response 7950

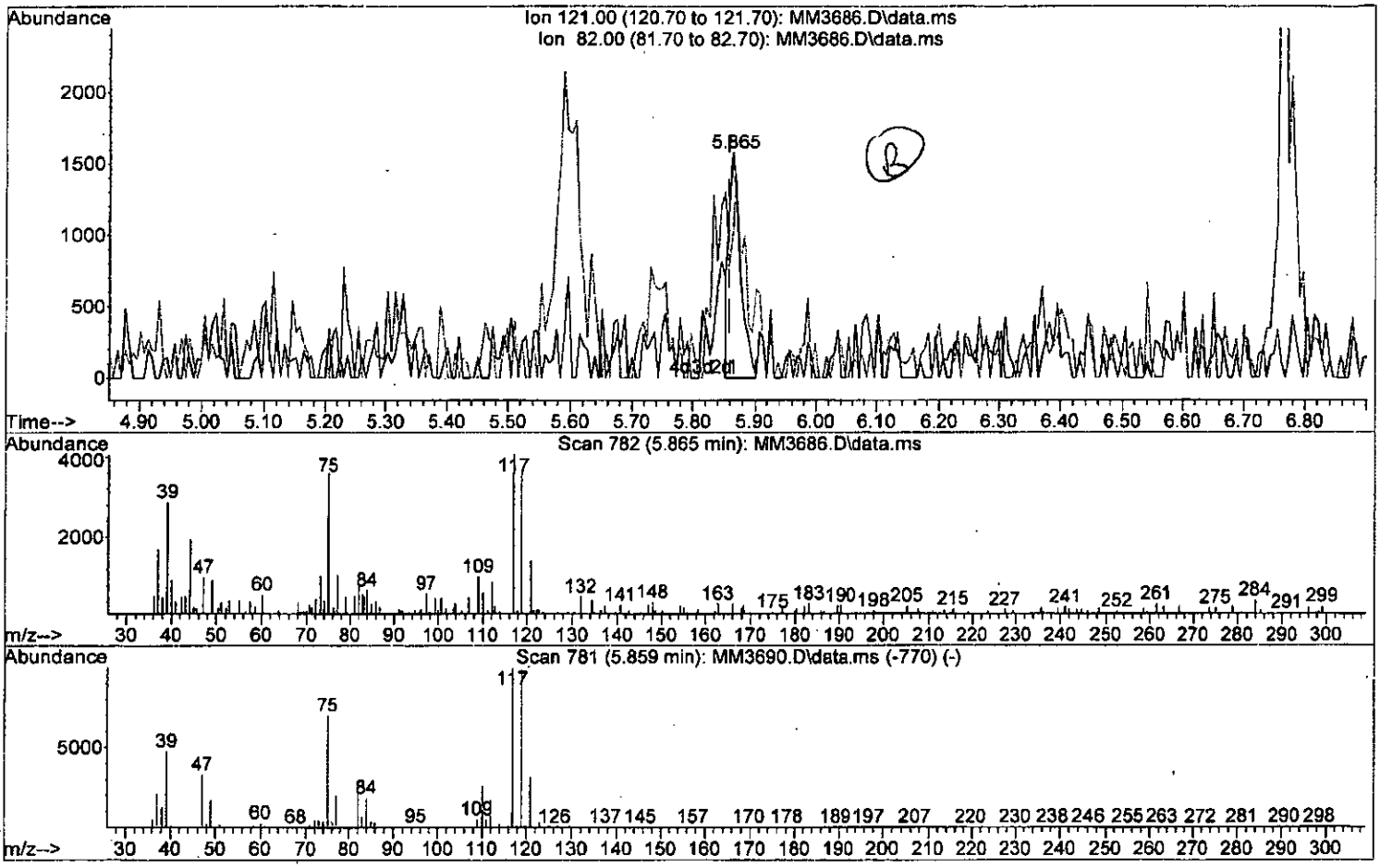
Ion	Exp%	Act%
41.00	100	100
39.00	54.70	33.30#
0.00	0.00	0.00
0.00	0.00	0.00

00146

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(46) Carbontetrachloride (P)

5.865min (+0.006) 0.63 ppb

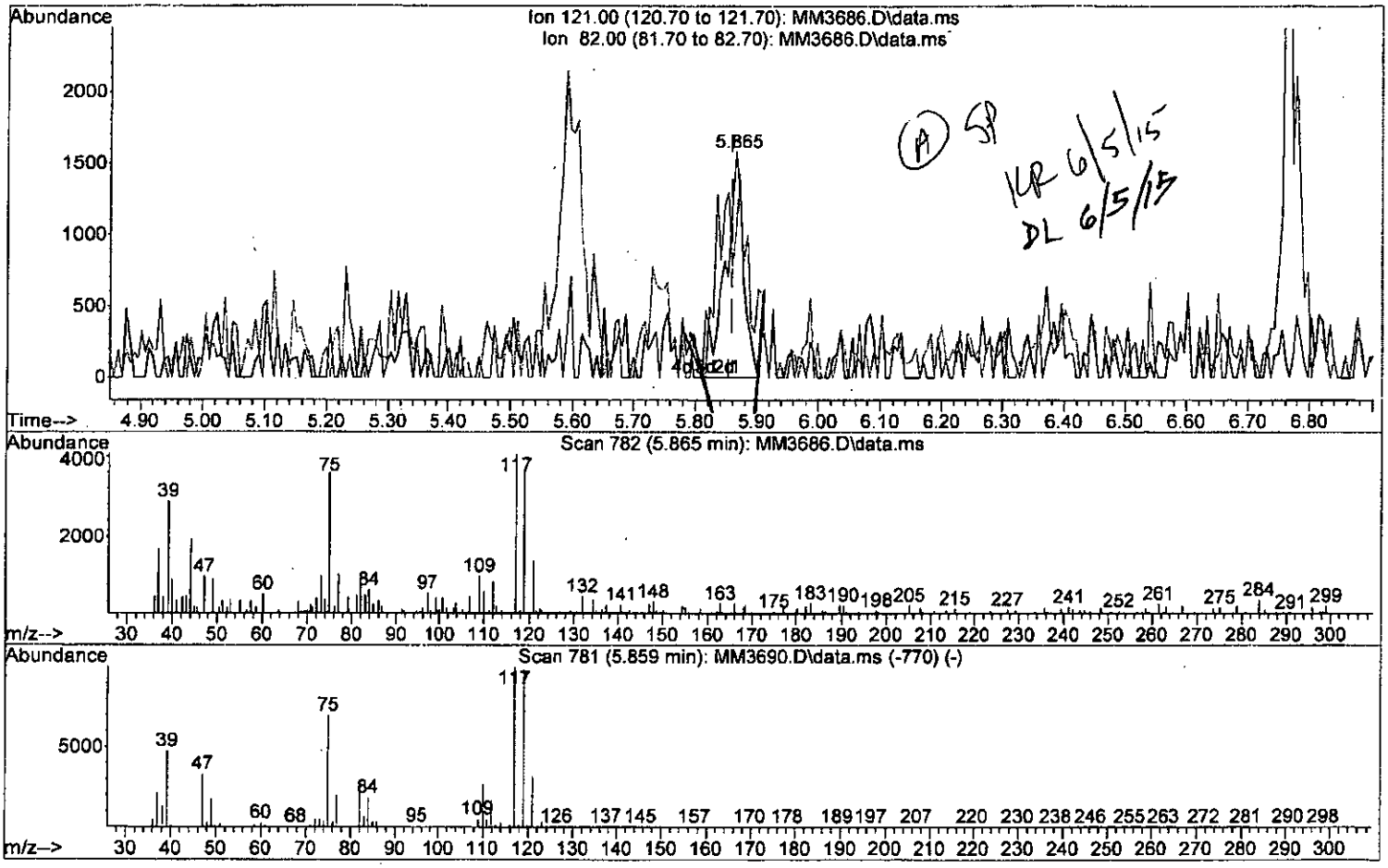
response 2020

Ion	Exp%	Act%
121.00	100	100
82.00	93.50	64.87#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(46) Carbontetrachloride (P)

5.865min (+0.006) 1.02 ppb m

response 3282

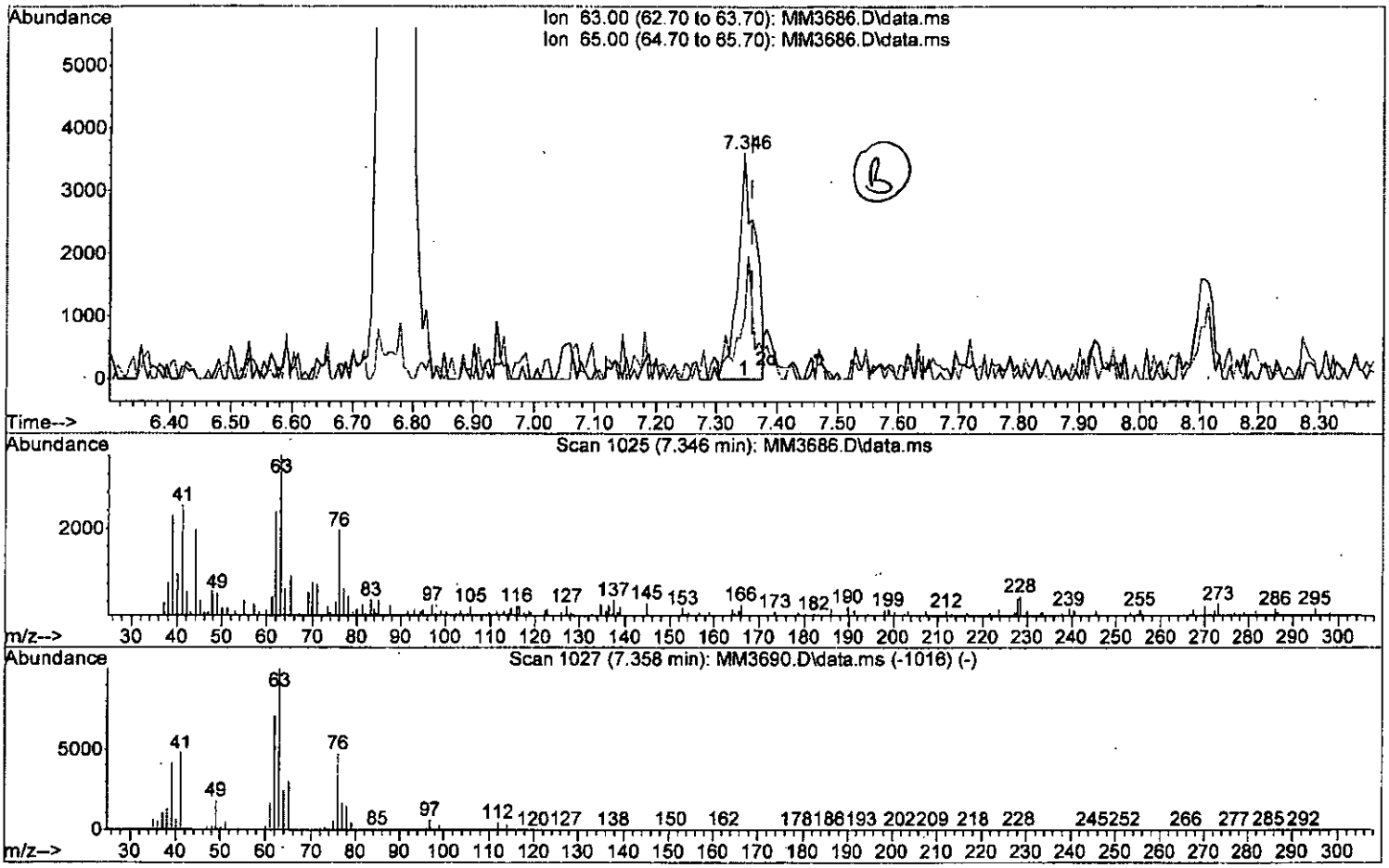
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	72.81#
0.00	0.00	0.00
0.00	0.00	0.00

00148

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(56) 1,2-Dichloropane (P)

7.346min (-0.012) 0.99 ppb

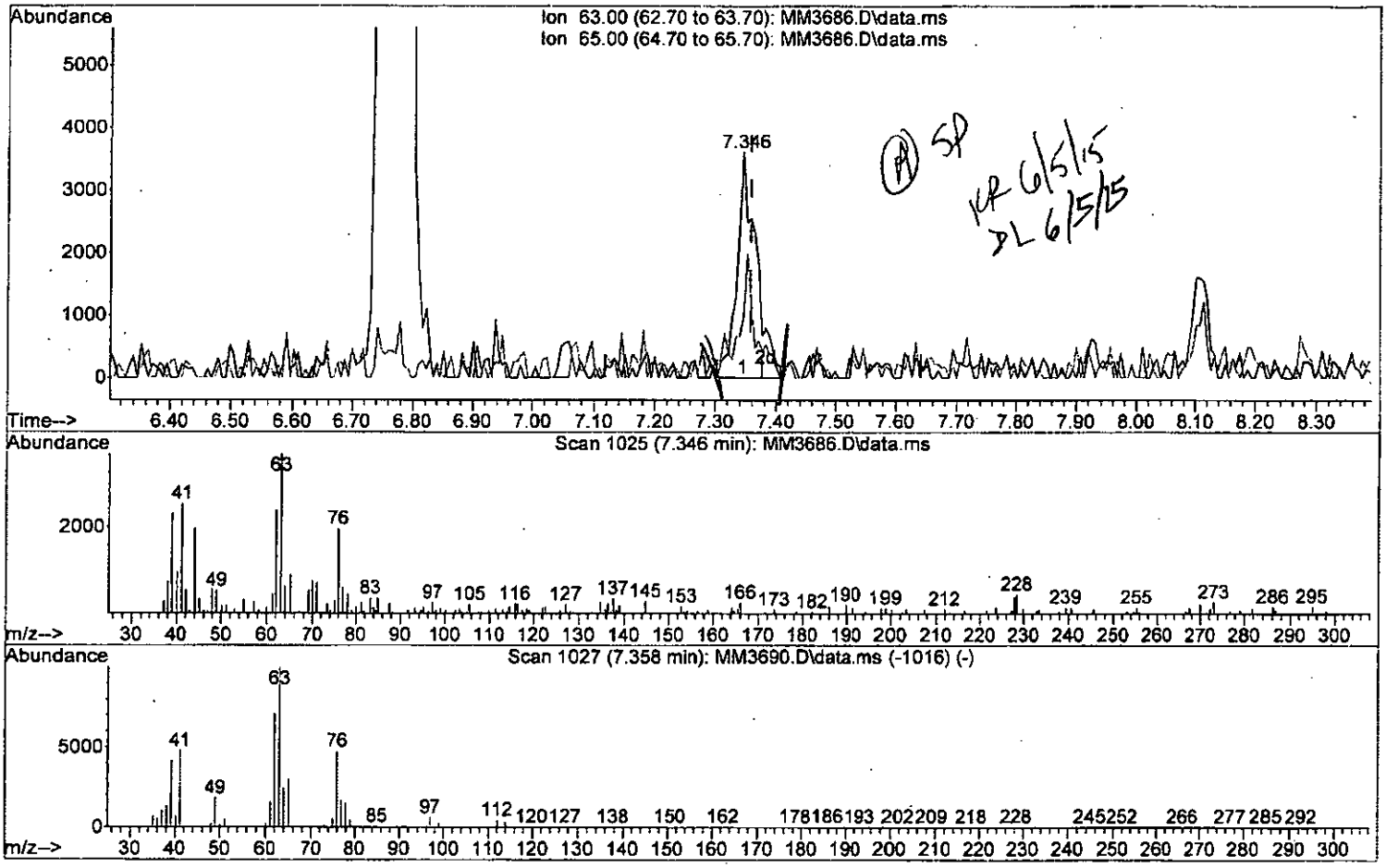
response 6957

Ion	Exp%	Act%
63.00	100	100
65.00	30.60	26.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(56) 1,2-Diclpropane (P)

7.346min (-0.012) 1.11 ppb m

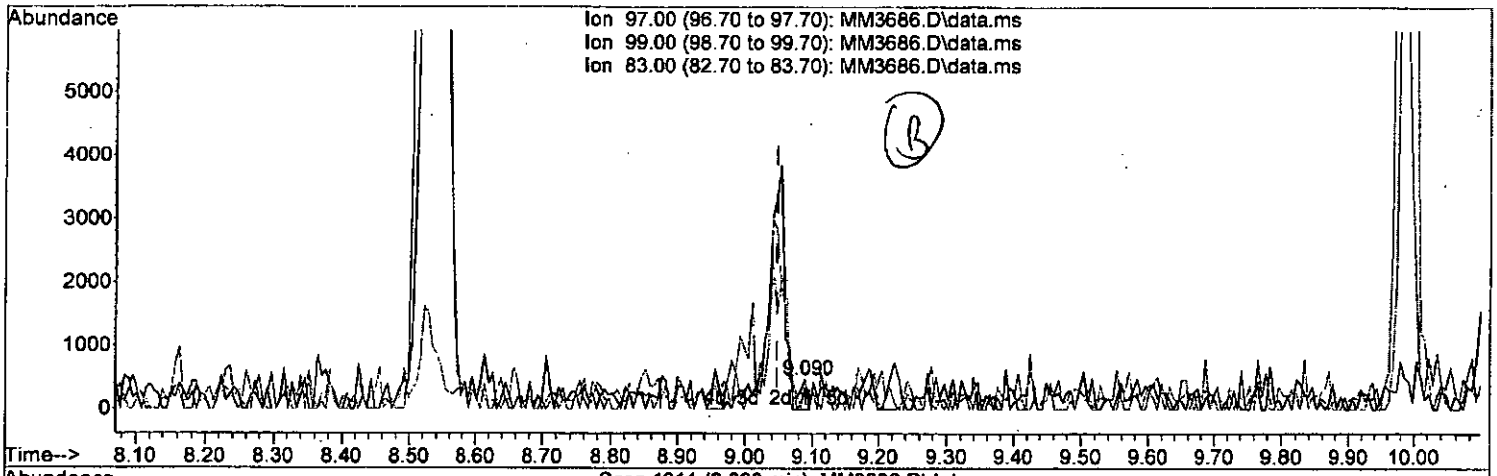
response 7794

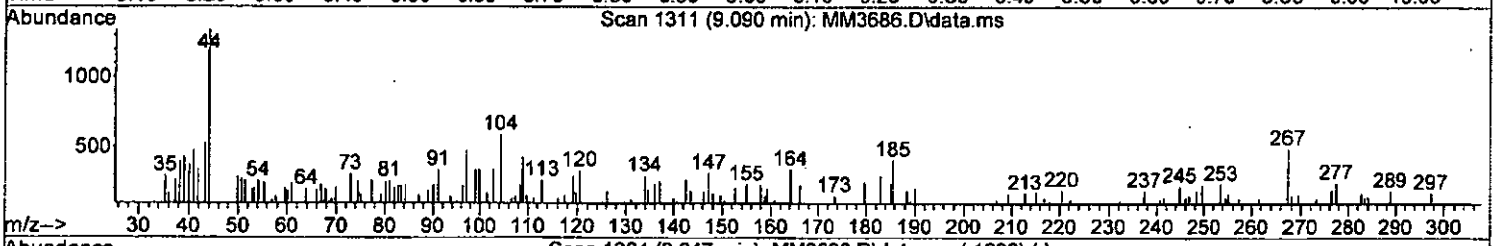
Ion	Exp%	Act%
63.00	100	100
65.00	30.60	26.64
0.00	0.00	0.00
0.00	0.00	0.00

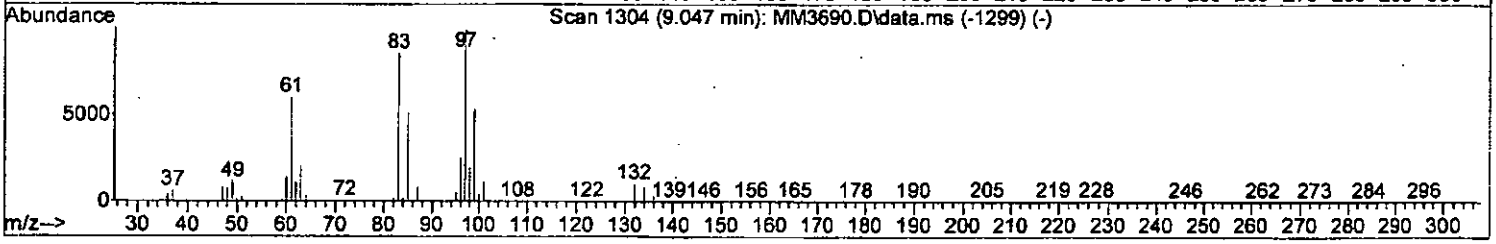
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3686.D\data.ms

(69) 1,1,2-Trichloroethane (P)

9.090min (+0.043) 0.07 ppb

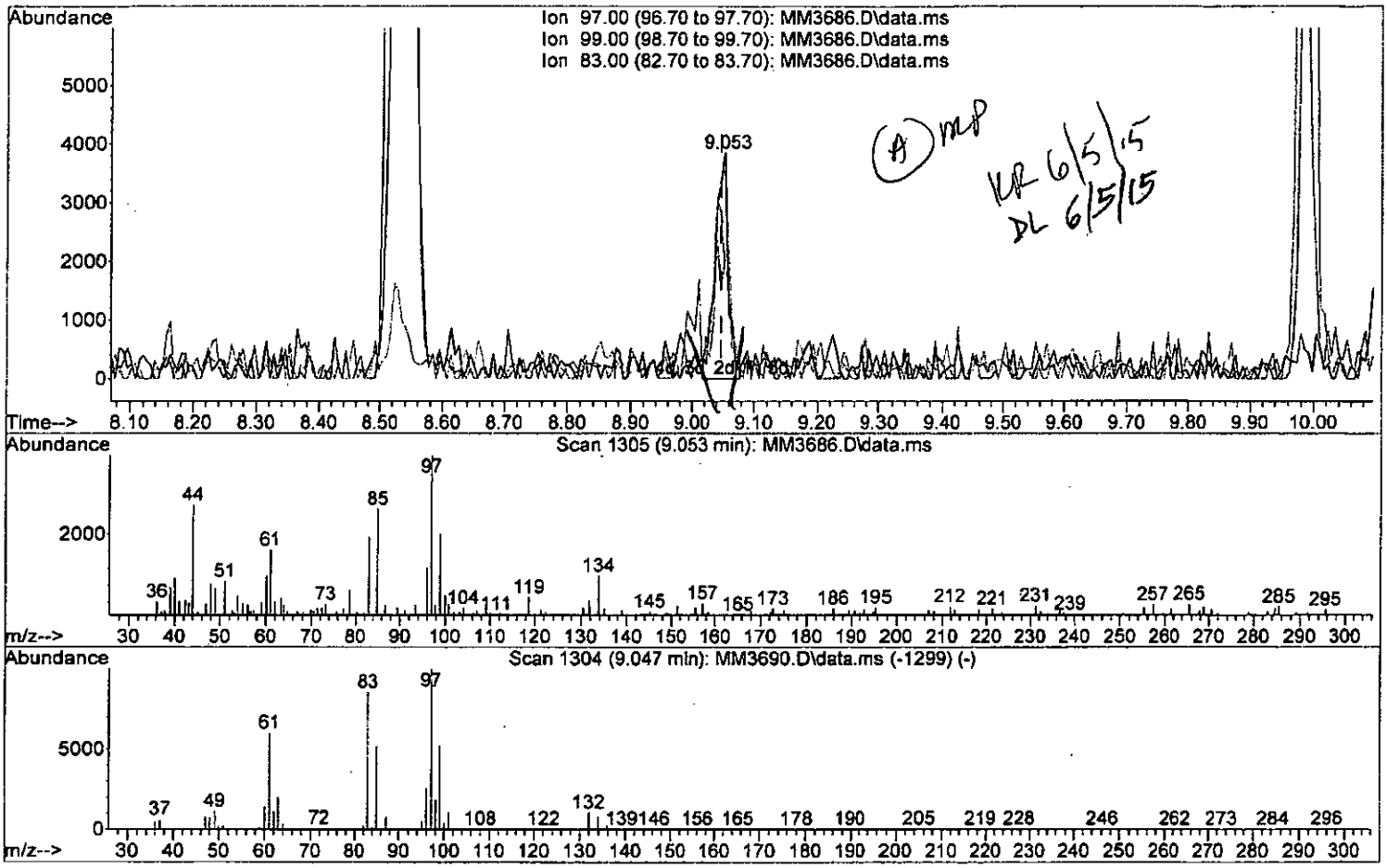
response 356

Ion	Exp%	Act%
97.00	100	100
99.00	59.90	71.25
83.00	85.40	93.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(69) 1,1,2-Trichloroethane (P)

9.053min (+0.006) 1.03 ppb m

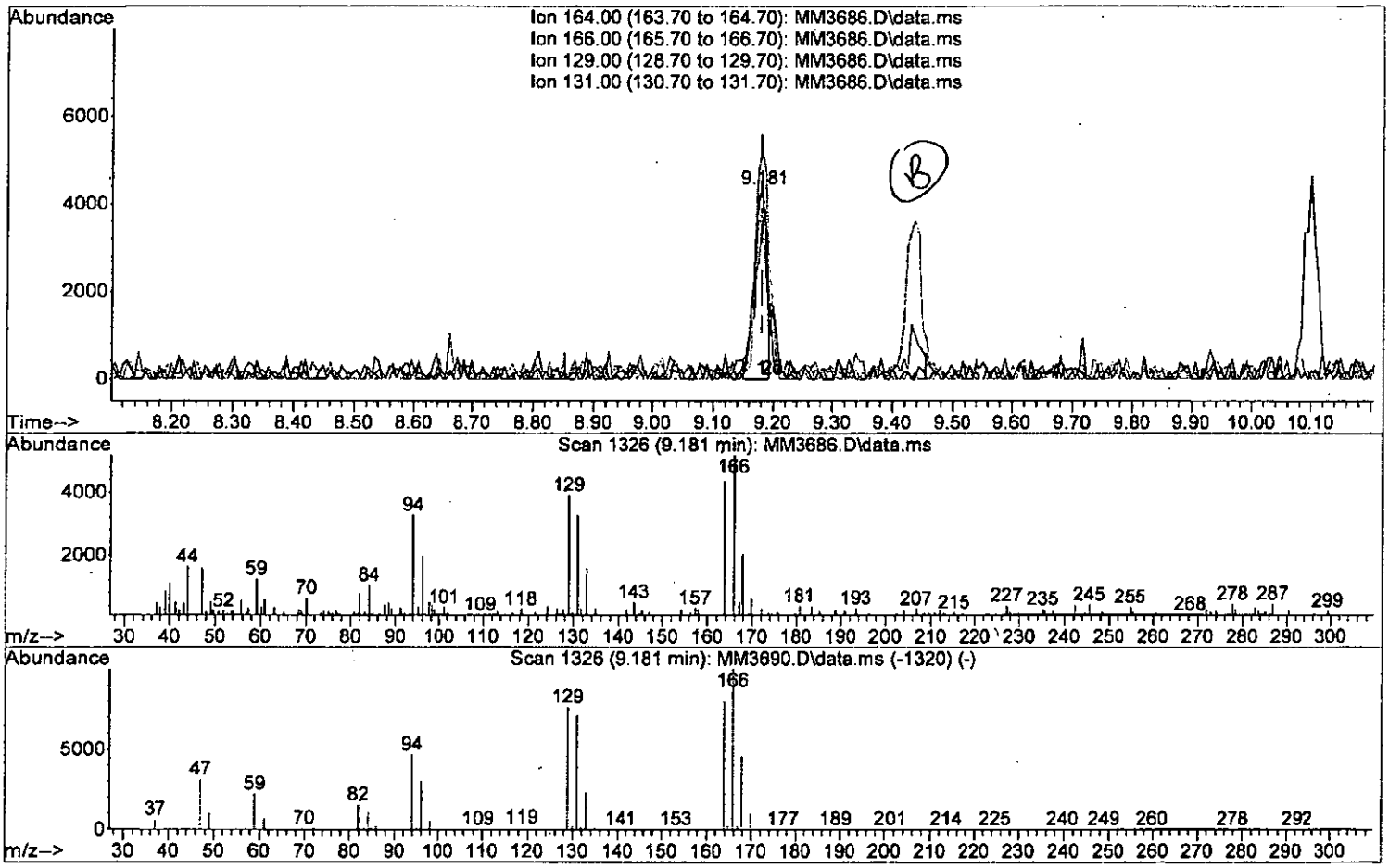
response 5608

Ion	Exp%	Act%
97.00	100	100
99.00	59.90	51.65
83.00	85.40	50.01#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(72) Tetrachloroethene (P)

9.181min (-0.000) 0.93 ppb

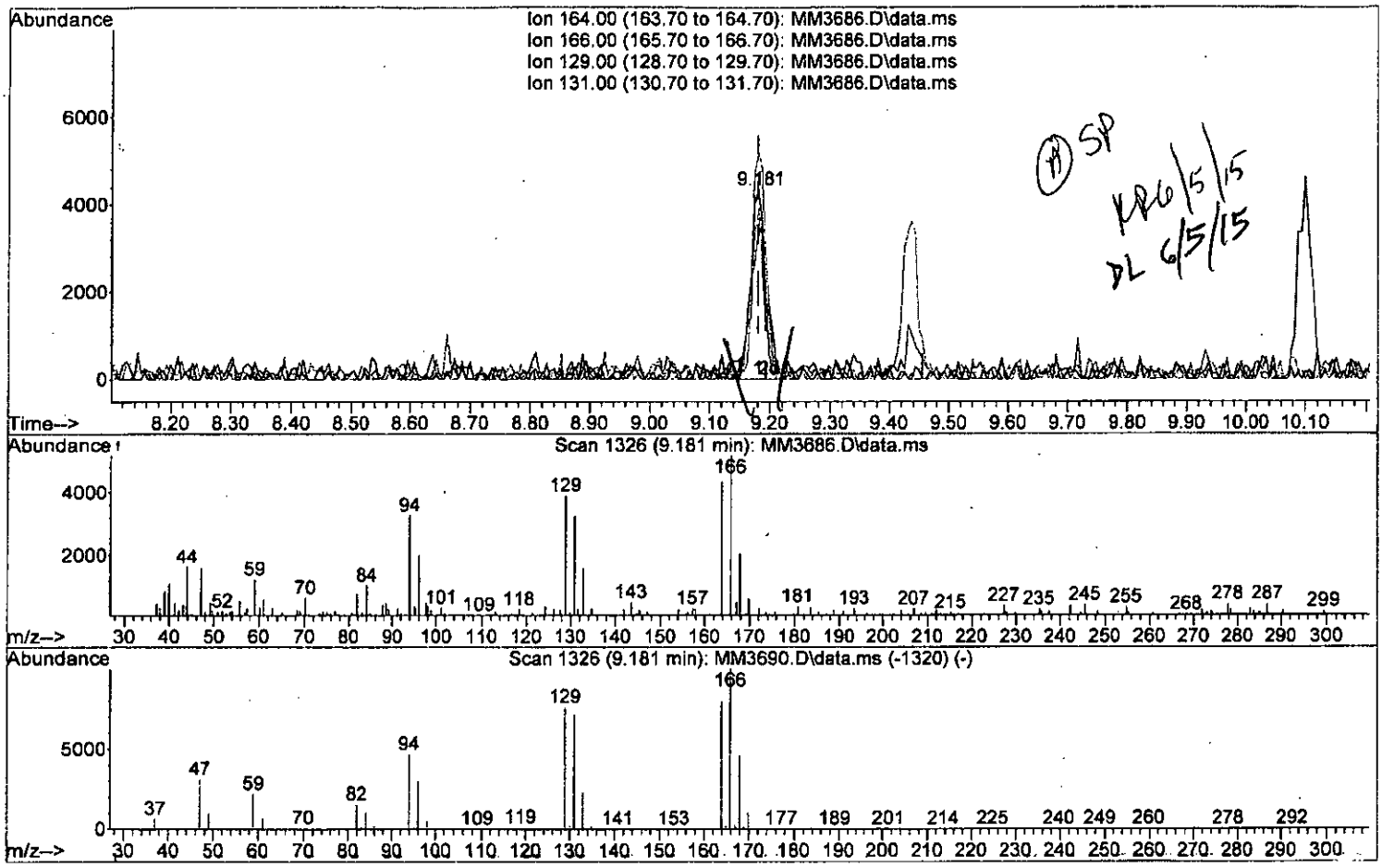
response 5969

Ion	Exp%	Act%
164.00	100	100
166.00	125.00	118.95
129.00	95.20	89.79
131.00	89.40	81.53

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(72) Tetrachloroethene (P)

9.181min (-0.000) 1.11 ppb m

response 7062

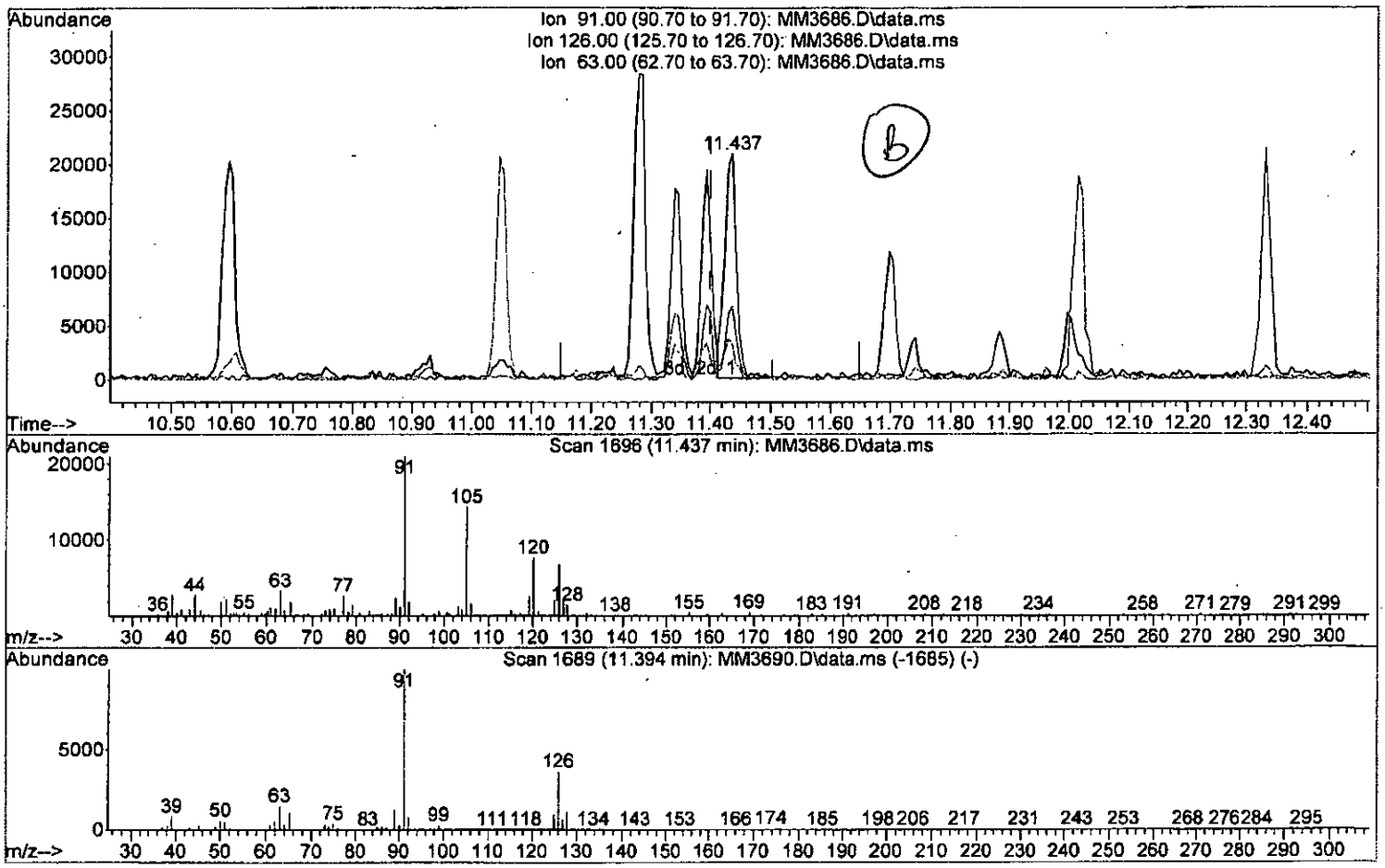
Ion	Exp%	Act%
164.00	100	100
166.00	125.00	118.95
129.00	95.20	89.79
131.00	89.40	74.73

00154

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(97) 3-Chlorotoluene

11.437min (+0.037) 1.11 ppb

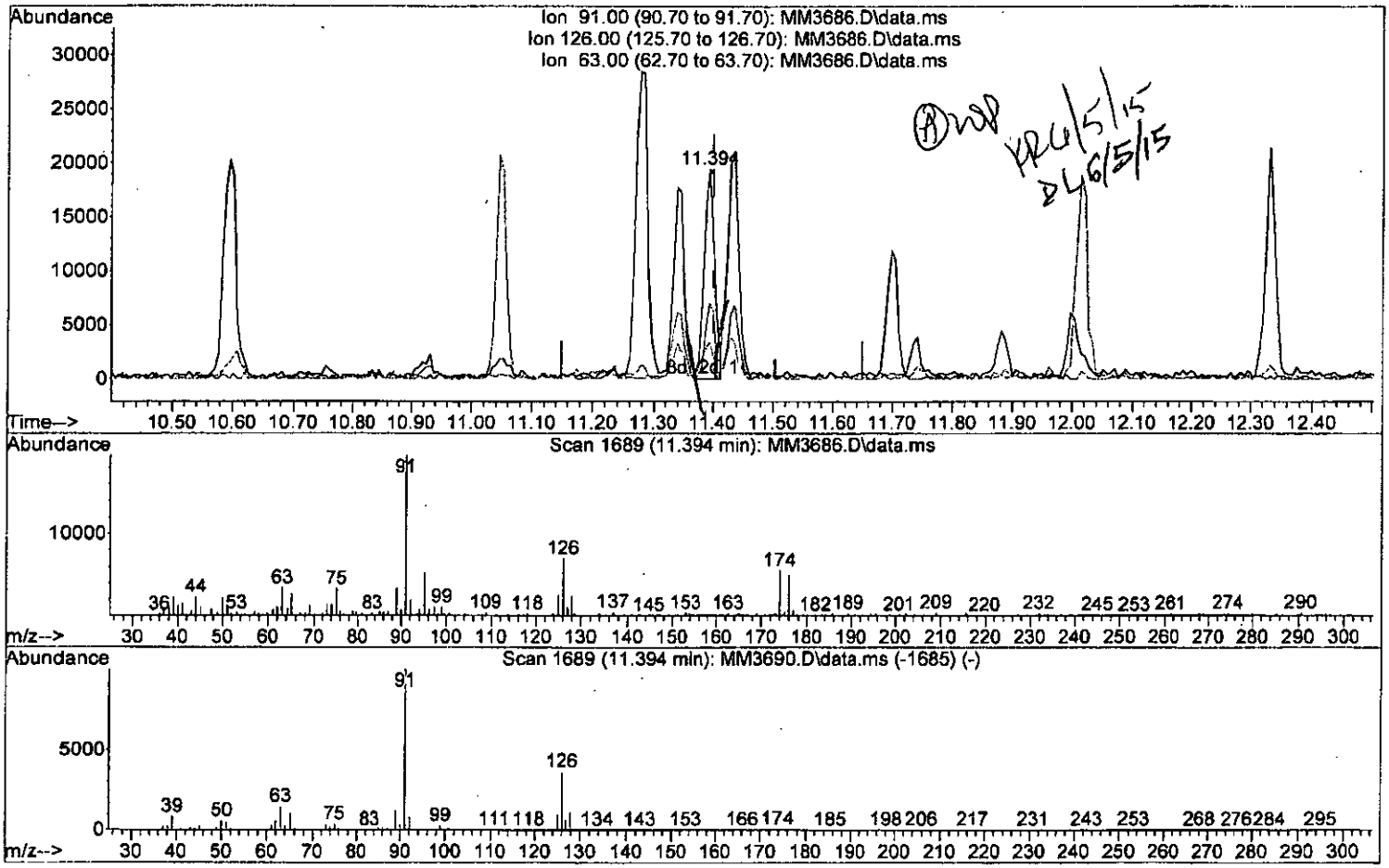
response 28099

Ion	Exp%	Act%
91.00	100	100
126.00	36.30	32.53
63.00	14.60	15.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(97) 3-Chlorotoluene

11.394min (-0.006) 0.94 ppb m

response 23749

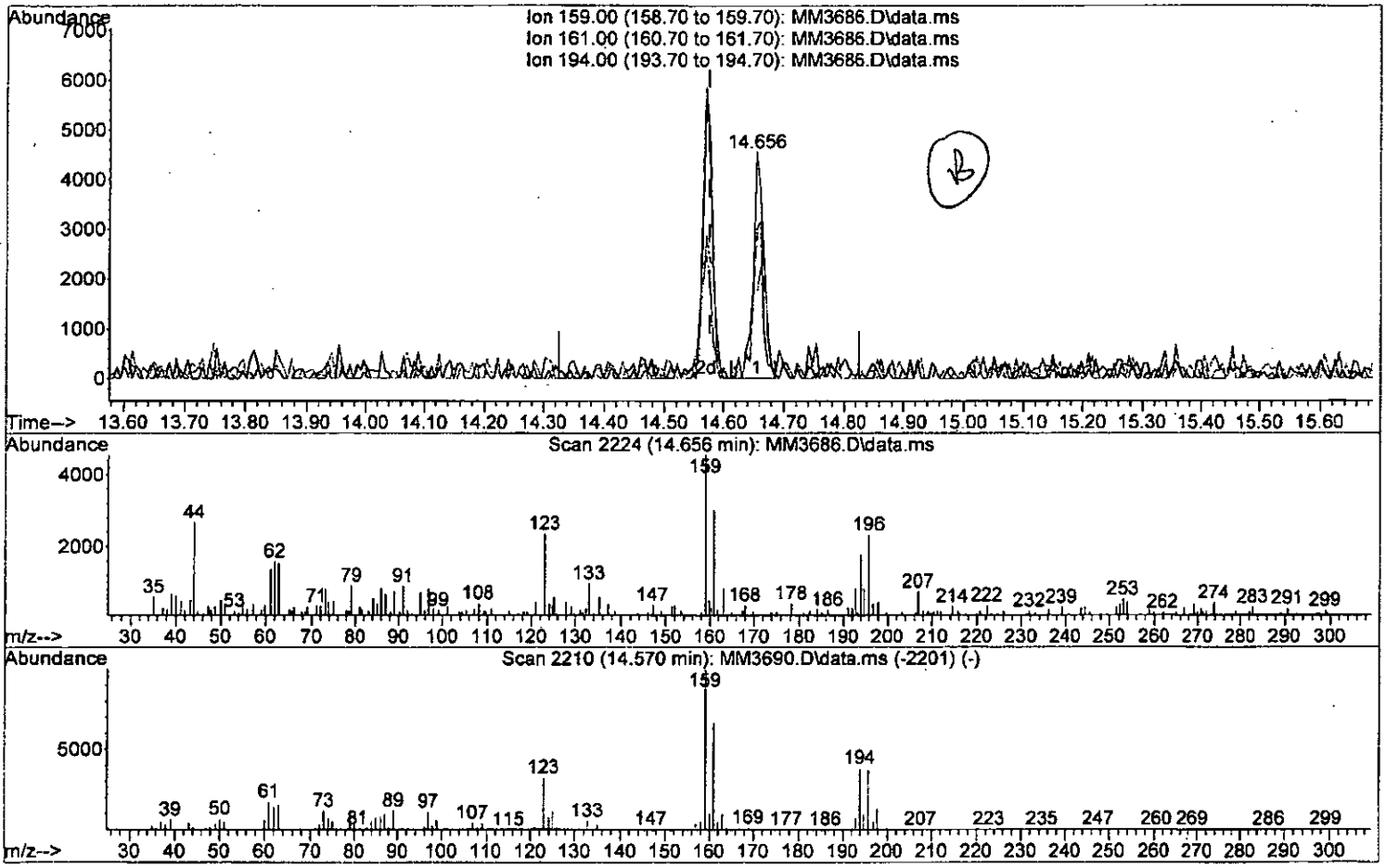
Ion	Exp%	Act%
91.00	100	100
126.00	36.30	35.84
63.00	14.60	17.60#
0.00	0.00	0.00

00156

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.079) 0.97 ppb

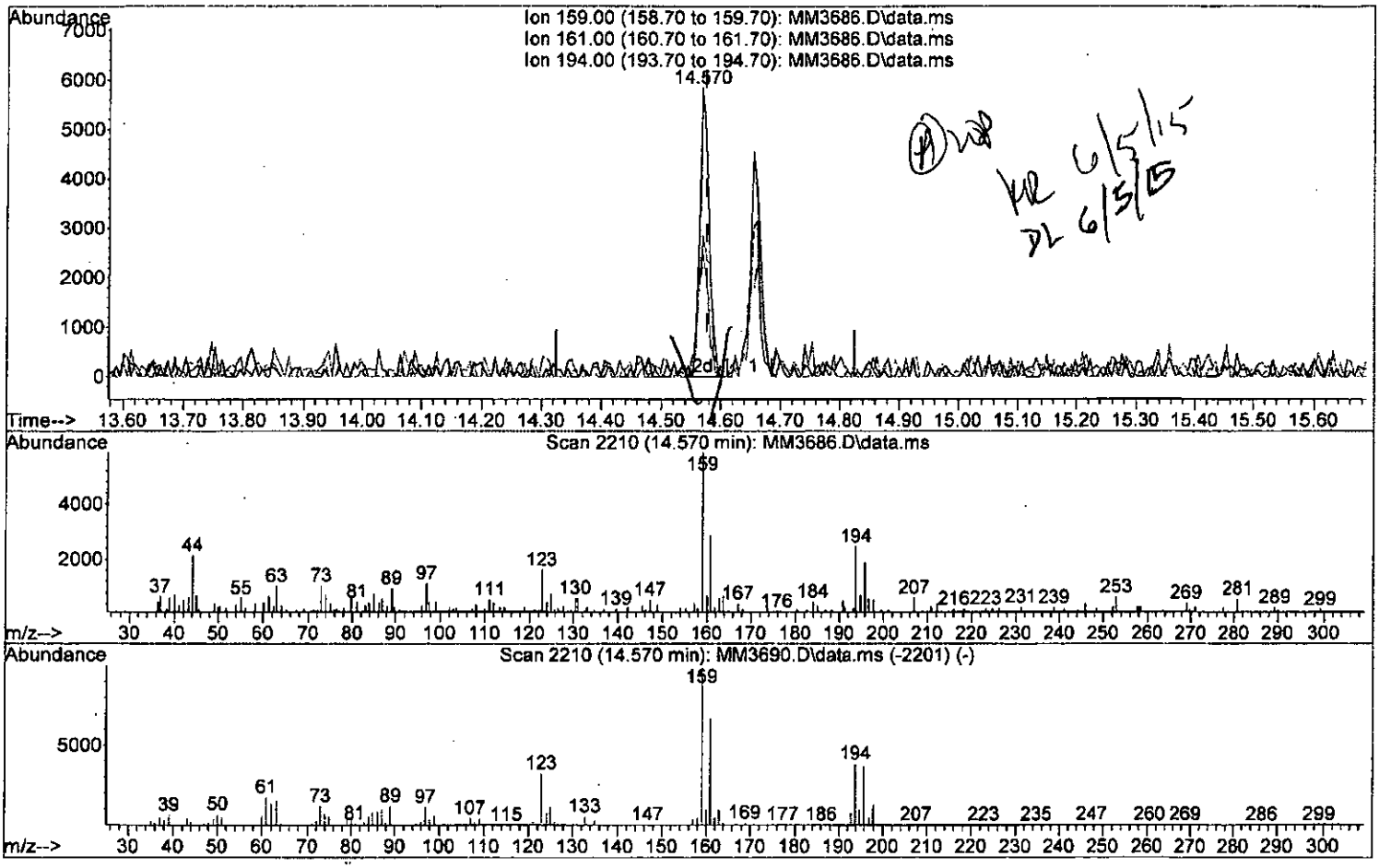
response 5661

Ion	Exp%	Act%
159.00	100	100
161.00	66.50	66.04
194.00	38.20	38.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(119) 2,4,5-Trichlorotolene

14.570min (-0.006) 1.09 ppb m

response 6362

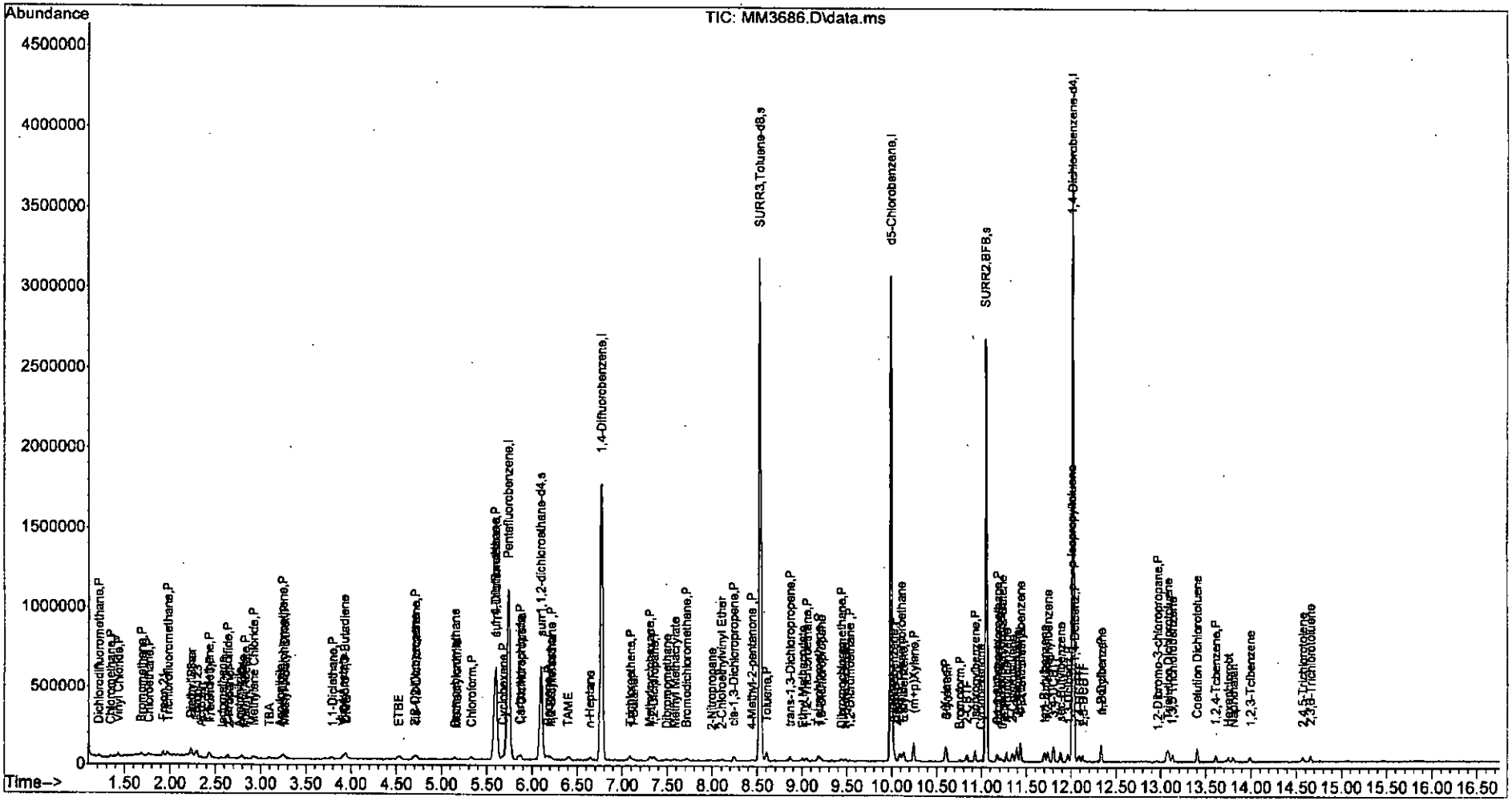
Ion	Exp%	Act%
159.00	100	100
161.00	66.50	48.87#
194.00	38.20	42.00
0.00	0.00	0.00

00158

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 09:12:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



W060415.M Fri Jun 05 09:12:25 2015 Page: 4

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:18:20 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.743	168	901515	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1485964	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1399505	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	730318	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	502327	62.47	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 124.94%#				
48) surr1,1,2-dichloroetha...	6.096	65	549708	64.00	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 128.00%#				
65) SURR3,Toluene-d8	8.529	98	2250811	64.09	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 128.18%#				
70) SURR2,BFB	11.047	95	838210	62.82	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 125.64%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	13527	1.73	ppb		85
3) Chloromethane	1.341	50	15228	2.04	ppb		83
4) Vinyl Chloride	1.427	62	17063	1.82	ppb		99
5) Bromomethane	1.683	94	11306	2.05	ppb		97
6) Chloroethane	1.768	64	12383	1.99	ppb		82
7) Freon 21	1.920	67	31636	2.02	ppb		88
8) Trichlorofluoromethane	1.975	101	28931	2.05	ppb		86
9) Diethyl Ether	2.231	59	13164	2.11	ppb		88
10) Freon 123a	2.237	67	20957m	2.07	ppb		
11) Freon 123	2.292	83	22954	1.98	ppb		97
12) Acrolein	2.335	56	4152	6.38	ppb		86
13) 1,1-Diclethene	2.432	96	13688	2.07	ppb		88
14) Freon 113	2.439	101	12650	1.93	ppb	#	76
15) Acetone	2.487	43	3003	2.40	ppb		69
16) 2-Propanol	2.652	45	10974	44.18	ppb		82
17) Iodomethane	2.567	142	7775	1.12	ppb		77
18) Carbon Disulfide	2.634	76	42572	2.01	ppb		98
19) Acetonitrile	2.756	40	1634m	9.89	ppb		
20) Allyl Chloride	2.798	76	7759	1.94	ppb	#	78
21) Methyl Acetate	2.829	43	6202	2.25	ppb		91
22) Methylene Chloride	2.920	84	14247	2.02	ppb		87
23) TBA	3.097	59	17827	39.82	ppb		74
24) Acrylonitrile	3.213	53	14072	9.74	ppb		91
25) Methyl-t-Butyl Ether	3.268	73	33911	1.97	ppb		94
26) trans-1,2-Dichloroethene	3.243	96	15562	2.10	ppb	#	73
28) 1,1-Diclethane	3.792	63	24613	2.01	ppb		95
29) Vinyl Acetate	3.902	86	2815	1.92	ppb	#	58
30) DIPE	3.944	45	41834	1.97	ppb	#	79
31) 2-Chloro-1,3-Butadiene	3.932	53	25068	1.88	ppb		84
32) ETBE	4.524	59	43912	2.07	ppb		90
33) 2,2-Dichloropropane	4.706	77	22834	1.96	ppb		96
34) cis-1,2-Dichloroethene	4.719	96	15620	1.98	ppb		98
36) Propionitrile	4.889	54	5627m	11.09	ppb		
37) Bromochloromethane	5.139	130	9140m	2.09	ppb		

KP 6/5/15

00160

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:18:20 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	5.145	67	4629	2.40	ppb	#	46
39) Tetrahydrofuran	5.255	42	2449m	2.16	ppb		
40) Chloroform	5.328	83	28155	2.18	ppb		95
41) 1,1,1-Trichloroethane	5.584	97	25209	2.02	ppb		88
42) TAME	6.407	73	35089	1.90	ppb		97
44) Cyclohexane	5.682	41	14548	2.16	ppb		81
46) Carbontetrachloride	5.859	121	6776m	2.10	ppb		
47) 1,1-Dichloropropene	5.871	75	19465	1.90	ppb		86
49) Benzene	6.170	78	57195	1.94	ppb		94
50) 1,2-Dichloroethane	6.212	62	17987	1.91	ppb		84
51) Iso-Butyl Alcohol	6.212	43	9497	48.55	ppb		88
52) n-Heptane	6.645	43	13464	2.15	ppb		82
53) 1-Butanol	7.127	56	13585	109.36	ppb		93
54) Trichloroethene	7.090	130	15250	1.92	ppb	#	84
55) Methylcyclohexane	7.316	55	14961	2.01	ppb		90
56) 1,2-Diclpropane	7.352	63	14676	2.08	ppb		97
57) Dibromomethane	7.492	93	8741m	2.30	ppb		
58) 1,4-Dioxane	7.566	88	3093m	53.85	ppb		
59) Methyl Methacrylate	7.578	69	7478	2.14	ppb	#	76
60) Bromodichloromethane	7.712	83	20974	2.02	ppb		85
61) 2-Nitropropane	7.986	41	5758	4.35	ppb		90
62) 2-Chloroethylvinyl Ether	8.108	63	5801	1.78	ppb	#	61
63) cis-1,3-Dichloropropene	8.242	75	23575	1.99	ppb		92
64) 4-Methyl-2-pentanone	8.437	43	8083	2.01	ppb		96
66) Toluene	8.602	91	67104	1.99	ppb		100
67) trans-1,3-Dichloropropene	8.864	75	20155	1.99	ppb		94
68) Ethyl Methacrylate	8.998	69	14659	1.99	ppb		86
69) 1,1,2-Trichloroethane	9.041	97	10465	1.92	ppb		94
72) Tetrachloroethene	9.181	164	13651	2.13	ppb		93
73) 2-Hexanone	9.334	43	4934	1.74	ppb		90
74) 1,3-Dichloropropane	9.212	76	17415	1.90	ppb		89
75) Dibromochloromethane	9.431	129	12087	1.75	ppb	#	55
76) N-Butyl Acetate	9.480	43	14534	1.96	ppb		91
77) 1,2-Dibromoethane	9.529	107	10171	1.87	ppb		89
78) Chlorobenzene	10.016	112	44087	1.94	ppb		95
79) 3-CBTF	10.029	180	21028	1.96	ppb		93
80) 4-CBTF	10.083	180	18211	1.87	ppb		93
81) 1,1,1,2-Tetrachloroethane	10.096	131	16469	2.11	ppb	#	74
82) Ethylbenzene	10.132	106	21755	1.76	ppb		99
83) (m+p)Xylene	10.242	106	58404	3.89	ppb		94
84) o-Xylene	10.596	106	27494	1.89	ppb	#	77
85) Styrene	10.608	104	48747	1.95	ppb		94
87) Bromoform	10.760	173	7351	1.97	ppb		81
88) 2-CBTF	10.833	180	21052	1.99	ppb		86
89) Isopropylbenzene	10.925	105	71983	2.12	ppb		88
90) Cyclohexanone	10.992	55	8026	39.35	ppb		99
91) trans-1,4-Dichloro-2-B...	11.223	53	3256	1.78	ppb		96
92) 1,1,2,2-Tetrachloroethane	11.181	83	12112	1.96	ppb		93
93) Bromobenzene	11.175	156	16672	1.97	ppb		86
94) 1,2,3-Trichloropropane	11.211	110	3710	1.98	ppb	#	79
95) n-Propylbenzene	11.278	91	78318	2.05	ppb		99

00161

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:18:20 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

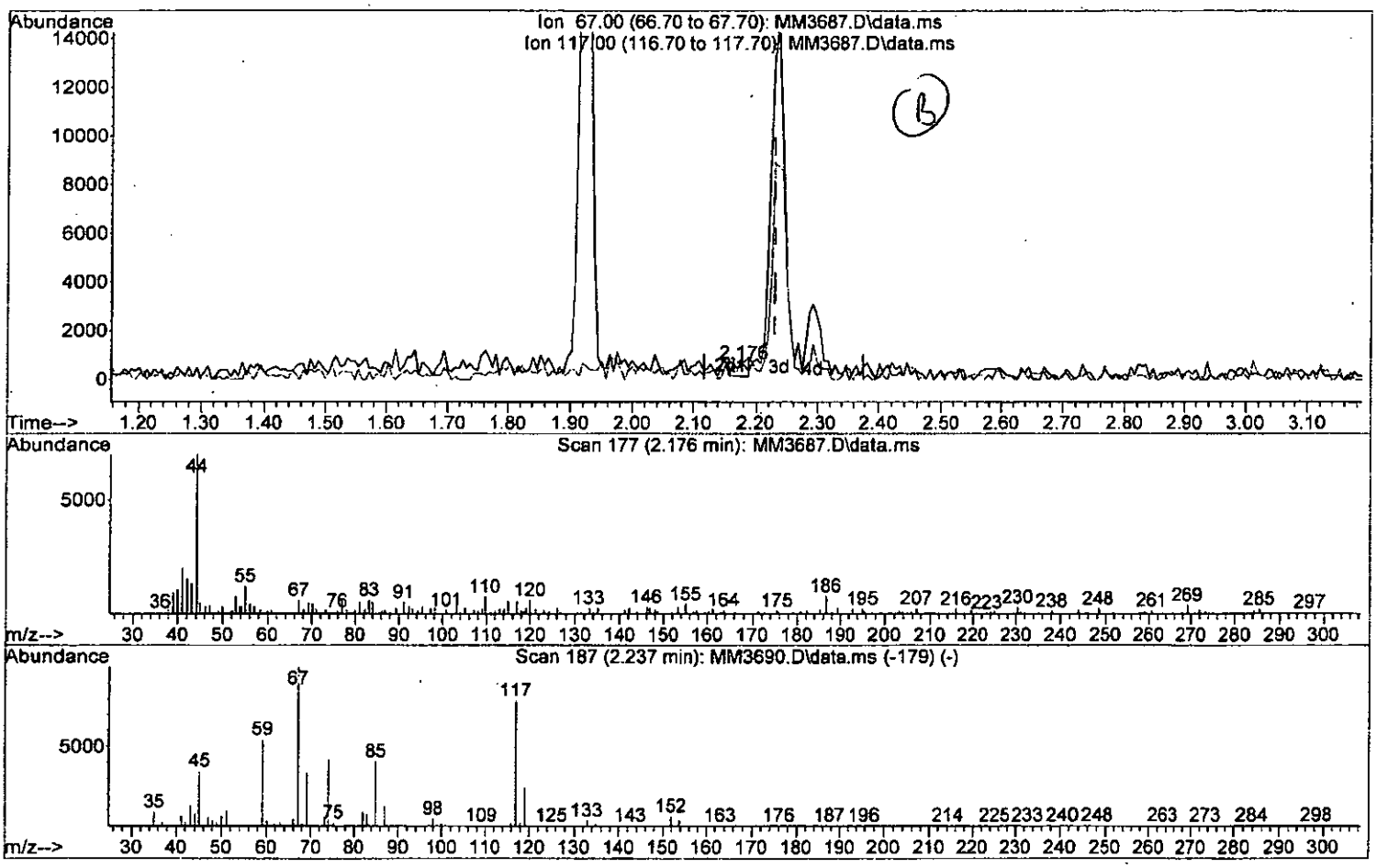
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	2-Chlorotoluene	11.339	91	47385	2.01	ppb		94
97)	3-Chlorotoluene	11.394	91	50779	2.03	ppb		96
98)	4-Chlorotoluene	11.437	91	60462	2.08	ppb		93
99)	1,3,5-Trimethylbenzene	11.431	105	57008	1.96	ppb		95
100)	tert-Butylbenzene	11.699	119	45181	1.93	ppb		92
101)	1,2,4-Trimethylbenzene	11.736	105	56851	1.94	ppb		93
102)	3,4-DCBTF	11.803	214	13734	1.98	ppb	#	86
103)	sec-Butylbenzene	11.882	105	65640	2.05	ppb		95
104)	p-Isopropyltoluene	11.998	119	56642	2.08	ppb		98
105)	1,3-Dclbenz	11.961	146	32999	2.01	ppb		92
106)	1,4-Dclbenz	12.034	146	37438	2.19	ppb		88
107)	2,4-DCBTF	12.089	214	11911	1.95	ppb		97
108)	2,5-DCBTF	12.126	214	12662	1.84	ppb	#	86
109)	n-Butylbenzene	12.333	91	45693	1.87	ppb		99
110)	1,2-Dclbenz	12.333	146	30547	1.99	ppb		98
111)	1,2-Dibromo-3-chloropr...	12.955	157	2893	2.32	ppb	#	76
112)	Trielution Dichlorotol...	13.071	125	78833	6.09	ppb		93
113)	1,3,5 Trichlorobenzene	13.126	180	18271	1.90	ppb		97
114)	Coelution Dichlorotoluene	13.400	125	53153	3.84	ppb		97
115)	1,2,4-Tcbenzene	13.607	180	18894	2.14	ppb		82
116)	Hexachlorobt	13.747	225	7949	2.34	ppb		86
117)	Naphthalen	13.796	128	36775	1.99	ppb		96
118)	1,2,3-Tclbenzene	13.985	180	15095	2.09	ppb		94
119)	2,4,5-Trichlorotolene	14.570	159	11740	2.04	ppb		97
120)	2,3,6-Trichlorotoluene	14.662	159	9317	1.88	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(10) Freon 123a

2.176min (-0.055) 0.07 ppb

response 736

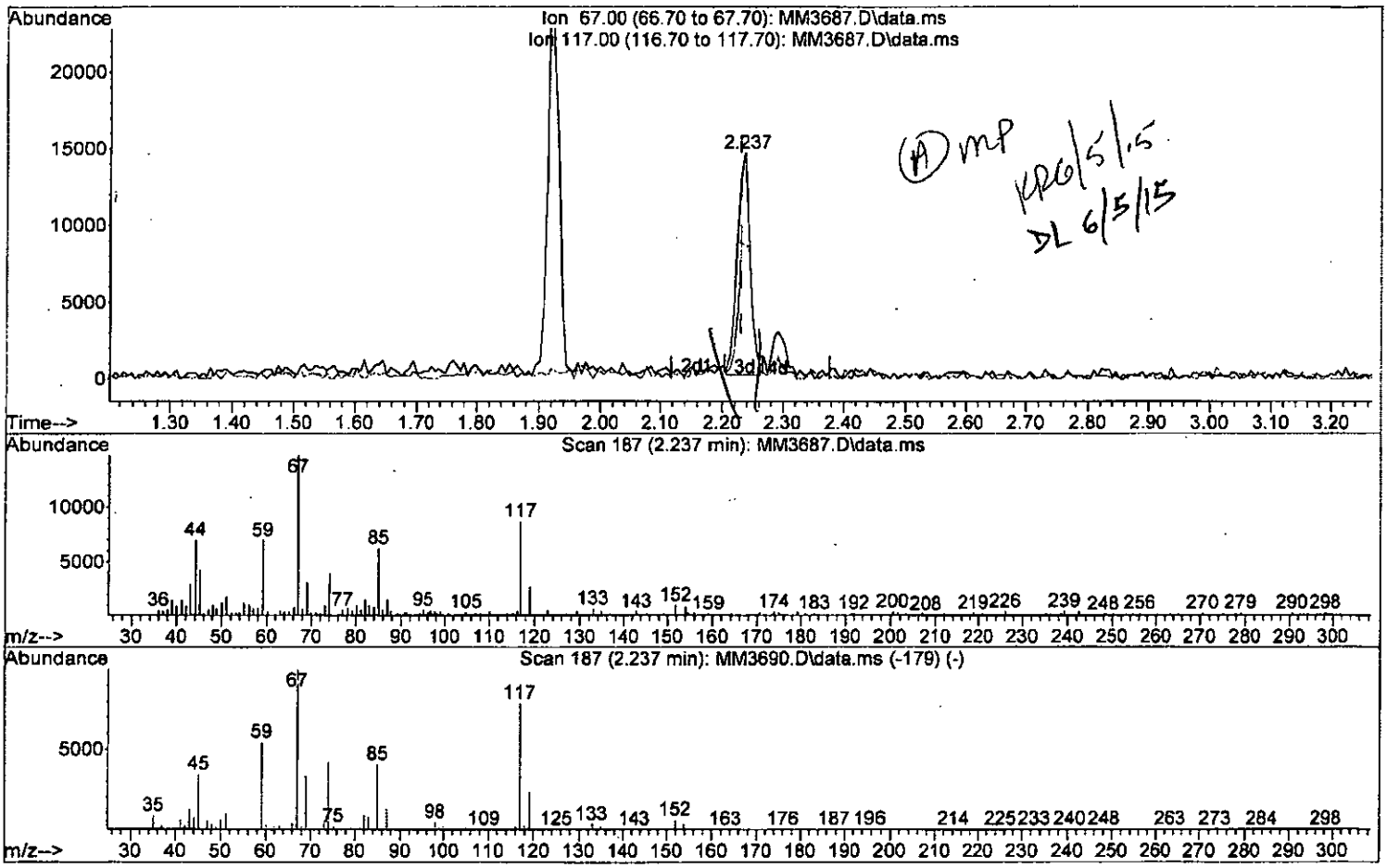
Ion	Exp%	Act%
67.00	100	100
117.00	79.00	90.30
0.00	0.00	0.00
0.00	0.00	0.00

00163

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



(A) mp 6/5/15
KRC 6/5/15
DL 6/5/15

TIC: MM3687.D\data.ms

(10) Freon 123a

2.237min (+0.006) 2.07 ppb m

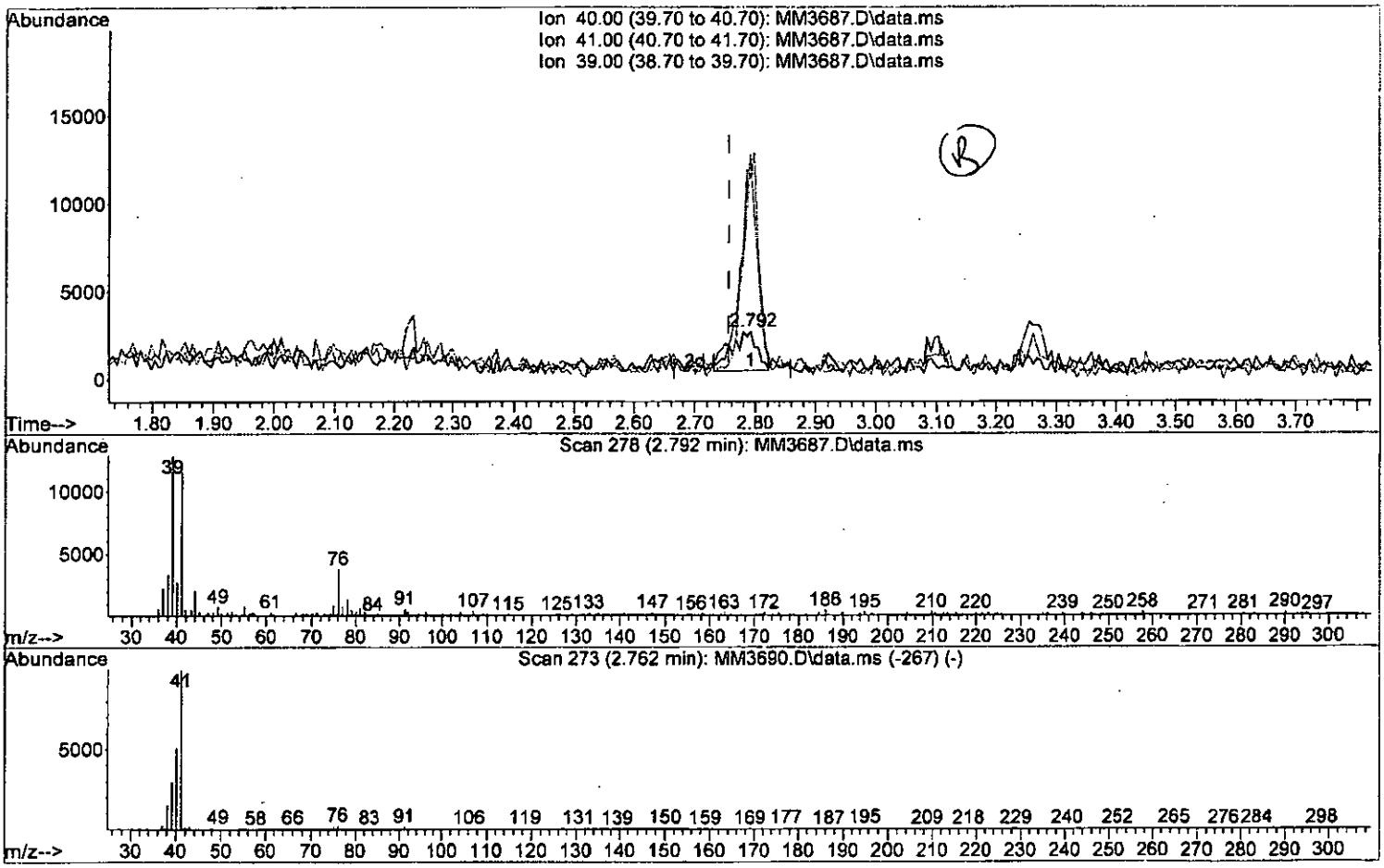
response 20957

Ion	Exp%	Act%
67.00	100	100
117.00	79.00	58.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(19) Acetonitrile

2.792min (+0.036) 38.06 ppb

response 6288

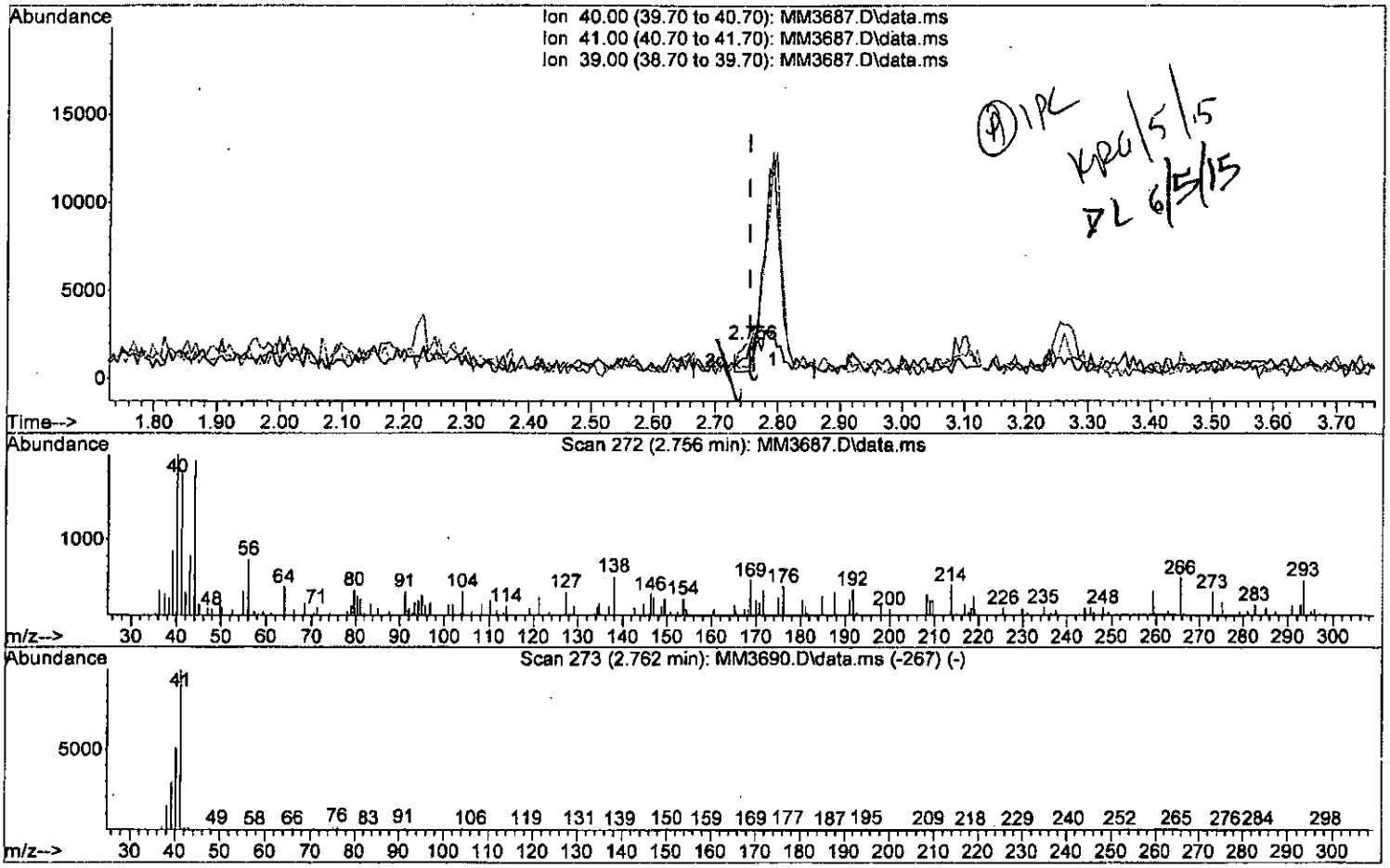
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	423.20#
39.00	58.40	472.56#
0.00	0.00	0.00

00165

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(19) Acetonitrile

2.756min (-0.000) 9.89 ppb m

response 1634

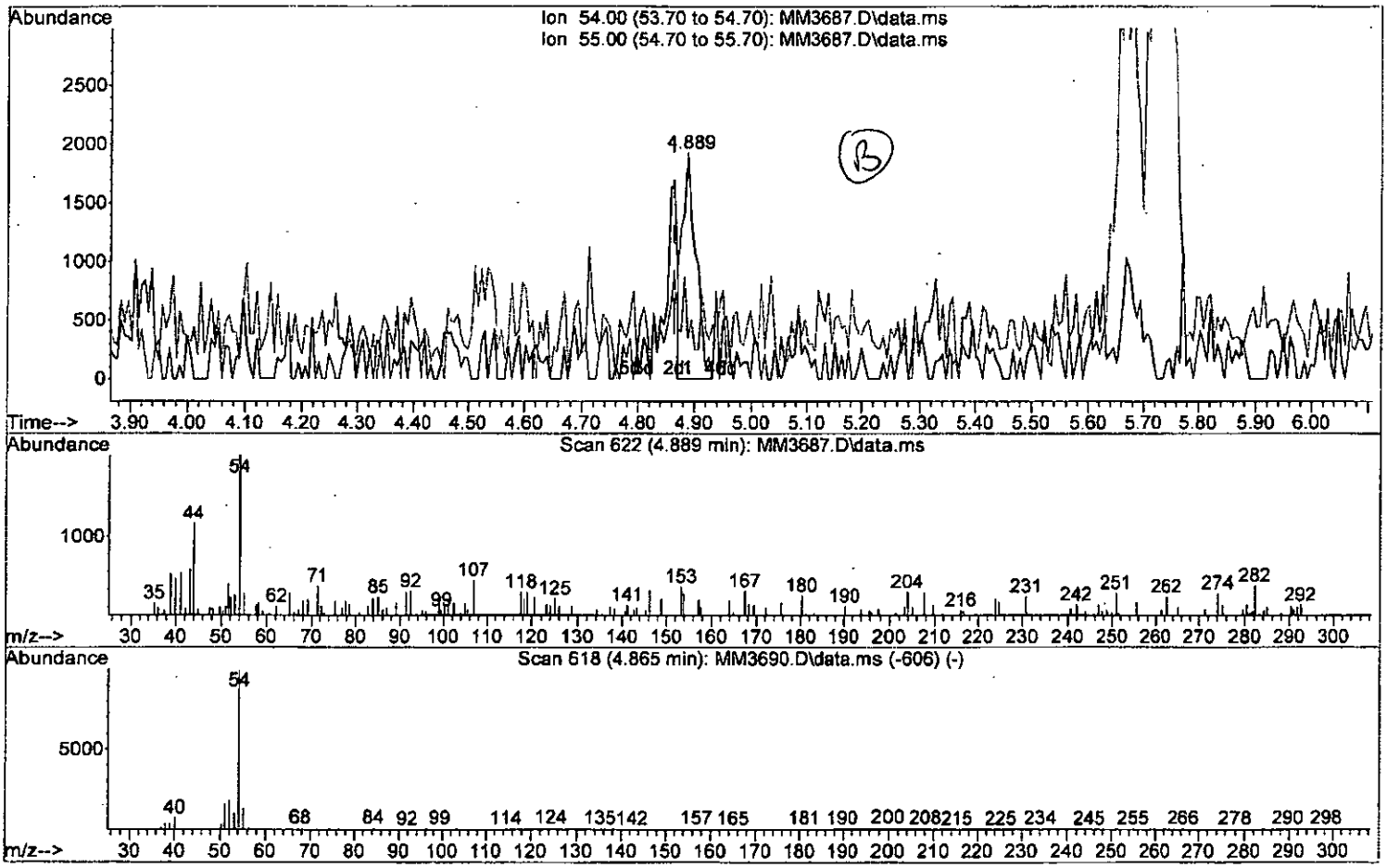
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	89.01#
39.00	58.40	42.82
0.00	0.00	0.00

00166

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(36) Propionitrile

4.889min (+0.024) 6.33 ppb

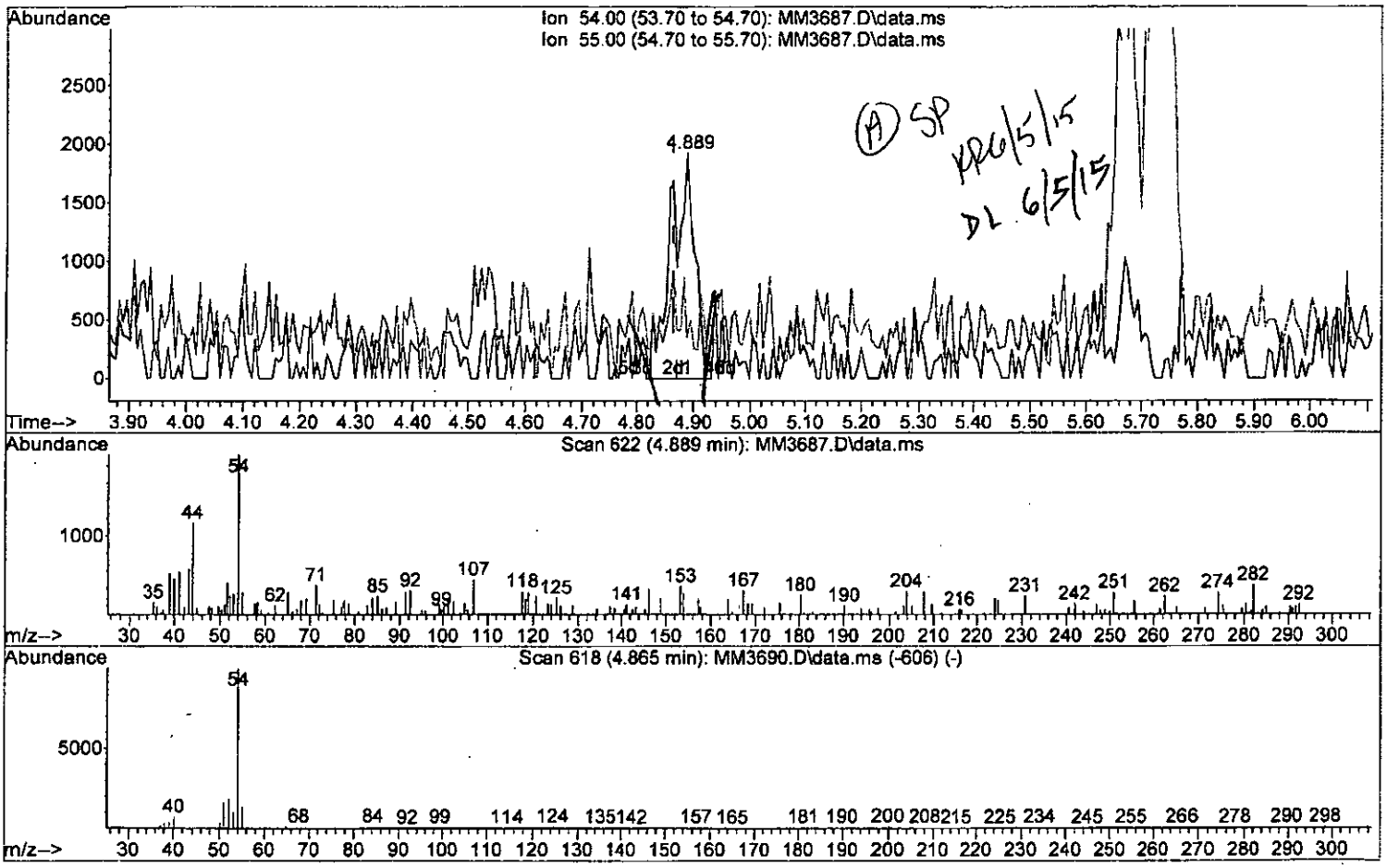
response 3210

Ion	Exp%	Act%
54.00	100	100
55.00	15.00	18.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(36) Propionitrile

4.889min (+0.024) 11.09 ppb m

response 5627

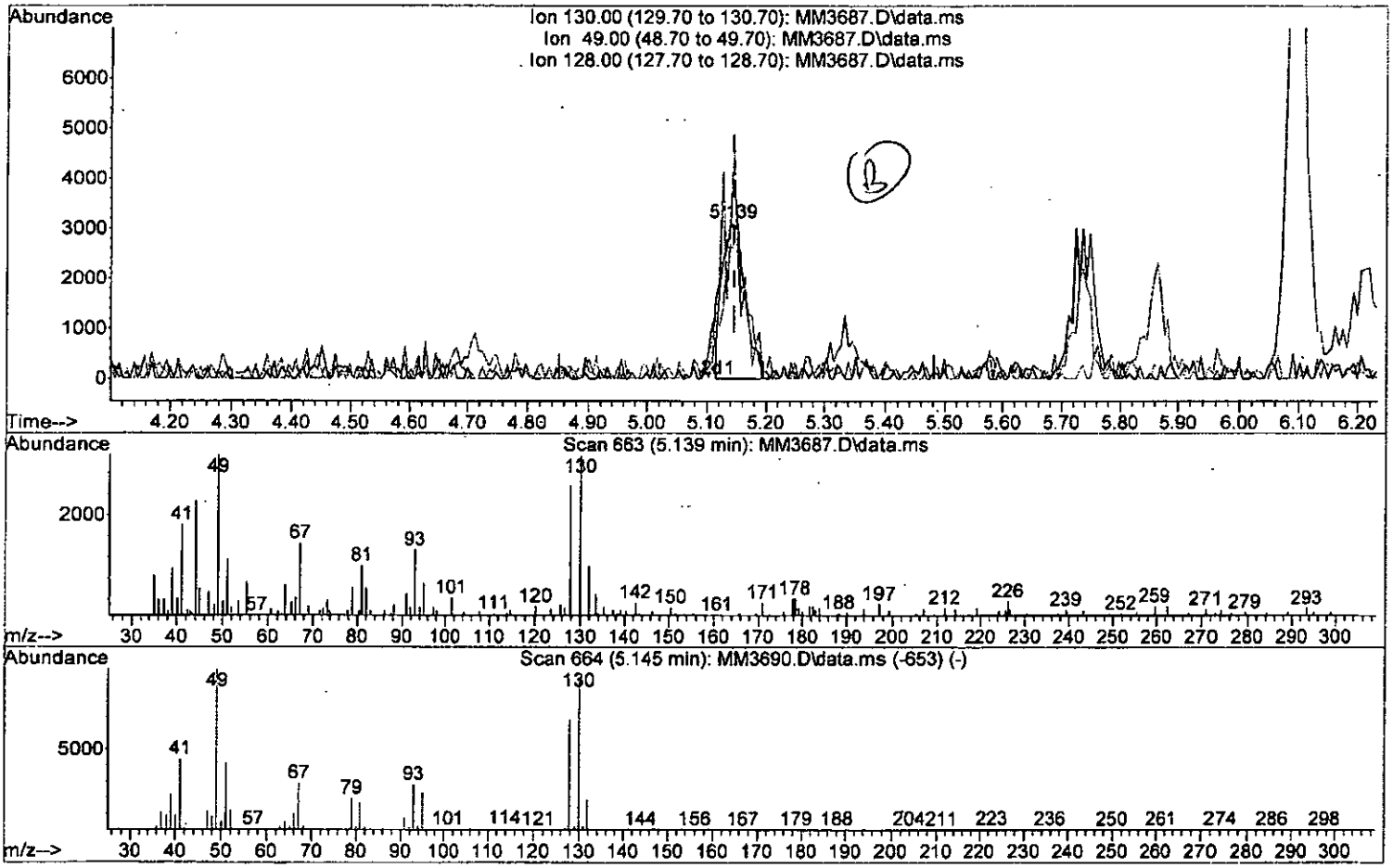
Ion	Exp%	Act%
54.00	100	100
55.00	15.00	18.35
0.00	0.00	0.00
0.00	0.00	0.00

00168

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 1.89 ppb

response 8271

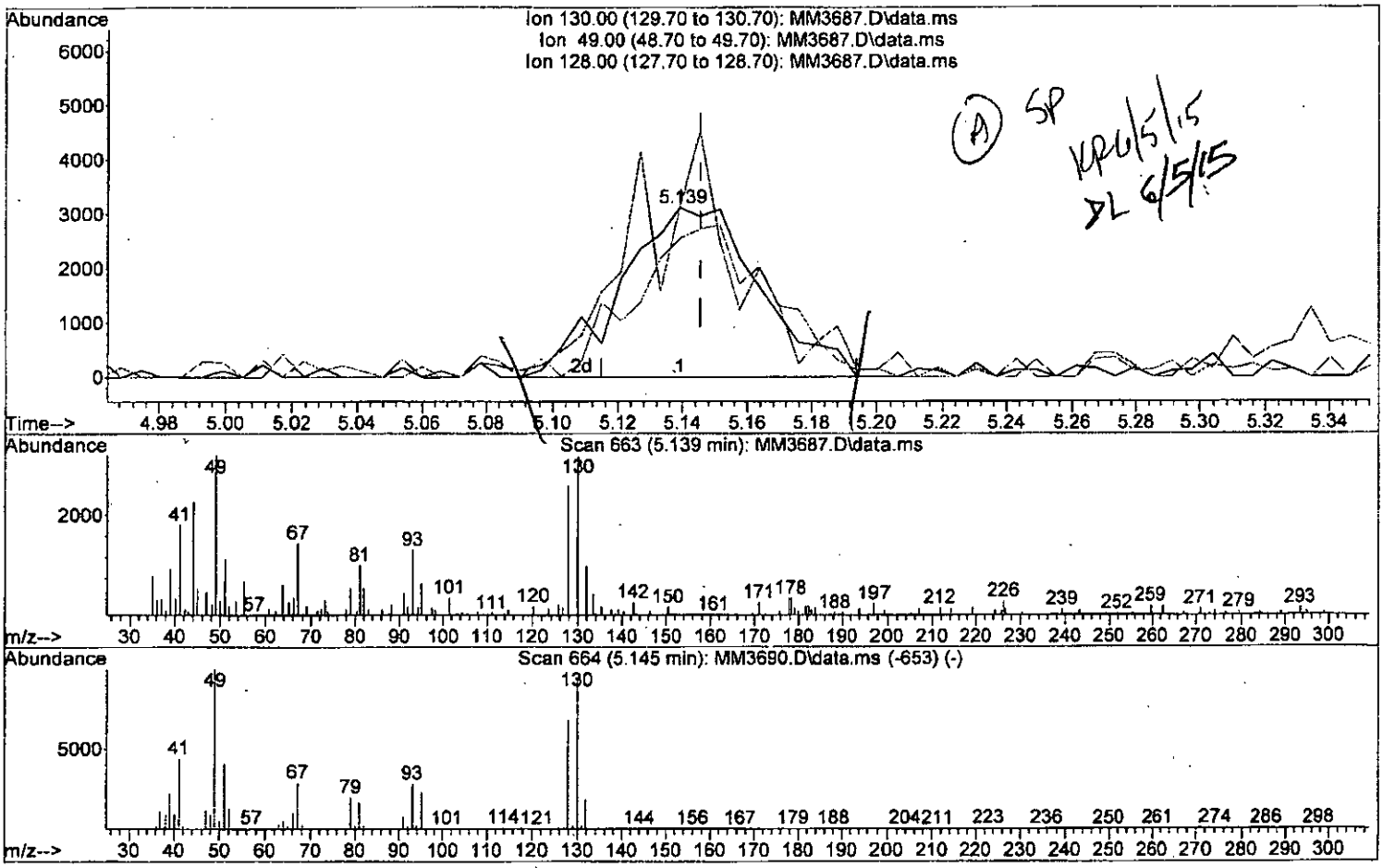
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	100.58
128.00	72.20	81.83
0.00	0.00	0.00

00169

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 2.09 ppb m

response 9140

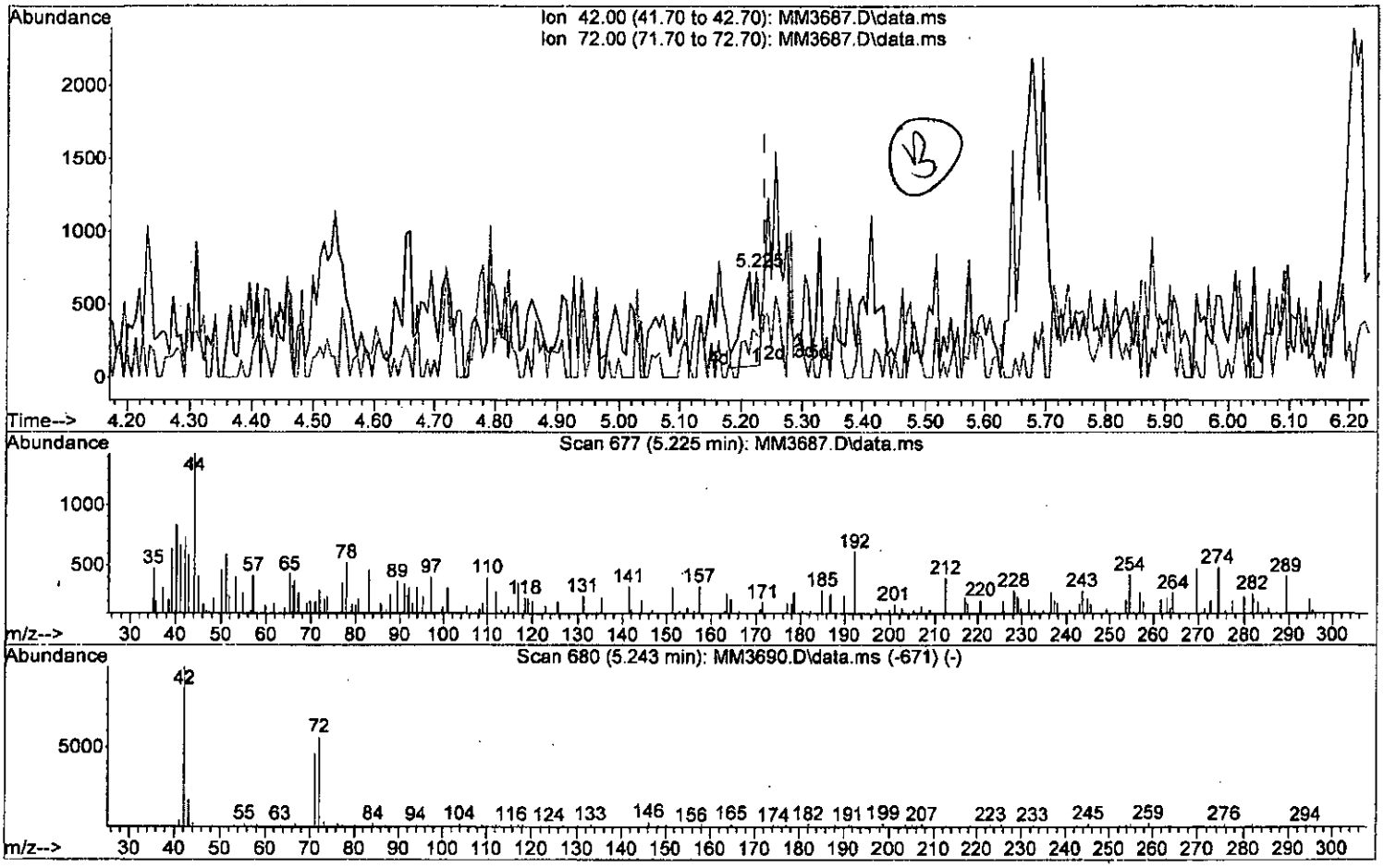
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	100.58
128.00	72.20	81.83
0.00	0.00	0.00

00170

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(39) Tetrahydrofuran

5.225min (-0.012) 1.00 ppb

response 1132

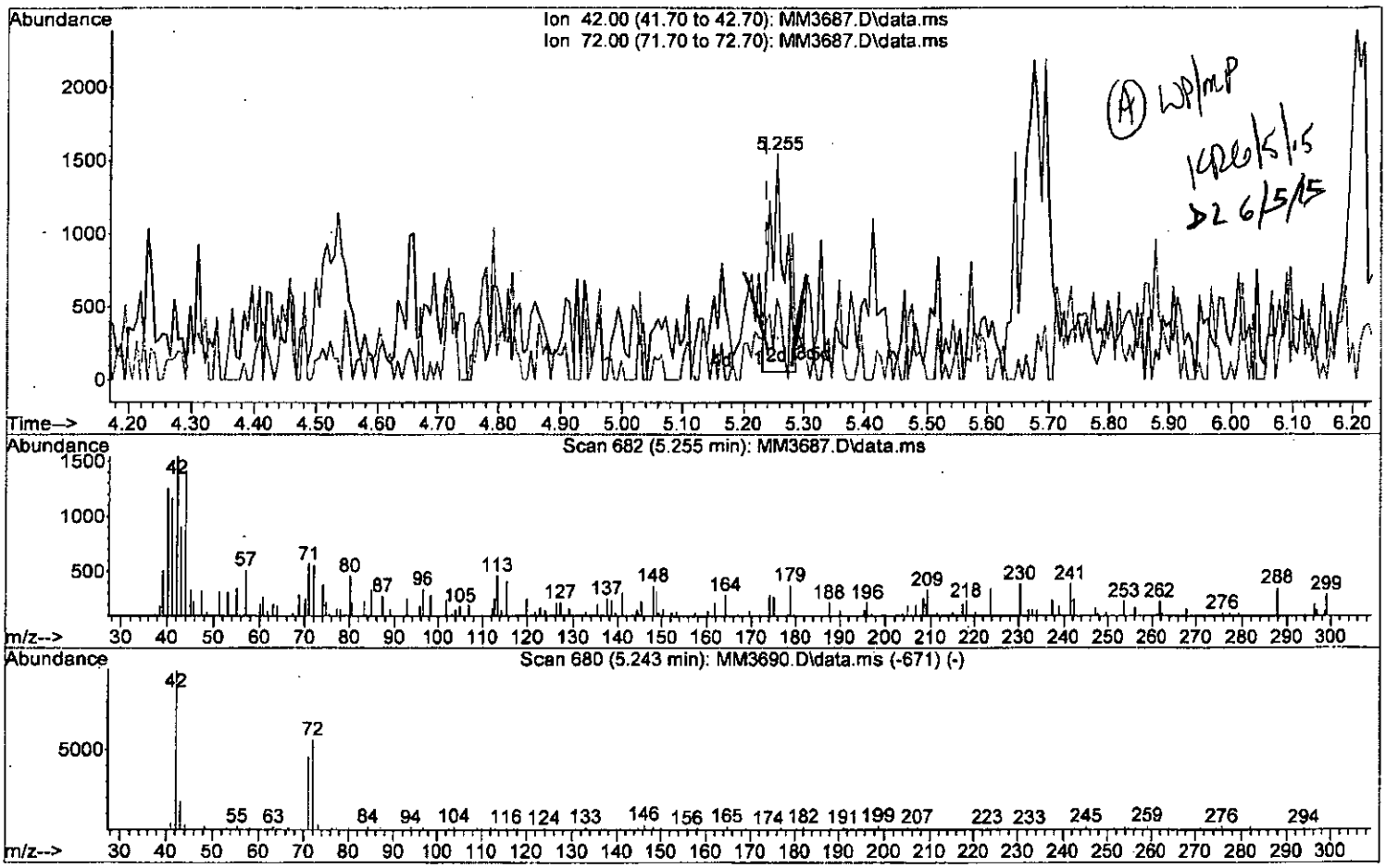
Ion	Exp%	Act%
42.00	100	100
72.00	55.20	40.41
0.00	0.00	0.00
0.00	0.00	0.00

00171

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(39) Tetrahydrofuran

5.255min (+0.018) 2.16 ppb m

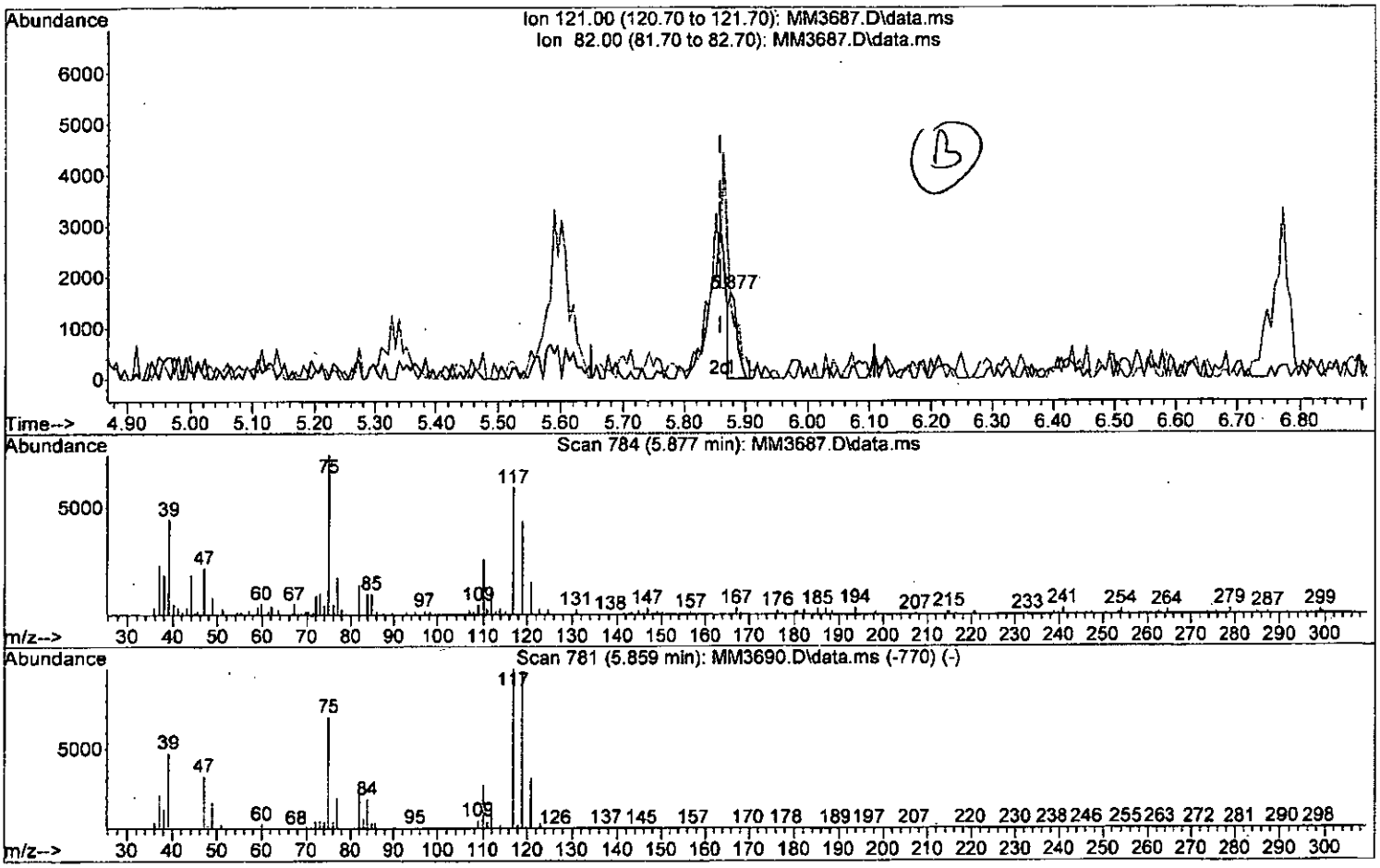
response 2449

Ion	Exp%	Act%
42.00	100	100
72.00	55.20	36.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(46) Carbontetrachloride (P)

5.877min (+0.018) 0.45 ppb

response 1447

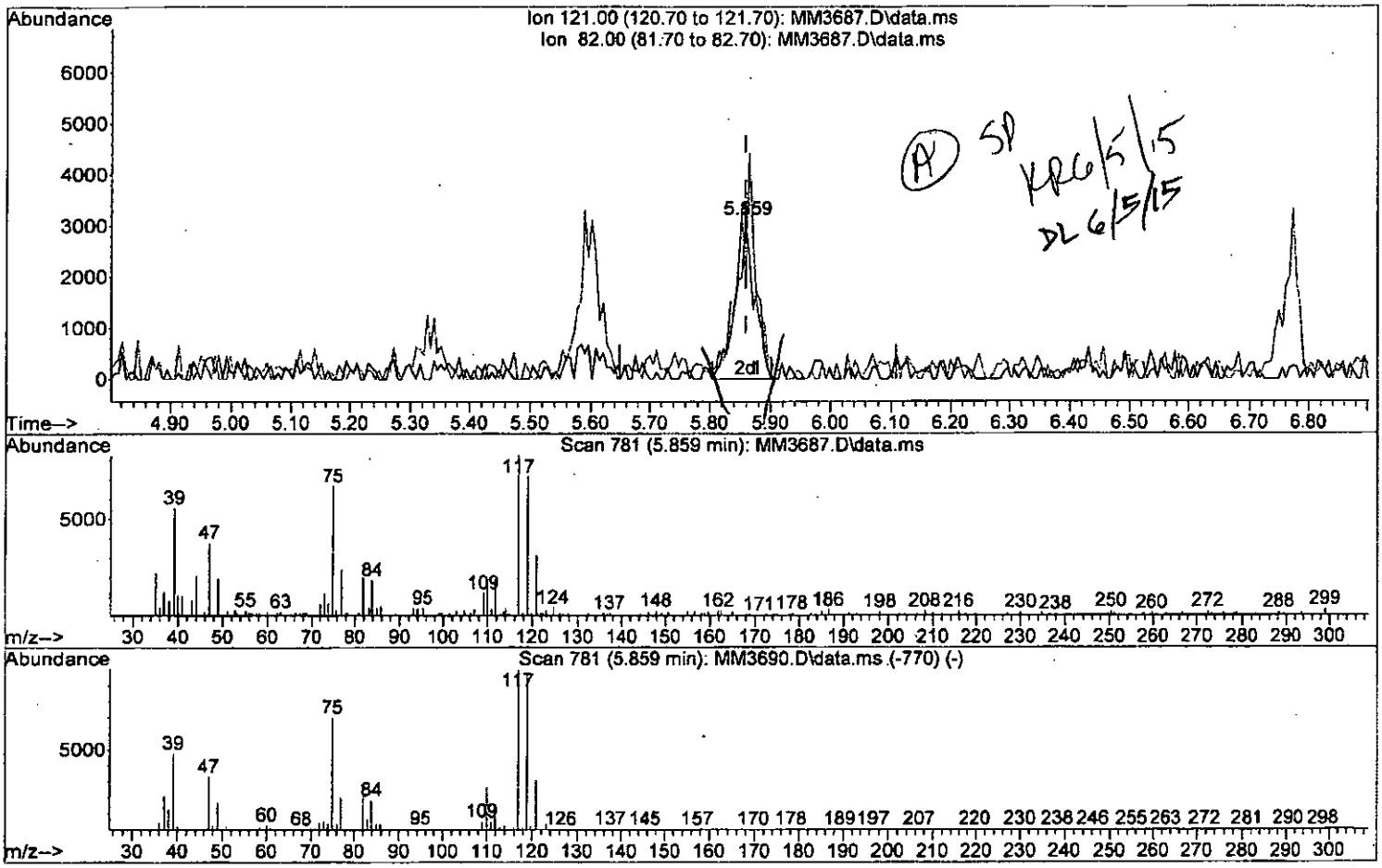
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	85.61
0.00	0.00	0.00
0.00	0.00	0.00

00173

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:18:20 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(46) Carbontetrachloride (P)

5.859min (-0.000) 2.10 ppb m

response 6776

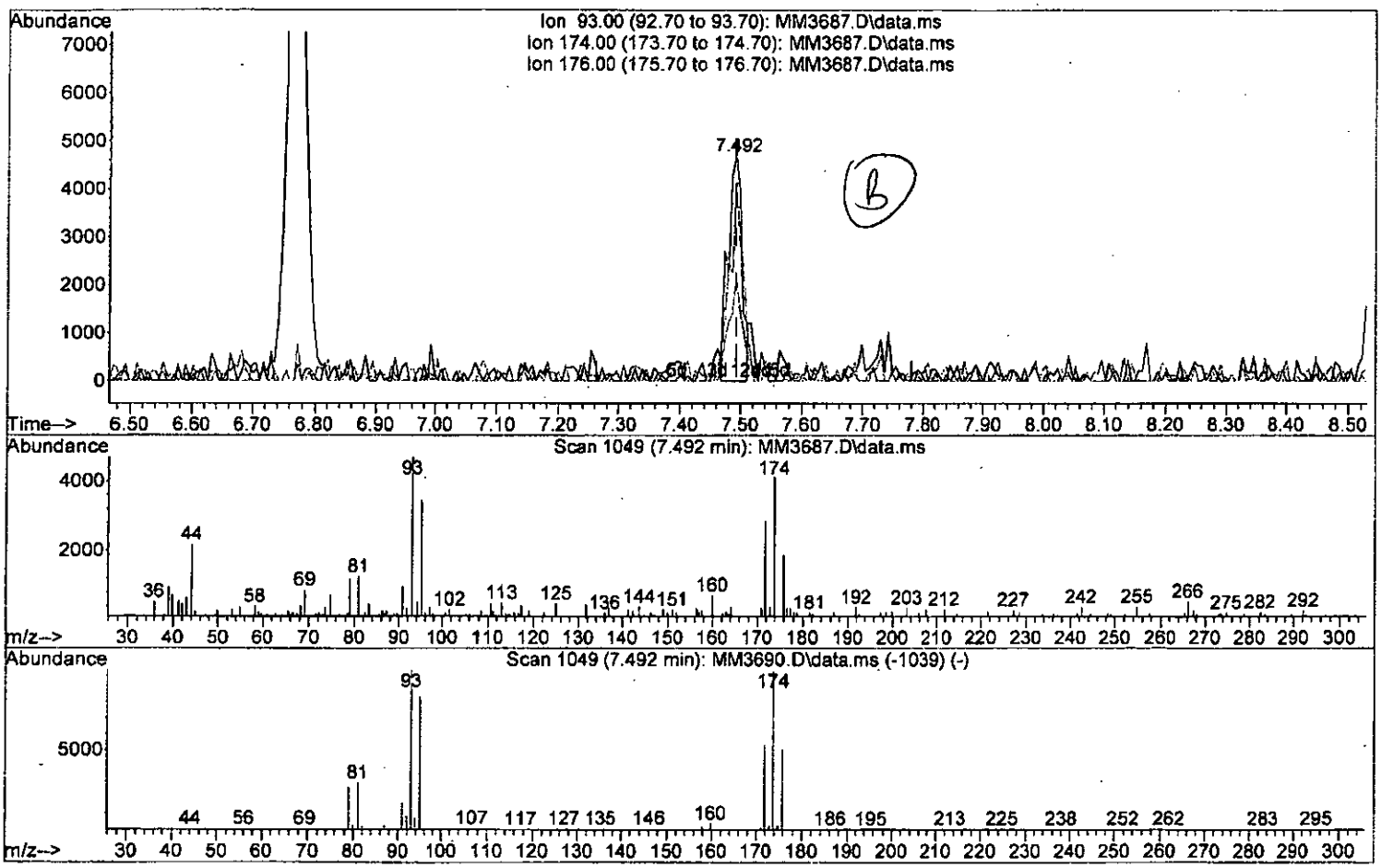
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	64.54#
0.00	0.00	0.00
0.00	0.00	0.00

00174

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(57) Dibromomethane

7.492min (-0.000) 1.98 ppb

response 7520

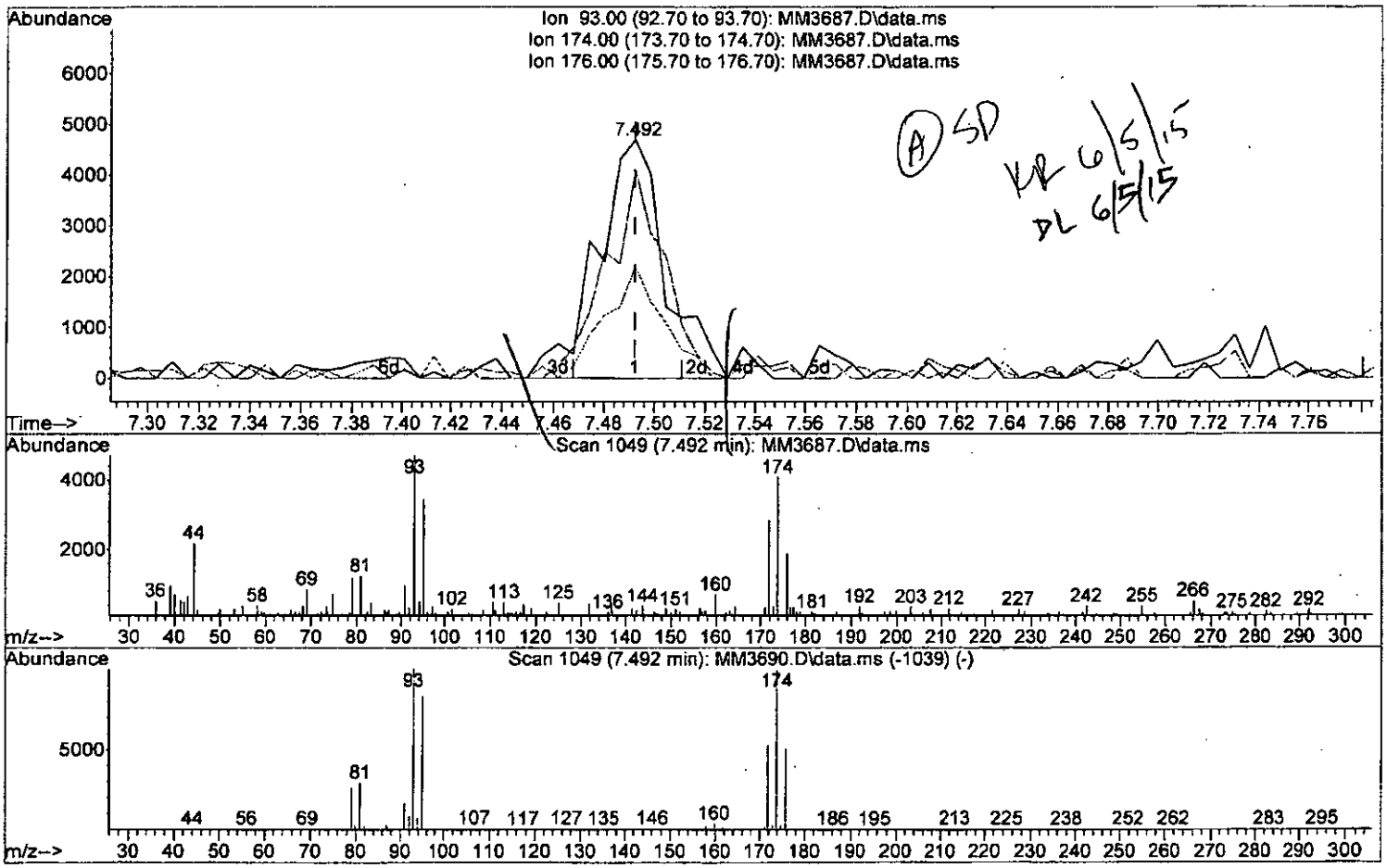
Ion	Exp%	Act%
93.00	100	100
174.00	99.50	87.49
176.00	50.60	46.97
0.00	0.00	0.00

00175

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(57) Dibromomethane

7.492min (-0.000) 2.30 ppb m

response 8741

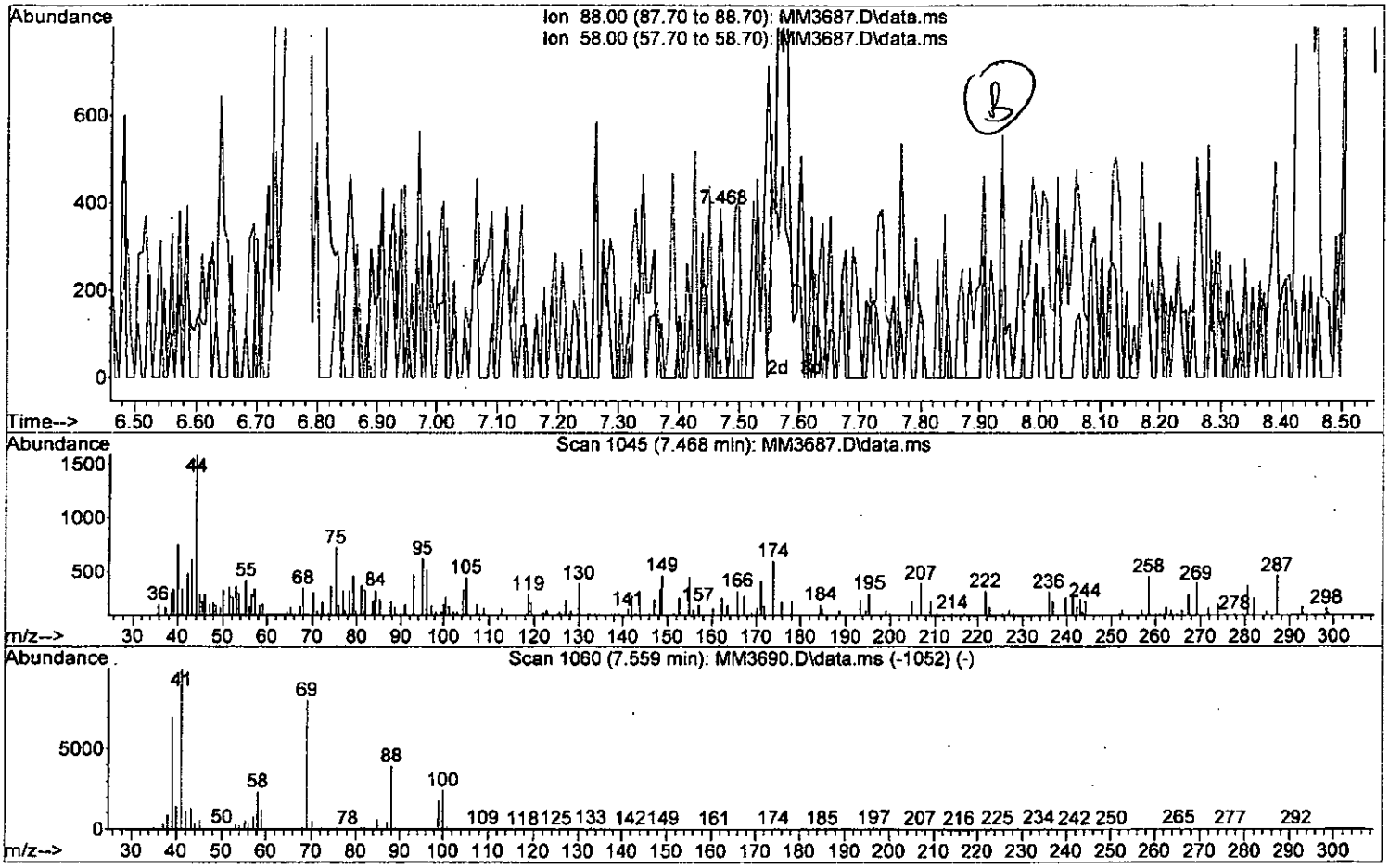
Ion	Exp%	Act%
93.00	100	100
174.00	99.50	87.49
176.00	50.60	39.80
0.00	0.00	0.00

00176

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(58) 1,4-Dioxane

7.468min (-0.085) 5.52 ppb

response 317

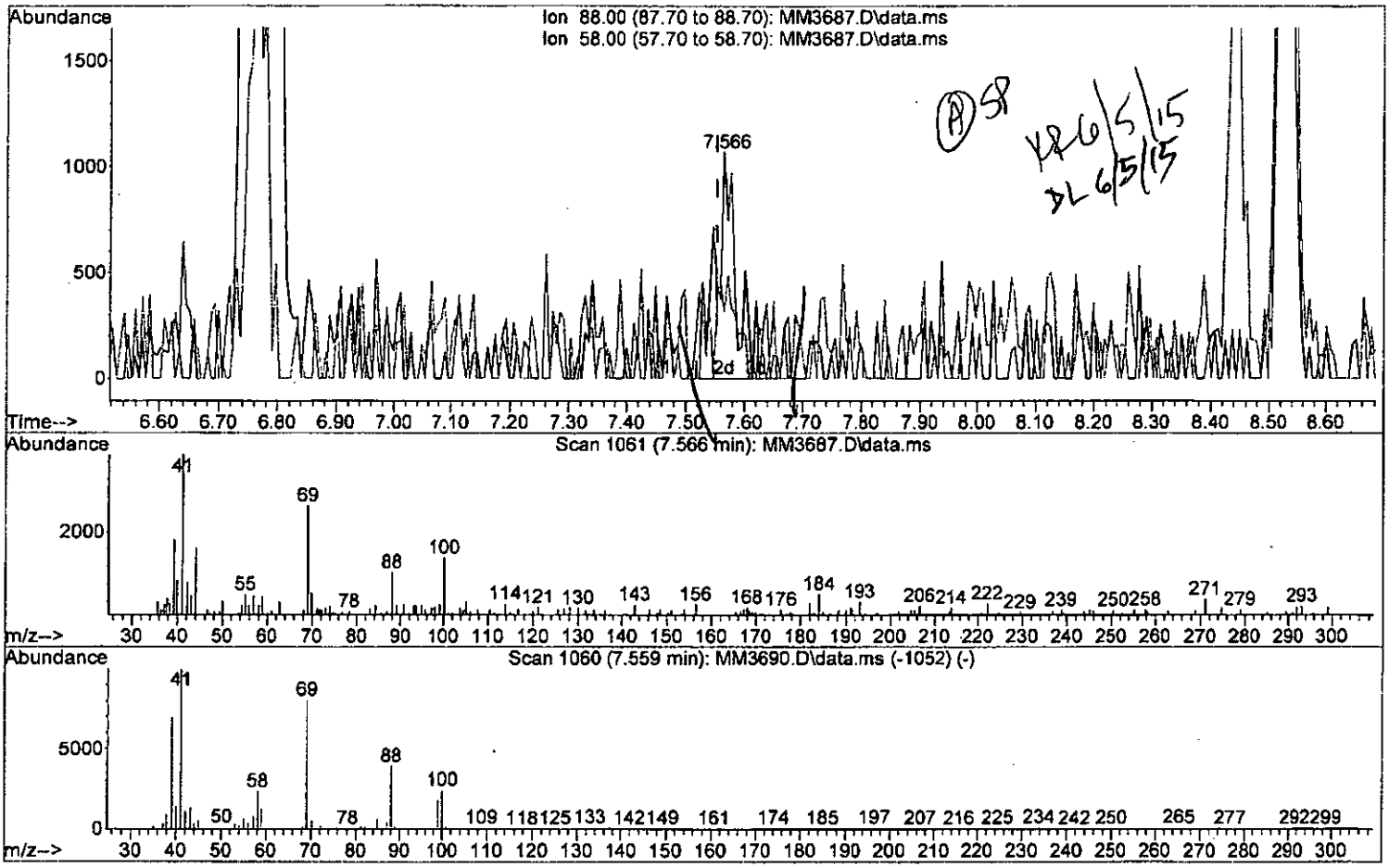
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	48.71
0.00	0.00	0.00
0.00	0.00	0.00

00177

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(58) 1,4-Dioxane

7.566min (+0.012) 53.85 ppb m

response 3093

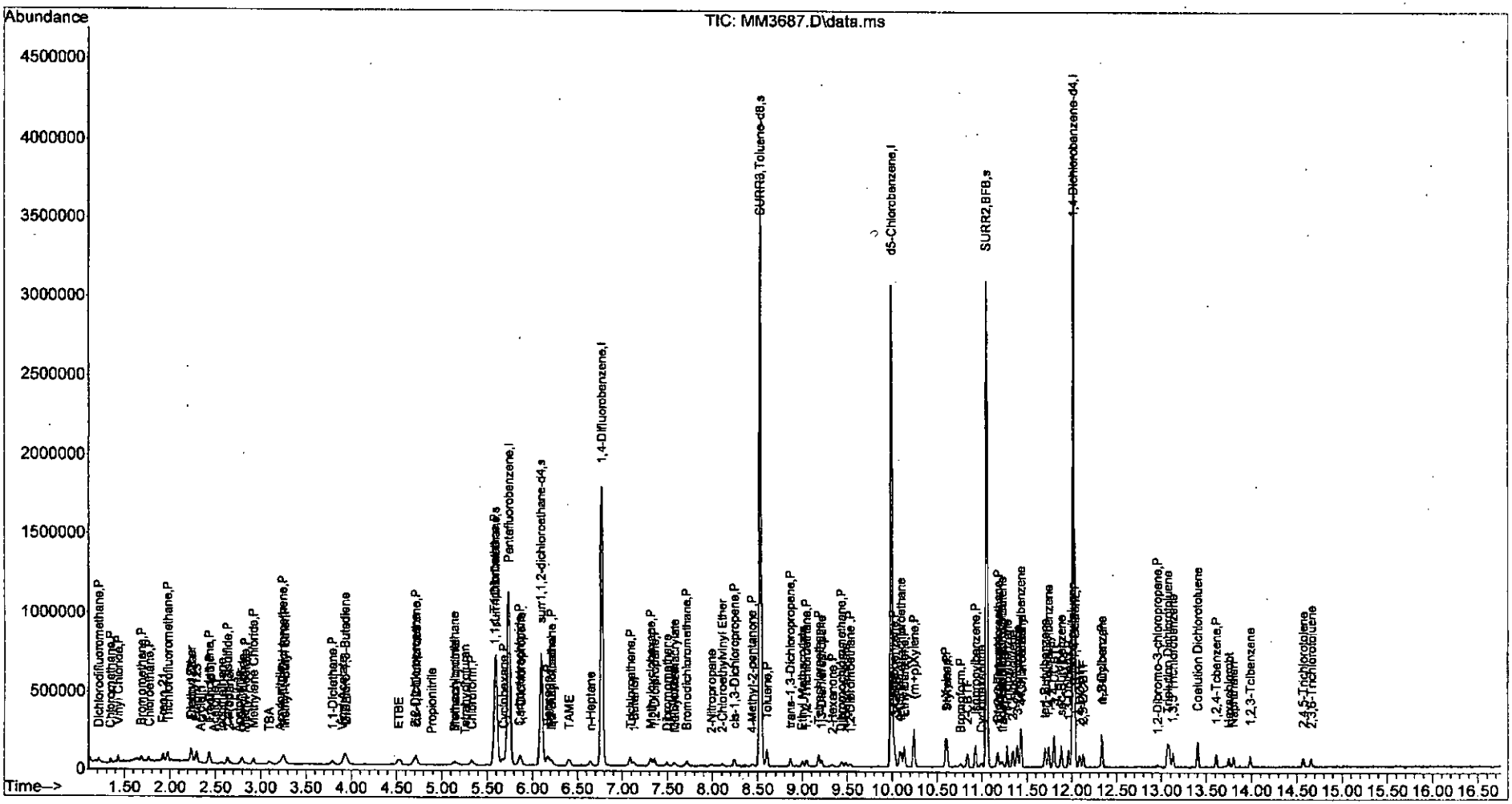
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	29.71#
0.00	0.00	0.00
0.00	0.00	0.00

00178

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 09:18:20 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 13:52:06 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	903035	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1480911	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1390447	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	734348	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	583555	72.82	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 145.64%#				
48) surr1,1,2-dichloroetha...	6.097	65	619915	72.42	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 144.84%#				
65) SURR3,Toluene-d8	8.529	98	2579355	73.69	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 147.38%#				
70) SURR2,BFB	11.047	95	955816	71.87	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 143.74%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	35763	4.57	ppb		99
3) Chloromethane	1.341	50	34781	4.64	ppb		97
4) Vinyl Chloride	1.427	62	43359	4.61	ppb		100
5) Bromomethane	1.677	94	24177	4.38	ppb		86
6) Chloroethane	1.762	64	28212	4.52	ppb		86
7) Freon 21	1.927	67	76881	4.91	ppb		98
8) Trichlorofluoromethane	1.975	101	68859	4.88	ppb		93
9) Diethyl Ether	2.225	59	30691	4.92	ppb		93
10) Freon 123a	2.231	67	50549	4.99	ppb		95
11) Freon 123	2.292	83	55290	4.76	ppb		96
12) Acrolein	2.335	56	14923	22.89	ppb		84
13) 1,1-Diclethene	2.426	96	30643	4.62	ppb		99
14) Freon 113	2.433	101	33237	5.06	ppb		80
15) Acetone	2.487	43	6787	5.42	ppb		74
16) 2-Propanol	2.652	45	23908	96.08	ppb		94
17) Iodomethane	2.567	142	22334	3.21	ppb		91
18) Carbon Disulfide	2.634	76	101484	4.79	ppb		99
19) Acetonitrile	2.762	40	2967	17.93	ppb	#	60
20) Allyl Chloride	2.792	76	21126	5.29	ppb		90
21) Methyl Acetate	2.835	43	13295	4.82	ppb		96
22) Methylene Chloride	2.920	84	34524	4.89	ppb		93
23) TBA	3.091	59	43315	96.60	ppb		82
24) Acrylonitrile	3.207	53	33064	22.84	ppb		95
25) Methyl-t-Butyl Ether	3.262	73	90130	5.22	ppb		97
26) trans-1,2-Dichloroethene	3.250	96	37103	5.00	ppb	#	81
28) 1,1-Diclethane	3.786	63	59428	4.83	ppb		94
29) Vinyl Acetate	3.908	86	7109	4.84	ppb	#	82
30) DIPE	3.938	45	104783	4.92	ppb		88
31) 2-Chloro-1,3-Butadiene	3.926	53	65768	4.92	ppb		89
32) ETBE	4.530	59	102859	4.84	ppb		93
33) 2,2-Dichloropropane	4.694	77	57020	4.88	ppb		85
34) cis-1,2-Dichloroethene	4.719	96	38343	4.85	ppb		86
35) 2-Butanone	4.780	43	7731m	4.61	ppb		
36) Propionitrile	4.865	54	11111	21.87	ppb		96

6/5/15

00180

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 13:52:06 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.139	130	21736	4.97	ppb		93
38) Methacrylonitrile	5.158	67	9179	4.74	ppb		99
39) Tetrahydrofuran	5.249	42	7187	6.34	ppb	#	62
40) Chloroform	5.322	83	64884	5.02	ppb		99
41) 1,1,1-Trichloroethane	5.597	97	58328	4.68	ppb		95
42) TAME	6.407	73	88705	4.79	ppb		92
44) Cyclohexane	5.676	41	32325	4.82	ppb		96
46) Carbontetrachloride	5.859	121	15848	4.92	ppb		98
47) 1,1-Dichloropropene	5.871	75	50498	4.96	ppb		91
49) Benzene	6.170	78	139137	4.74	ppb		97
50) 1,2-Dichloroethane	6.206	62	45235	4.81	ppb		94
51) Iso-Butyl Alcohol	6.212	43	18767	96.27	ppb		83
52) n-Heptane	6.639	43	29542	4.73	ppb		85
53) 1-Butanol	7.121	56	29459	237.95	ppb		83
54) Trichloroethene	7.084	130	38323	4.84	ppb		88
55) Methylcyclohexane	7.310	55	36947	4.98	ppb		97
56) 1,2-Diclpropane	7.352	63	31499	4.48	ppb		97
57) Dibromomethane	7.486	93	17823	4.71	ppb	#	78
58) 1,4-Dioxane	7.554	88	6062m	105.89	ppb		
59) Methyl Methacrylate	7.572	69	15960	4.58	ppb		84
60) Bromodichloromethane	7.718	83	50944	4.93	ppb		97
61) 2-Nitropropane	7.980	41	9996	7.57	ppb		92
62) 2-Chloroethylvinyl Ether	8.102	63	16958	5.23	ppb		91
63) cis-1,3-Dichloropropene	8.242	75	55801	4.73	ppb		91
64) 4-Methyl-2-pentanone	8.444	43	18877	4.72	ppb		92
66) Toluene	8.602	91	164702	4.89	ppb		96
67) trans-1,3-Dichloropropene	8.864	75	47313	4.69	ppb		94
68) Ethyl Methacrylate	8.998	69	31700	4.33	ppb		89
69) 1,1,2-Trichloroethane	9.047	97	27201	5.00	ppb		90
72) Tetrachloroethene	9.175	164	28244	4.43	ppb		95
73) 2-Hexanone	9.328	43	15720	5.58	ppb		92
74) 1,3-Dichloropropane	9.212	76	47594	5.21	ppb		93
75) Dibromochloromethane	9.431	129	31716	4.61	ppb		96
76) N-Butyl Acetate	9.480	43	35498	4.82	ppb		100
77) 1,2-Dibromoethane	9.529	107	26245	4.87	ppb		83
78) Chlorobenzene	10.016	112	109113	4.82	ppb		95
79) 3-CBTF	10.029	180	52708	4.94	ppb		86
80) 4-CBTF	10.084	180	47757	4.94	ppb		97
81) 1,1,1,2-Tetrachloroethane	10.102	131	35205	4.54	ppb		92
82) Ethylbenzene	10.132	106	59958	4.89	ppb		98
83) (m+p)Xylene	10.242	106	142439	9.54	ppb		93
84) o-Xylene	10.596	106	72406	5.01	ppb		95
85) Styrene	10.608	104	120796	4.87	ppb		98
87) Bromoform	10.760	173	19315	5.14	ppb		81
88) 2-CBTF	10.833	180	56643	5.32	ppb	#	84
89) Isopropylbenzene	10.925	105	164870	4.84	ppb		99
90) Cyclohexanone	10.992	55	20460	99.75	ppb		90
91) trans-1,4-Dichloro-2-B...	11.230	53	9324	5.08	ppb		89
92) 1,1,2,2-Tetrachloroethane	11.181	83	29935	4.82	ppb		83
93) Bromobenzene	11.169	156	42857	5.04	ppb		87
94) 1,2,3-Trichloropropane	11.211	110	9443	5.00	ppb		95

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 13:52:06 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

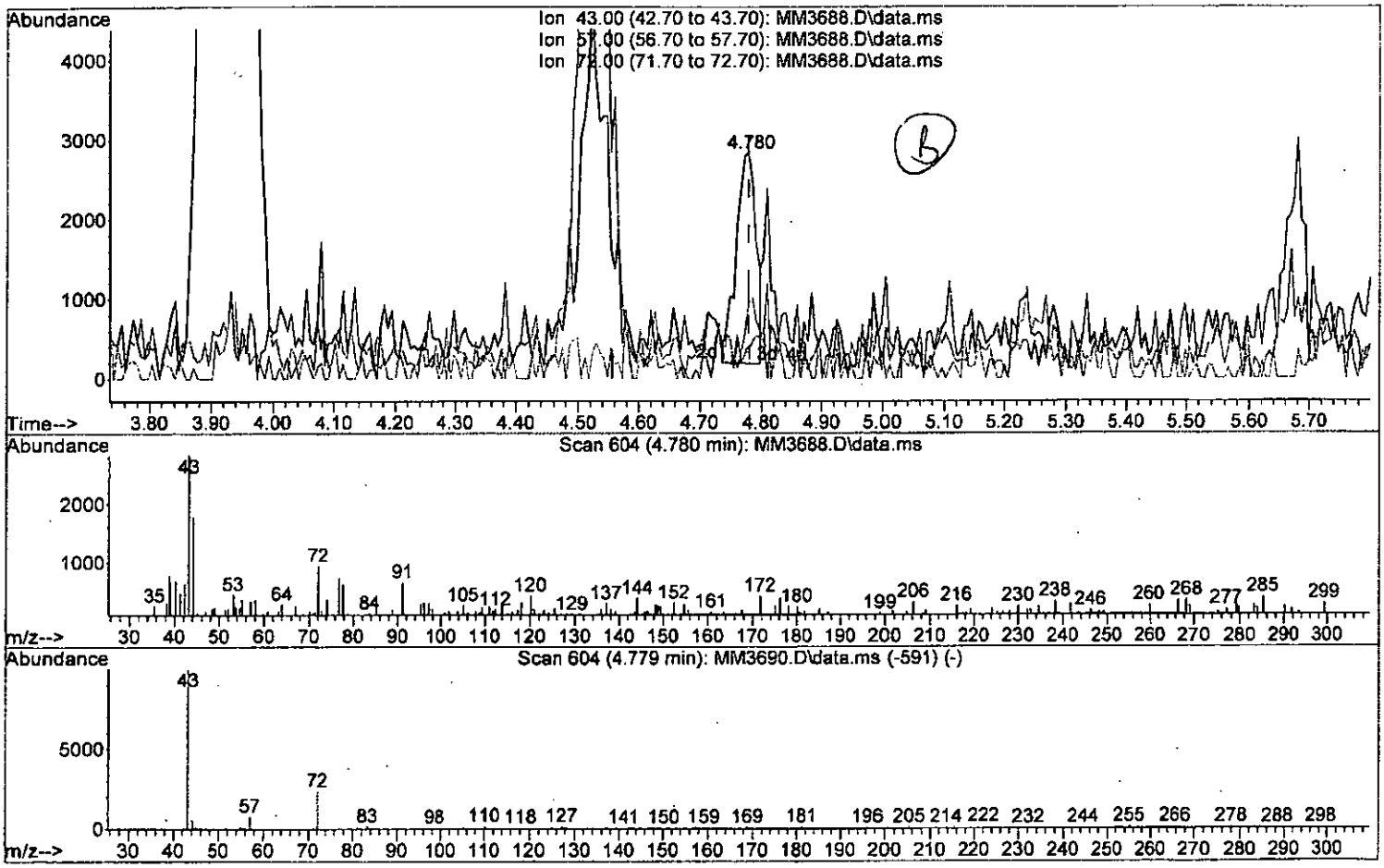
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.278	91	195116	5.09	ppb	97
96)	2-Chlorotoluene	11.339	91	117979	4.99	ppb	98
97)	3-Chlorotoluene	11.394	91	125168m	4.98	ppb	
98)	4-Chlorotoluene	11.431	91	146999	5.03	ppb	97
99)	1,3,5-Trimethylbenzene	11.431	105	144205	4.94	ppb	98
100)	tert-Butylbenzene	11.699	119	120497	5.12	ppb	92
101)	1,2,4-Trimethylbenzene	11.736	105	145275	4.93	ppb	96
102)	3,4-DCBTF	11.797	214	30923	4.43	ppb	93
103)	sec-Butylbenzene	11.882	105	156302	4.84	ppb	94
104)	p-Isopropyltoluene	12.004	119	140137	5.11	ppb	95
105)	1,3-Dclbenz	11.961	146	79189	4.79	ppb	96
106)	1,4-Dclbenz	12.034	146	84265	4.90	ppb	98
107)	2,4-DCBTF	12.089	214	30573	4.97	ppb	90
108)	2,5-DCBTF	12.132	214	34245	4.95	ppb	94
109)	n-Butylbenzene	12.333	91	121937	4.95	ppb	96
110)	1,2-Dclbenz	12.339	146	72784	4.71	ppb	93
111)	1,2-Dibromo-3-chloropr...	12.955	157	6253	4.98	ppb	98
112)	Trielution Dichlorotol...	13.077	125	195566	15.03	ppb	97
113)	1,3,5 Trichlorobenzene	13.126	180	48806	5.04	ppb	89
114)	Coelution Dichlorotoluene	13.400	125	137345	9.86	ppb	97
115)	1,2,4-Tcbenzene	13.613	180	43816	4.94	ppb	92
116)	Hexachlorobt	13.747	225	15564	4.56	ppb	93
117)	Naphthalen	13.802	128	88621	4.76	ppb	96
118)	1,2,3-Tclbenzene	13.985	180	36657	5.05	ppb	94
119)	2,4,5-Trichlorotolene	14.570	159	28406m	4.90	ppb	
120)	2,3,6-Trichlorotoluene	14.656	159	25201	5.05	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 08:47:47 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3688.D\data.ms

(35) 2-Butanone (P)

4.780min (+0.000) 3.53 ppb

response 5934

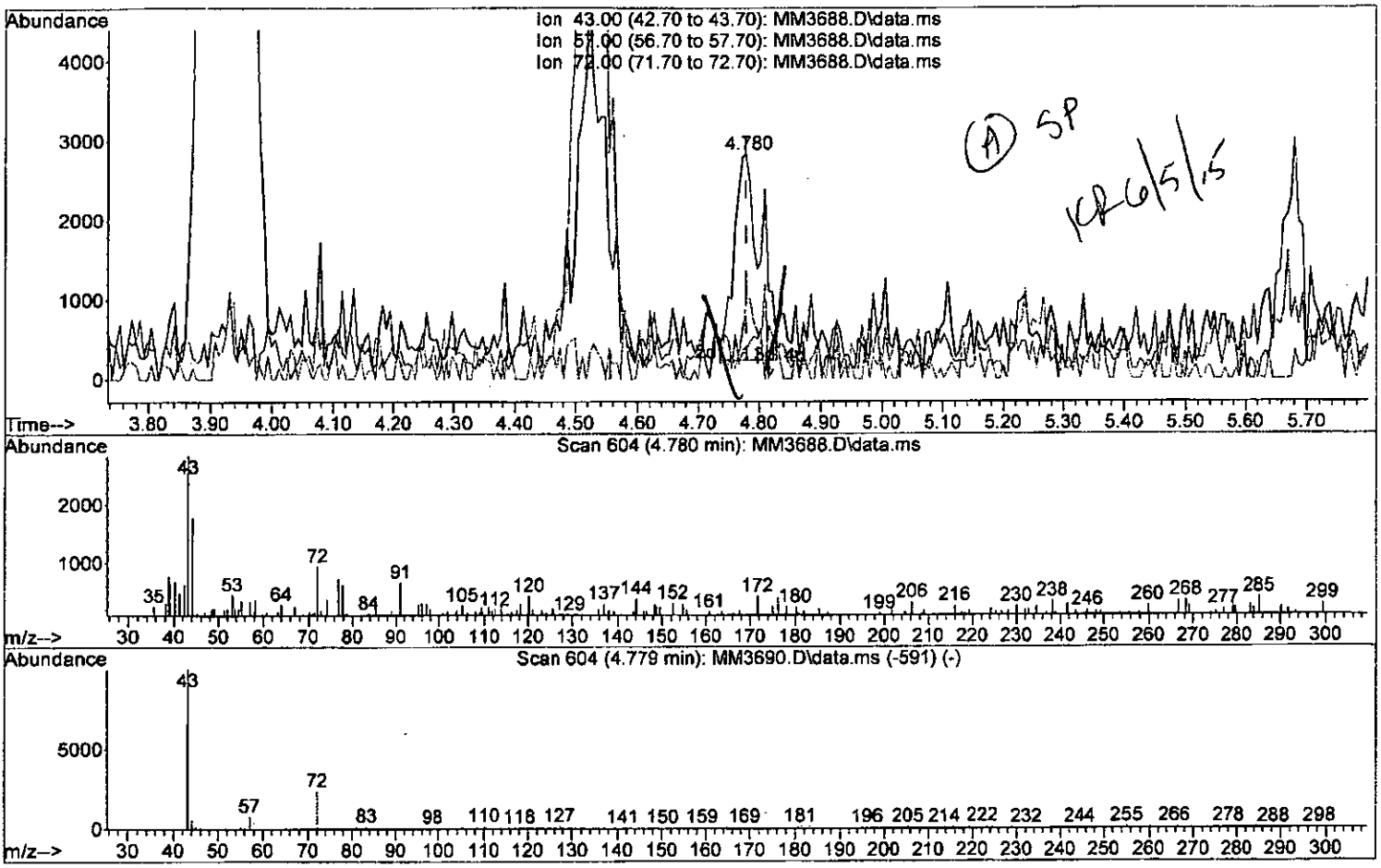
Ion	Exp%	Act%
43.00	100	100
57.00	8.30	11.87
72.00	28.90	33.17
0.00	0.00	0.00

00193

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 08:47:47 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3688.D\data.ms

(35) 2-Butanone (P)

4.780min (+0.000) 4.61 ppb m

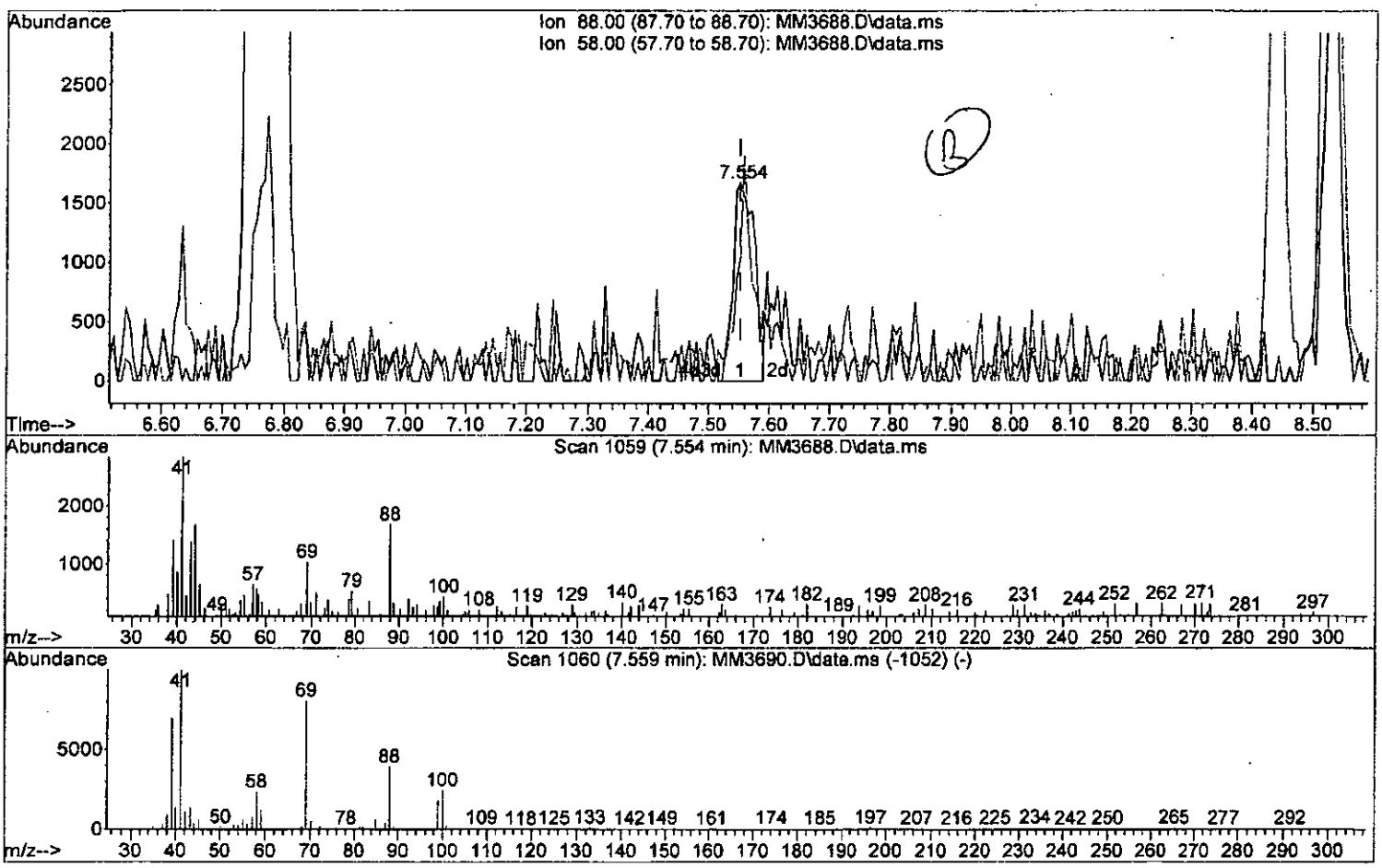
response 7731

Ion	Exp%	Act%
43.00	100	100
57.00	8.30	11.87
72.00	28.90	33.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 08:47:47 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3688.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.000) 71.99 ppb

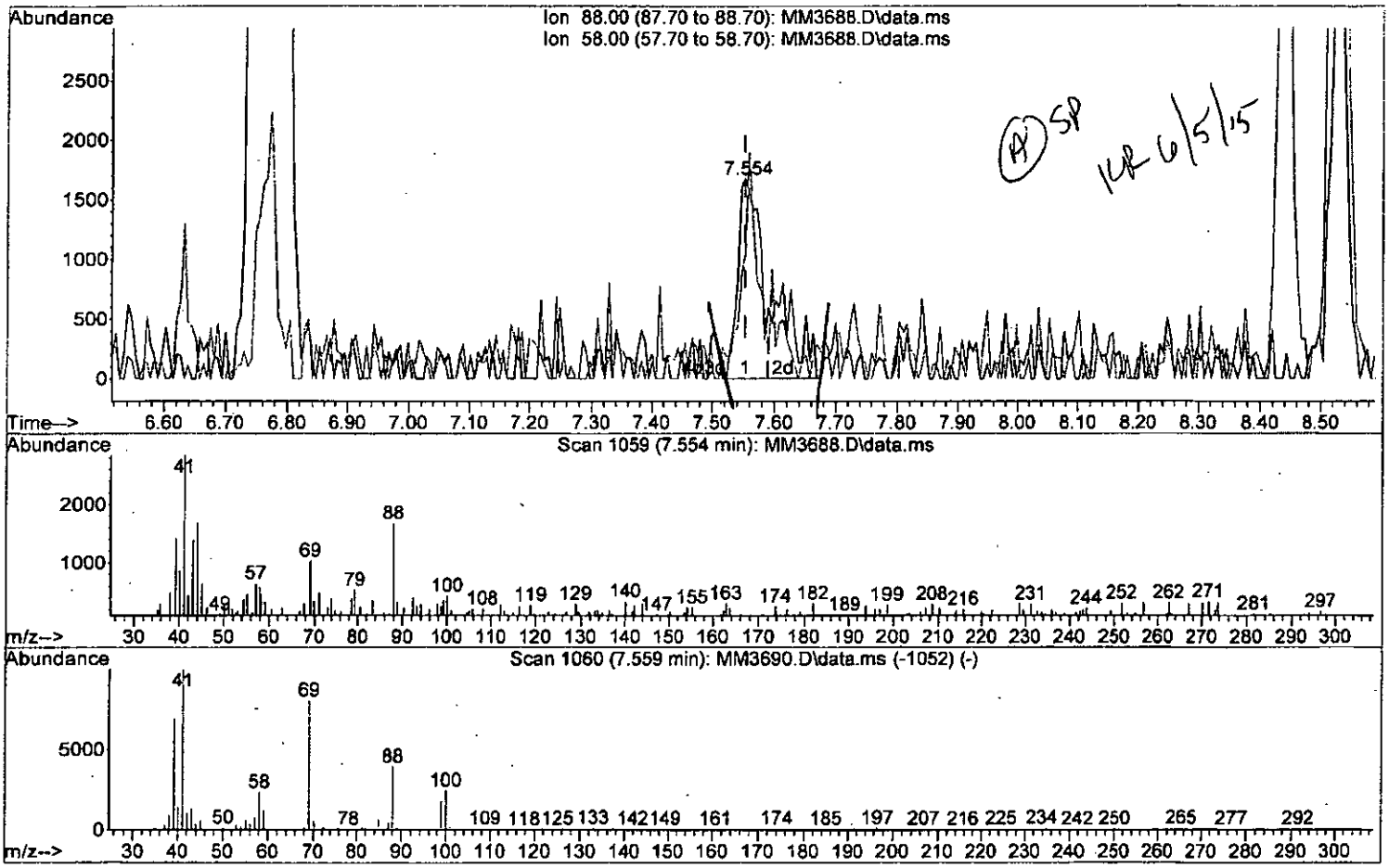
response 4121

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	62.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 08:47:47 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3688.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.000) 105.89 ppb m

response 6062

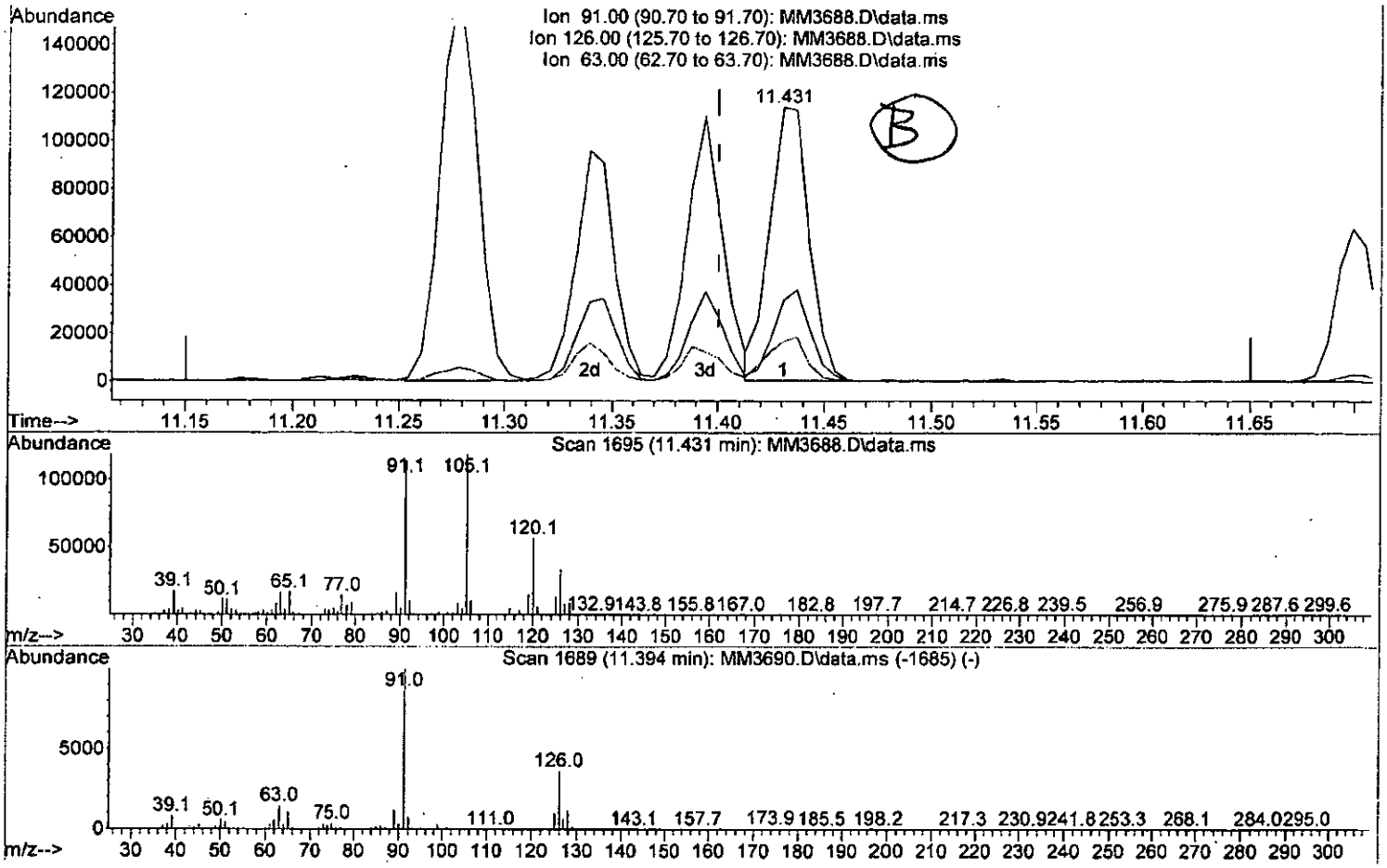
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	34.27#
0.00	0.00	0.00
0.00	0.00	0.00

00186

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3688.D\data.ms

(97) 3-Chlorotoluene

11.431min (+0.031) 5.82 ppb

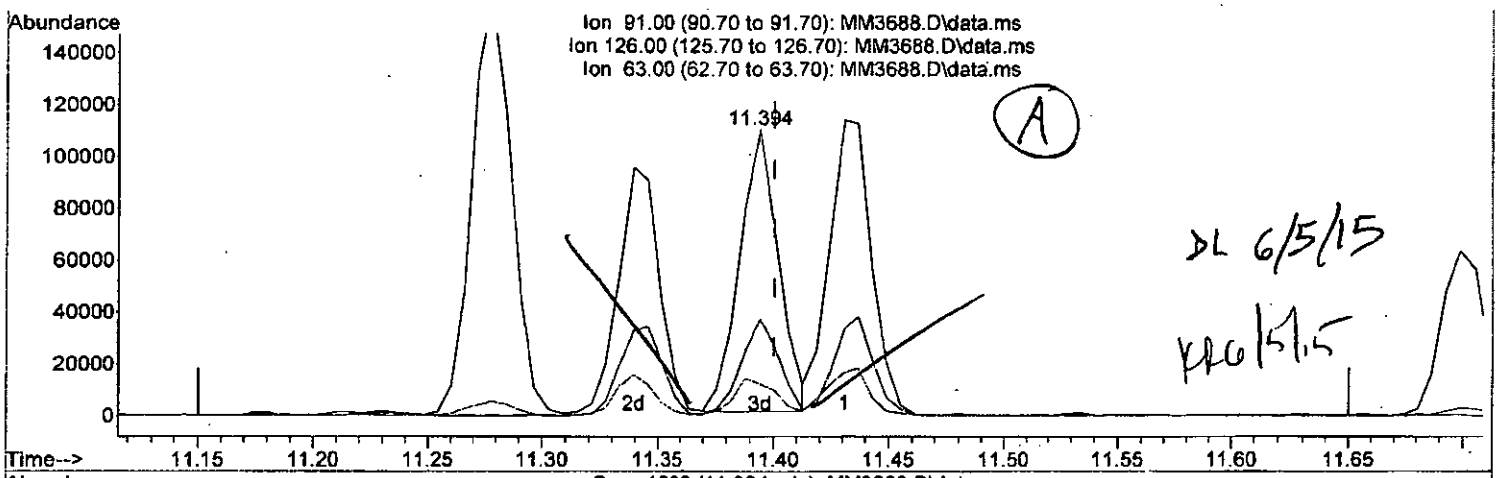
response 146332

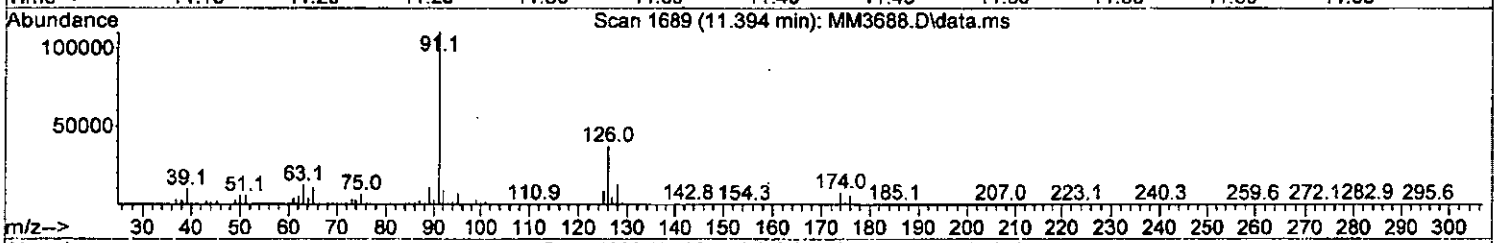
Ion	Exp%	Act%
91.00	100	100
126.00	36.30	29.46
63.00	14.60	14.62
0.00	0.00	0.00

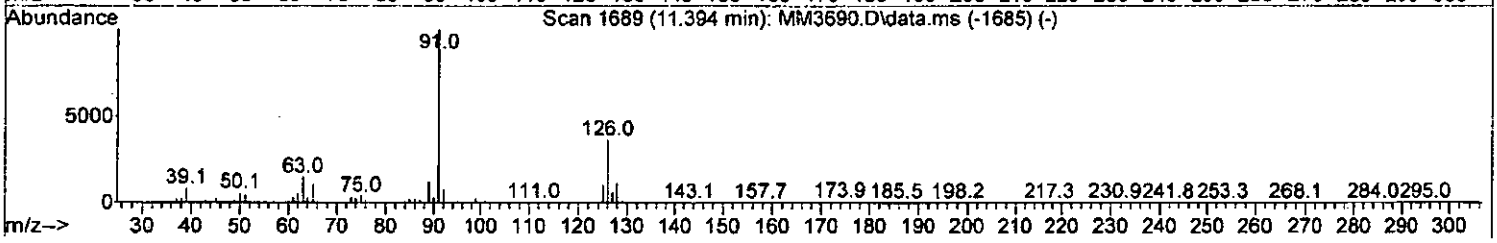
00187

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3688.D\data.ms

(97) 3-Chlorotoluene

11.394min (-0.006) 4.98 ppb m

response 125168

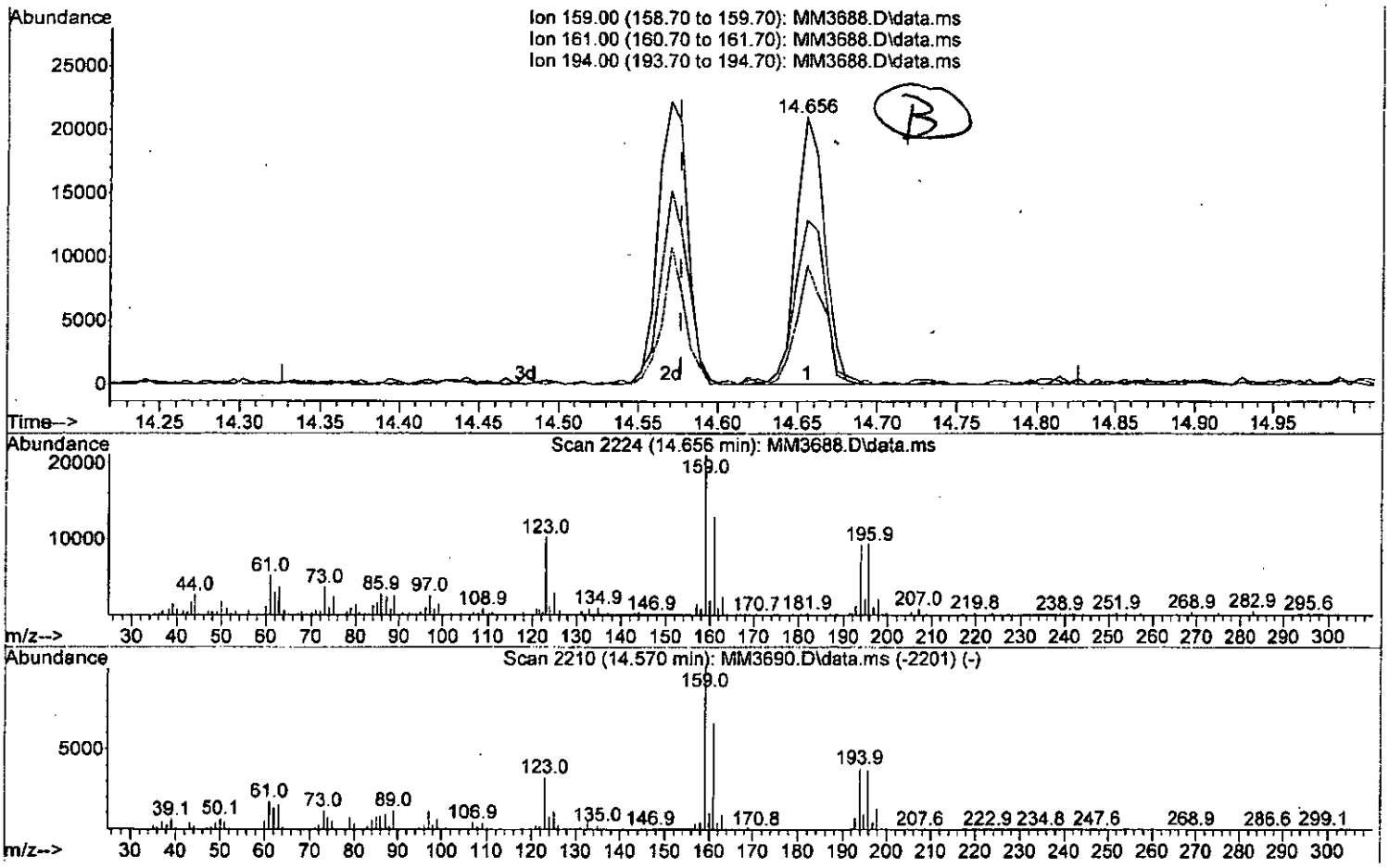
Ion	Exp%	Act%
91.00	100	100
126.00	36.30	33.81
63.00	14.60	11.17#
0.00	0.00	0.00

00188

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3688.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.079) 4.34 ppb

response 25201

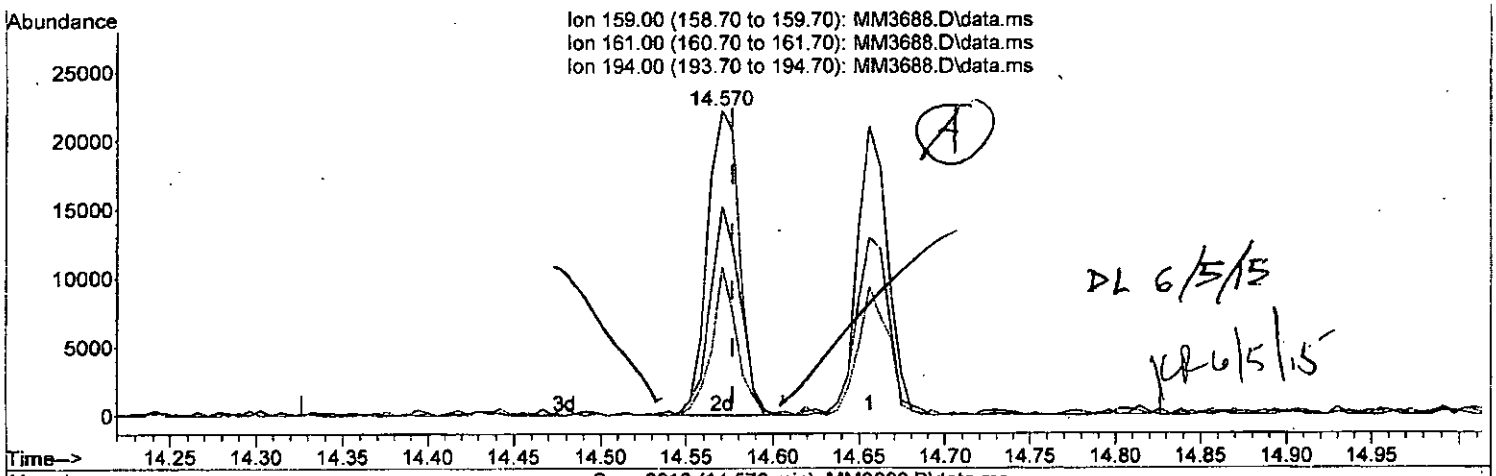
Ion	Exp%	Act%
159.00	100	100
161.00	66.50	61.41
194.00	38.20	44.39
0.00	0.00	0.00

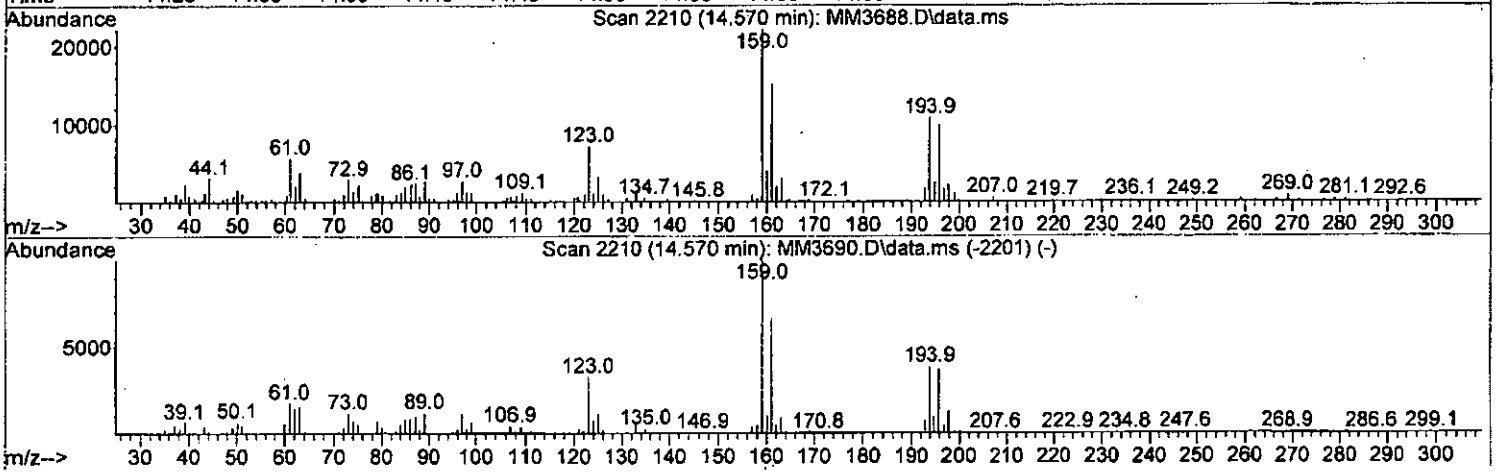
00189

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration





TIC: MM3688.D\data.ms

(119) 2,4,5-Trichlorotolene

14.570min (-0.006) 4.90 ppb m

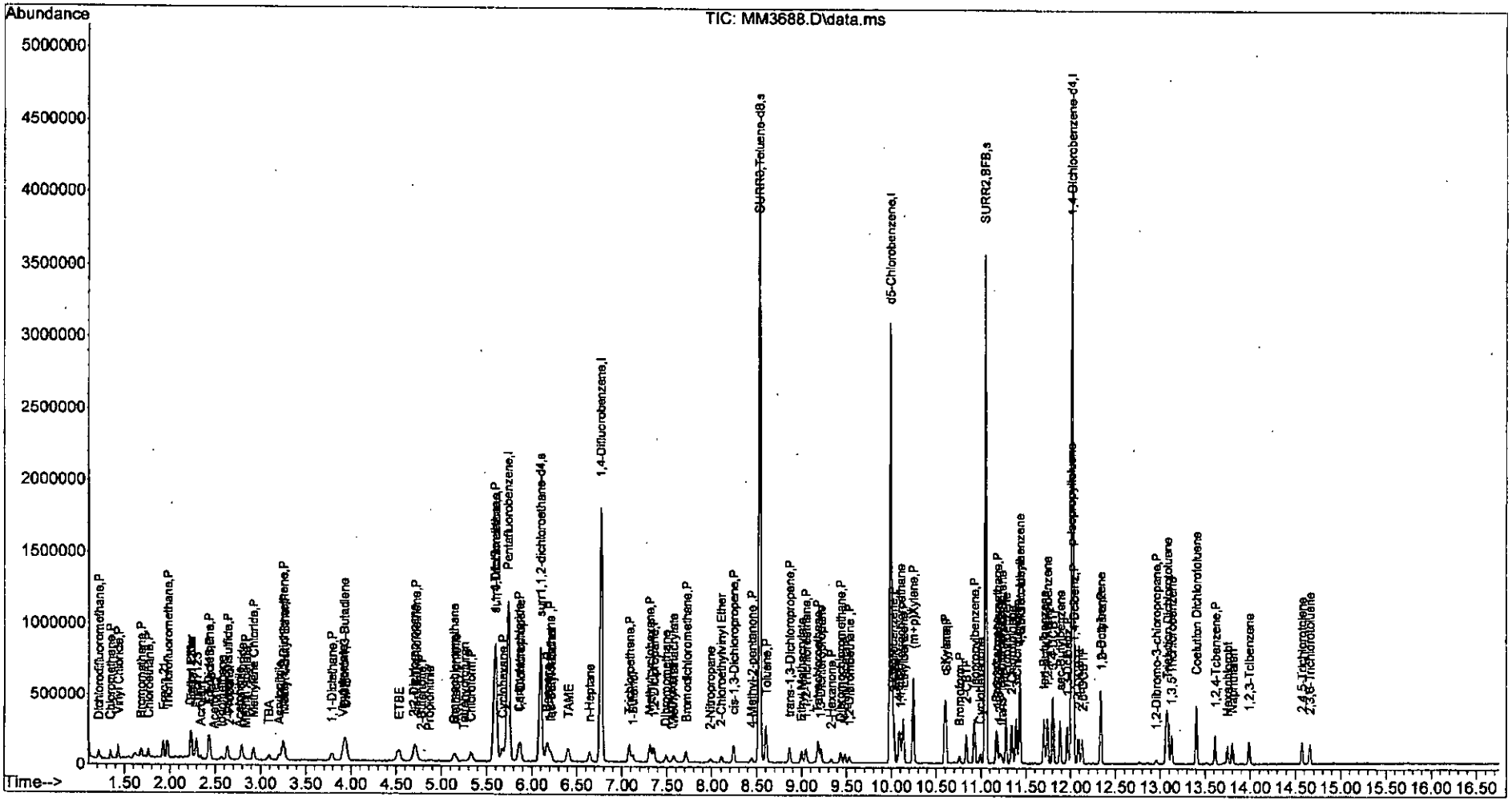
response 28406

Ion	Exp%	Act%
159.00	100	100
161.00	66.50	68.61
194.00	38.20	48.64#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 13:52:06 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



T6T08

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 09:23:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	929690	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1546739	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1435928	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	770648	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	792102	94.64	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 189.28%#				
48) surr1,1,2-dichloroetha...	6.096	65	868113	97.10	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 194.20%#				
65) SURR3,Toluene-d8	8.529	98	3531662	96.61	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 193.22%#				
70) SURR2,BFB	11.047	95	1346632	96.95	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 193.90%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	170796	21.19	ppb		94
3) Chloromethane	1.341	50	157364	20.40	ppb		99
4) Vinyl Chloride	1.427	62	201504	20.80	ppb		97
5) Bromomethane	1.683	94	105091	18.49	ppb		85
6) Chloroethane	1.762	64	132847	20.67	ppb		94
7) Freon 21	1.920	67	326092	20.23	ppb		100
8) Trichlorofluoromethane	1.975	101	297743	20.50	ppb		99
9) Diethyl Ether	2.225	59	125926	19.61	ppb		95
10) Freon 123a	2.231	67	204165	19.59	ppb		95
11) Freon 123	2.292	83	239995	20.05	ppb		99
12) Acrolein	2.335	56	70281	104.72	ppb		90
13) 1,1-Diclethene	2.426	96	135770	19.86	ppb		98
14) Freon 113	2.439	101	139561	20.62	ppb		95
15) Acetone	2.487	43	26215	20.33	ppb		98
16) 2-Propanol	2.652	45	104918	409.57	ppb		94
17) Iodomethane	2.573	142	146483	20.45	ppb		98
18) Carbon Disulfide	2.634	76	453758	20.79	ppb		98
19) Acetonitrile	2.756	40	16551m	97.14	ppb		
20) Allyl Chloride	2.792	76	88378	21.48	ppb	#	85
21) Methyl Acetate	2.829	43	54738	19.29	ppb		93
22) Methylene Chloride	2.920	84	144137	19.84	ppb		93
23) TBA	3.091	59	187585	406.35	ppb		98
24) Acrylonitrile	3.207	53	145259	97.45	ppb		94
25) Methyl-t-Butyl Ether	3.262	73	359709	20.25	ppb		94
26) trans-1,2-Dichloroethene	3.237	96	153486	20.09	ppb		95
28) 1,1-Diclethane	3.786	63	253102	20.00	ppb		95
29) Vinyl Acetate	3.896	86	30852	20.39	ppb	#	78
30) DIPE	3.944	45	426472	19.43	ppb		97
31) 2-Chloro-1,3-Butadiene	3.920	53	291286	21.18	ppb		96
32) ETBE	4.524	59	425811	19.47	ppb		98
33) 2,2-Dichloropropane	4.706	77	250850	20.86	ppb		98
34) cis-1,2-Dichloroethene	4.713	96	160290	19.68	ppb		100
35) 2-Butanone	4.774	43	36575	21.16	ppb		93
36) Propionitrile	4.871	54	53212	101.72	ppb		95

KP 6/5/15

00192

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 09:23:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.139	130	90043	20.00	ppb		93
38) Methacrylonitrile	5.158	67	38606m	19.37	ppb		
39) Tetrahydrofuran	5.243	42	23147	19.83	ppb		95
40) Chloroform	5.328	83	269461	20.26	ppb		100
41) 1,1,1-Trichloroethane	5.590	97	250680	19.52	ppb		96
42) TAME	6.407	73	375864	19.71	ppb		96
44) Cyclohexane	5.670	41	134782	19.23	ppb		87
46) Carbontetrachloride	5.859	121	68254	20.28	ppb		94
47) 1,1-Dichloropropene	5.871	75	206416	19.39	ppb		93
49) Benzene	6.170	78	625732	20.41	ppb		98
50) 1,2-Dichloroethane	6.212	62	192271	19.57	ppb		96
51) Iso-Butyl Alcohol	6.206	43	81609	400.80	ppb		85
52) n-Heptane	6.639	43	124398	19.05	ppb		98
53) 1-Butanol	7.121	56	126414	977.63	ppb		99
54) Trichloroethene	7.084	130	171162	20.68	ppb		92
55) Methylcyclohexane	7.310	55	158811	20.51	ppb		95
56) 1,2-Diclpropane	7.352	63	144909	19.74	ppb		94
57) Dibromomethane	7.493	93	75903	19.22	ppb		93
58) 1,4-Dioxane	7.553	88	24571	410.95	ppb		91
59) Methyl Methacrylate	7.578	69	73336	20.17	ppb		85
60) Bromodichloromethane	7.712	83	212979	19.73	ppb		97
61) 2-Nitropropane	7.986	41	55014	39.91	ppb		93
62) 2-Chloroethylvinyl Ether	8.108	63	70247	20.76	ppb		95
63) cis-1,3-Dichloropropene	8.242	75	245033	19.89	ppb		98
64) 4-Methyl-2-pentanone	8.437	43	85832	20.53	ppb		96
66) Toluene	8.602	91	718864	20.44	ppb		98
67) trans-1,3-Dichloropropene	8.864	75	212270	20.14	ppb		96
68) Ethyl Methacrylate	8.998	69	151688	19.83	ppb		95
69) 1,1,2-Trichloroethane	9.047	97	112646	19.83	ppb		91
72) Tetrachloroethene	9.181	164	137427	20.87	ppb		95
73) 2-Hexanone	9.328	43	61435	21.13	ppb		98
74) 1,3-Dichloropropane	9.212	76	193150	20.49	ppb		98
75) Dibromochloromethane	9.431	129	143065	20.15	ppb		94
76) N-Butyl Acetate	9.480	43	153359	20.15	ppb		97
77) 1,2-Dibromoethane	9.529	107	109971	19.75	ppb		99
78) Chlorobenzene	10.016	112	476362	20.38	ppb		98
79) 3-CBTF	10.029	180	221235	20.07	ppb		95
80) 4-CBTF	10.083	180	204043	20.44	ppb		97
81) 1,1,1,2-Tetrachloroethane	10.102	131	159351	19.91	ppb		97
82) Ethylbenzene	10.132	106	267443	21.14	ppb		93
83) (m+p)Xylene	10.242	106	634475	41.14	ppb		99
84) o-Xylene	10.596	106	308750	20.67	ppb		94
85) Styrene	10.608	104	519775	20.28	ppb		98
87) Bromoform	10.760	173	80842	20.49	ppb		96
88) 2-CBTF	10.833	180	219429	19.63	ppb		96
89) Isopropylbenzene	10.925	105	759256	21.22	ppb		100
90) Cyclohexanone	10.986	55	86617	402.41	ppb		90
91) trans-1,4-Dichloro-2-B...	11.230	53	37478	19.46	ppb		98
92) 1,1,2,2-Tetrachloroethane	11.181	83	133250	20.46	ppb		97
93) Bromobenzene	11.169	156	186908	20.95	ppb	#	81
94) 1,2,3-Trichloropropane	11.211	110	38966	19.67	ppb		95

00193

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 09:23:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

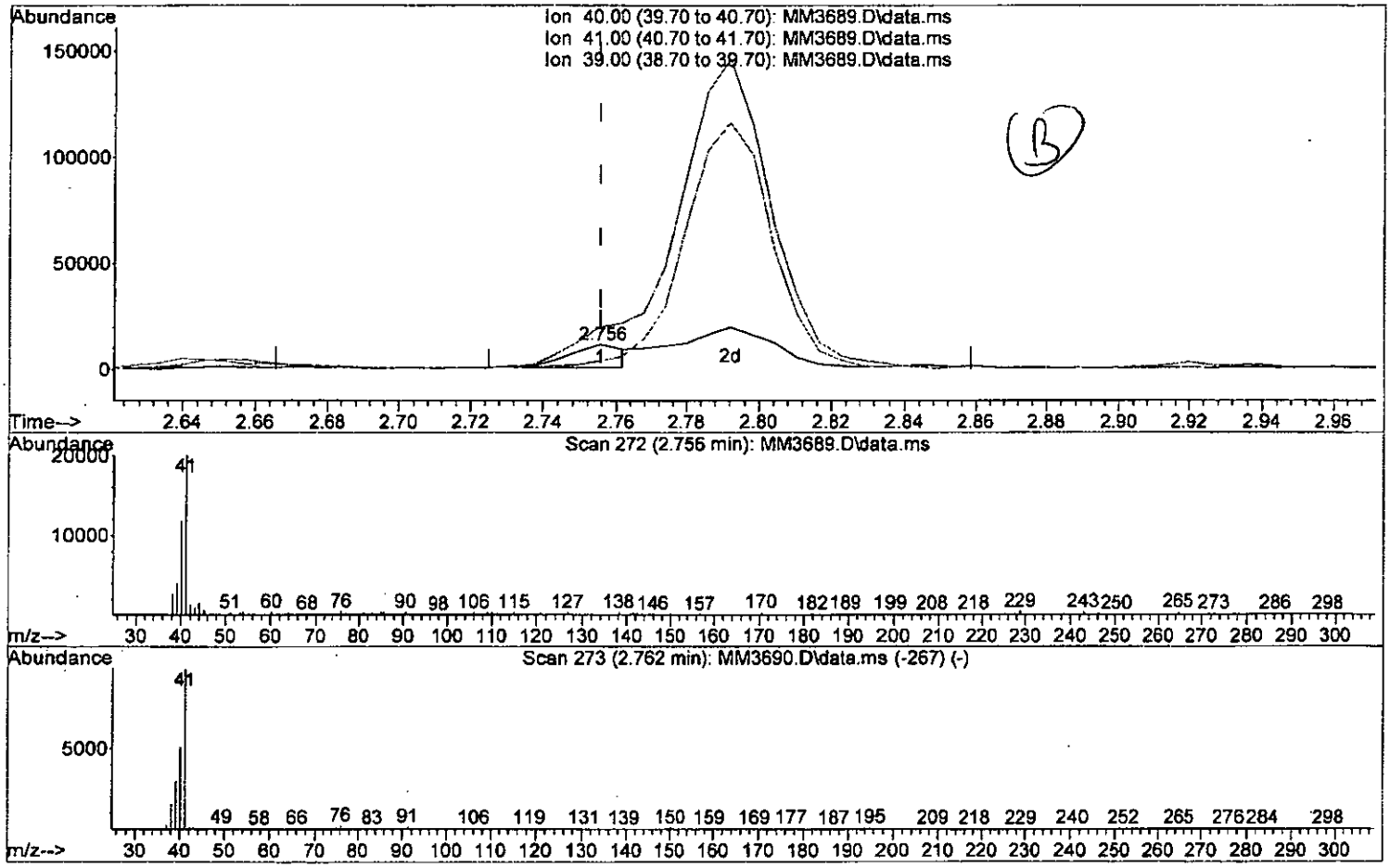
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.278	91	878649	21.82	ppb	98
96)	2-Chlorotoluene	11.339	91	528349	21.29	ppb	98
97)	3-Chlorotoluene	11.394	91	549104	20.82	ppb	98
98)	4-Chlorotoluene	11.437	91	642524	20.95	ppb	99
99)	1,3,5-Trimethylbenzene	11.431	105	650177	21.21	ppb	99
100)	tert-Butylbenzene	11.699	119	519096	21.02	ppb	98
101)	1,2,4-Trimethylbenzene	11.736	105	662783	21.42	ppb	95
102)	3,4-DCBTF	11.803	214	146340	19.99	ppb	94
103)	sec-Butylbenzene	11.882	105	714333	21.10	ppb	97
104)	p-Isopropyltoluene	12.004	119	629085	21.87	ppb	98
105)	1,3-Dclbenz	11.961	146	366251	21.12	ppb	94
106)	1,4-Dclbenz	12.040	146	376902	20.87	ppb	97
107)	2,4-DCBTF	12.089	214	135784	21.02	ppb	97
108)	2,5-DCBTF	12.126	214	148243	20.41	ppb	96
109)	n-Butylbenzene	12.333	91	543477	21.03	ppb	98
110)	1,2-Dclbenz	12.339	146	333376	20.57	ppb	96
111)	1,2-Dibromo-3-chloropr...	12.955	157	25320	19.21	ppb	89
112)	Trielution Dichlorotol...	13.077	125	849439	62.23	ppb	98
113)	1,3,5 Trichlorobenzene	13.132	180	219038	21.55	ppb	94
114)	Coelution Dichlorotoluene	13.400	125	610518	41.75	ppb	97
115)	1,2,4-Tcbenzene	13.613	180	187481	20.14	ppb	99
116)	Hexachlorobt	13.747	225	71751	20.02	ppb	93
117)	Naphthalen	13.802	128	398196	20.38	ppb	99
118)	1,2,3-Tclbenzene	13.985	180	157900	20.74	ppb	92
119)	2,4,5-Trichlorotolene	14.570	159	126925	20.85	ppb	93
120)	2,3,6-Trichlorotoluene	14.656	159	104855	20.04	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 08:47:52 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3689.D\data.ms

(19) Acetonitrile

2.756min (-0.000) 67.46 ppb

response 11494

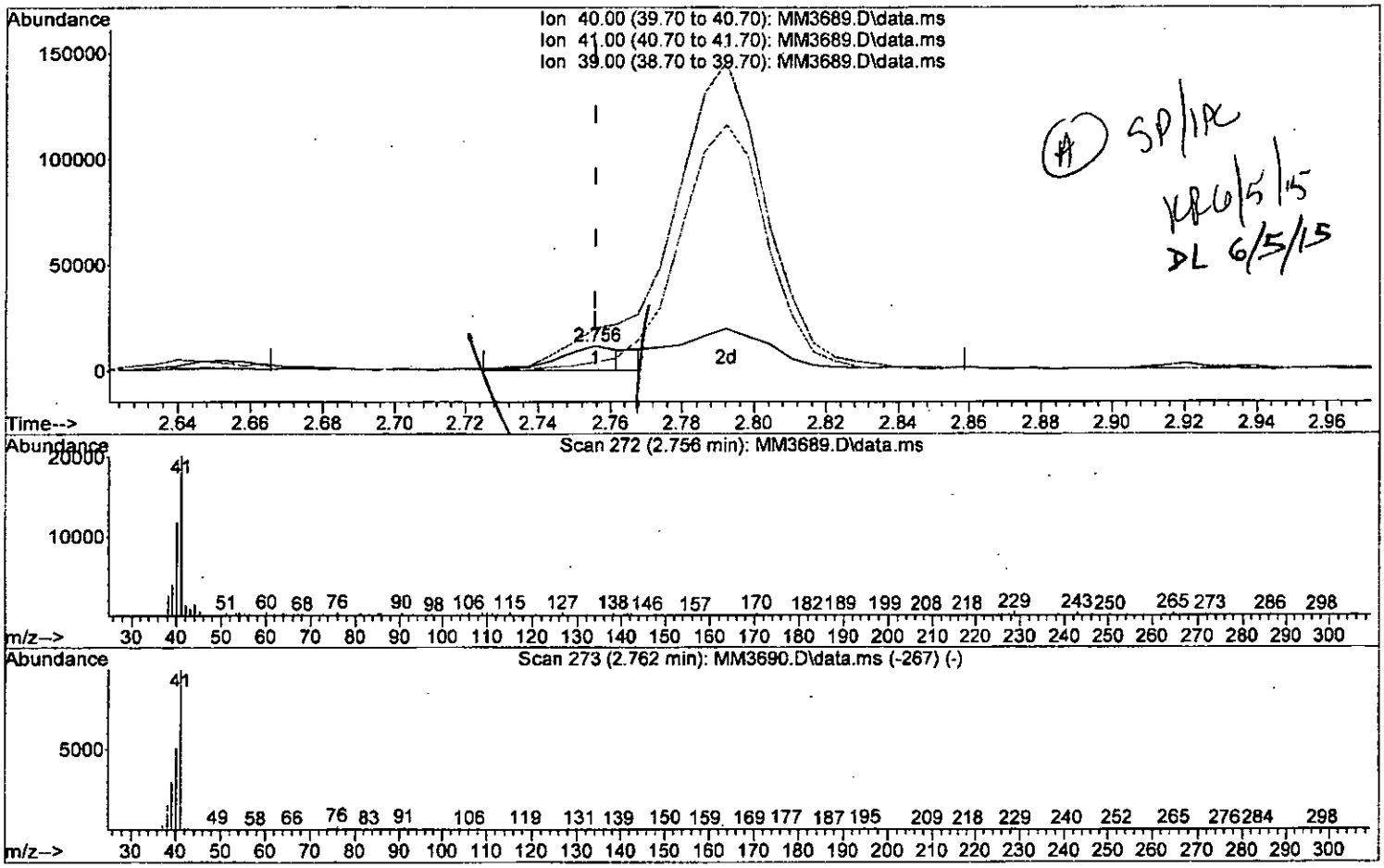
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	170.75#
39.00	58.40	34.18#
0.00	0.00	0.00

00195

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 08:47:52 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



SP/IPC KR 6/5/15 DL 6/5/15

TIC: MM3689.D\data.ms

(19) Acetonitrile

2.756min (-0.000) 97.14 ppb m

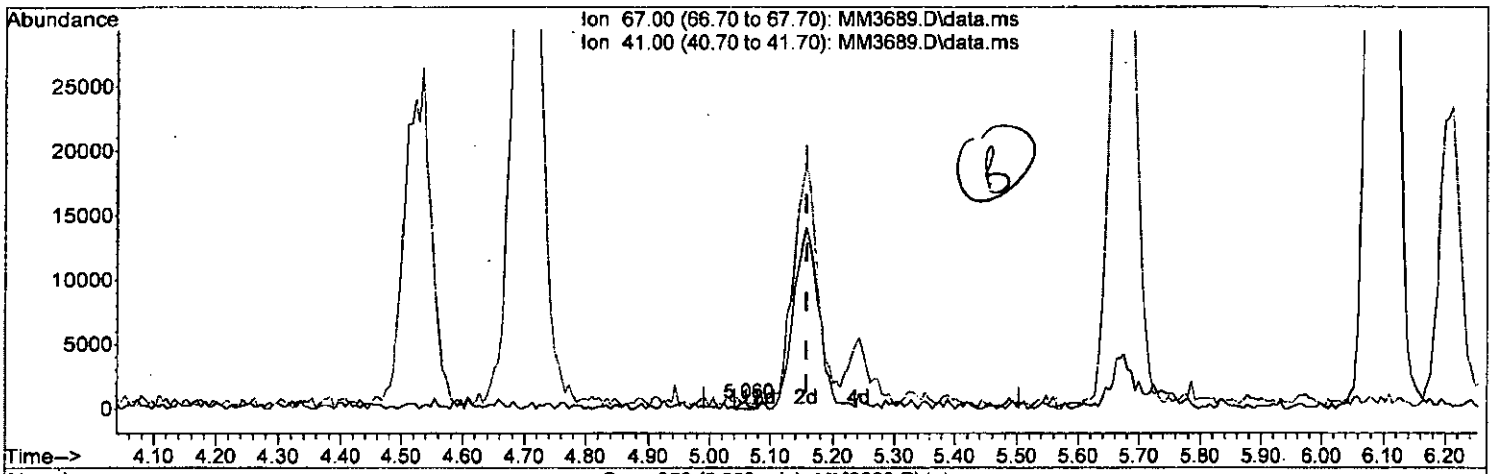
response 16551

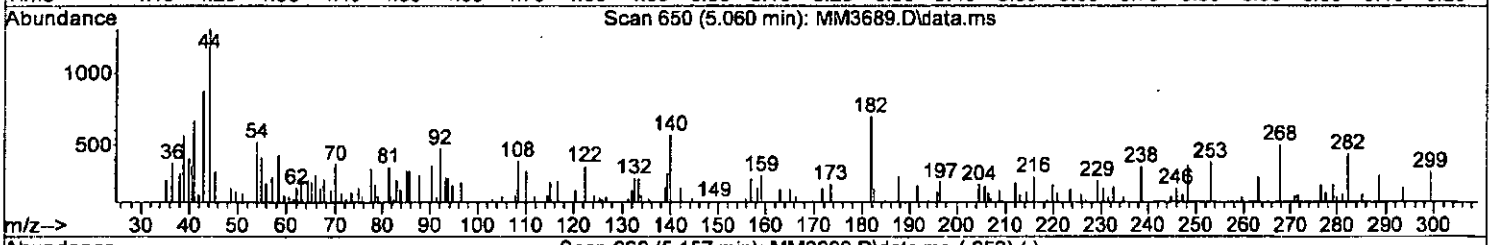
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	170.75#
39.00	58.40	34.18#
0.00	0.00	0.00

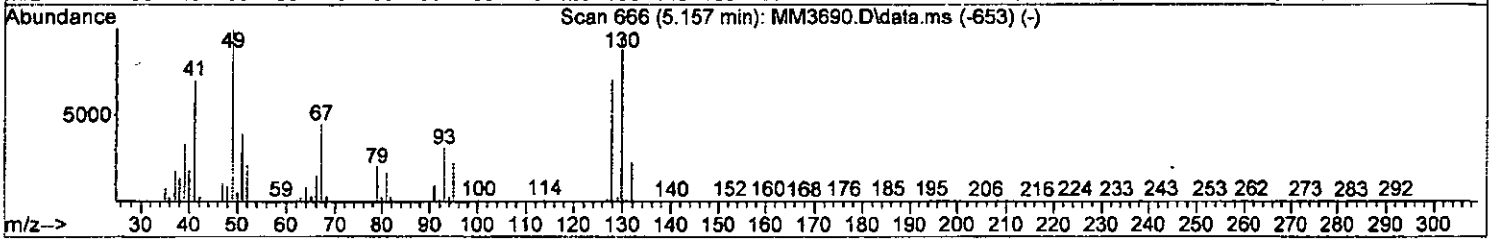
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 08:47:52 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3689.D\data.ms

(38) Methacrylonitrile

5.060min (-0.098) 0.26 ppb

response 510

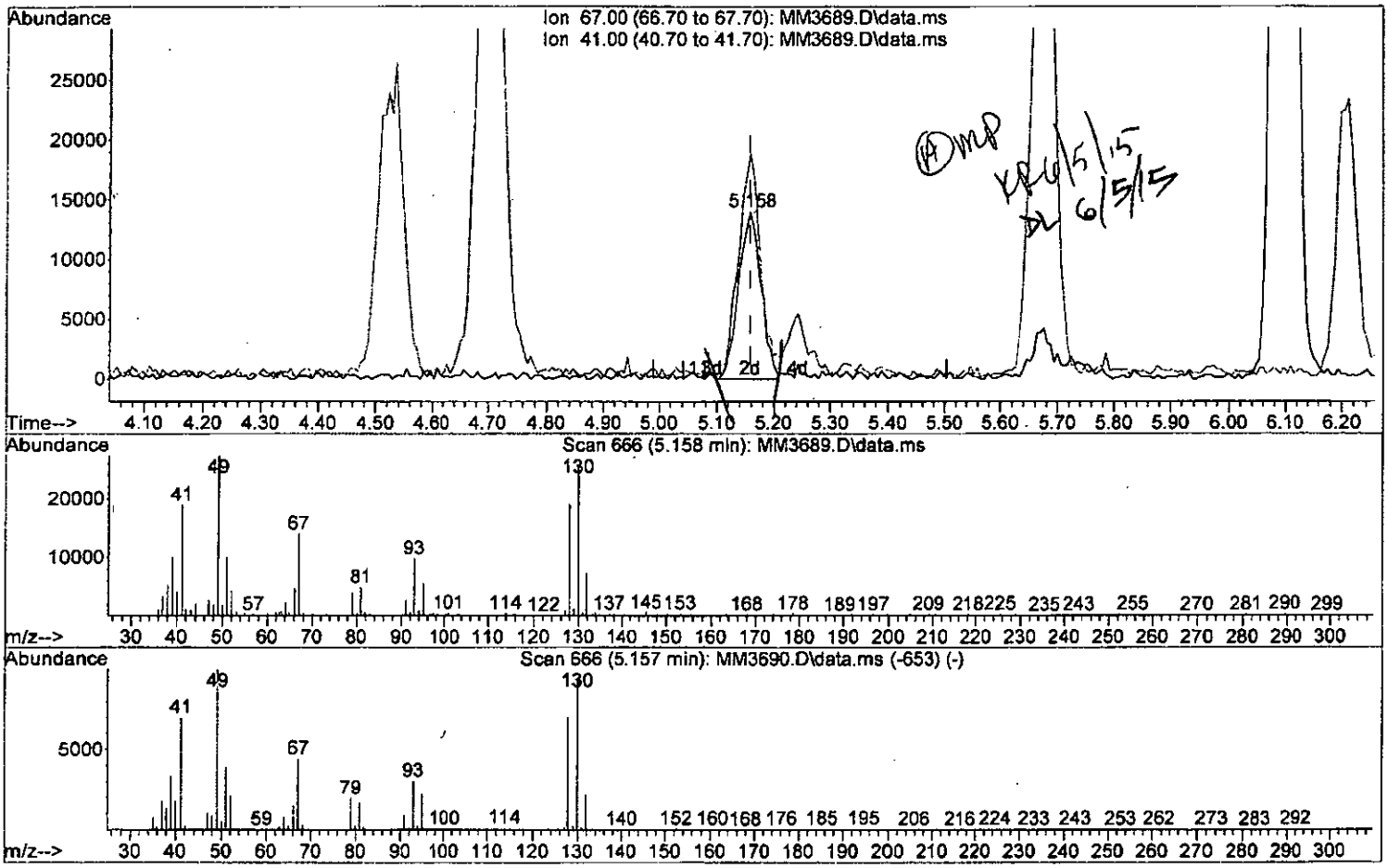
Ion	Exp%	Act%
67.00	100	100
41.00	159.00	147.88
0.00	0.00	0.00
0.00	0.00	0.00

00197

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 08:47:52 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3689.D\data.ms

(38) Methacrylonitrile

5.158min (-0.000) 19.37 ppb m

response 38606

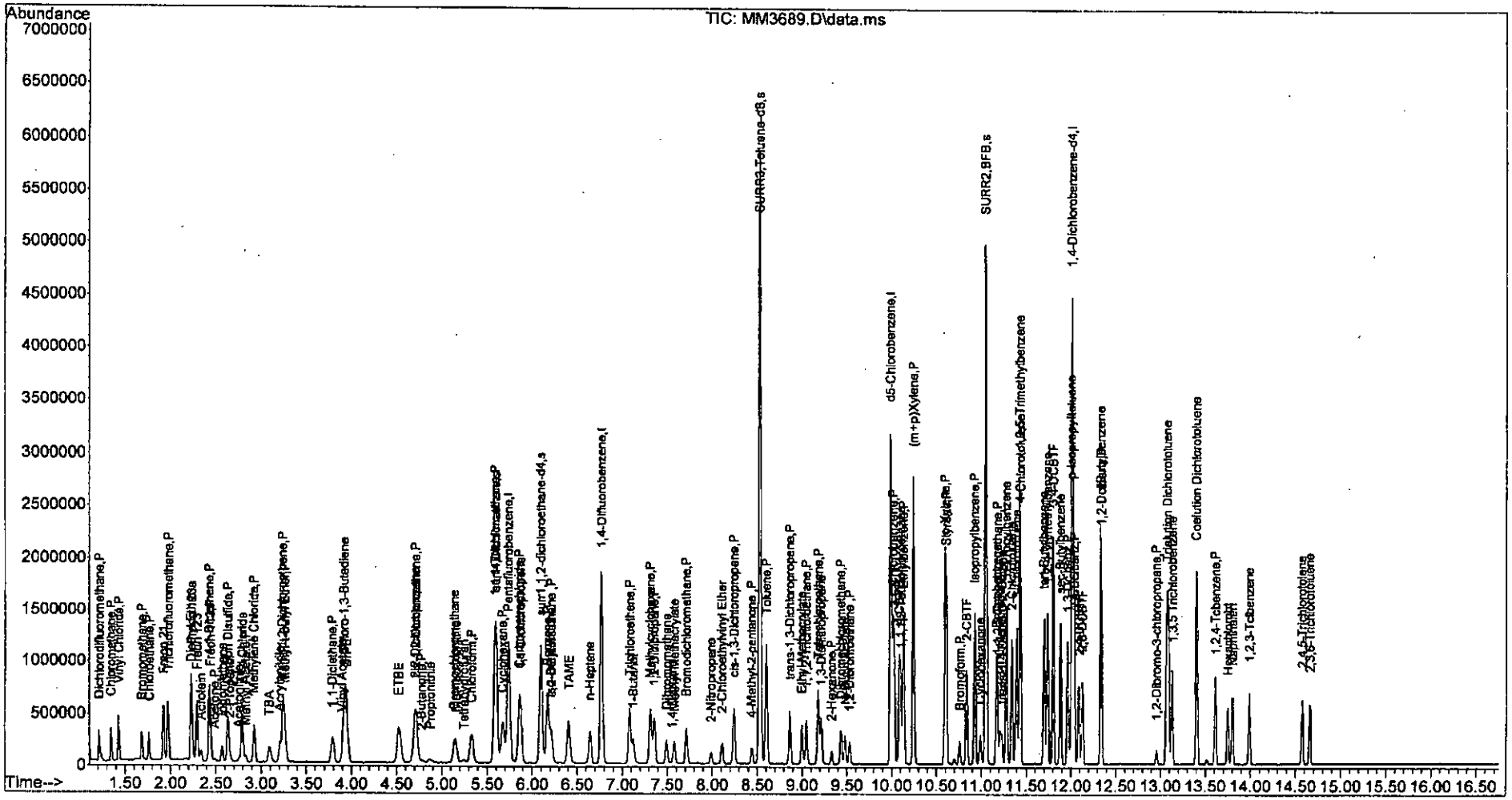
Ion	Exp%	Act%
67.00	100	100
41.00	159.00	134.94#
0.00	0.00	0.00
0.00	0.00	0.00

00198

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 09:23:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



6578

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3690.D
Acq On : 4 Jun 2015 3:12 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 09:25:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	943892	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1567087	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1461862	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	811080	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.596	113	459892	54.23	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.46%			
48) surr1,1,2-dichloroetha...	6.096	65	491843	54.30	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 108.60%			
65) SURR3,Toluene-d8	8.529	98	1991505	53.77	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.54%			
70) SURR2,BFB	11.053	95	779481	55.39	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	413334	50.50	ppb	100
3) Chloromethane	1.347	50	383152	48.92	ppb	100
4) Vinyl Chloride	1.427	62	490302	49.85	ppb	100
5) Bromomethane	1.683	94	263960	45.75	ppb	100
6) Chloroethane	1.762	64	315542	48.37	ppb	100
7) Freon 21	1.926	67	812622	49.65	ppb	100
8) Trichlorofluoromethane	1.975	101	735808	49.91	ppb	100
9) Diethyl Ether	2.231	59	322432	49.46	ppb	100
10) Freon 123a	2.237	67	506417	47.85	ppb	100
11) Freon 123	2.292	83	587699	48.36	ppb	100
12) Acrolein	2.341	56	183056	268.65	ppb	100
13) 1,1-Diclethene	2.426	96	330745	47.66	ppb	100
14) Freon 113	2.438	101	326548	47.52	ppb	100
15) Acetone	2.487	43	61189	46.73	ppb	100
16) 2-Propanol	2.652	45	272187	1046.55	ppb	100
17) Iodomethane	2.573	142	422778	58.14	ppb	100
18) Carbon Disulfide	2.634	76	1056091	47.65	ppb	100
19) Acetonitrile	2.762	40	39150	226.31	ppb	100
20) Allyl Chloride	2.792	76	205980	49.31	ppb	100
21) Methyl Acetate	2.829	43	145265	50.42	ppb	100
22) Methylene Chloride	2.926	84	357779	48.50	ppb	100
23) TBA	3.091	59	505412	1078.35	ppb	100
24) Acrylonitrile	3.207	53	376667	248.90	ppb	100
25) Methyl-t-Butyl Ether	3.262	73	929581	51.54	ppb	100
26) trans-1,2-Dichloroethene	3.243	96	372428	48.01	ppb	100
28) 1,1-Diclethane	3.792	63	617755	48.08	ppb	100
29) Vinyl Acetate	3.902	86	75302	49.01	ppb	100
30) DIPE	3.944	45	1079563	48.46	ppb	100
31) 2-Chloro-1,3-Butadiene	3.926	53	678082	48.57	ppb	100
32) ETBE	4.530	59	1082125	48.73	ppb	100
33) 2,2-Dichloropropane	4.706	77	613731	50.27	ppb	100
34) cis-1,2-Dichloroethene	4.719	96	405250	49.01	ppb	100
35) 2-Butanone	4.779	43	91600	52.20	ppb	100
36) Propionitrile	4.865	54	141700	266.79	ppb	100

KR 6/5/15

00200

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3690.D
Acq On : 4 Jun 2015 3:12 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 09:25:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.145	130	225483	49.33	ppb	100
38) Methacrylonitrile	5.157	67	95180	47.04	ppb	100
39) Tetrahydrofuran	5.243	42	55302	46.66	ppb	100
40) Chloroform	5.328	83	643141	47.62	ppb	100
41) 1,1,1-Trichloroethane	5.596	97	618476	47.44	ppb	100
42) TAME	6.407	73	972099	50.20	ppb	100
44) Cyclohexane	5.676	41	342453	48.23	ppb	100
46) Carbontetrachloride	5.859	121	164314	48.18	ppb	100
47) 1,1-Dichloropropene	5.871	75	508175	47.12	ppb	100
49) Benzene	6.176	78	1502364	48.38	ppb	100
50) 1,2-Dichloroethane	6.212	62	475427	47.75	ppb	100
51) Iso-Butyl Alcohol	6.206	43	202548	981.84	ppb	100
52) n-Heptane	6.645	43	320944	48.52	ppb	100
53) 1-Butanol	7.121	56	338594	2584.54	ppb	100
54) Trichloroethene	7.084	130	412166	49.16	ppb	100
55) Methylcyclohexane	7.309	55	392999	50.11	ppb	100
56) 1,2-Diclpropane	7.358	63	361759	48.64	ppb	100
57) Dibromomethane	7.492	93	190839	47.69	ppb	100
58) 1,4-Dioxane	7.559	88	54275m	895.95	ppb	
59) Methyl Methacrylate	7.578	69	184592	50.10	ppb	100
60) Bromodichloromethane	7.712	83	514975	47.10	ppb	100
61) 2-Nitropropane	7.986	41	143287	102.60	ppb	100
62) 2-Chloroethylvinyl Ether	8.108	63	180129	52.54	ppb	100
63) cis-1,3-Dichloropropene	8.242	75	615517	49.32	ppb	100
64) 4-Methyl-2-pentanone	8.443	43	221960	52.41	ppb	100
66) Toluene	8.602	91	1751509	49.16	ppb	100
67) trans-1,3-Dichloropropene	8.864	75	538772	50.45	ppb	100
68) Ethyl Methacrylate	8.998	69	393442	50.76	ppb	100
69) 1,1,2-Trichloroethane	9.047	97	278943	48.47	ppb	100
72) Tetrachloroethene	9.181	164	310309	46.28	ppb	100
73) 2-Hexanone	9.327	43	158048	53.40	ppb	100
74) 1,3-Dichloropropane	9.212	76	504246	52.53	ppb	100
75) Dibromochloromethane	9.437	129	366279	50.68	ppb	100
76) N-Butyl Acetate	9.480	43	402645	51.96	ppb	100
77) 1,2-Dibromoethane	9.529	107	285034	50.28	ppb	100
78) Chlorobenzene	10.016	112	1179306	49.56	ppb	100
79) 3-CBTF	10.035	180	540467	48.17	ppb	100
80) 4-CBTF	10.083	180	486390	47.86	ppb	100
81) 1,1,1,2-Tetrachloroethane	10.102	131	393979	48.35	ppb	100
82) Ethylbenzene	10.132	106	635496	49.33	ppb	100
83) (m+p)Xylene	10.242	106	1583296	100.84	ppb	100
84) o-Xylene	10.595	106	763796	50.24	ppb	100
85) Styrene	10.608	104	1313363	50.33	ppb	100
87) Bromoform	10.760	173	210485	50.69	ppb	100
88) 2-CBTF	10.833	180	527159	44.81	ppb	100
89) Isopropylbenzene	10.925	105	1840082	48.87	ppb	100
90) Cyclohexanone	10.986	55	236720	1044.96	ppb	100
91) trans-1,4-Dichloro-2-B...	11.229	53	101128	49.90	ppb	100
92) 1,1,2,2-Tetrachloroethane	11.181	83	337636	49.26	ppb	100
93) Bromobenzene	11.175	156	458732	48.86	ppb	100
94) 1,2,3-Trichloropropane	11.211	110	99995	47.95	ppb	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3690.D
Acq On : 4 Jun 2015 3:12 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 09:25:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

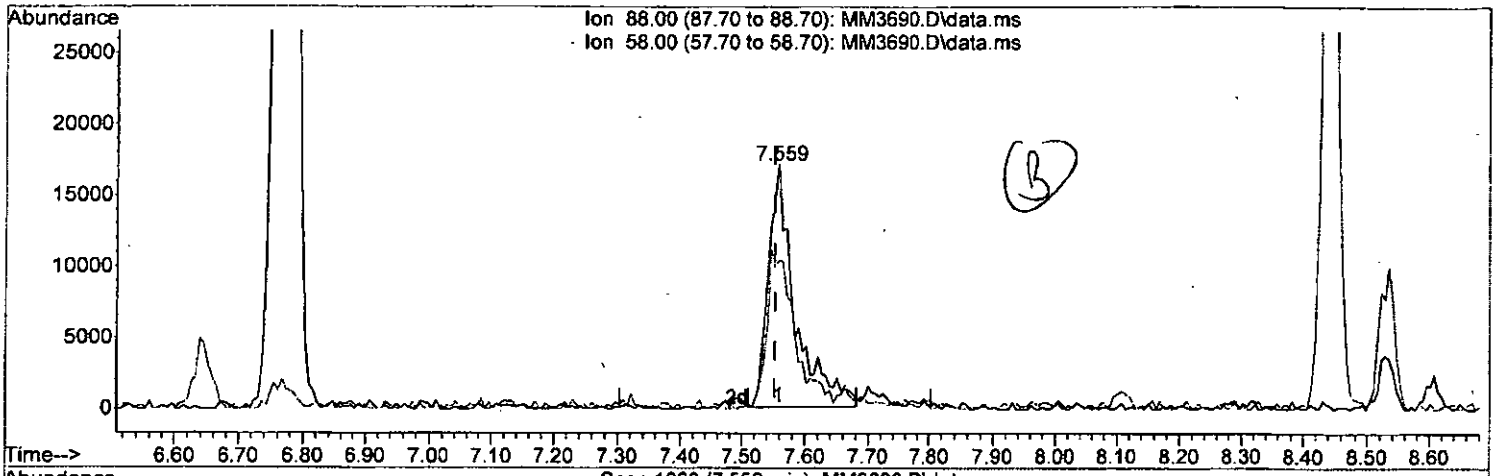
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.278	91	2128811	50.23	ppb	100
96)	2-Chlorotoluene	11.345	91	1302331	49.87	ppb	100
97)	3-Chlorotoluene	11.394	91	1304033	46.99	ppb	100
98)	4-Chlorotoluene	11.437	91	1621125	50.21	ppb	100
99)	1,3,5-Trimethylbenzene	11.431	105	1603044	49.70	ppb	100
100)	tert-Butylbenzene	11.705	119	1261761	48.54	ppb	100
101)	1,2,4-Trimethylbenzene	11.742	105	1609282	49.41	ppb	100
102)	3,4-DCBTF	11.803	214	359385	46.66	ppb	100
103)	sec-Butylbenzene	11.882	105	1760005	49.39	ppb	100
104)	p-Isopropyltoluene	12.004	119	1523221	50.32	ppb	100
105)	1,3-Dclbenz	11.961	146	890627	48.80	ppb	100
106)	1,4-Dclbenz	12.040	146	922742	48.54	ppb	100
107)	2,4-DCBTF	12.089	214	317685	46.73	ppb	100
108)	2,5-DCBTF	12.132	214	363400	47.55	ppb	100
109)	n-Butylbenzene	12.333	91	1344390	49.42	ppb	100
110)	1,2-Dclbenz	12.339	146	841436	49.32	ppb	100
111)	1,2-Dibromo-3-chloropr...	12.955	157	69447	50.06	ppb	100
112)	Trielution Dichlorotol...	13.077	125	2038800	141.91	ppb	100
113)	1,3,5 Trichlorobenzene	13.132	180	515207	48.15	ppb	100
114)	Coelution Dichlorotoluene	13.406	125	1471540	95.61	ppb	100
115)	1,2,4-Tcbenzene	13.613	180	484695	49.47	ppb	100
116)	Hexachlorobt	13.747	225	176281	46.73	ppb	100
117)	Naphthalen	13.802	128	1059250	51.51	ppb	100
118)	1,2,3-Tclbenzene	13.991	180	405943	50.67	ppb	100
119)	2,4,5-Trichlorotolene	14.570	159	298172	46.54	ppb	100
120)	2,3,6-Trichlorotoluene	14.656	159	268404	48.73	ppb	100

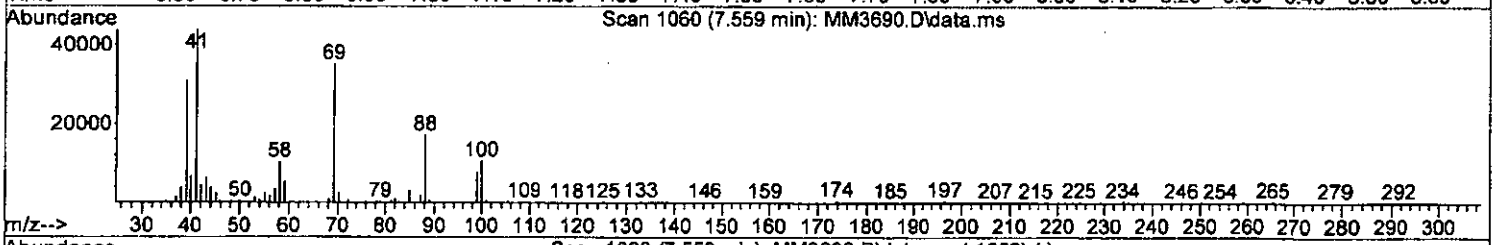
(#) = qualifier out of range (m) = manual integration (+) = signals summed

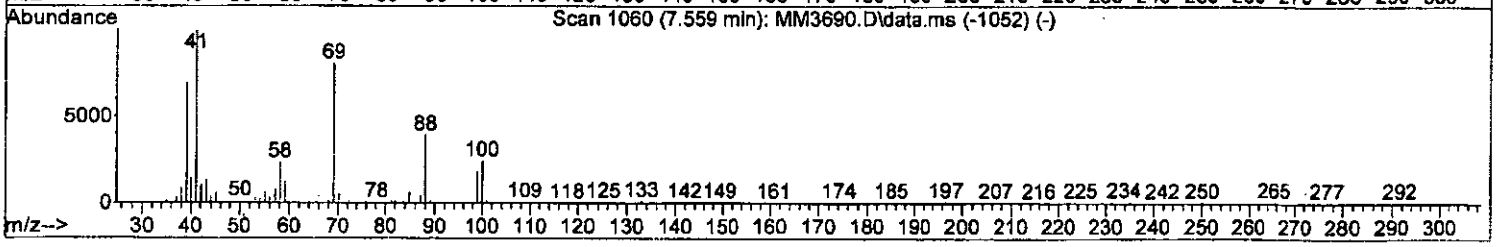
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3690.D
Acq On : 4 Jun 2015 3:12 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 08:47:57 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3690.D\data.ms

(58) 1,4-Dioxane

7.559min (+0.006) 814.87 ppb

response 49363

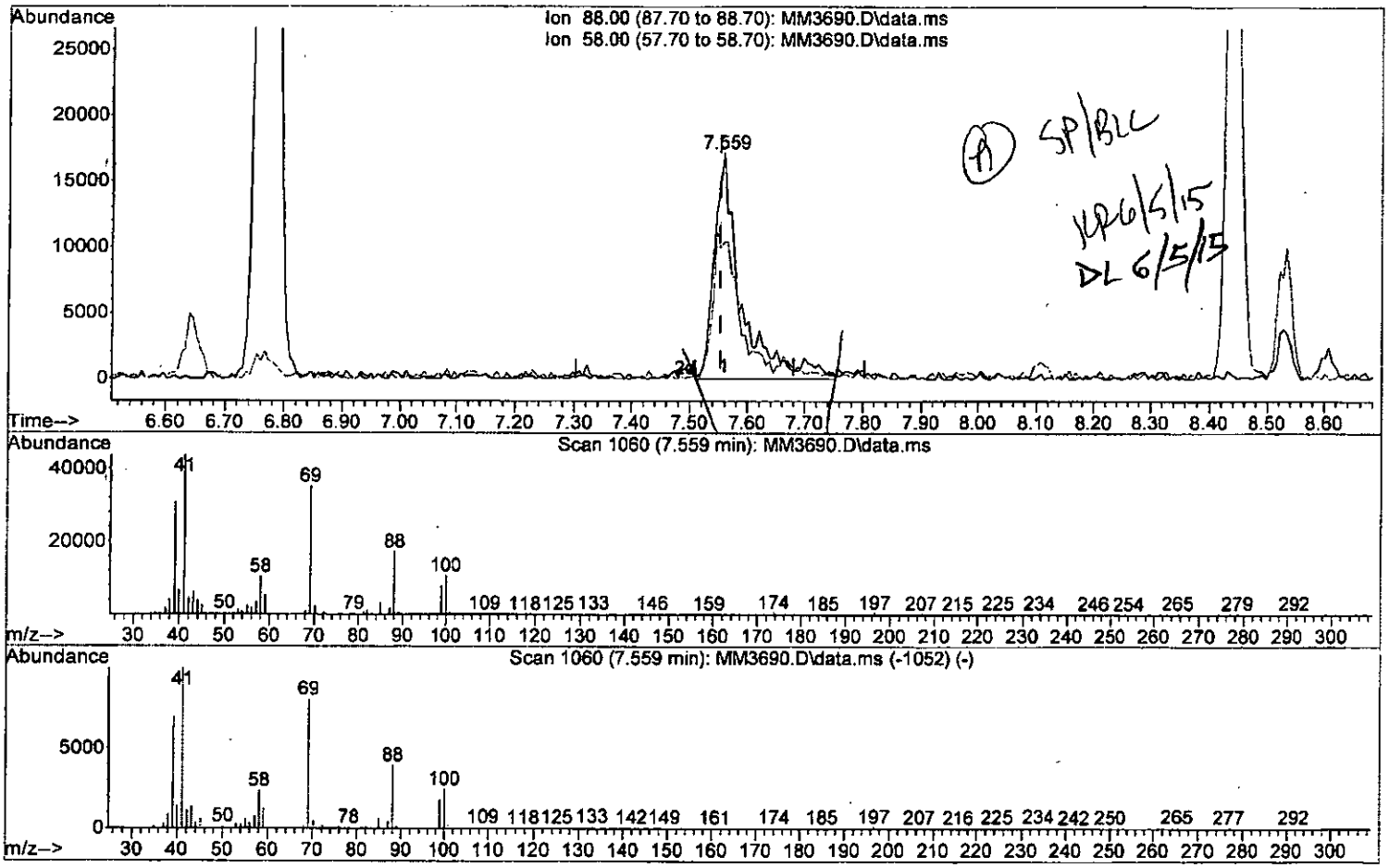
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	60.72
0.00	0.00	0.00
0.00	0.00	0.00

00203

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3690.D
Acq On : 4 Jun 2015 3:12 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 08:47:57 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3690.D\data.ms

(58) 1,4-Dioxane

7.559min (+0.006) 895.95 ppb m

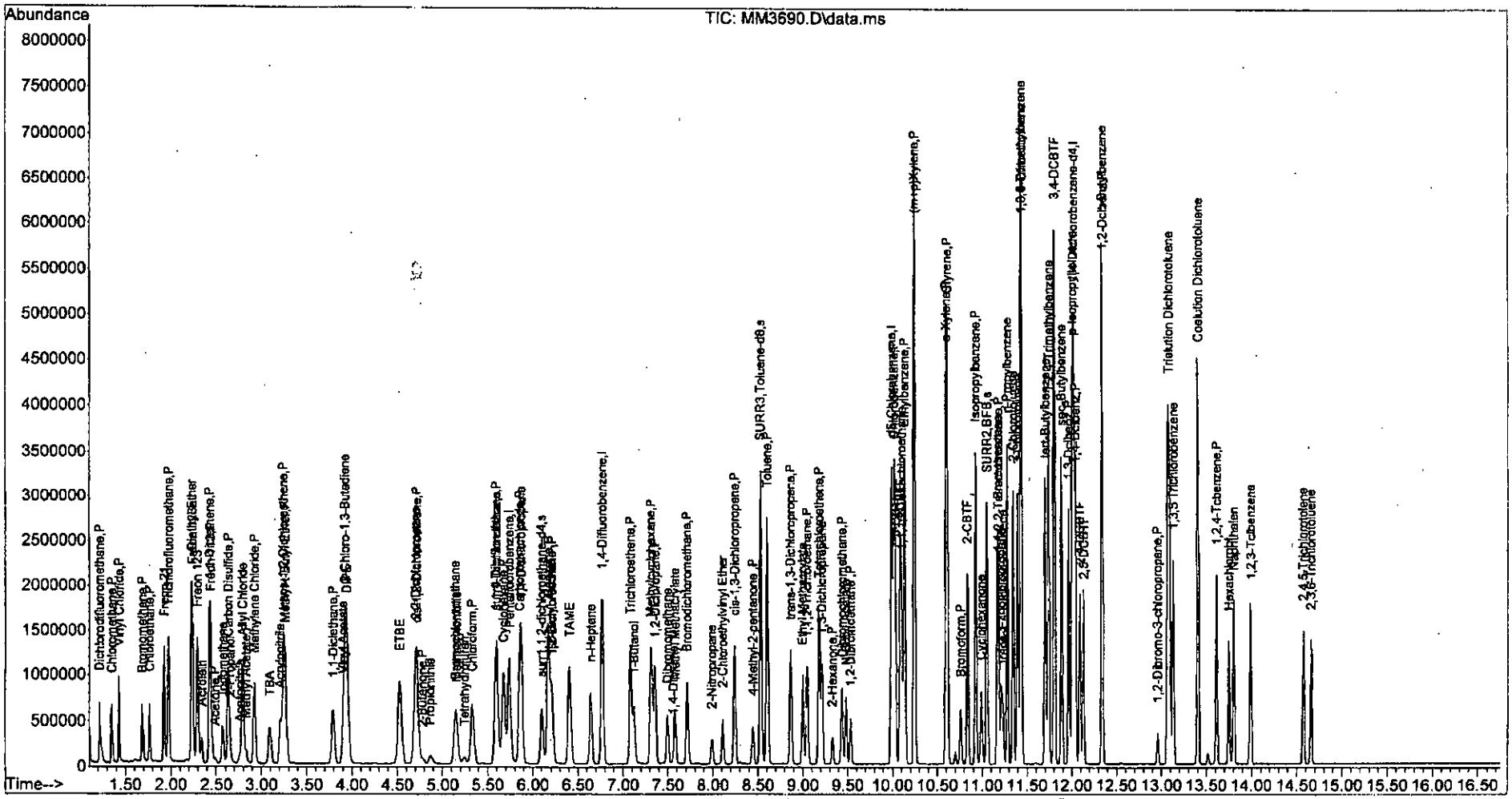
response 54275

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	60.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3690.D
Acq On : 4 Jun 2015 3:12 pm
Operator : K.Ruest
Sample : 50ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 05 09:25:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3691.D
Acq On : 4 Jun 2015 3:43 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 05 08:48:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.743	168	973497	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1579470	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1499651	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	832234	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	1021303	119.49	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 238.98%#				
48) surr1,1,2-dichloroetha...	6.097	65	1076230	117.88	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 235.76%#				
65) SURR3,Toluene-d8	8.535	98	4361135	116.83	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 233.66%#				
70) SURR2,BFB	11.053	95	1667882	117.59	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 235.18%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	807872	95.70	ppb		95
3) Chloromethane	1.341	50	748439	92.66	ppb		99
4) Vinyl Chloride	1.427	62	960734	94.70	ppb		99
5) Bromomethane	1.683	94	557164	93.64	ppb		96
6) Chloroethane	1.762	64	627502	93.26	ppb		99
7) Freon 21	1.927	67	1623134	96.16	ppb		97
8) Trichlorofluoromethane	1.975	101	1418236	93.27	ppb		99
9) Diethyl Ether	2.231	59	639616	95.14	ppb		96
10) Freon 123a	2.238	67	1022427	93.67	ppb		98
11) Freon 123	2.292	83	1170415	93.38	ppb		99
12) Acrolein	2.335	56	380304	541.16	ppb		96
13) 1,1-Diclethene	2.427	96	665873	93.04	ppb		97
14) Freon 113	2.439	101	663645	93.63	ppb		100
15) Acetone	2.481	43	124662	92.31	ppb		88
16) 2-Propanol	2.646	45	547633	2041.60	ppb		96
17) Iodomethane	2.567	142	932152	124.29	ppb		95
18) Carbon Disulfide	2.634	76	2173567	95.08	ppb		99
19) Acetonitrile	2.756	40	93243	522.62	ppb		93
20) Allyl Chloride	2.792	76	405446	94.10	ppb		92
21) Methyl Acetate	2.829	43	292220	98.34	ppb		97
22) Methylene Chloride	2.926	84	717072	94.24	ppb		96
23) TBA	3.091	59	989088	2046.14	ppb		98
24) Acrylonitrile	3.207	53	771776	494.49	ppb		99
25) Methyl-t-Butyl Ether	3.262	73	1886429	101.42	ppb		98
26) trans-1,2-Dichloroethene	3.243	96	752274	94.04	ppb		95
28) 1,1-Diclethane	3.792	63	1245472	93.99	ppb		98
29) Vinyl Acetate	3.908	86	148541	93.73	ppb	#	74
30) DIPE	3.945	45	2215398	96.41	ppb		99
31) 2-Chloro-1,3-Butadiene	3.926	53	1405244	97.59	ppb		99
32) ETBE	4.530	59	2203809	96.23	ppb		98
33) 2,2-Dichloropropane	4.707	77	1194001	94.82	ppb		99
34) cis-1,2-Dichloroethene	4.719	96	808882	94.85	ppb		98
35) 2-Butanone	4.774	43	186948	103.30	ppb		96
36) Propionitrile	4.871	54	277688	506.92	ppb		99

KB 6/5/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3691.D
Acq On : 4 Jun 2015 3:43 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 05 08:48:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.152	130	431727	91.58	ppb		96
38) Methacrylonitrile	5.158	67	190359	91.23	ppb	#	85
39) Tetrahydrofuran	5.243	42	113258	92.66	ppb		91
40) Chloroform	5.328	83	1285279	92.28	ppb		96
41) 1,1,1-Trichloroethane	5.597	97	1228771	91.39	ppb		98
42) TAME	6.407	73	1959702	98.12	ppb		97
44) Cyclohexane	5.676	41	678569	94.82	ppb		92
46) Carbontetrachloride	5.859	121	326987	95.14	ppb		99
47) 1,1-Dichloropropene	5.871	75	1010734	92.99	ppb		97
49) Benzene	6.176	78	3023653	96.60	ppb		99
50) 1,2-Dichloroethane	6.212	62	958505	95.52	ppb		99
51) Iso-Butyl Alcohol	6.206	43	405154	1948.56	ppb		100
52) n-Heptane	6.645	43	627037	94.05	ppb		97
53) 1-Butanol	7.121	56	678266	5136.73	ppb		99
54) Trichloroethene	7.084	130	827098	97.88	ppb		97
55) Methylcyclohexane	7.310	55	790533	100.00	ppb		98
56) 1,2-Diclpropane	7.352	63	715932	95.51	ppb		100
57) Dibromomethane	7.493	93	382147	94.75	ppb		96
58) 1,4-Dioxane	7.554	88	106791	1749.05	ppb		86
59) Methyl Methacrylate	7.578	69	364709	98.22	ppb		98
60) Bromodichloromethane	7.712	83	1017493	92.33	ppb		99
61) 2-Nitropropane	7.986	41	296482	210.62	ppb		96
62) 2-Chloroethylvinyl Ether	8.108	63	356547	103.18	ppb		93
63) cis-1,3-Dichloropropene	8.242	75	1233384	98.06	ppb		100
64) 4-Methyl-2-pentanone	8.444	43	440536	103.21	ppb		96
66) Toluene	8.602	91	3511273	97.79	ppb		99
67) trans-1,3-Dichloropropene	8.864	75	1089744	101.24	ppb		99
68) Ethyl Methacrylate	8.998	69	791707	101.34	ppb		98
69) 1,1,2-Trichloroethane	9.047	97	566561	97.68	ppb		97
72) Tetrachloroethene	9.181	164	638153	92.78	ppb		98
73) 2-Hexanone	9.328	43	307704	101.35	ppb		97
74) 1,3-Dichloropropane	9.212	76	986491	100.18	ppb		94
75) Dibromochloromethane	9.437	129	722957	97.52	ppb		100
76) N-Butyl Acetate	9.480	43	799235	100.54	ppb		99
77) 1,2-Dibromoethane	9.529	107	555335	95.50	ppb		97
78) Chlorobenzene	10.016	112	2371273	97.14	ppb		97
79) 3-CBTF	10.035	180	1165995	101.31	ppb		98
80) 4-CBTF	10.084	180	1059232	101.60	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.102	131	838035	100.26	ppb		93
82) Ethylbenzene	10.132	106	1271855	96.25	ppb		94
83) (m+p)Xylene	10.242	106	3133803	194.57	ppb		99
84) o-Xylene	10.596	106	1525647	97.81	ppb		97
85) Styrene	10.608	104	2664791	99.54	ppb		98
87) Bromoform	10.760	173	423637	99.43	ppb		99
88) 2-CBTF	10.839	180	1119809	92.76	ppb		99
89) Isopropylbenzene	10.931	105	3688878	95.48	ppb		99
90) Cyclohexanone	10.992	55	449650	1934.44	ppb		92
91) trans-1,4-Dichloro-2-B...	11.230	53	207389	99.74	ppb		95
92) 1,1,2,2-Tetrachloroethane	11.181	83	687563	97.77	ppb		99
93) Bromobenzene	11.175	156	919830	95.49	ppb		92
94) 1,2,3-Trichloropropane	11.211	110	205319	95.96	ppb		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3691.D
Acq On : 4 Jun 2015 3:43 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 05 08:48:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

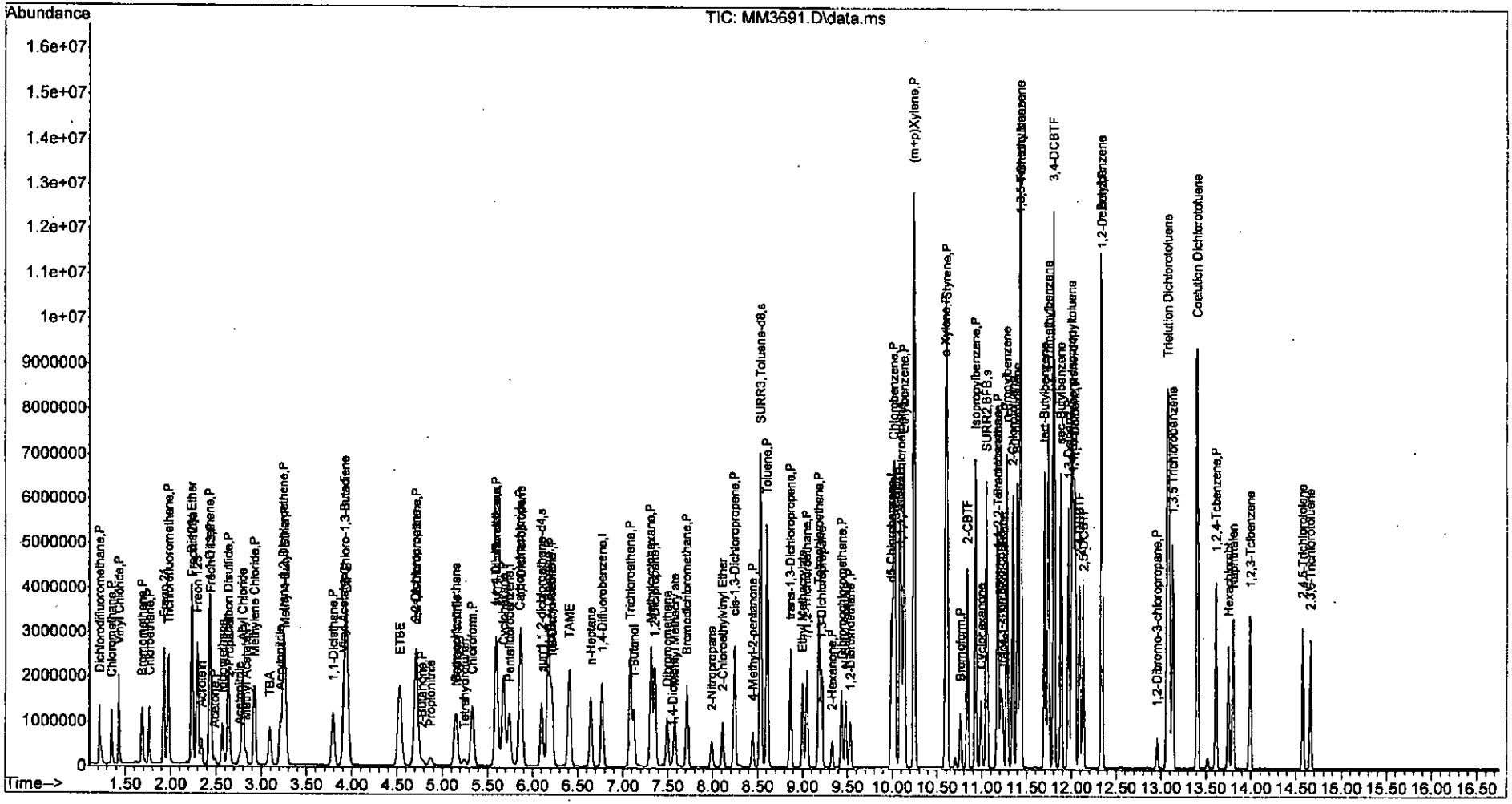
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
95)	n-Propylbenzene	11.278	91	4177838	96.08 ppb	97
96)	2-Chlorotoluene	11.345	91	2626784	98.02 ppb	98
97)	3-Chlorotoluene	11.394	91	2792570	98.07 ppb	99
98)	4-Chlorotoluene	11.437	91	3292171	99.38 ppb	100
99)	1,3,5-Trimethylbenzene	11.431	105	3202057	96.75 ppb	98
100)	tert-Butylbenzene	11.699	119	2513177	94.23 ppb	99
101)	1,2,4-Trimethylbenzene	11.742	105	3228544	96.61 ppb	99
102)	3,4-DCBTF	11.803	214	777307	98.34 ppb	97
103)	sec-Butylbenzene	11.882	105	3469499	94.88 ppb	99
104)	p-Isopropyltoluene	12.004	119	3020115	97.24 ppb	100
105)	1,3-Dclbenz	11.967	146	1810417	96.68 ppb	98
106)	1,4-Dclbenz	12.040	146	1849157	94.80 ppb	98
107)	2,4-DCBTF	12.089	214	695672	99.74 ppb	96
108)	2,5-DCBTF	12.132	214	781997	99.72 ppb	98
109)	n-Butylbenzene	12.333	91	2680072	96.01 ppb	99
110)	1,2-Dclbenz	12.339	146	1696645	96.93 ppb	99
111)	1,2-Dibromo-3-chloropr...	12.955	157	135406	95.13 ppb	91
112)	Trielution Dichlorotol...	13.077	125	4361300	295.86 ppb	99
113)	1,3,5 Trichlorobenzene	13.132	180	1098265	100.04 ppb	96
114)	Coelution Dichlorotoluene	13.406	125	3126092	197.95 ppb	98
115)	1,2,4-Tcbenzene	13.613	180	969185	96.40 ppb	99
116)	Hexachlorobt	13.747	225	347020	89.65 ppb	94
117)	Naphthalen	13.802	128	2082967	98.72 ppb	98
118)	1,2,3-Tclbenzene	13.991	180	815720	99.23 ppb	95
119)	2,4,5-Trichlorotolene	14.570	159	623865	94.90 ppb	96
120)	2,3,6-Trichlorotoluene	14.656	159	539416	95.45 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3691.D
Acq On : 4 Jun 2015 3:43 pm
Operator : K.Ruest
Sample : 100ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 05 08:48:02 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3692.D
Acq On : 4 Jun 2015 4:13 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 09:28:29 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	983983	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1611955	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1536623	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	842212	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	1218940	139.74	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 279.48%#				
48) surr1,1,2-dichloroetha...	6.096	65	1256325	134.83	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 269.66%#				
65) SURR3,Toluene-d8	8.535	98	5160044	135.44	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 270.88%#				
70) SURR2,BFB	11.053	95	1971994	136.23	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 272.46%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	1269070	148.73	ppb		99
3) Chloromethane	1.341	50	1199467	146.91	ppb		98
4) Vinyl Chloride	1.427	62	1498919	146.18	ppb		98
5) Bromomethane	1.677	94	935616	155.56	ppb		97
6) Chloroethane	1.762	64	976432	143.58	ppb		99
7) Freon 21	1.920	67	2399387	140.63	ppb		100
8) Trichlorofluoromethane	1.975	101	2224024	144.70	ppb		100
9) Diethyl Ether	2.225	59	960697	141.37	ppb		95
10) Freon 123a	2.231	67	1486699	134.75	ppb		93
11) Freon 123	2.292	83	1702487	134.39	ppb		99
12) Acrolein	2.335	56	554275	780.31	ppb		96
13) 1,1-Diclethene	2.426	96	1077154	148.90	ppb		97
14) Freon 113	2.439	101	1066191	148.83	ppb		99
15) Acetone	2.487	43	192513	141.03	ppb		86
16) 2-Propanol	2.646	45	746194	2752.20	ppb		98
17) Iodomethane	2.567	142	1358765	179.24	ppb		97
18) Carbon Disulfide	2.634	76	3367681	145.75	ppb		100
19) Acetonitrile	2.756	40	153407	850.66	ppb		87
20) Allyl Chloride	2.792	76	614413	141.08	ppb		98
21) Methyl Acetate	2.829	43	413135	137.55	ppb		97
22) Methylene Chloride	2.920	84	1111171	144.48	ppb		94
23) TBA	3.091	59	1432215	2931.27	ppb		100
24) Acrylonitrile	3.207	53	1155040	732.16	ppb		95
25) Methyl-t-Butyl Ether	3.262	73	2819986	150.00	ppb		97
26) trans-1,2-Dichloroethene	3.243	96	1197475	148.09	ppb		99
28) 1,1-Diclethane	3.792	63	1931336	144.19	ppb		97
29) Vinyl Acetate	3.902	86	216610	135.23	ppb	#	93
30) DIPE	3.944	45	3413459	146.97	ppb		97
31) 2-Chloro-1,3-Butadiene	3.926	53	2183596	150.03	ppb		99
32) ETBE	4.530	59	3319449	143.40	ppb		100
33) 2,2-Dichloropropane	4.707	77	1911298	150.17	ppb		100
34) cis-1,2-Dichloroethene	4.713	96	1291674	149.85	ppb		97
35) 2-Butanone	4.780	43	262063	143.26	ppb		99
36) Propionitrile	4.865	54	401138	724.47	ppb		93

KR 6/5/15

00210

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3692.D
Acq On : 4 Jun 2015 4:13 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 09:28:29 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.145	130	655108	137.48	ppb		92
38) Methacrylonitrile	5.158	67	283621	134.47	ppb		94
39) Tetrahydrofuran	5.237	42	166888	135.07	ppb		86
40) Chloroform	5.328	83	2022905	143.69	ppb		99
41) 1,1,1-Trichloroethane	5.597	97	1948114	143.35	ppb		98
42) TAME	6.407	73	2970244	147.14	ppb		98
44) Cyclohexane	5.676	41	1016795	139.22	ppb		100
46) Carbontetrachloride	5.859	121	518085	147.70	ppb		96
47) 1,1-Dichloropropene	5.871	75	1607200	144.89	ppb		95
49) Benzene	6.176	78	4688723	146.78	ppb		98
50) 1,2-Dichloroethane	6.212	62	1439767	140.59	ppb		96
51) Iso-Butyl Alcohol	6.206	43	597882	2817.52	ppb		94
52) n-Heptane	6.645	43	1009023	148.30	ppb		95
53) 1-Butanol	7.121	56	976069	7243.11	ppb		98
54) Trichloroethene	7.084	130	1316960	152.72	ppb		98
55) Methylcyclohexane	7.316	55	1177723	145.98	ppb		96
56) 1,2-Diclpropane	7.358	63	1108949	144.96	ppb		97
57) Dibromomethane	7.493	93	580986	141.15	ppb		99
58) 1,4-Dioxane	7.554	88	156797m	2516.31	ppb		
59) Methyl Methacrylate	7.578	69	541482	142.88	ppb		99
60) Bromodichloromethane	7.712	83	1571271	139.70	ppb		98
61) 2-Nitropropane	7.986	41	429679	299.10	ppb		97
62) 2-Chloroethylvinyl Ether	8.108	63	524836	148.82	ppb		96
63) cis-1,3-Dichloropropene	8.242	75	1917987	149.41	ppb		100
64) 4-Methyl-2-pentanone	8.444	43	633008	145.32	ppb		96
66) Toluene	8.602	91	5431084	148.21	ppb		98
67) trans-1,3-Dichloropropene	8.864	75	1653590	150.52	ppb		99
68) Ethyl Methacrylate	9.004	69	1180822	148.11	ppb		94
69) 1,1,2-Trichloroethane	9.047	97	871409	147.22	ppb		97
72) Tetrachloroethene	9.181	164	1010685	143.40	ppb		97
73) 2-Hexanone	9.328	43	435485	139.99	ppb		96
74) 1,3-Dichloropropane	9.212	76	1520375	150.68	ppb		95
75) Dibromochloromethane	9.437	129	1125993	148.23	ppb		99
76) N-Butyl Acetate	9.480	43	1110325	136.31	ppb		98
77) 1,2-Dibromoethane	9.529	107	852410	143.06	ppb		95
78) Chlorobenzene	10.016	112	3690587	147.55	ppb		98
79) 3-CBTF	10.035	180	1859754	157.70	ppb		96
80) 4-CBTF	10.090	180	1671119	156.43	ppb		99
81) 1,1,1,2-Tetrachloroethane	10.102	131	1324307	154.63	ppb		97
82) Ethylbenzene	10.138	106	1995886	147.40	ppb	#	90
83) (m+p)Xylene	10.248	106	4955794	300.29	ppb		88
84) o-Xylene	10.602	106	2438683	152.59	ppb		93
85) Styrene	10.608	104	4198404	153.05	ppb		99
87) Bromoform	10.760	173	649432	150.62	ppb		97
88) 2-CBTF	10.839	180	1809298	148.09	ppb		97
89) Isopropylbenzene	10.931	105	5724499	146.41	ppb		97
90) Cyclohexanone	10.992	55	663254	2819.58	ppb		87
91) trans-1,4-Dichloro-2-B...	11.230	53	311747	148.15	ppb		98
92) 1,1,2,2-Tetrachloroethane	11.181	83	1044696	146.80	ppb		97
93) Bromobenzene	11.175	156	1428364	146.52	ppb		92
94) 1,2,3-Trichloropropane	11.211	110	304147	140.46	ppb		93

00211

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3692.D
Acq On : 4 Jun 2015 4:13 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 09:28:29 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

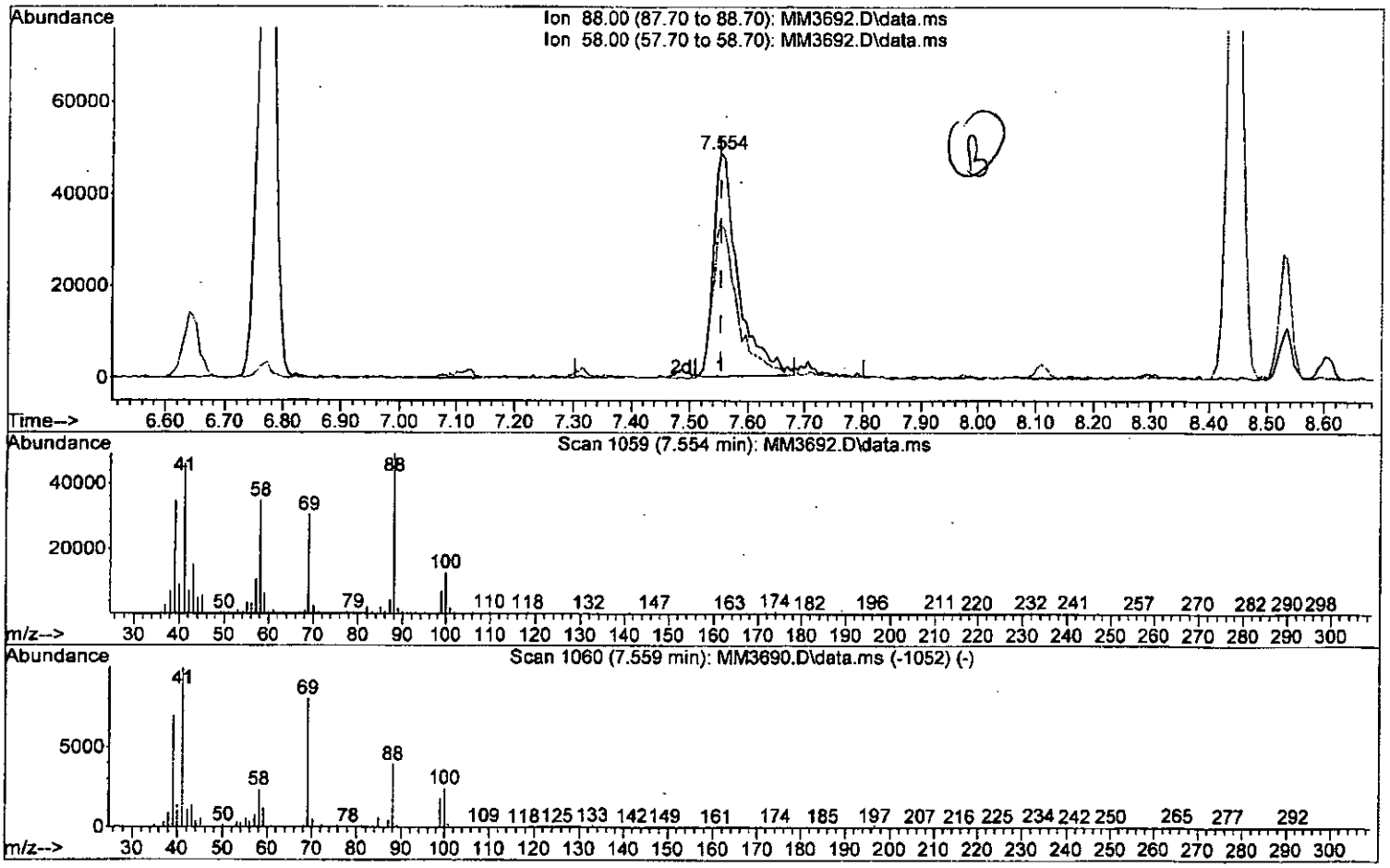
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.285	91	6403413	145.52	ppb	95
96)	2-Chlorotoluene	11.345	91	4091783	150.88	ppb	99
97)	3-Chlorotoluene	11.394	91	4515511	156.70	ppb	99
98)	4-Chlorotoluene	11.437	91	5017257	149.66	ppb	98
99)	1,3,5-Trimethylbenzene	11.431	105	5068397	151.32	ppb	97
100)	tert-Butylbenzene	11.705	119	3954753	146.52	ppb	99
101)	1,2,4-Trimethylbenzene	11.742	105	4978437	147.21	ppb	99
102)	3,4-DCBTF	11.803	214	1280264	160.06	ppb	99
103)	sec-Butylbenzene	11.888	105	5380448	145.40	ppb	96
104)	p-Isopropyltoluene	12.004	119	4707057	149.75	ppb	98
105)	1,3-Dclbenz	11.967	146	2814329	148.51	ppb	99
106)	1,4-Dclbenz	12.040	146	2866913	145.24	ppb	98
107)	2,4-DCBTF	12.089	214	1106652	156.78	ppb	100
108)	2,5-DCBTF	12.132	214	1248328	157.30	ppb	99
109)	n-Butylbenzene	12.333	91	4322277	153.01	ppb	98
110)	1,2-Dclbenz	12.339	146	2646600	149.41	ppb	99
111)	1,2-Dibromo-3-chloropr...	12.955	157	198883	138.07	ppb	94
112)	Trielution Dichlorotol...	13.077	125	6771597	453.92	ppb	99
113)	1,3,5 Trichlorobenzene	13.132	180	1700311	153.04	ppb	98
114)	Coelution Dichlorotoluene	13.406	125	4806592	300.75	ppb	97
115)	1,2,4-Tcbenzene	13.613	180	1479568	145.41	ppb	98
116)	Hexachlorobt	13.747	225	566780	144.68	ppb	97
117)	Naphthalen	13.802	128	3039011	142.32	ppb	99
118)	1,2,3-Tclbenzene	13.991	180	1214544	146.00	ppb	97
119)	2,4,5-Trichlorotolene	14.570	159	989889	148.80	ppb	96
120)	2,3,6-Trichlorotoluene	14.656	159	842093	147.24	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3692.D
Acq On : 4 Jun 2015 4:13 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 08:48:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3692.D\data.ms

(58) 1,4-Dioxane

7.554min (-0.000) 2290.51 ppb

response 142727

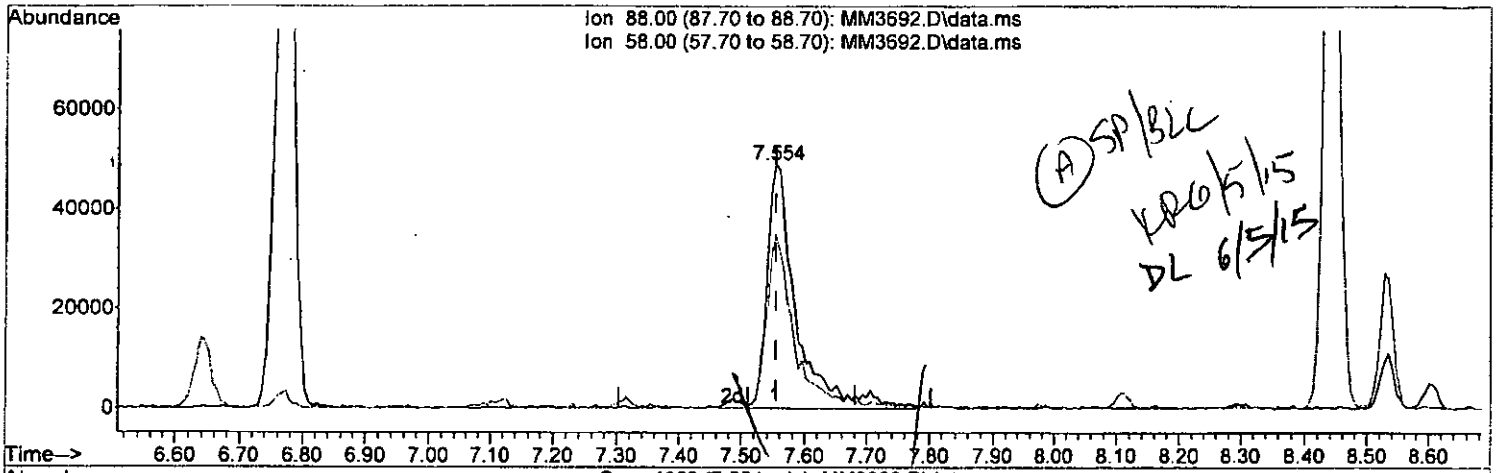
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	70.87
0.00	0.00	0.00
0.00	0.00	0.00

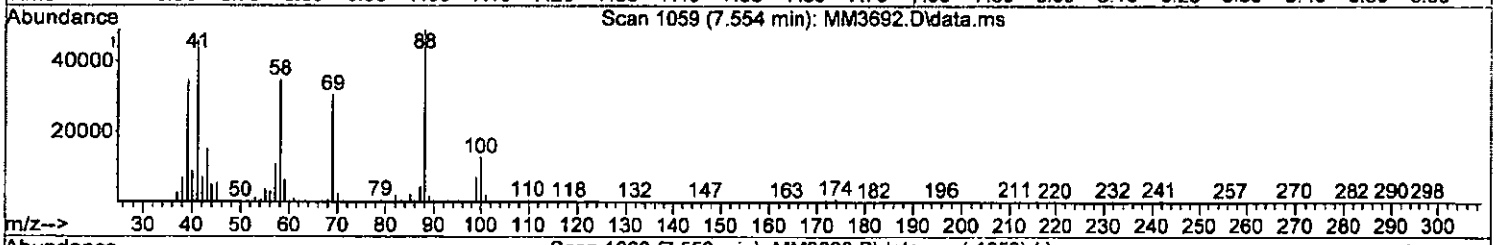
00213

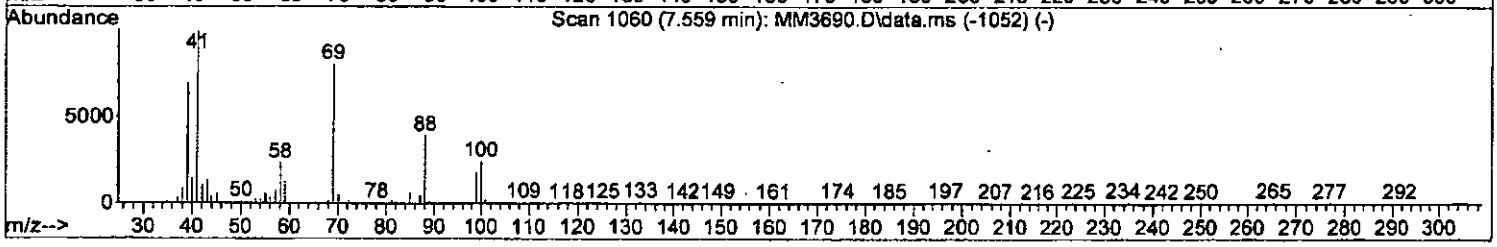
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3692.D
Acq On : 4 Jun 2015 4:13 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 08:48:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3692.D\data.ms

(58) 1,4-Dioxane

7.554min (-0.000) 2516.31 ppb m

response 156797

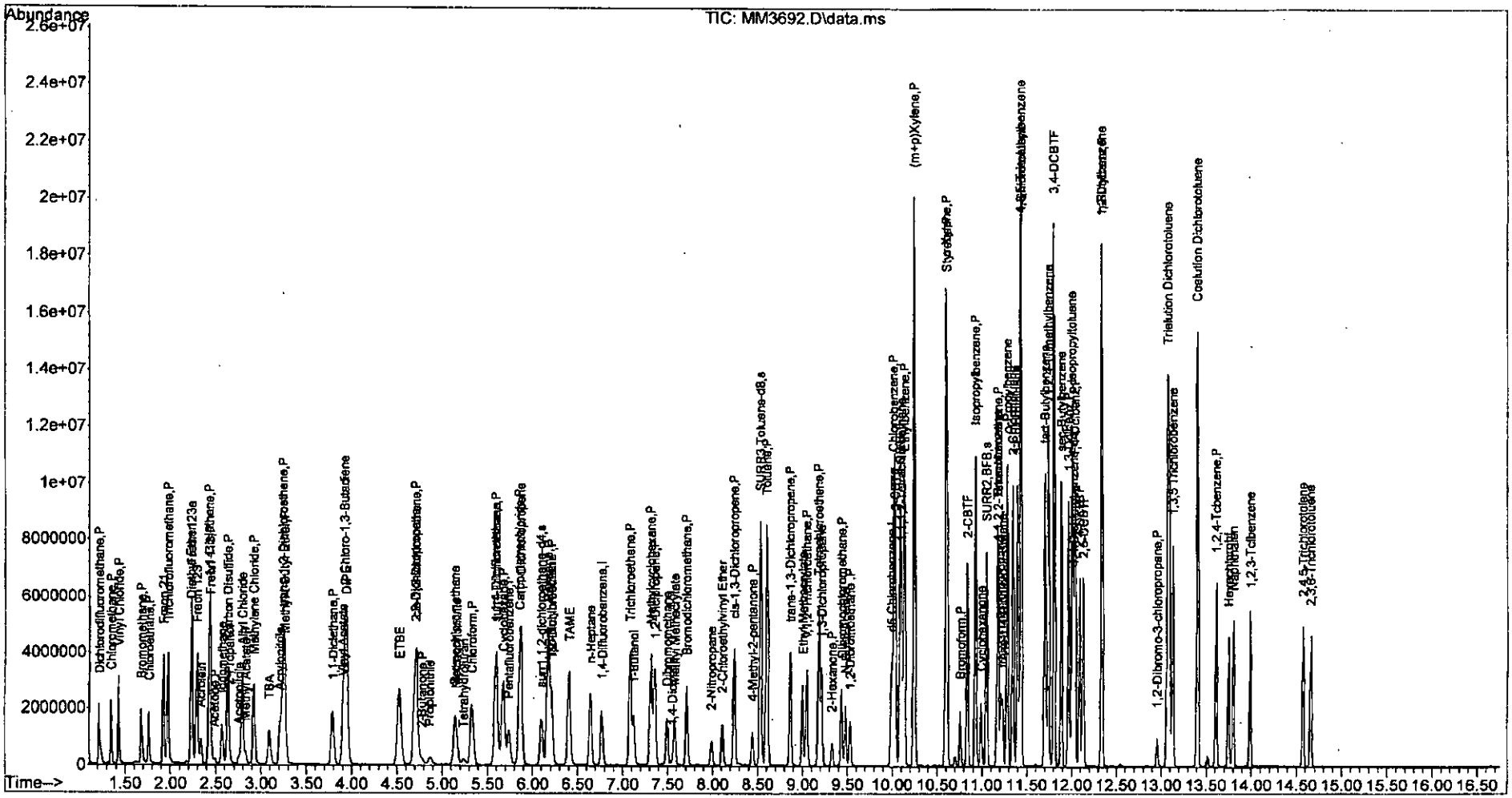
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	70.87
0.00	0.00	0.00
0.00	0.00	0.00

00214

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3692.D
Acq On : 4 Jun 2015 4:13 pm
Operator : K.Ruest
Sample : 150ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 09:28:29 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3693.D
Acq On : 4 Jun 2015 4:43 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 09:30:24 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.743	168	995391	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1600668	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1536782	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	852989	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	476595	55.02	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.04%				
48) surr1,1,2-dichloroetha...	6.096	65	494950	53.49	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 106.98%				
65) SURR3,Toluene-d8	8.529	98	2090320	55.25	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.50%				
70) SURR2,BFB	11.053	95	786702	54.73	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.46%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	1766459	204.65	ppb		97
3) Chloromethane	1.341	50	1576513	190.88	ppb		99
4) Vinyl Chloride	1.427	62	2031598	195.86	ppb		98
5) Bromomethane	1.677	94	1304316	214.38	ppb		98
6) Chloroethane	1.762	64	1339973	194.78	ppb		98
7) Freon 21	1.920	67	3370977	195.31	ppb		98
8) Trichlorofluoromethane	1.969	101	3034511	195.17	ppb		99
9) Diethyl Ether	2.225	59	1300371	189.16	ppb		97
10) Freon 123a	2.231	67	2124232	190.33	ppb		91
11) Freon 123	2.292	83	2455688	191.62	ppb		98
12) Acrolein	2.335	56	733341	1020.57	ppb		99
13) 1,1-Diclethene	2.426	96	1496179	204.46	ppb		98
14) Freon 113	2.439	101	1475886	203.65	ppb		96
15) Acetone	2.487	43	269205	194.95	ppb		88
16) 2-Propanol	2.646	45	1048320	3822.22	ppb		98
17) Iodomethane	2.567	142	1801920	234.98	ppb		97
18) Carbon Disulfide	2.634	76	4537699	194.14	ppb		98
19) Acetonitrile	2.756	40	202468	1109.85	ppb	#	93
20) Allyl Chloride	2.792	76	823817	187.00	ppb		99
21) Methyl Acetate	2.829	43	587423	193.34	ppb		96
22) Methylene Chloride	2.920	84	1524929	196.01	ppb		93
23) TBA	3.091	59	1866457	3776.24	ppb		100
24) Acrylonitrile	3.207	53	1526232	956.37	ppb		98
25) Methyl-t-Butyl Ether	3.262	73	3779620	198.73	ppb		96
26) trans-1,2-Dichloroethene	3.243	96	1626975	198.90	ppb		99
28) 1,1-Diclethane	3.792	63	2653945	195.87	ppb		97
29) Vinyl Acetate	3.908	86	290781	179.45	ppb	#	85
30) DIPE	3.944	45	4685816	199.44	ppb		99
31) 2-Chloro-1,3-Butadiene	3.926	53	2945540	200.06	ppb		98
32) ETBE	4.530	59	4497090	192.05	ppb		99
33) 2,2-Dichloropropane	4.707	77	2565434	199.26	ppb		98
34) cis-1,2-Dichloroethene	4.719	96	1762113	202.08	ppb		96
35) 2-Butanone	4.780	43	345831	186.89	ppb		100
36) Propionitrile	4.865	54	531791	949.43	ppb		92

KB 6/5/15

00216

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3693.D
Acq On : 4 Jun 2015 4:43 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 09:30:24 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.145	130	870559	180.60	ppb		95
38) Methacrylonitrile	5.158	67	370025	173.43	ppb	#	78
39) Tetrahydrofuran	5.237	42	220988	176.81	ppb		88
40) Chloroform	5.328	83	2771795	194.63	ppb		98
41) 1,1,1-Trichloroethane	5.597	97	2634081	191.60	ppb		98
42) TAME	6.407	73	3991050	195.44	ppb		98
44) Cyclohexane	5.676	41	1435445	197.93	ppb		98
46) Carbontetrachloride	5.859	121	722886	207.54	ppb		98
47) 1,1-Dichloropropene	5.871	75	2193800	199.17	ppb		97
49) Benzene	6.176	78	6371735	200.88	ppb		98
50) 1,2-Dichloroethane	6.212	62	1963022	193.04	ppb		99
51) Iso-Butyl Alcohol	6.206	43	780772	3705.33	ppb		99
52) n-Heptane	6.645	43	1359610	201.24	ppb		99
53) 1-Butanol	7.127	56	1284468	9598.86	ppb		100
54) Trichloroethene	7.084	130	1776485	207.45	ppb		94
55) Methylcyclohexane	7.316	55	1692841	211.30	ppb		96
56) 1,2-Diclpropane	7.358	63	1514042	199.30	ppb		100
57) Dibromomethane	7.493	93	790137	193.32	ppb		97
58) 1,4-Dioxane	7.554	88	211730m	3421.85	ppb		
59) Methyl Methacrylate	7.578	69	724583	192.55	ppb		97
60) Bromodichloromethane	7.712	83	2155556	193.00	ppb		98
61) 2-Nitropropane	7.986	41	578503	405.53	ppb		100
62) 2-Chloroethylvinyl Ether	8.108	63	700120	199.92	ppb		100
63) cis-1,3-Dichloropropene	8.242	75	2575418	202.04	ppb		98
64) 4-Methyl-2-pentanone	8.444	43	842811	194.85	ppb		96
66) Toluene	8.602	91	7285635	200.22	ppb		97
67) trans-1,3-Dichloropropene	8.864	75	2248087	206.08	ppb		98
68) Ethyl Methacrylate	9.004	69	1576488	199.13	ppb		96
69) 1,1,2-Trichloroethane	9.047	97	1163778	198.00	ppb		98
72) Tetrachloroethene	9.181	164	1370881	194.49	ppb		96
73) 2-Hexanone	9.328	43	585372	188.15	ppb		99
74) 1,3-Dichloropropane	9.212	76	2030667	201.24	ppb		96
75) Dibromochloromethane	9.437	129	1504317	198.01	ppb		99
76) N-Butyl Acetate	9.480	43	1563763	191.95	ppb		99
77) 1,2-Dibromoethane	9.529	107	1138736	191.10	ppb		99
78) Chlorobenzene	10.016	112	5007222	200.16	ppb		96
79) 3-CBTF	10.035	180	2541847	215.51	ppb		97
80) 4-CBTF	10.090	180	2303129	215.57	ppb		100
81) 1,1,1,2-Tetrachloroethane	10.102	131	1790864	209.08	ppb		96
82) Ethylbenzene	10.138	106	2765804	204.24	ppb	#	80
83) (m+p)Xylene	10.248	106	6761524	409.66	ppb	#	76
84) o-Xylene	10.602	106	3399487	212.69	ppb		91
85) Styrene	10.614	104	5674125	206.83	ppb		100
87) Bromoform	10.760	173	884483	202.54	ppb		98
88) 2-CBTF	10.839	180	2468029	199.46	ppb		96
89) Isopropylbenzene	10.931	105	7592408	191.73	ppb		94
90) Cyclohexanone	10.992	55	889289	3732.73	ppb		89
91) trans-1,4-Dichloro-2-B...	11.230	53	416795	195.57	ppb		97
92) 1,1,2,2-Tetrachloroethane	11.181	83	1381606	191.69	ppb		99
93) Bromobenzene	11.175	156	1965708	199.09	ppb		93
94) 1,2,3-Trichloropropane	11.211	110	403791	184.12	ppb		92

00217

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3693.D
Acq On : 4 Jun 2015 4:43 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 09:30:24 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

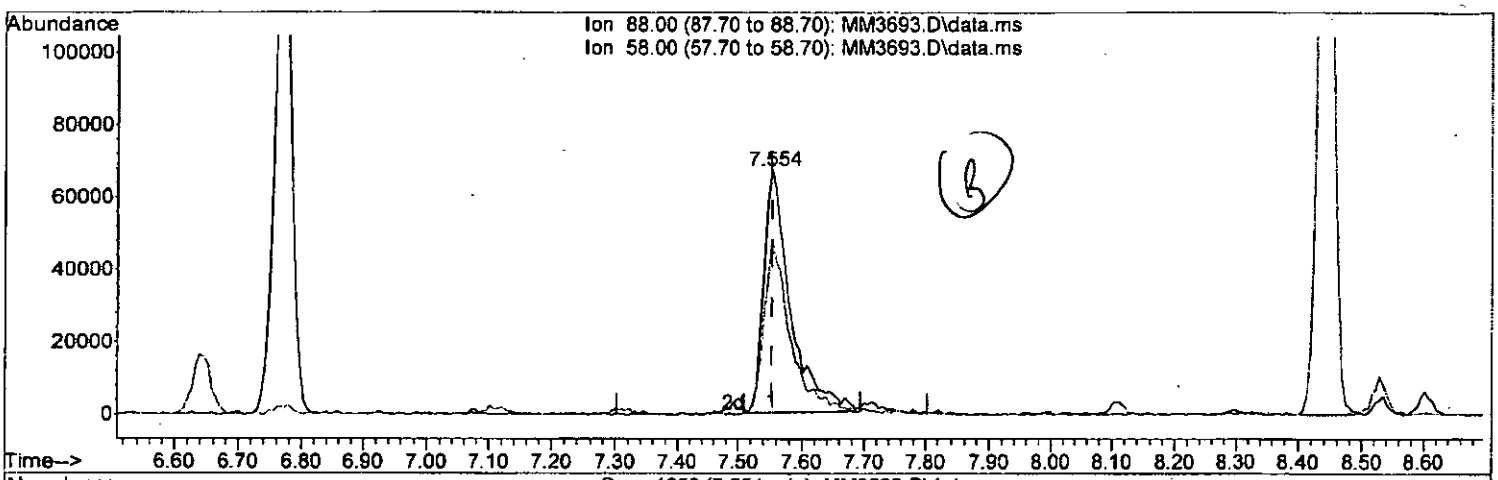
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.285	91	8346693	187.29	ppb	90
96)	2-Chlorotoluene	11.345	91	5532707	201.43	ppb	99
97)	3-Chlorotoluene	11.400	91	5904327	202.30	ppb	97
98)	4-Chlorotoluene	11.437	91	6836009	201.34	ppb	95
99)	1,3,5-Trimethylbenzene	11.431	105	6852088	201.99	ppb	94
100)	tert-Butylbenzene	11.705	119	5362657	196.18	ppb	97
101)	1,2,4-Trimethylbenzene	11.742	105	6645751	194.03	ppb	96
102)	3,4-DCBTF	11.803	214	1771912	218.73	ppb	96
103)	sec-Butylbenzene	11.888	105	7117475	189.91	ppb	93
104)	p-Isopropyltoluene	12.004	119	6235669	195.88	ppb	94
105)	1,3-Dclbenz	11.967	146	3843931	200.27	ppb	98
106)	1,4-Dclbenz	12.040	146	3900030	195.08	ppb	97
107)	2,4-DCBTF	12.089	214	1487472	208.07	ppb	100
108)	2,5-DCBTF	12.132	214	1701818	211.73	ppb	100
109)	n-Butylbenzene	12.333	91	5803800	202.86	ppb	95
110)	1,2-Dclbenz	12.339	146	3602200	200.78	ppb	99
111)	1,2-Dibromo-3-chloropr...	12.955	157	258363	177.10	ppb	89
112)	Trielution Dichlorotol...	13.083	125	8992978	595.21	ppb	95
113)	1,3,5 Trichlorobenzene	13.132	180	2285962	203.16	ppb	99
114)	Coelution Dichlorotoluene	13.406	125	6346954	392.12	ppb	93
115)	1,2,4-Tcbenzene	13.613	180	1989382	193.05	ppb	99
116)	Hexachlorobt	13.747	225	767426	193.43	ppb	99
117)	Naphthalen	13.802	128	4009056	185.38	ppb	99
118)	1,2,3-Tclbenzene	13.991	180	1643373	195.05	ppb	98
119)	2,4,5-Trichlorotolene	14.577	159	1339810	198.85	ppb	94
120)	2,3,6-Trichlorotoluene	14.662	159	1166868	201.45	ppb	97

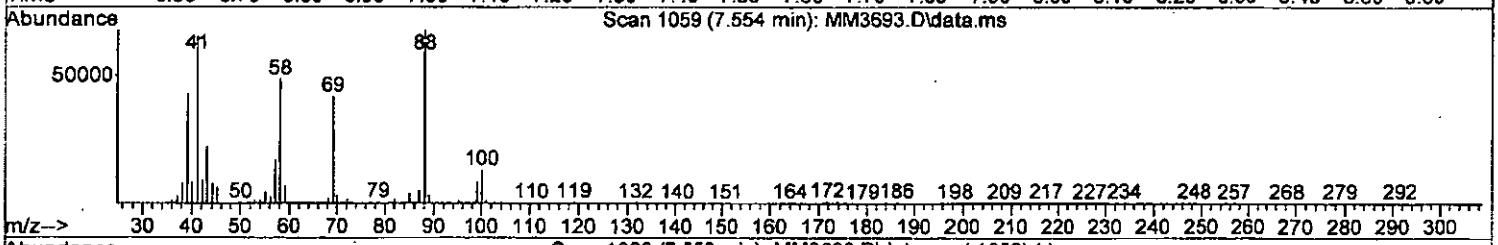
(#) = qualifier out of range (m) = manual integration (+) = signals summed

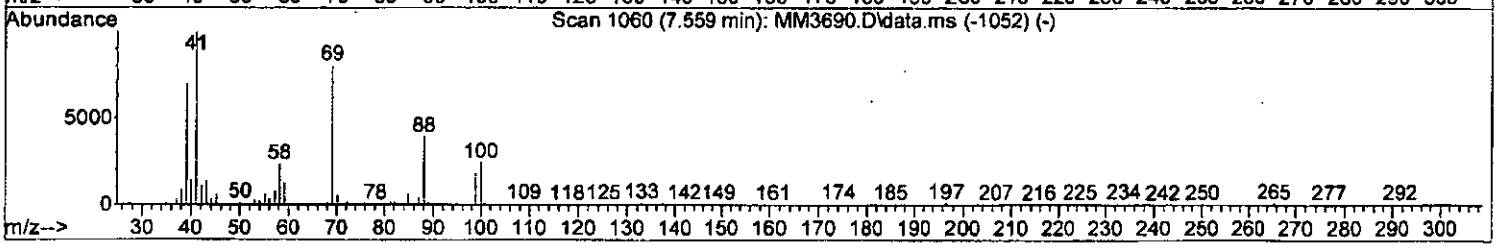
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3693.D
Acq On : 4 Jun 2015 4:43 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 08:48:12 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration







TIC: MM3693.D\data.ms

(58) 1,4-Dioxane

7.554min (0.000) 3138.47 ppb

response 194196

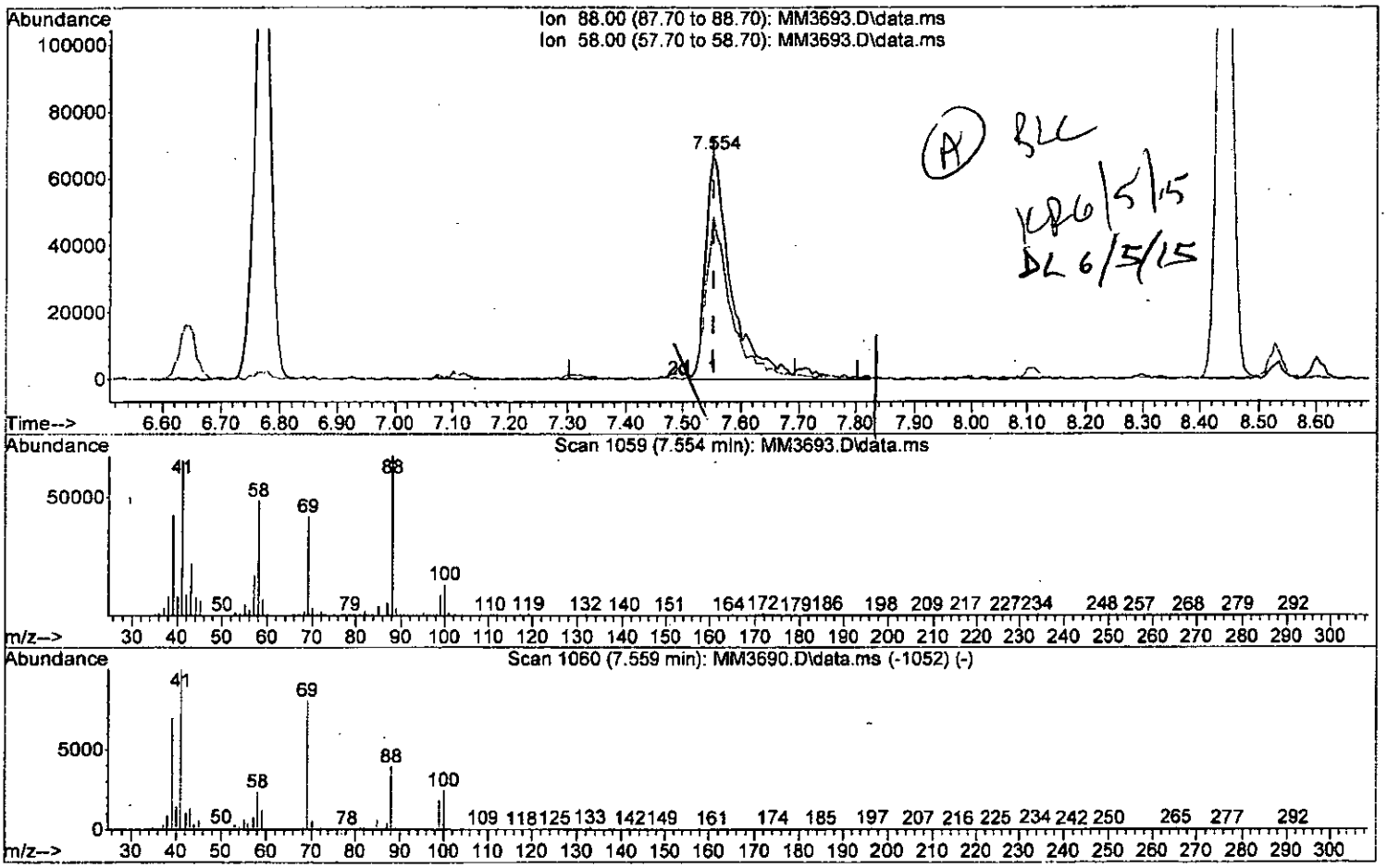
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	71.90
0.00	0.00	0.00
0.00	0.00	0.00

00219

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3693.D
Acq On : 4 Jun 2015 4:43 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 08:48:12 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



BLL 6/5/15
KRB 6/5/15
DL 6/5/15

TIC: MM3693.D\data.ms

(58) 1,4-Dioxane

7.554min (0.000) 3421.85 ppb m

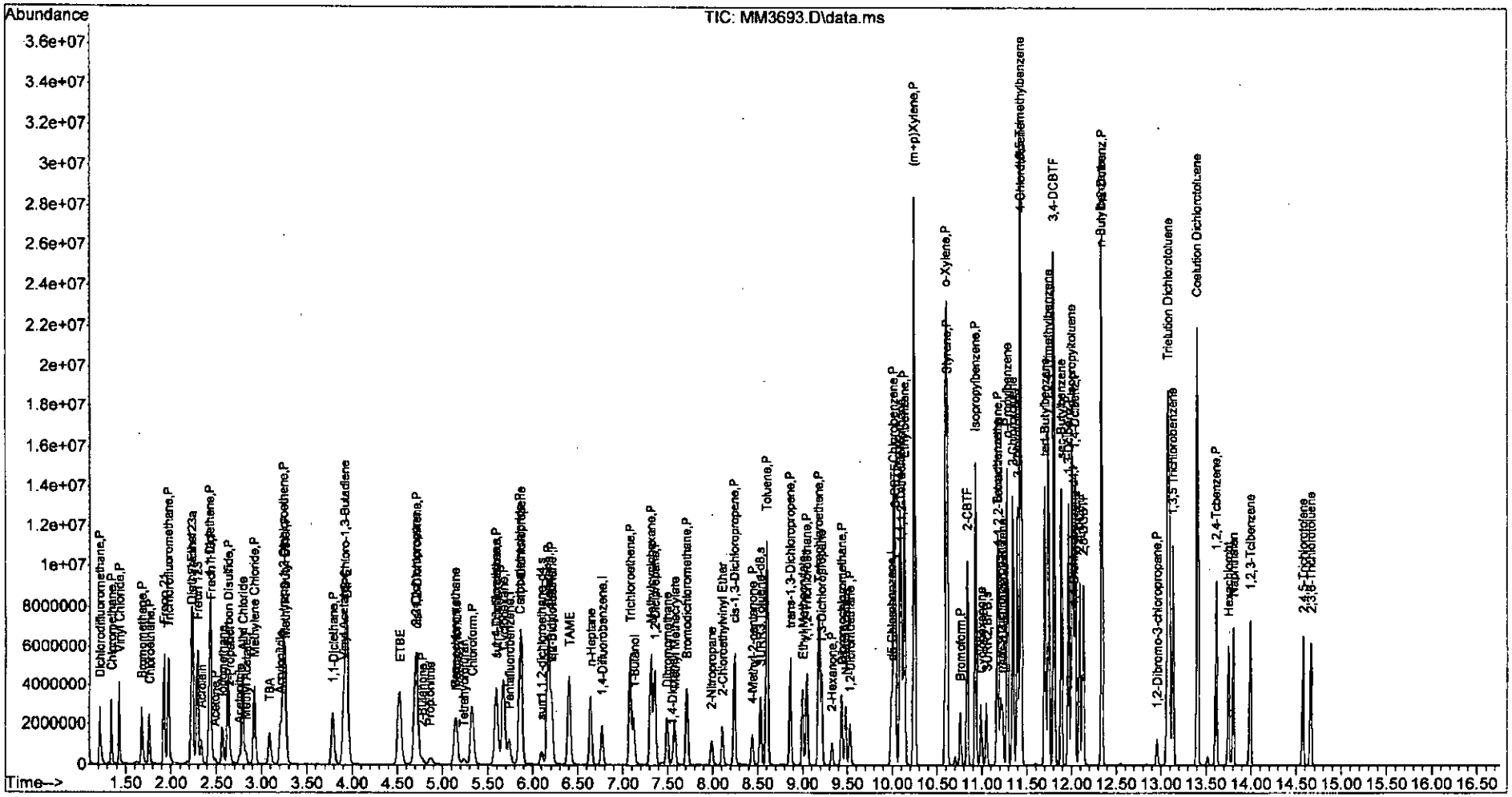
response 211730

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	71.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3693.D
Acq On : 4 Jun 2015 4:43 pm
Operator : K.Ruest
Sample : 200ppb Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 09:30:24 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Initial Calibration Verification Summary Report

KR 6/5/15

Calibration ID: RC1500064
8260 waters - W0604I5

Instrument ID: R-MS-12
Column Name: I

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500064-10	T	Average RF	50	46.93	ppm	-6.1	<=30
1,1,1-Trichloroethane (TCA)	RC1500064-10	T	Average RF	50	43.56	ppm	-12.9	<=30
1,1,2,2-Tetrachloroethane	RC1500064-10	T	Average RF	50	46.67	ppm	-6.7	<=30
1,1,2-Trichloroethane	RC1500064-10	T	Average RF	50	46.47	ppm	-7.1	<=30
1,1,2-Trichlorotrifluoroethane	RC1500064-10	T	Average RF	50	40.24	ppm	-19.5	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500064-10	T	Average RF	50	45.02	ppm	-10.0	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500064-10	T	Average RF	50	42.14	ppm	-15.7	<=30
1,1-Dichloropropene	RC1500064-10	T	Average RF	50	41.07	ppm	-17.9	<=30
1,2,3-Trichlorobenzene	RC1500064-10	T	Average RF	50	47.39	ppm	-5.2	<=30
1,2,3-Trichloropropane	RC1500064-10	T	Average RF	50	46.88	ppm	-6.2	<=30
1,2,4-Trichlorobenzene	RC1500064-10	T	Average RF	50	47.70	ppm	-4.6	<=30
1,2,4-Trimethylbenzene	RC1500064-10	T	Average RF	50	47.09	ppm	-5.8	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500064-10	T	Average RF	50	46.25	ppm	-7.5	<=30
1,2-Dibromoethane	RC1500064-10	T	Average RF	50	46.14	ppm	-7.7	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123:	RC1500064-10	T	Average RF	50	47.68	ppm	-4.6	<=30
1,2-Dichlorobenzene	RC1500064-10	T	Average RF	50	46.73	ppm	-6.5	<=30
1,2-Dichloroethane	RC1500064-10	T	Average RF	50	45.76	ppm	-8.5	<=30
1,2-Dichloropropane	RC1500064-10	T	Average RF	50	46.38	ppm	-7.2	<=30
1,3,5-Trichlorobenzene	RC1500064-10	T	Average RF	50	46.83	ppm	-6.3	<=30
1,3,5-Trimethylbenzene	RC1500064-10	T	Average RF	50	47.09	ppm	-5.8	<=30
1,3-Dichlorobenzene	RC1500064-10	T	Average RF	50	46.16	ppm	-7.7	<=30
1,3-Dichloropropane	RC1500064-10	T	Average RF	50	47.33	ppm	-5.3	<=30
1,4-Dichlorobenzene	RC1500064-10	T	Average RF	50	46.14	ppm	-7.7	<=30
1,4-Dioxane	RC1500064-10	T	Average RF	1000	895.3	ppm	-10.5	<=30
1-Butanol	RC1500064-10	T	Average RF	2500	2597	ppm	3.9	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500064-10	T	Average RF	50	43.45	ppm	-13.1	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500064-10	T	Average RF	50	44.33	ppm	-11.3	<=30
2,2-Dichloropropane	RC1500064-10	T	Average RF	50	45.91	ppm	-8.2	<=30
2,3,6-Trichlorotoluene	RC1500064-10	T	Average RF	50	46.93	ppm	-6.1	<=30
2,4,5-Trichlorotoluene	RC1500064-10	T	Average RF	50	44.86	ppm	-10.3	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500064-10	T	Average RF	150	136.9	ppm	-8.7	<=30
2,4-Dichlorobenzotrifluoride	RC1500064-10	T	Average RF	50	45.31	ppm	-9.4	<=30
2,5-Dichlorobenzotrifluoride	RC1500064-10	T	Average RF	50	44.36	ppm	-11.3	<=30
2-Butanone (MEK)	RC1500064-10	T	Average RF	50	53.76	ppm	7.5	<=30
2-Chloro-1,3-butadiene	RC1500064-10	T	Average RF	50	46.12	ppm	-7.8	<=30
2-Chlorobenzotrifluoride	RC1500064-10	T	Average RF	50	43.20	ppm	-13.6	<=30
2-Chloroethyl Vinyl Ether	RC1500064-10	T	Average RF	50	54.65	ppm	9.3	<=30
2-Chlorotoluene	RC1500064-10	T	Average RF	50	47.62	ppm	-4.8	<=30
2-Hexanone	RC1500064-10	T	Average RF	50	53.15	ppm	6.3	<=30
2-Methyl-1-propanol	RC1500064-10	T	Average RF	1000	945.5	ppm	-5.5	<=30
2-Methyl-2-propanol	RC1500064-10	T	Average RF	1000	1022	ppm	2.2	<=30
2-Nitropropane	RC1500064-10	T	Average RF	100	102.2	ppm	2.2	<=30
2-Propanol	RC1500064-10	T	Average RF	1000	989.0	ppm	-1.1	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500064-10	T	Average RF	100	94.50	ppm	-5.5	<=30
3,4-Dichlorobenzotrifluoride	RC1500064-10	T	Average RF	50	44.44	ppm	-11.1	<=30
3-Chloro-1-propene	RC1500064-10	T	Average RF	50	42.29	ppm	-15.4	<=30
3-Chlorobenzotrifluoride	RC1500064-10	T	Average RF	50	43.79	ppm	-12.4	<=30
3-Chlorotoluene	RC1500064-10	T	Average RF	50	46.04	ppm	-7.9	<=30
4-Chlorotoluene	RC1500064-10	T	Average RF	50	47.91	ppm	-4.2	<=30
4-Isopropyltoluene	RC1500064-10	T	Average RF	50	48.72	ppm	-2.6	<=30
4-Methyl-2-pentanone	RC1500064-10	T	Average RF	50	54.32	ppm	8.6	<=30

00222

Initial Calibration Verification Summary Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500064-10	T	Average RF	50	48.09	ppm	-3.8	<=30
Acetonitrile	RC1500064-10	T	Average RF	250	212.4	ppm	-15.0	<=30
Acrolein	RC1500064-10	T	Average RF	100	92.70	ppm	-7.3	<=30
Acrylonitrile	RC1500064-10	T	Average RF	250	239.7	ppm	-4.1	<=30
Benzene	RC1500064-10	T	Average RF	50	45.38	ppm	-9.2	<=30
Bromobenzene	RC1500064-10	T	Average RF	50	46.57	ppm	-6.9	<=30
Bromochloromethane	RC1500064-10	T	Average RF	50	44.30	ppm	-11.4	<=30
Bromodichloromethane	RC1500064-10	T	Average RF	50	45.67	ppm	-8.7	<=30
Bromoform	RC1500064-10	T	Average RF	50	48.36	ppm	-3.3	<=30
Bromomethane	RC1500064-10	T	Average RF	50	46.36	ppm	-7.3	<=30
Carbon Disulfide	RC1500064-10	T	Average RF	50	51.12	ppm	2.2	<=30
Carbon Tetrachloride	RC1500064-10	T	Average RF	50	43.47	ppm	-13.1	<=30
Chlorobenzene	RC1500064-10	T	Average RF	50	45.28	ppm	-9.4	<=30
Chloroethane	RC1500064-10	T	Average RF	50	43.89	ppm	-12.2	<=30
Chloroform	RC1500064-10	T	Average RF	50	46.10	ppm	-7.8	<=30
Chloromethane	RC1500064-10	T	Average RF	50	50.91	ppm	1.8	<=30
Cyclohexane	RC1500064-10	T	Average RF	50	42.57	ppm	-14.9	<=30
Cyclohexanone	RC1500064-10	T	Average RF	1000	1049	ppm	4.9	<=30
Dibromochloromethane	RC1500064-10	T	Average RF	50	47.34	ppm	-5.3	<=30
Dibromomethane	RC1500064-10	T	Average RF	50	45.33	ppm	-9.3	<=30
Dichlorodifluoromethane (CFC 12)	RC1500064-10	T	Average RF	50	48.08	ppm	-3.8	<=30
Dichlorofluoromethane (CFC 21)	RC1500064-10	T	Average RF	50	49.81	ppm	-0.4	<=30
Dichloromethane	RC1500064-10	T	Average RF	50	45.57	ppm	-8.9	<=30
Diethyl Ether	RC1500064-10	T	Average RF	50	48.17	ppm	-3.7	<=30
Diisopropyl Ether	RC1500064-10	T	Average RF	50	44.89	ppm	-10.2	<=30
Ethyl Methacrylate	RC1500064-10	T	Average RF	50	50.85	ppm	1.7	<=30
Ethyl tert-Butyl Ether	RC1500064-10	T	Average RF	50	44.40	ppm	-11.2	<=30
Ethylbenzene	RC1500064-10	T	Average RF	50	40.64	ppm	-18.7	<=30
Hexachlorobutadiene	RC1500064-10	T	Average RF	50	42.46	ppm	-15.1	<=30
Iodomethane	RC1500064-10	T	Linear	50	50.52	ppm	1.0	<=30
Isopropylbenzene (Cumene)	RC1500064-10	T	Average RF	50	46.43	ppm	-7.1	<=30
Methacrylonitrile	RC1500064-10	T	Average RF	50	47.39	ppm	-5.2	<=30
Methyl Acetate	RC1500064-10	T	Average RF	50	48.47	ppm	-3.1	<=30
Methyl Methacrylate	RC1500064-10	T	Average RF	50	50.46	ppm	0.9	<=30
Methyl tert-Butyl Ether	RC1500064-10	T	Average RF	50	48.14	ppm	-3.7	<=30
Methylcyclohexane	RC1500064-10	T	Average RF	50	44.67	ppm	-10.7	<=30
Naphthalene	RC1500064-10	T	Average RF	50	48.04	ppm	-3.9	<=30
Propionitrile	RC1500064-10	T	Average RF	250	245.6	ppm	-1.8	<=30
Styrene	RC1500064-10	T	Average RF	50	46.92	ppm	-6.2	<=30
Tetrachloroethene (PCE)	RC1500064-10	T	Average RF	50	43.28	ppm	-13.4	<=30
Tetrahydrofuran (THF)	RC1500064-10	T	Average RF	50	49.97	ppm	-0.1	<=30
Toluene	RC1500064-10	T	Average RF	50	45.73	ppm	-8.5	<=30
Trichloroethene (TCE)	RC1500064-10	T	Average RF	50	47.00	ppm	-6.0	<=30
Trichlorofluoromethane (CFC 11)	RC1500064-10	T	Average RF	50	45.37	ppm	-9.3	<=30
Vinyl Acetate	RC1500064-10	T	Average RF	50	41.95	ppm	-16.1	<=30
Vinyl Chloride	RC1500064-10	T	Average RF	50	47.03	ppm	-5.9	<=30
cis-1,2-Dichloroethene	RC1500064-10	T	Average RF	50	46.28	ppm	-7.4	<=30
cis-1,3-Dichloropropene	RC1500064-10	T	Average RF	50	46.01	ppm	-8.0	<=30
m,p-Xylenes	RC1500064-10	T	Average RF	100	92.35	ppm	-7.7	<=30
n-Butyl Acetate	RC1500064-10	T	Average RF	50	48.43	ppm	-3.1	<=30
n-Butylbenzene	RC1500064-10	T	Average RF	50	46.79	ppm	-6.4	<=30

00223

Initial Calibration Verification Summary Report

Calibration ID:	RC1500064	**Instrument ID:**	R-MS-12
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500064-10	T	Average RF	50	44.29	ppm	-11.4	<=30
n-Propylbenzene	RC1500064-10	T	Average RF	50	47.20	ppm	-5.6	<=30
o-Xylene	RC1500064-10	T	Average RF	50	46.24	ppm	-7.5	<=30
sec-Butylbenzene	RC1500064-10	T	Average RF	50	46.41	ppm	-7.2	<=30
tert-Amyl Methyl Ether	RC1500064-10	T	Average RF	50	47.81	ppm	-4.4	<=30
tert-Butylbenzene	RC1500064-10	T	Average RF	50	45.74	ppm	-8.5	<=30
trans-1,2-Dichloroethene	RC1500064-10	T	Average RF	50	44.34	ppm	-11.3	<=30
trans-1,3-Dichloropropene	RC1500064-10	T	Average RF	50	46.77	ppm	-6.5	<=30
trans-1,4-Dichloro-2-butene	RC1500064-10	T	Average RF	50	50.67	ppm	1.3	<=30
1,2-Dichloroethane-d4	RC1500064-10	S	Average RF	50	54.74	ppm	9.5	<=30
4-Bromofluorobenzene	RC1500064-10	S	Average RF	50	55.41	ppm	10.8	<=30
Dibromofluoromethane	RC1500064-10	S	Average RF	50	53.92	ppm	7.8	<=30
Toluene-d8	RC1500064-10	S	Average RF	50	54.34	ppm	8.7	<=30

00224

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3698.D
Acq On : 4 Jun 2015 7:15 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:26:41 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.743	168	933266	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1536667	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1464134	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	787899	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	448404	53.92	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.84%				
48) surr1,1,2-dichloroetha...	6.096	65	486270	54.74	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 109.48%				
65) SURR3,Toluene-d8	8.529	98	1973682	54.34	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.68%				
70) SURR2,BFB	11.047	95	764583	55.41	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.213	85	382840	48.08	ppb		99
3) Chloromethane	1.341	50	394228	50.91	ppb		99
4) Vinyl Chloride	1.427	62	459961	47.03	ppb		99
5) Bromomethane	1.683	94	257410	46.36	ppb		96
6) Chloroethane	1.762	64	284816	43.89	ppb		98
7) Freon 21	1.927	67	807103	49.81	ppb		100
8) Trichlorofluoromethane	1.975	101	661246	45.37	ppb		99
9) Diethyl Ether	2.231	59	310478	48.17	ppb		99
10) Freon 123a	2.237	67	493110	47.68	ppb		98
11) Freon 123	2.292	83	532587	44.33	ppb		99
12) Acrolein	2.335	56	62290	92.70	ppb		96
13) 1,1-Diclethene	2.433	96	289205	42.14	ppb		99
14) Freon 113	2.439	101	273446	40.24	ppb		91
15) Acetone	2.494	43	62908	48.09	ppb		88
16) 2-Propanol	2.652	45	256966	989.04	ppb		98
17) Iodomethane	2.573	142	424791	50.52	ppb		99
18) Carbon Disulfide	2.634	76	1124306	51.12	ppb		100
19) Acetonitrile	2.762	40	35673	212.45	ppb		95
20) Allyl Chloride	2.792	76	174659	42.29	ppb	#	89
21) Methyl Acetate	2.829	43	138075	48.47	ppb		92
22) Methylene Chloride	2.920	84	332423	45.57	ppb		95
23) TBA	3.091	59	473610	1022.00	ppb		98
24) Acrylonitrile	3.207	53	356466	239.74	ppb		98
25) Methyl-t-Butyl Ether	3.262	73	858469	48.14	ppb		99
26) trans-1,2-Dichloroethene	3.243	96	340051	44.34	ppb		96
28) 1,1-Diclethane	3.792	63	570408	45.02	ppb		97
29) Vinyl Acetate	3.902	86	63727	41.95	ppb	#	69
30) DIPE	3.944	45	988789	44.89	ppb		99
31) 2-Chloro-1,3-Butadiene	3.926	53	635980	46.12	ppb		97
32) ETBE	4.524	59	974710	44.40	ppb		98
33) 2,2-Dichloropropane	4.706	77	554171	45.91	ppb		99
34) cis-1,2-Dichloroethene	4.719	96	378369	46.28	ppb		93
35) 2-Butanone	4.774	43	92433	53.76	ppb		89
36) Propionitrile	4.871	54	128928	245.60	ppb		97

KP 6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3698.D
Acq On : 4 Jun 2015 7:15 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:26:41 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.139	130	200231	44.30	ppb		89
38) Methacrylonitrile	5.158	67	92857	47.39	ppb	#	84
39) Tetrahydrofuran	5.237	42	58438	49.97	ppb	#	72
40) Chloroform	5.328	83	615555	46.10	ppb		97
41) 1,1,1-Trichloroethane	5.597	97	559402	43.56	ppb		97
42) TAME	6.407	73	915414	47.81	ppb		97
44) Cyclohexane	5.676	41	297117	42.57	ppb		98
46) Carbontetrachloride	5.859	121	145368	43.47	ppb		100
47) 1,1-Dichloropropene	5.871	75	434322	41.07	ppb		95
49) Benzene	6.170	78	1382046	45.38	ppb		97
50) 1,2-Dichloroethane	6.212	62	446747	45.76	ppb		97
51) Iso-Butyl Alcohol	6.212	43	191258	945.46	ppb		97
52) n-Heptane	6.645	43	287285	44.29	ppb		98
53) 1-Butanol	7.121	56	333608	2596.89	ppb		100
54) Trichloroethene	7.084	130	386383	47.00	ppb		96
55) Methylcyclohexane	7.316	55	343445	44.67	ppb		97
56) 1,2-Diclpropane	7.352	63	337861	46.38	ppb		97
57) Dibromomethane	7.493	93	177852	45.33	ppb		94
58) 1,4-Dioxane	7.553	88	52401m	895.30	ppb		
59) Methyl Methacrylate	7.578	69	179285	50.46	ppb		99
60) Bromodichloromethane	7.712	83	480034	45.67	ppb		99
61) 2-Nitropropane	7.986	41	138965	102.24	ppb		99
62) 2-Chloroethylvinyl Ether	8.108	63	183743	54.65	ppb		92
63) cis-1,3-Dichloropropene	8.242	75	563027	46.01	ppb		97
64) 4-Methyl-2-pentanone	8.444	43	225563	54.32	ppb		94
66) Toluene	8.602	91	1597639	45.73	ppb		100
67) trans-1,3-Dichloropropene	8.864	75	489796	46.77	ppb		99
68) Ethyl Methacrylate	8.998	69	386457	50.85	ppb		99
69) 1,1,2-Trichloroethane	9.047	97	261832	46.47	ppb		96
72) Tetrachloroethene	9.181	164	290647	43.28	ppb		98
73) 2-Hexanone	9.328	43	157535	53.15	ppb		98
74) 1,3-Dichloropropane	9.212	76	455072	47.33	ppb		99
75) Dibromochloromethane	9.437	129	342627	47.34	ppb		97
76) N-Butyl Acetate	9.480	43	377056	48.43	ppb		98
77) 1,2-Dibromoethane	9.529	107	261923	46.14	ppb		100
78) Chlorobenzene	10.016	112	1079277	45.28	ppb		98
79) 3-CBTF	10.035	180	492039	43.79	ppb		98
80) 4-CBTF	10.083	180	442250	43.45	ppb		98
81) 1,1,1,2-Tetrachloroethane	10.102	131	376229	46.93	ppb		97
82) Ethylbenzene	10.132	106	524339	40.64	ppb		99
83) (m+p)Xylene	10.242	106	1452189	92.35	ppb		97
84) o-Xylene	10.596	106	704133	46.24	ppb		99
85) Styrene	10.608	104	1226316	46.92	ppb		98
87) Bromoform	10.760	173	195054	48.36	ppb		95
88) 2-CBTF	10.839	180	493795	43.20	ppb		93
89) Isopropylbenzene	10.925	105	1698367	46.43	ppb		100
90) Cyclohexanone	10.986	55	227479	1049.18	ppb		88
91) trans-1,4-Dichloro-2-B...	11.230	53	99704	50.67	ppb		98
92) 1,1,2,2-Tetrachloroethane	11.181	83	310744	46.67	ppb		97
93) Bromobenzene	11.175	156	424753	46.57	ppb		96
94) 1,2,3-Trichloropropane	11.211	110	94956	46.88	ppb		93

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3698.D
Acq On : 4 Jun 2015 7:15 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:26:41 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration

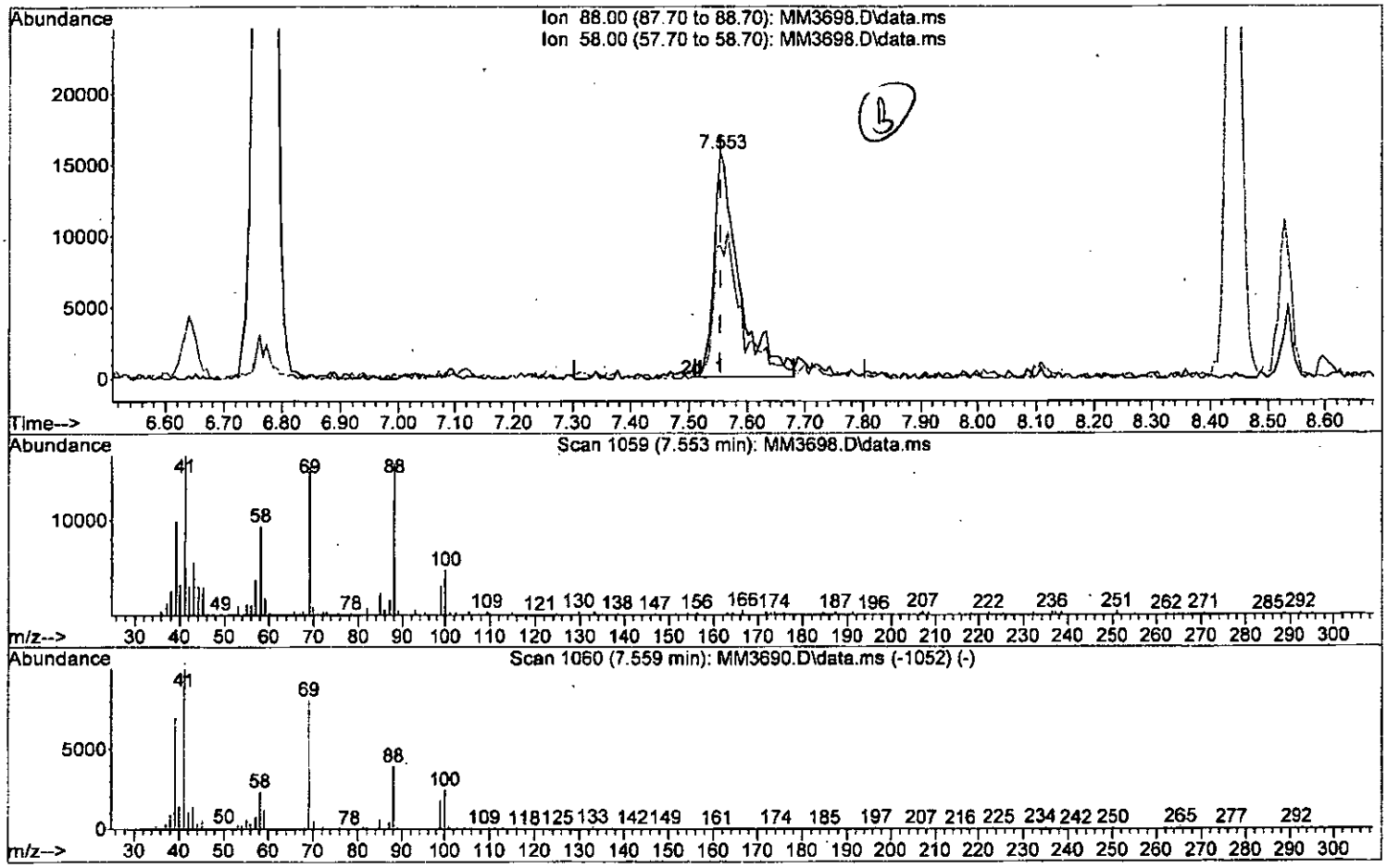
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.278	91	1942967	47.20	ppb	99
96)	2-Chlorotoluene	11.345	91	1208163	47.62	ppb	98
97)	3-Chlorotoluene	11.394	91	1237573	46.04	ppb	99
98)	4-Chlorotoluene	11.437	91	1502715	47.91	ppb	99
99)	1,3,5-Trimethylbenzene	11.431	105	1475780	47.09	ppb	99
100)	tert-Butylbenzene	11.699	119	1154884	45.74	ppb	98
101)	1,2,4-Trimethylbenzene	11.742	105	1489706	47.09	ppb	99
102)	3,4-DCBTF	11.803	214	332530	44.44	ppb	95
103)	sec-Butylbenzene	11.882	105	1606478	46.41	ppb	99
104)	p-Isopropyltoluene	12.004	119	1434444	48.72	ppb	98
105)	1,3-Dclbenz	11.967	146	818372	46.16	ppb	98
106)	1,4-Dclbenz	12.040	146	851993	46.14	ppb	99
107)	2,4-DCBTF	12.089	214	299167	45.31	ppb	99
108)	2,5-DCBTF	12.126	214	329380	44.36	ppb	96
109)	n-Butylbenzene	12.333	91	1236427	46.79	ppb	99
110)	1,2-Dclbenz	12.339	146	774406	46.73	ppb	97
111)	1,2-Dibromo-3-chloropr...	12.955	157	62318	46.25	ppb	92
112)	Trielution Dichlorotol...	13.077	125	1910671	136.91	ppb	99
113)	1,3,5 Trichlorobenzene	13.132	180	486687	46.83	ppb	99
114)	Coelution Dichlorotoluene	13.406	125	1412953	94.50	ppb	99
115)	1,2,4-Tcbenzene	13.613	180	454020	47.70	ppb	99
116)	Hexachlorobt	13.747	225	155599	42.46	ppb	96
117)	Naphthalen	13.802	128	959616	48.04	ppb	99
118)	1,2,3-Tclbenzene	13.991	180	368809	47.39	ppb	98
119)	2,4,5-Trichlorotolene	14.570	159	279114	44.86	ppb	95
120)	2,3,6-Trichlorotoluene	14.656	159	251085	46.93	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3698.D
Acq On : 4 Jun 2015 7:15 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 10:27:43 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 10:26:54 2015
Response via : Initial Calibration



TIC: MM3698.D\data.ms

(58) 1,4-Dioxane

7.553min (-0.000) 799.64 ppb

response 46802

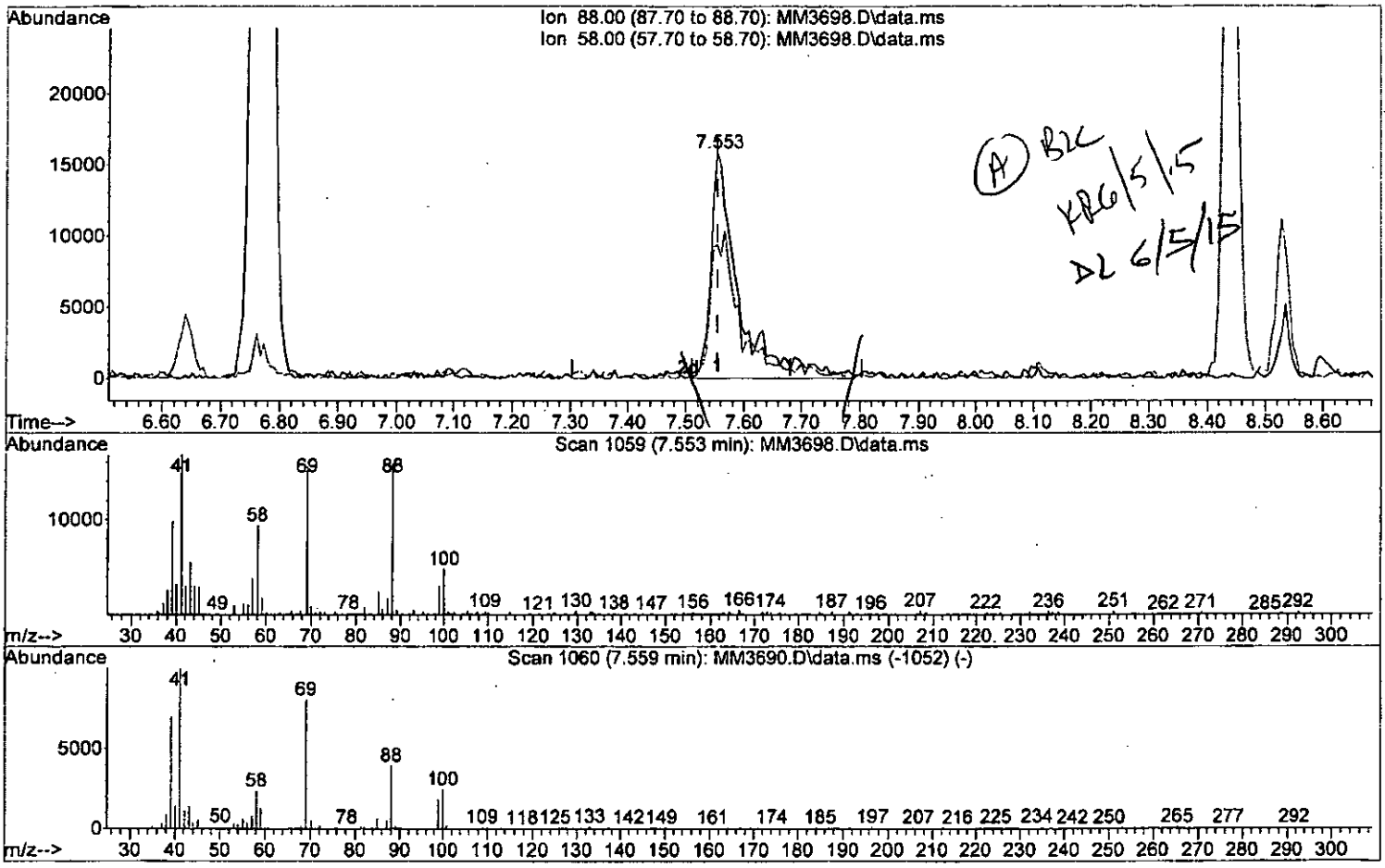
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	59.05
0.00	0.00	0.00
0.00	0.00	0.00

00228

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3698.D
Acq On : 4 Jun 2015 7:15 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 10:27:43 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 10:26:54 2015
Response via : Initial Calibration



(A) B2C KPG 6/5/15 DL 6/5/15

TIC: MM3698.D\data.ms

(58) 1,4-Dioxane

7.553min (-0.000) 895.30 ppb m

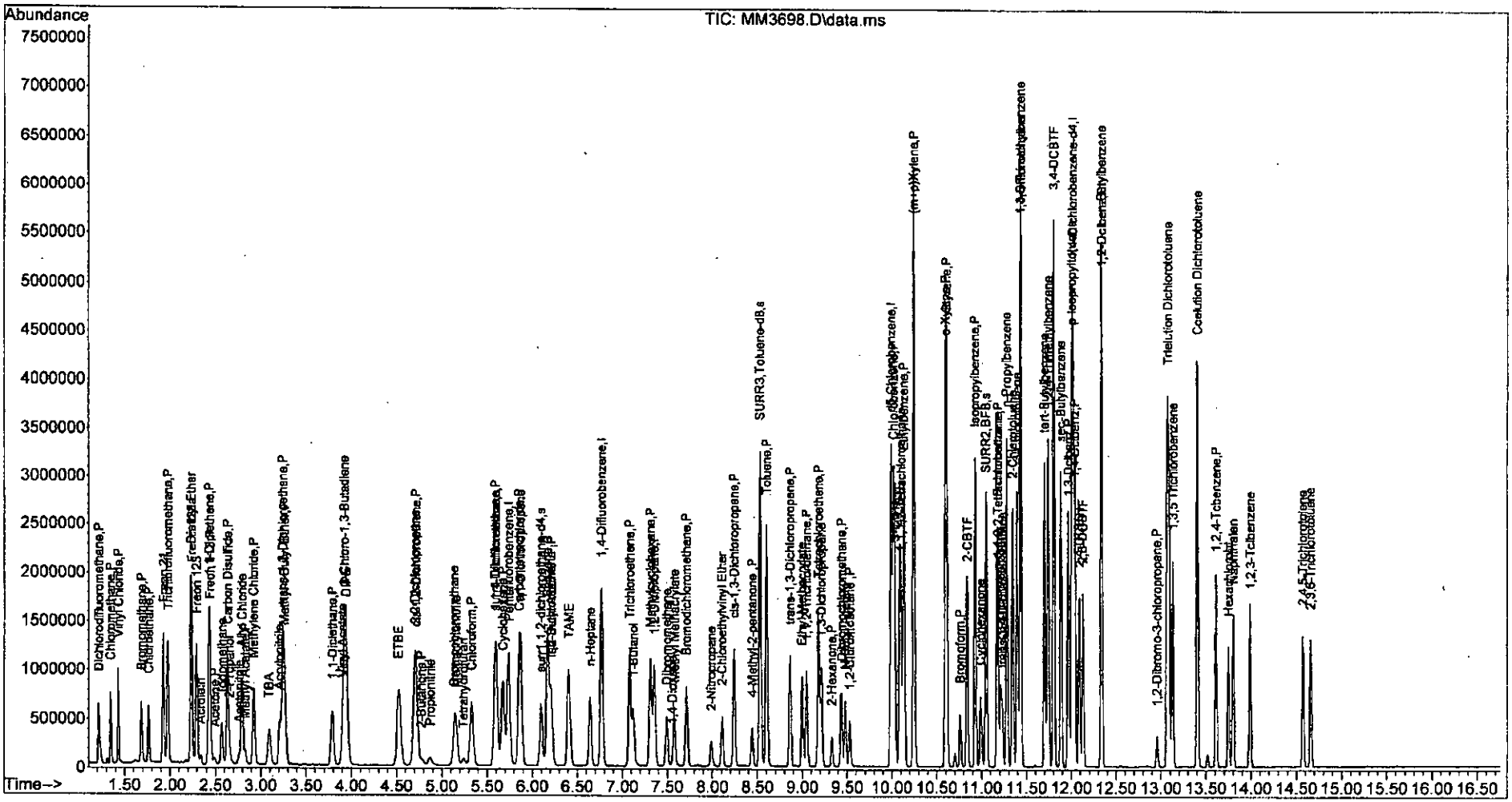
response 52401

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	59.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3698.D
Acq On : 4 Jun 2015 7:15 pm
Operator : K.Ruest
Sample : ICV Inst : MSVOA-12
Misc : 8260 WATER ICAL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:26:41 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:28:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

KP 7/8/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	99	0.00
2	P	Dichlorodifluoromethane	0.4266	0.4046	5.2	91	0.00
3	P	Chloromethane	0.4149	0.3503	15.6	85	0.00
4	P	Vinyl Chloride	0.5240	0.4862	7.2	93	0.00
5	P	Bromomethane	0.2975	0.1827	38.6#	65	0.00 ⊗
6	P	Chloroethane	0.3477	0.3020	13.1	89	0.00
7		Freon 21	0.8681	0.7914	8.8	91	0.00
8	P	Trichlorofluoromethane	0.7809	0.7102	9.1	90	0.00
9		Diethyl Ether	0.3453	0.3082	10.7	89	0.00
10		Freon 123a	0.5540	0.5041	9.0	93	0.00
11		Freon 123	0.6437	0.6002	6.8	95	0.00
12		Acrolein	0.0360	0.0288	20.0	73	0.00
13	P	1,1-Diclethene	0.3677	0.3510	4.5	99	0.00
14	P	Freon 113	0.3640	0.3609	0.9	103	0.00
15	P	Acetone	0.0701	0.0582	17.0	89	0.00
16		2-Propanol	0.0139	0.0111	20.1#	76	0.00
17		Iodomethane	0.3852	0.3473	22.3 ~~9.8~~	77	0.00
18	P	Carbon Disulfide	1.1784	1.1851	-0.6	105	0.00
19		Acetonitrile	0.0090	0.0086	4.4	103	0.00
20		Allyl Chloride	0.2213	0.1954	11.7	89	0.00
21	P	Methyl Acetate	0.1526	0.1480	3.0	95	0.00
22	P	Methylene Chloride	0.3908	0.3803	2.7	99	0.00
23		TBA	0.0248	0.0210	15.3	78	0.00
24		Acrylonitrile	0.0797	0.0740	7.2	92	0.00
25	P	Methyl-t-Butyl Ether	0.9554	0.8934	6.5	90	0.00
26	P	trans-1,2-Dichloroethene	0.4109	0.3992	2.8	100	0.00
27		Halothane	0.0000	0.0000	0.0	135	0.06
28	P	1,1-Diclethane	0.6788	0.6507	4.1	98	0.00
29		Vinyl Acetate	0.0814	0.0705	13.4	87	-0.01
30		DIPE	1.1802	1.1620	1.5	100	0.00
31		2-Chloro-1,3-Butadiene	0.7387	0.7403	-0.2	102	0.00
32		ETBE	1.1762	1.0848	7.8	94	-0.01
33		2,2-Dichloropropane	0.6467	0.5993	7.3	91	0.00
34	P	cis-1,2-Dichloroethene	0.4380	0.4428	-1.1	102	0.00
35	P	2-Butanone	0.0921	0.0850#	7.7	87	-0.01
36		Propionitrile	0.0281	0.0264	6.0	87	0.00
37		Bromochloromethane	0.2421	0.2268	6.3	94	0.00
38		Methacrylonitrile	0.1050	0.0957	8.9	94	0.00
39		Tetrahydrofuran	0.0626	0.0563	10.1	95	0.00
40	P	Chloroform	0.7154	0.6929	3.1	101	0.00
41	P	1,1,1-Trichloroethane	0.6880	0.6206	9.8	94	0.00
42		TAME	1.0258	0.9869	3.8	95	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	99	0.00
44	P	Cyclohexane	0.2271	0.2156	5.1	98	0.00
45	s	surr4,Dibrflmethane	0.2706	0.2833	-4.7	96	0.00
46	P	Carbontetrachloride	0.1088	0.0952	12.5	90	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:28:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47		1,1-Dichloropropene	0.3441	0.3208	6.8	98	0.00
48	s	surr1,1,2-dichloroethane-d4	0.2890	0.2887	0.1	91	0.00
49	P	Benzene	0.9909	0.9778	1.3	101	0.00
50	P	1,2-Dichloroethane	0.3177	0.2820	11.2	92	0.00
51		Iso-Butyl Alcohol	0.0066	0.0051	22.7#	78	0.00
52		n-Heptane	0.2111	0.2070	1.9	100	0.00
53		1-Butanol	0.0042	0.0035	16.7	80	0.00
54	P	Trichloroethene	0.2675	0.2637	1.4	99	0.00
55	P	Methylcyclohexane	0.2502	0.2627	-5.0	104	0.00
56	P	1,2-Diclpropane	0.2370	0.2272	4.1	98	0.00
57		Dibromomethane	0.1277	0.1142	10.6	93	0.00
58		1,4-Dioxane	0.0019	0.0014	26.3#	81	0.00
59		Methyl Methacrylate	0.1156	0.1035	10.5	87	0.00
60	P	Bromodichloromethane	0.3420	0.3070	10.2	93	0.00
61		2-Nitropropane	0.0442	0.0257	41.9#	56	0.00
62		2-Chloroethylvinyl Ether	0.1094	0.1042	4.8	90	0.00
63	P	cis-1,3-Dichloropropene	0.3982	0.3596	9.7	91	0.00
64	P	4-Methyl-2-pentanone	0.1351	0.1283	5.0	90	0.00
65	s	SURR3,Toluene-d8	1.1817	1.2770	-8.1	100	0.00
66	P	Toluene	1.1367	1.1336	0.3	101	0.00
67	P	trans-1,3-Dichloropropene	0.3408	0.3034	11.0	88	0.00
68		Ethyl Methacrylate	0.2473	0.2247	9.1	89	0.00
69	P	1,1,2-Trichloroethane	0.1833	0.1778	3.0	99	0.00
70	s	SURR2,BFB	0.4490	0.4755	-5.9	95	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	101	0.00
72	P	Tetrachloroethene	0.2293	0.2162	5.7	102	0.00
73	P	2-Hexanone	0.1012	0.0894	11.7	83	0.00
74		1,3-Dichloropropane	0.3283	0.3257	0.8	95	0.00
75	P	Dibromochloromethane	0.2472	0.2201	11.0	88	0.00
76		N-Butyl Acetate	0.2659	0.2322	12.7	85	0.00
77	P	1,2-Dibromoethane	0.1939	0.1826	5.8	94	0.00
78	P	Chlorobenzene	0.8139	0.7616	6.4	95	0.00
79		3-CBTF	0.3837	0.3972	-3.5	108	0.00
80		4-CBTF	0.3476	0.3571	-2.7	108	0.00
81		1,1,1,2-Tetrachloroethane	0.2738	0.2558	6.6	95	0.00
82	P	Ethylbenzene	0.4406	0.4253	3.5	98	0.00
83	P	(m+p)Xylene	0.5370	0.5172	3.7	96	0.00
84	P	o-Xylene	0.5200	0.4969	4.4	96	0.00
85	P	Styrene	0.8926	0.8421	5.7	94	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	99	0.00
87	P	Bromoform	0.2560	0.2155	15.8	82	0.00
88		2-CBTF	0.7253	0.7043	2.9	107	0.00
89	P	Isopropylbenzene	2.3212	2.2778	1.9	99	0.00
90		Cyclohexanone	0.0138	0.0187	-35.5#	127	0.00
91		trans-1,4-Dichloro-2-Butene	0.1249	0.0896	28.3#	71	0.00

00232

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:28:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92	P	1,1,2,2-Tetrachloroethane	0.4225	0.3967	6.1	94	0.00
93		Bromobenzene	0.5788	0.5514	4.7	96	0.00
94		1,2,3-Trichloropropane	0.1286	0.1191	7.4	96	0.00
95		n-Propylbenzene	2.6124	2.6305	-0.7	99	0.00
96		2-Chlorotoluene	1.6100	1.5970	0.8	98	0.00
97		3-Chlorotoluene	1.7057	1.6803	1.5	103	0.00
98		4-Chlorotoluene	1.9904	1.9305	3.0	96	0.00
99		1,3,5-Trimethylbenzene	1.9889	1.9191	3.5	96	0.00
100		tert-Butylbenzene	1.6024	1.5511	3.2	99	0.00
101		1,2,4-Trimethylbenzene	2.0077	1.9351	3.6	97	0.00
102		3,4-DCBTF	0.4749	0.4895	-3.1	109	0.00
103		sec-Butylbenzene	2.1969	2.2026	-0.3	100	0.00
104		p-Isopropyltoluene	1.8686	1.8668	0.1	98	0.00
105	P	1,3-Dclbenz	1.1251	1.1020	2.1	99	0.00
106	P	1,4-Dclbenz	1.1719	1.1162	4.8	97	0.00
107		2,4-DCBTF	0.4190	0.4474	-6.8	113	0.00
108		2,5-DCBTF	0.4712	0.4970	-5.5	110	0.00
109		n-Butylbenzene	1.6769	1.6421	2.1	98	0.00
110	P	1,2-Dclbenz	1.0516	1.0077	4.2	96	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0855	0.0728	14.9	84	0.00
112		Trielution Dichlorotoluene	0.8856	0.8481	4.2	100	0.00
113		1,3,5 Trichlorobenzene	0.6596	0.6797	-3.0	106	0.00
114		Coelution Dichlorotoluene	0.9488	0.9129	3.8	100	0.00
115	P	1,2,4-Tcbenzene	0.6041	0.5845	3.2	97	0.00
116		Hexachlorobt	0.2326	0.2122	8.8	97	0.00
117		Naphthalen	1.2677	1.1382	10.2	86	0.00
118		1,2,3-Tclbenzene	0.4939	0.4730	4.2	94	0.00
119		2,4,5-Trichlorotolene	0.3948	0.3207	18.8	86	0.00
120		2,3,6-Trichlorotoluene	0.3395	0.2775	18.3	83	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

00234

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV LQ1507515-02 Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:28:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	932964	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1555393	50.00	ppb		0.00
71) d5-Chlorobenzene	9.986	117	1470668	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	802545	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.597	113	440676	52.36	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.72%				
48) surr1,1,2-dichloroetha...	6.096	65	448984	49.94	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.88%				
65) SURR3,Toluene-d8	8.529	98	1986195	54.03	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.06%				
70) SURR2,BFB	11.053	95	739626	52.95	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	377492	47.42	ppb		98
3) Chloromethane	1.335	50	326817	42.22	ppb		99
4) Vinyl Chloride	1.427	62	453577	46.39	ppb		100
5) Bromomethane	1.677	94	170407	30.70	ppb		93
6) Chloroethane	1.762	64	281755	43.43	ppb		96
7) Freon 21	1.920	67	738357	45.59	ppb		100
8) Trichlorofluoromethane	1.969	101	662631	45.48	ppb		98
9) Diethyl Ether	2.225	59	287498	44.62	ppb		99
10) Freon 123a	2.231	67	470341	45.50	ppb		96
11) Freon 123	2.286	83	559959	46.62	ppb		97
12) Acrolein	2.335	56	134351	200.01	ppb		95
13) 1,1-Diclethene	2.426	96	327516	47.74	ppb		88
14) Freon 113	2.433	101	336669	49.56	ppb		92
15) Acetone	2.481	43	54342	41.55	ppb		94
16) 2-Propanol	2.646	45	206467	794.93	ppb		88
17) Iodomethane	2.567	142	324039	38.84	ppb		93
18) Carbon Disulfide	2.628	76	1105677	50.29	ppb		99
19) Acetonitrile	2.762	40	40333m	240.28	ppb		
20) Allyl Chloride	2.786	76	182341	44.16	ppb	#	89
21) Methyl Acetate	2.823	43	138088	48.49	ppb		91
22) Methylene Chloride	2.920	84	354807	48.66	ppb		94
23) TBA	3.091	59	392717	847.72	ppb		94
24) Acrylonitrile	3.201	53	345182	232.22	ppb		98
25) Methyl-t-Butyl Ether	3.262	73	833536	46.76	ppb		98
26) trans-1,2-Dichloroethene	3.237	96	372482	48.58	ppb		93
28) 1,1-Diclethane	3.786	63	607110	47.93	ppb		95
29) Vinyl Acetate	3.896	86	65811	43.33	ppb		98
30) DIPE	3.938	45	1084141	49.23	ppb		96
31) 2-Chloro-1,3-Butadiene	3.926	53	690695	50.11	ppb		95
32) ETBE	4.517	59	1012058	46.11	ppb		97
33) 2,2-Dichloropropane	4.700	77	559111	46.33	ppb		94
34) cis-1,2-Dichloroethene	4.713	96	413152	50.55	ppb		98
35) 2-Butanone	4.767	43	79319	46.15	ppb		92
36) Propionitrile	4.865	54	123311	234.97	ppb		92

KP 7/8/15

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:28:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.145	130	211566	46.83	ppb		96
38) Methacrylonitrile	5.164	67	89301	45.59	ppb	#	66
39) Tetrahydrofuran	5.237	42	52492	44.90	ppb		98
40) Chloroform	5.322	83	646488	48.43	ppb		97
41) 1,1,1-Trichloroethane	5.597	97	579001	45.10	ppb		95
42) TAME	6.401	73	920736	48.10	ppb		96
44) Cyclohexane	5.676	41	335394	47.48	ppb		98
46) Carbontetrachloride	5.853	121	148025	43.73	ppb		85
47) 1,1-Dichloropropene	5.865	75	498983	46.62	ppb		95
49) Benzene	6.170	78	1520807	49.34	ppb		98
50) 1,2-Dichloroethane	6.206	62	438633	44.39	ppb		97
51) Iso-Butyl Alcohol	6.200	43	158895	776.02	ppb		98
52) n-Heptane	6.645	43	322036	49.05	ppb		99
53) 1-Butanol	7.121	56	271150	2085.29	ppb		100
54) Trichloroethene	7.078	130	410081	49.28	ppb		99
55) Methylcyclohexane	7.316	55	408592	52.50	ppb		92
56) 1,2-Diclpropane	7.352	63	353355	47.92	ppb		100
57) Dibromomethane	7.492	93	177636	44.73	ppb		95
58) 1,4-Dioxane	7.547	88	44161	745.43	ppb		87
59) Methyl Methacrylate	7.572	69	160934	44.75	ppb		93
60) Bromodichloromethane	7.712	83	477432	44.87	ppb		99
61) 2-Nitropropane	7.986	41	79817	58.01	ppb		98
62) 2-Chloroethylvinyl Ether	8.108	63	162056	47.62	ppb		98
63) cis-1,3-Dichloropropene	8.242	75	559280	45.15	ppb		98
64) 4-Methyl-2-pentanone	8.437	43	199630	47.49	ppb		95
66) Toluene	8.602	91	1763133	49.86	ppb		99
67) trans-1,3-Dichloropropene	8.864	75	471912	44.52	ppb		98
68) Ethyl Methacrylate	8.998	69	349451	45.42	ppb		91
69) 1,1,2-Trichloroethane	9.047	97	276550	48.49	ppb		96
72) Tetrachloroethene	9.181	164	317913	47.13	ppb		99
73) 2-Hexanone	9.328	43	131487	44.16	ppb		94
74) 1,3-Dichloropropane	9.212	76	479017	49.60	ppb		97
75) Dibromochloromethane	9.437	129	323648	44.52	ppb		99
76) N-Butyl Acetate	9.480	43	341541	43.68	ppb		99
77) 1,2-Dibromoethane	9.529	107	268565	47.09	ppb		93
78) Chlorobenzene	10.016	112	1120038	46.79	ppb		98
79) 3-CBTF	10.029	180	584105	51.75	ppb		93
80) 4-CBTF	10.083	180	525176	51.37	ppb		99
81) 1,1,1,2-Tetrachloroethane	10.102	131	376220	46.72	ppb		92
82) Ethylbenzene	10.132	106	625500	48.27	ppb		97
83) (m+p)Xylene	10.242	106	1521404	96.32	ppb		97
84) o-Xylene	10.596	106	730771	47.78	ppb		95
85) Styrene	10.608	104	1238439	47.17	ppb		99
87) Bromoform	10.760	173	172981	42.10	ppb		97
88) 2-CBTF	10.839	180	565200	48.55	ppb		92
89) Isopropylbenzene	10.925	105	1828068	49.07	ppb		99
90) Cyclohexanone	10.992	55	300588	1361.07	ppb		88
91) trans-1,4-Dichloro-2-B...	11.230	53	71875	35.86	ppb		98
92) 1,1,2,2-Tetrachloroethane	11.181	83	318333	46.94	ppb		94
93) Bromobenzene	11.175	156	442502	47.63	ppb		94
94) 1,2,3-Trichloropropane	11.211	110	95560	46.31	ppb	#	86

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:28:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

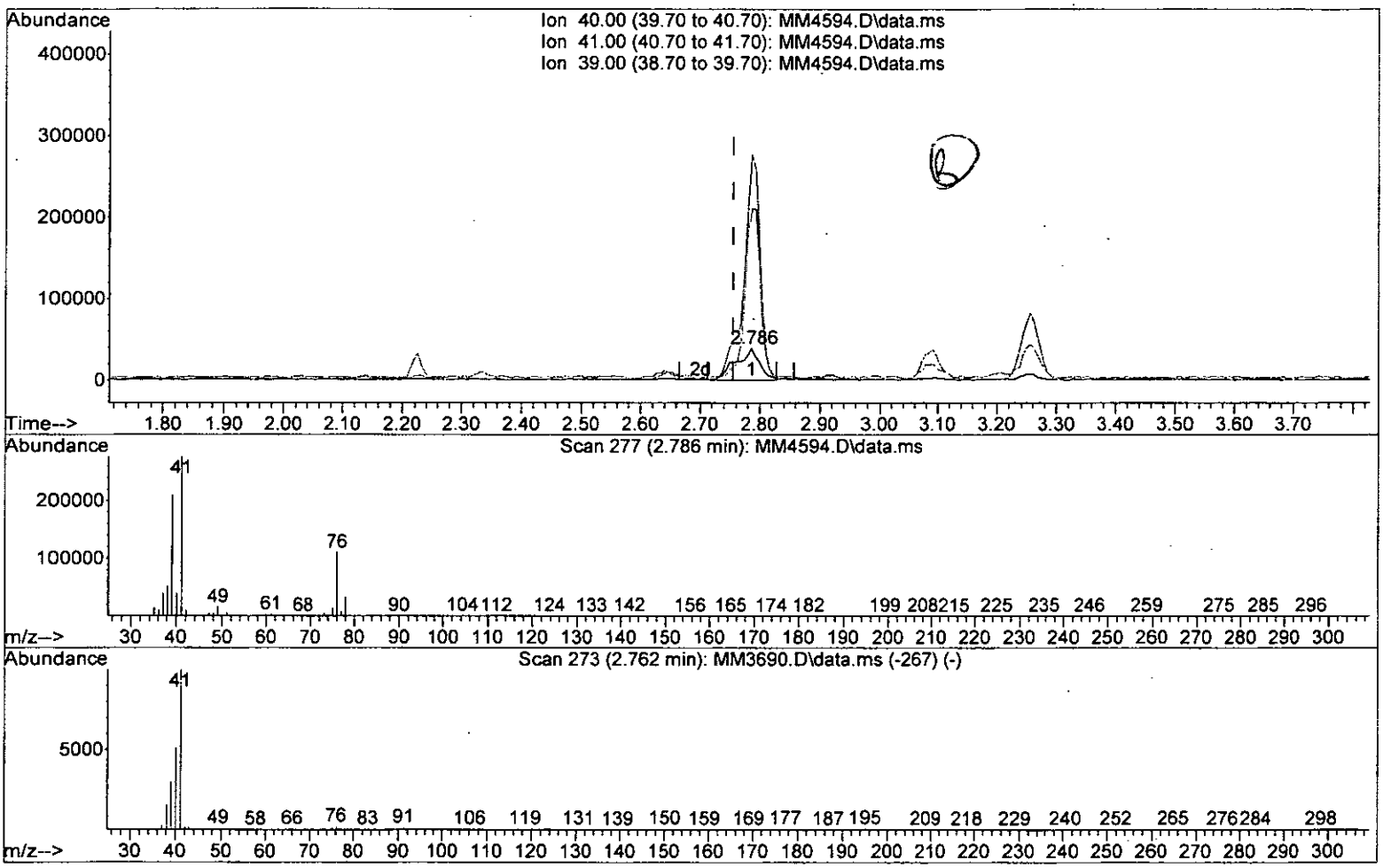
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.278	91	2111106	50.35	ppb	99
96)	2-Chlorotoluene	11.345	91	1281684	49.60	ppb	99
97)	3-Chlorotoluene	11.394	91	1348491	49.25	ppb	98
98)	4-Chlorotoluene	11.437	91	1549338	48.50	ppb	97
99)	1,3,5-Trimethylbenzene	11.431	105	1540180	48.24	ppb	99
100)	tert-Butylbenzene	11.699	119	1244853	48.40	ppb	99
101)	1,2,4-Trimethylbenzene	11.742	105	1553008	48.19	ppb	100
102)	3,4-DCBTF	11.803	214	392830	51.54	ppb	96
103)	sec-Butylbenzene	11.882	105	1767661	50.13	ppb	98
104)	p-Isopropyltoluene	12.004	119	1498206	49.95	ppb	98
105)	1,3-Dclbenz	11.967	146	884429	48.98	ppb	97
106)	1,4-Dclbenz	12.040	146	895776	47.62	ppb	100
107)	2,4-DCBTF	12.089	214	359081	53.39	ppb	96
108)	2,5-DCBTF	12.126	214	398883	52.75	ppb	99
109)	n-Butylbenzene	12.333	91	1317876	48.96	ppb	99
110)	1,2-Dclbenz	12.339	146	808746	47.91	ppb	99
111)	1,2-Dibromo-3-chloropr...	12.961	157	58460	42.59	ppb	88
112)	Trielution Dichlorotol...	13.083	125	2042022	143.65	ppb	99
113)	1,3,5 Trichlorobenzene	13.132	180	545529	51.53	ppb	97
114)	Coelution Dichlorotoluene	13.406	125	1465314	96.22	ppb	97
115)	1,2,4-Tcbenzene	13.613	180	469073	48.38	ppb	98
116)	Hexachlorobt	13.747	225	170271	45.61	ppb	97
117)	Naphthalen	13.802	128	913447	44.89	ppb	98
118)	1,2,3-Tclbenzene	13.991	180	379591	47.89	ppb	99
119)	2,4,5-Trichlorotolene	14.576	159	257393	40.62	ppb	92
120)	2,3,6-Trichlorotoluene	14.662	159	222684	40.86	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00236

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:26:12 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4594.D\data.ms

(19) Acetonitrile

2.786min (+0.031) 624.79 ppb

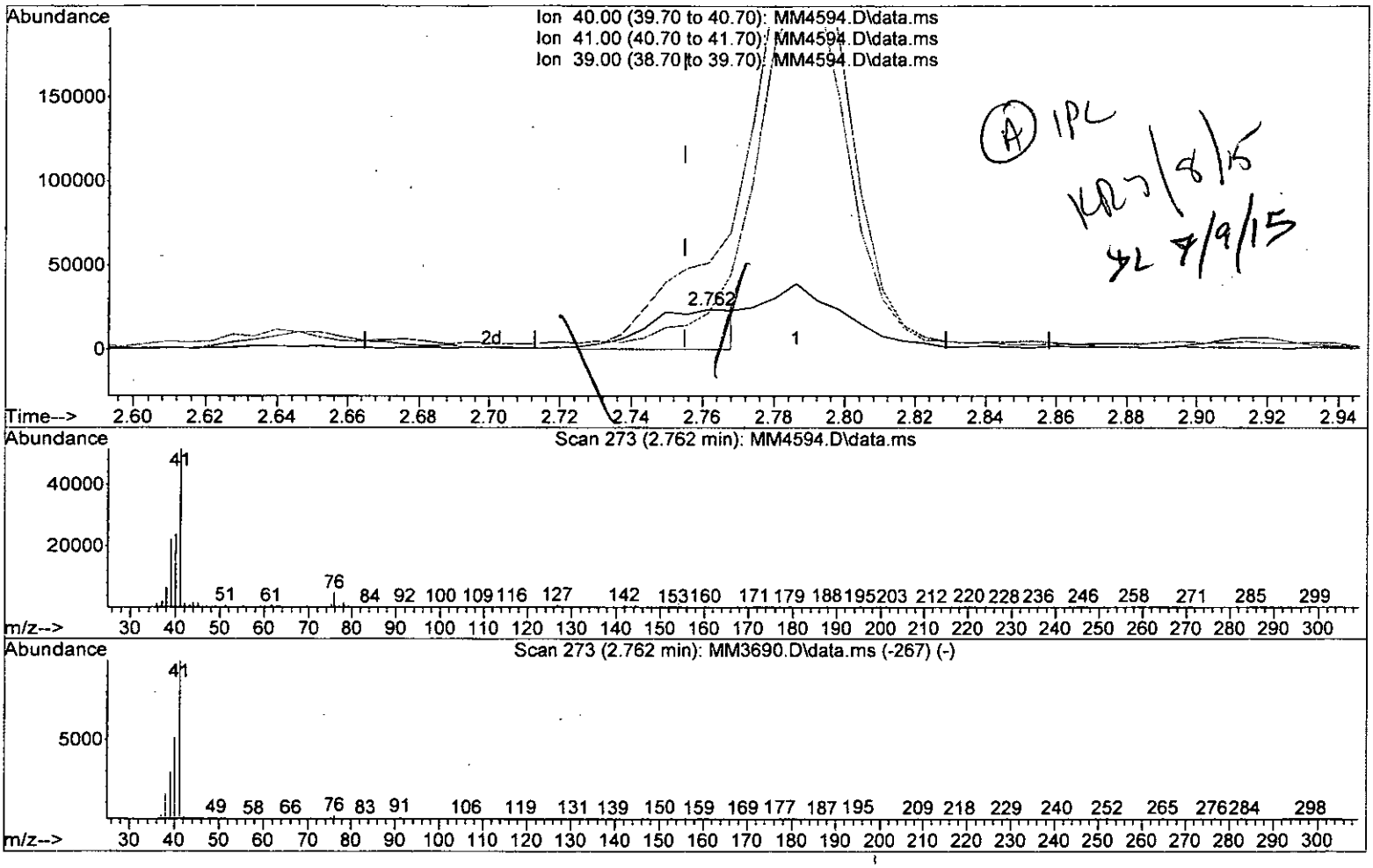
response 104877

Ion	Exp%	Act%
40.00	100	100
41.00	194.30	706.94#
39.00	58.40	536.06#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:26:12 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



A IPC KR 7/8/15 YL 7/9/15

TIC: MM4594.D\data.ms

(19) Acetonitrile

2.762min (+0.007) 240.28 ppb m

response 40333

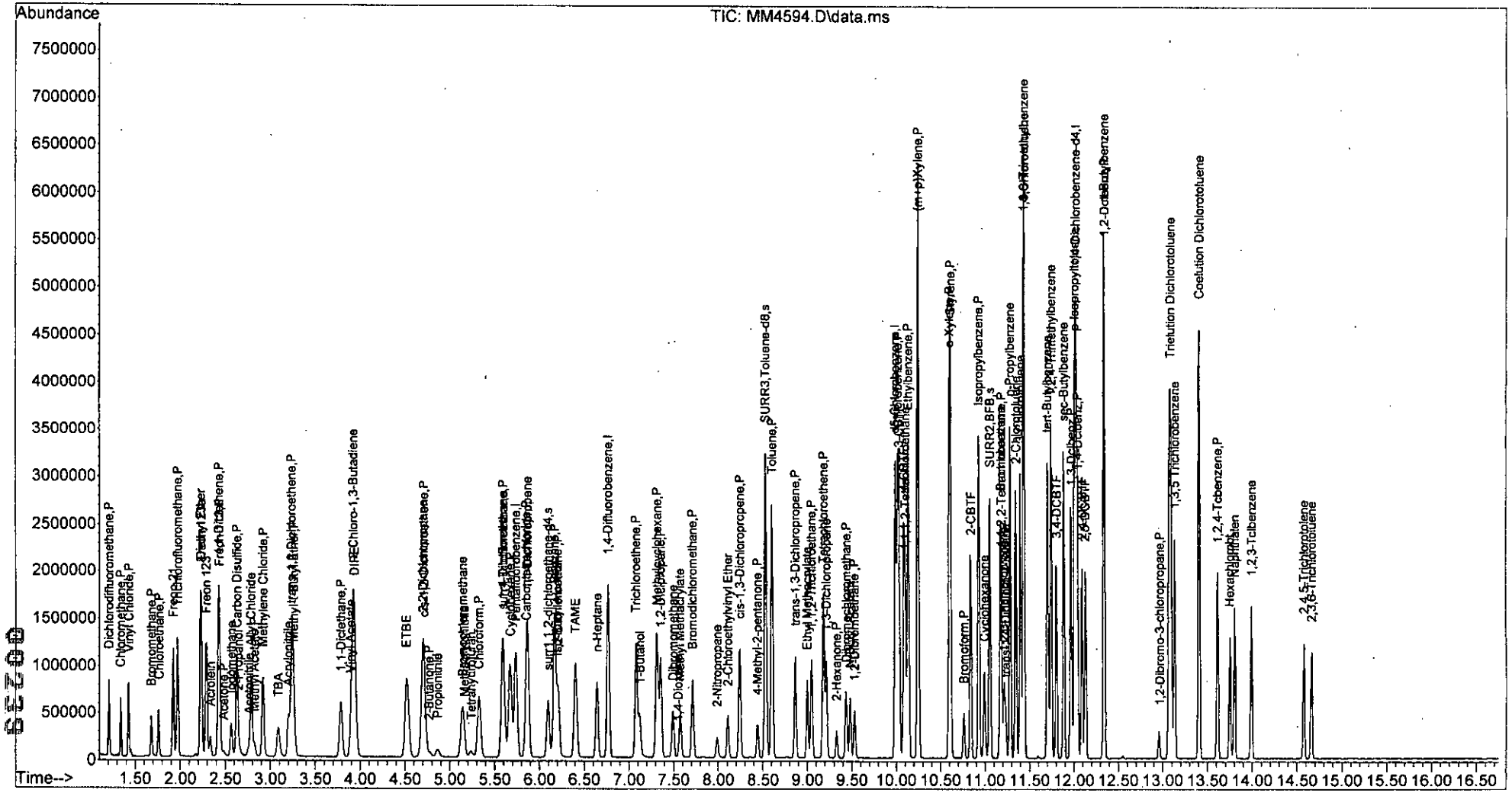
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	216.49#
39.00	58.40	92.65#
0.00	0.00	0.00

00238

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4594.D
Acq On : 8 Jul 2015 11:10 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 11:28:10 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



ALS Environmental

VOLATILE ORGANICS
RAW QC DATA

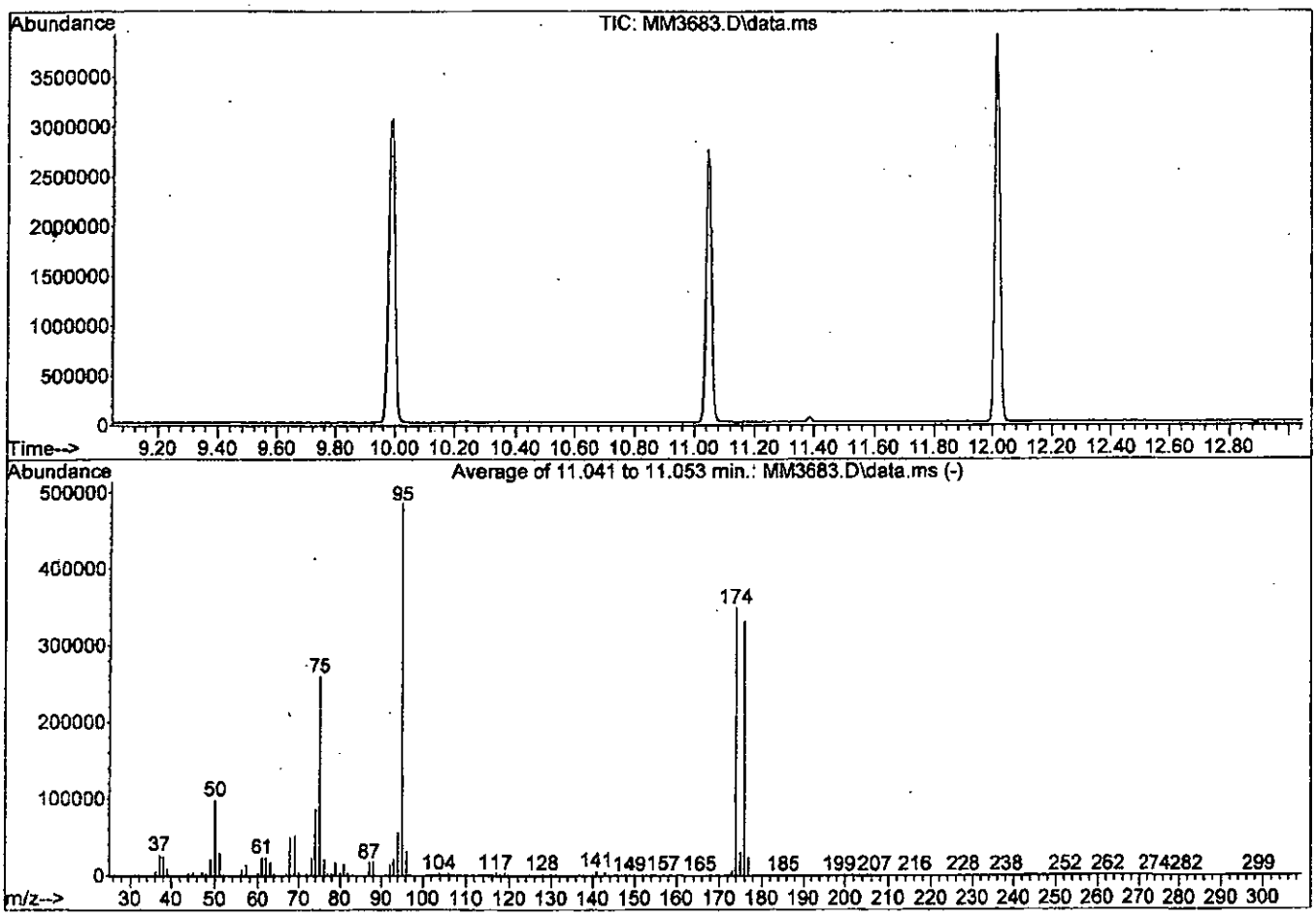
ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3683.D
Acq On : 4 Jun 2015 11:38 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

KR 6/5/15

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Fri Jun 05 10:26:54 2015



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	98344	PASS
75	95	30	60	53.0	259072	PASS
95	95	100	100	100.0	488420	PASS
96	95	5	9	6.4	31464	PASS
173	174	0.00	2	1.5	5092	PASS
174	95	50	120	71.3	348224	PASS
175	174	5	9	8.7	30371	PASS
176	174	95	101	95.1	331072	PASS
177	176	5	9	6.8	22661	PASS

00241

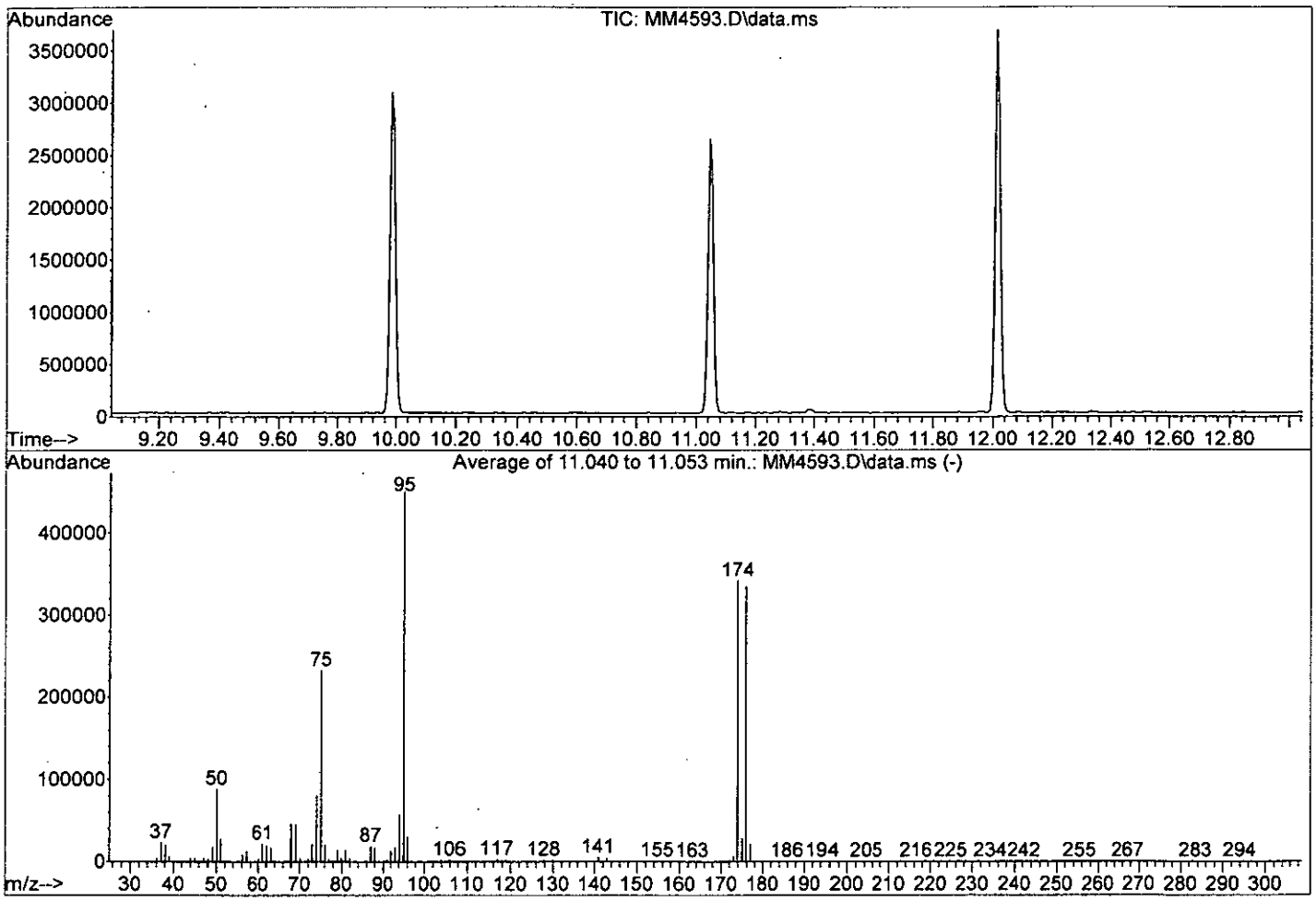
BFB

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4593.D
Acq On : 8 Jul 2015 10:39 am
Operator : K.Ruest
Sample : TUNE RQ1507515-01 Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Thu Jul 02 09:03:54 2015

KR 7/8/15



AutoFind: Scans 1631, 1632, 1633; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	88147	PASS
75	95	30	60	51.6	232064	PASS
95	95	100	100	100.0	450114	PASS
96	95	5	9	6.7	30064	PASS
173	174	0.00	2	1.7	5698	PASS
174	95	50	120	75.8	341096	PASS
175	174	5	9	8.2	28059	PASS
176	174	95	101	97.9	333874	PASS
177	176	5	9	6.3	21052	PASS

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 12:42
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1507515-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**0.44**	J	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**0.25**	J	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	**0.30**	J	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 12:42
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1507515-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**0.76**	J	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.21**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 12:42
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1507515-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4597.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	7/8/15 12:42	
Dibromofluoromethane	109	85-115	7/8/15 12:42	
Toluene-d8	109	85-120	7/8/15 12:42	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 1242

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1507515-04	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4597.D
Acq On : 8 Jul 2015 12:42 pm
Operator : K.Ruest
Sample : VBLK R01507515-04 Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 16:38:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	894697	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.767	114	1472271	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1403540	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	721933	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.591	113	432835	54.33	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.66%				
48) surr1,1,2-dichloroetha...	6.097	65	438682	51.55	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.10%				
65) SURR3,Toluene-d8	8.529	98	1901305	54.64	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.28%				
70) SURR2,BFB	11.047	95	673943	50.98	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.96%				
Target Compounds							Qvalue
54) Bromomethane	1.677	94	1601m	0.30	ppb		
106) 1,4-Dclbenz	12.040	146	4245	0.25	ppb		88
112) Trielution Dichlorotol...	13.071	125	6571	0.51	ppb		94
113) 1,3,5 Trichlorobenzene	13.132	180	2871	0.30	ppb	#	73
114) Coelution Dichlorotoluene	13.400	125	5555	0.41	ppb	#	76
115) 1,2,4-Tcbenzene	13.607	180	3843	0.44	ppb	#	80
116) Hexachlorobt	13.754	225	2567	0.76	ppb		88
117) Naphthalen	13.802	128	3809	0.21	ppb		75
118) 1,2,3-Tclbenzene	13.991	180	3079	0.43	ppb	#	67
119) 2,4,5-Trichlorotolene	14.570	159	6199	1.09	ppb	#	78
120) 2,3,6-Trichlorotoluene	14.656	159	7360	1.50	ppb		89

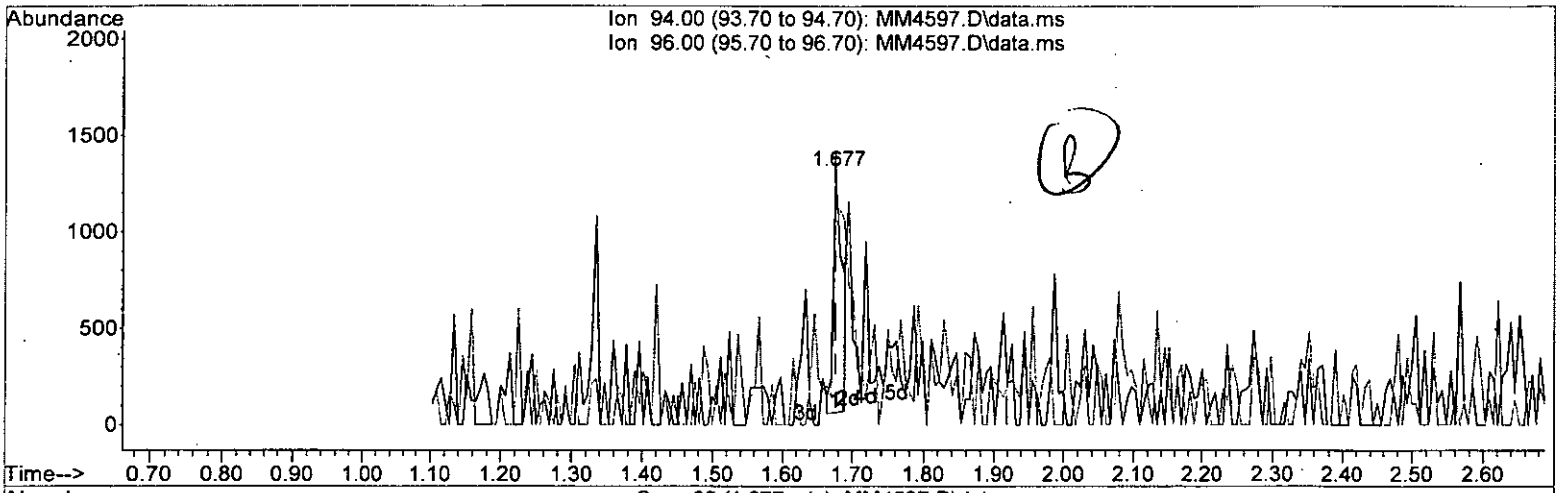
(#) = qualifier out of range (m) = manual integration (+) = signals summed

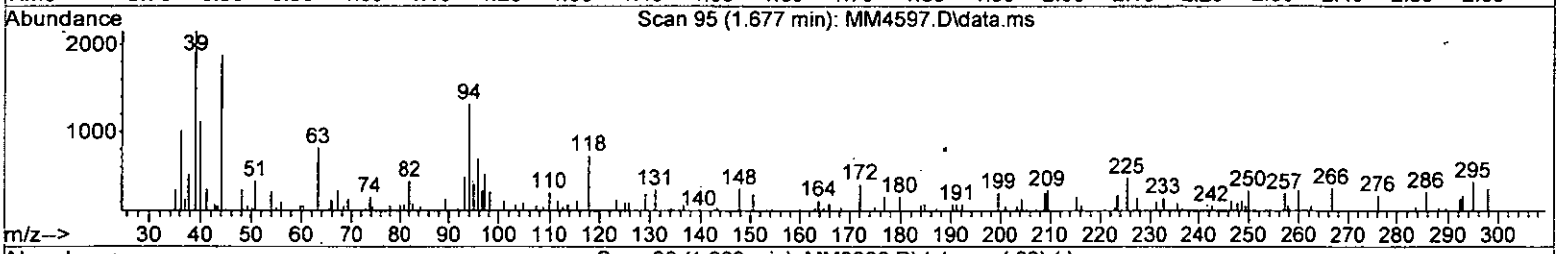
KR 7/8/15

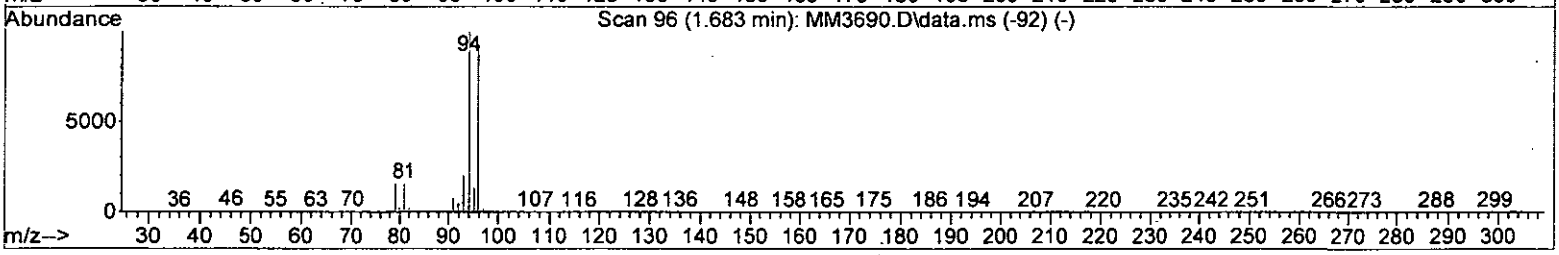
00247

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4597.D
Acq On : 8 Jul 2015 12:42 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 12:57:50 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration







TIC: MM4597.D\data.ms

(5) Bromomethane (P)

1.677min (+0.000) 0.20 ppb

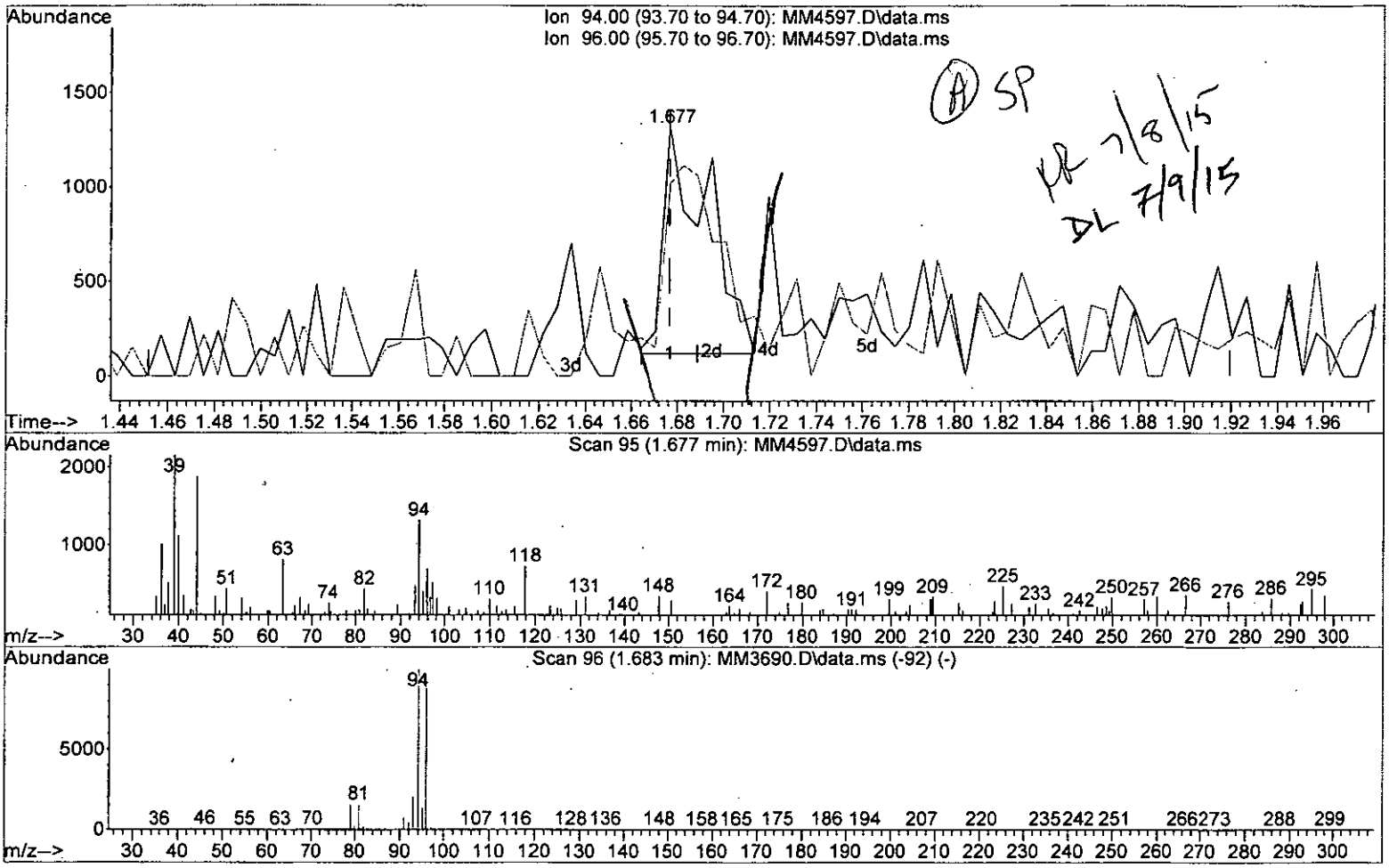
response 1082

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	77.05
0.00	0.00	0.00
0.00	0.00	0.00

00248

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4597.D
Acq On : 8 Jul 2015 12:42 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 12:57:50 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4597.D\data.ms

(5) Bromomethane (P)

1.677min (+0.000) 0.30 ppb m

response 1601

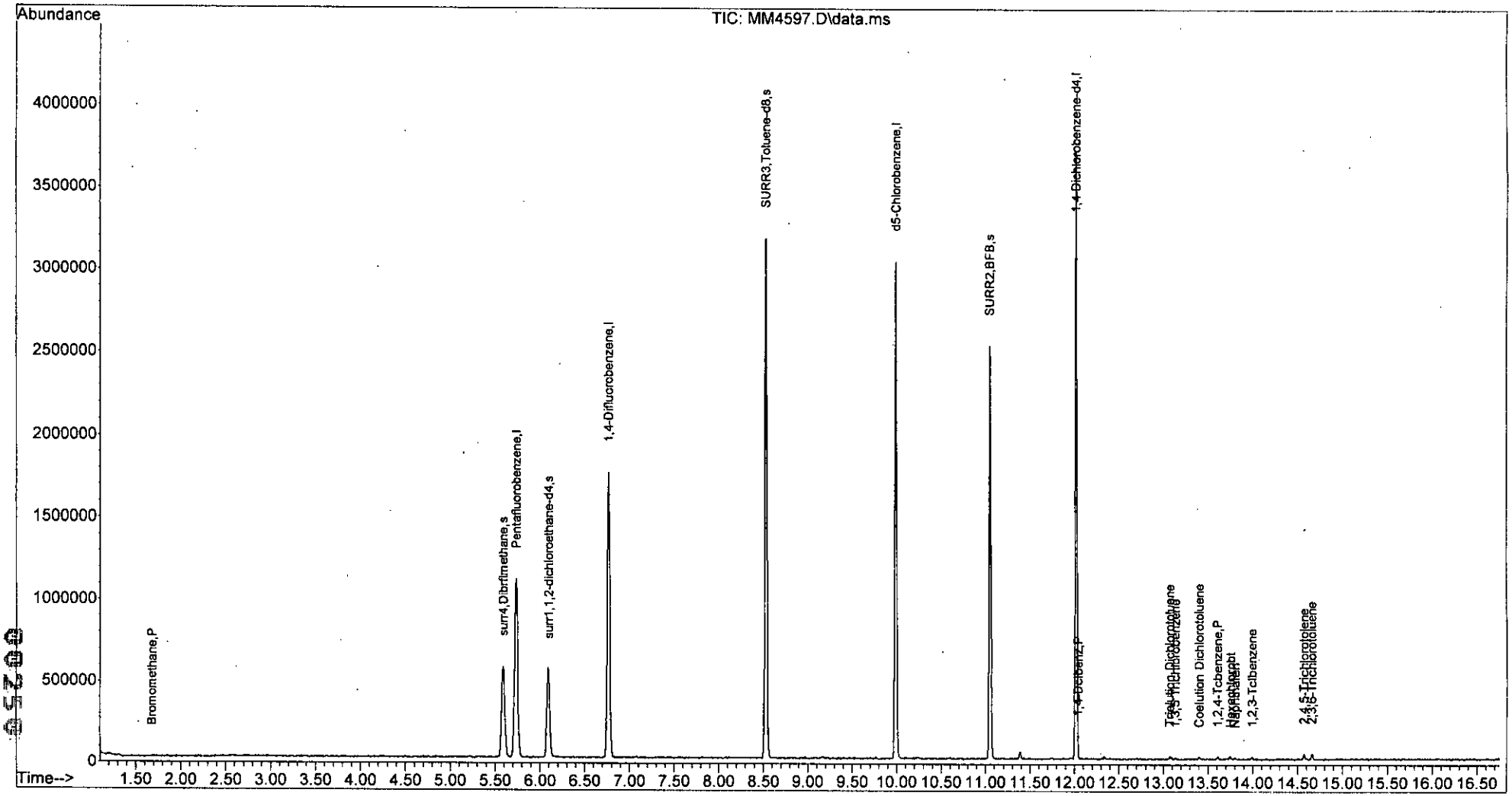
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	52.36#
0.00	0.00	0.00
0.00	0.00	0.00

00249

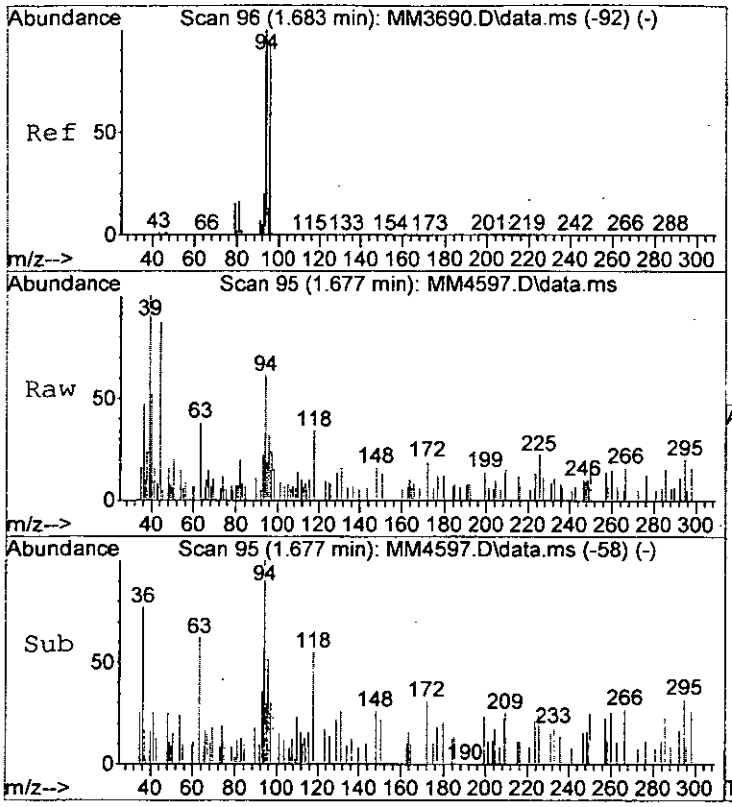
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4597.D
Acq On : 8 Jul 2015 12:42 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 16:38:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



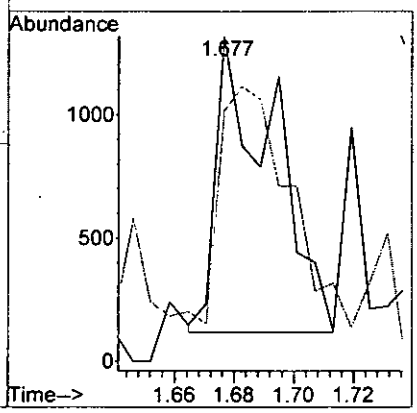
W060415.M Wed Jul 08 16:41:19 2015

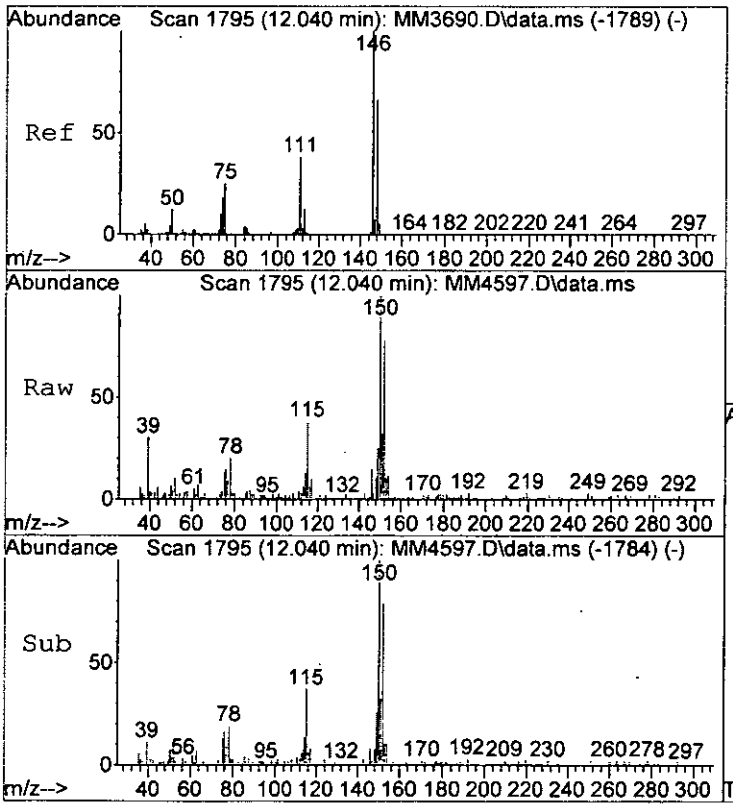


#5
Bromomethane
Concen: 0.30 ppb m
RT: 1.677 min Scan# 95
Delta R.T. 0.000 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion: 94 Resp: 1601

Ion	Ratio	Lower	Upper
94	100		
96	52.4	71.8	111.8#

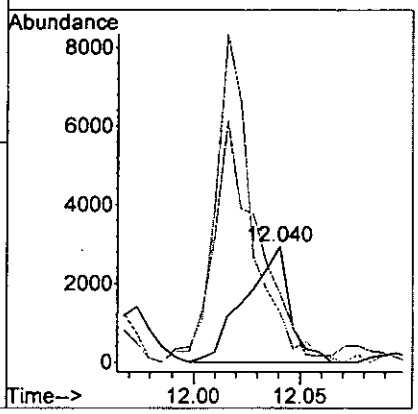




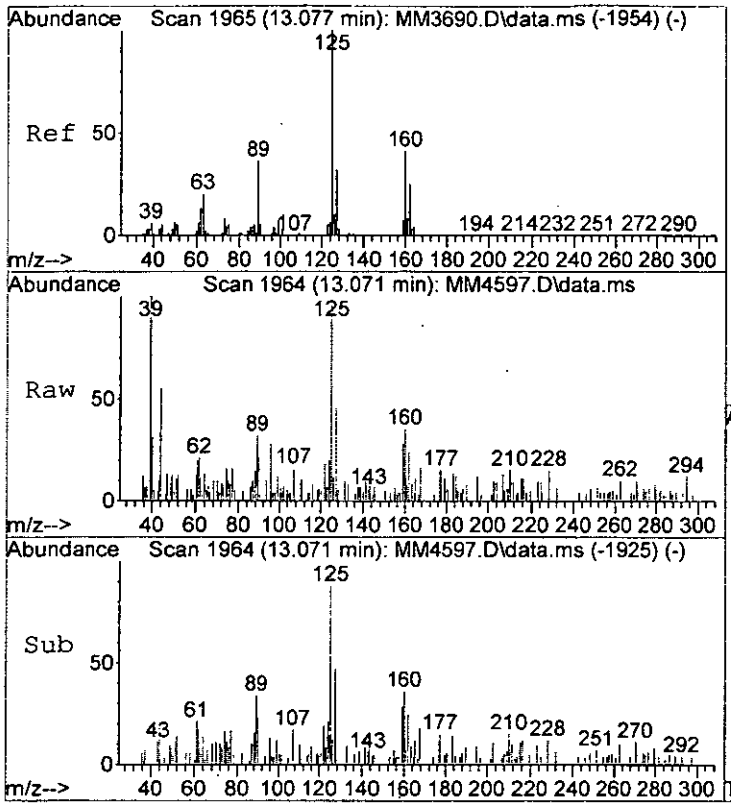
#106
1,4-Dclbenz
Concen: 0.25 ppb
RT: 12.040 min Scan# 1795
Delta R.T. 0.000 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:146 Resp: 4245

Ion	Ratio	Lower	Upper
146	100		
148	59.5	45.7	85.7
111	49.0	18.1	58.1



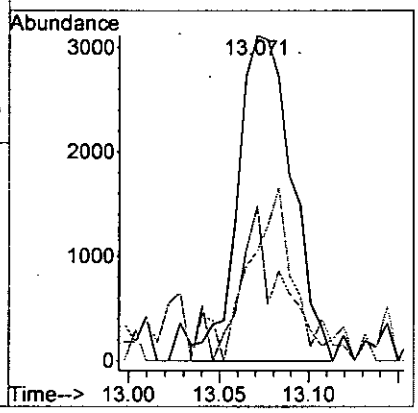
00251

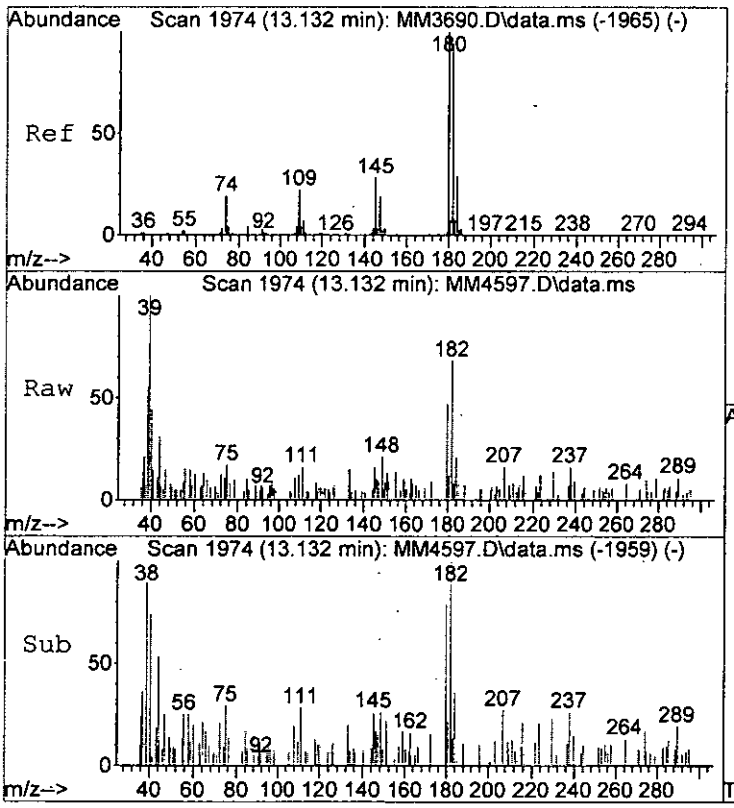


#112
Trielution Dichlorotoluene
Concen: 0.51 ppb
RT: 13.071 min Scan# 1964
Delta R.T. -0.012 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:125 Resp: 6571

Ion	Ratio	Lower	Upper
125	100		
160	42.6	33.1	49.7
89	30.2	28.9	43.3

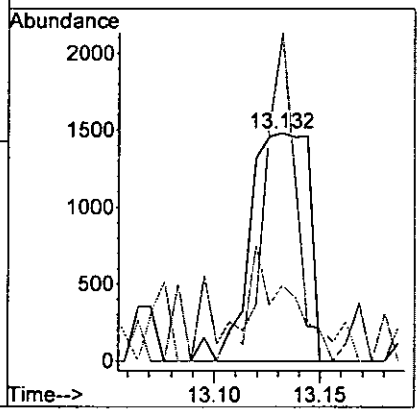


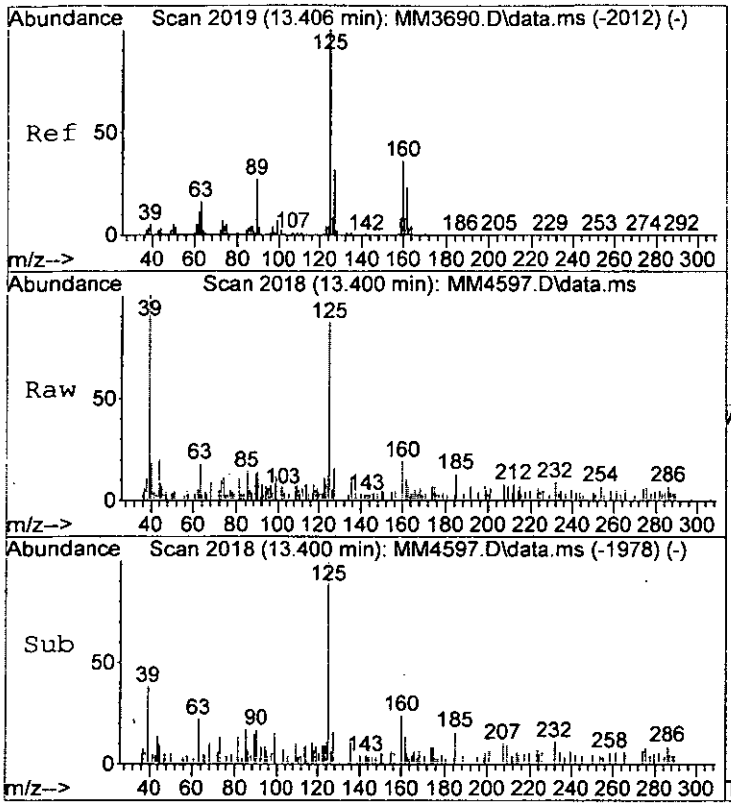


#113
1,3,5 Trichlorobenzene
Concen: 0.30 ppb
RT: 13.132 min Scan# 1974
Delta R.T. 0.000 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:180 Resp: 2871

Ion	Ratio	Lower	Upper
180	100		
182	127.0	75.4	113.0#
145	26.2	22.6	34.0

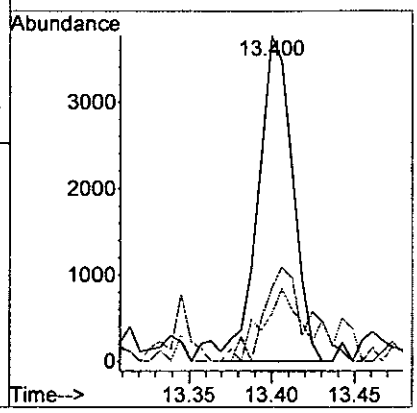


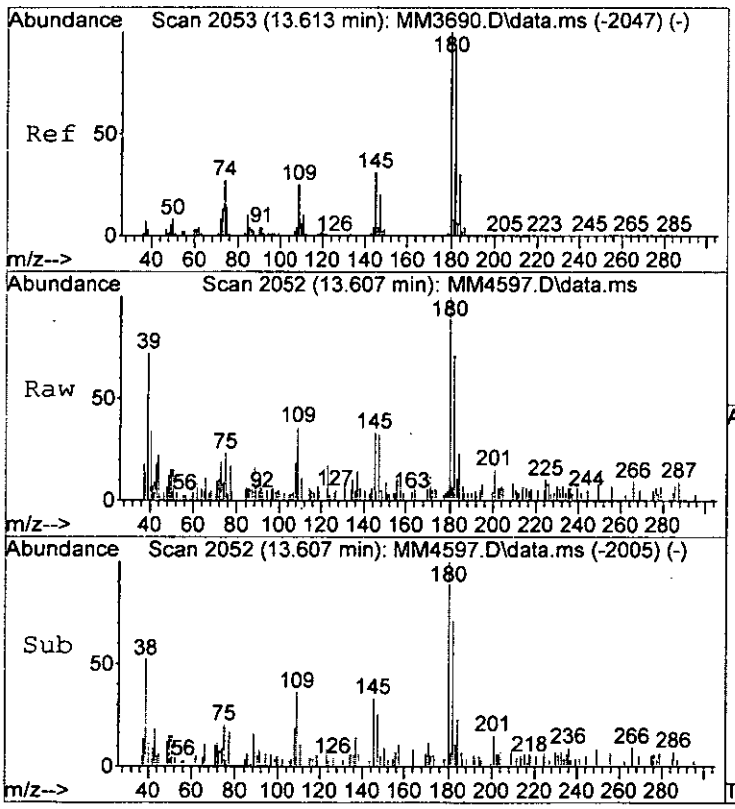


#114
Coelution Dichlorotoluene
Concen: 0.41 ppb
RT: 13.400 min Scan# 2018
Delta R.T. -0.006 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:125 Resp: 5555

Ion	Ratio	Lower	Upper
125	100		
160	22.4	29.0	43.6#
89	14.5	21.5	32.3#

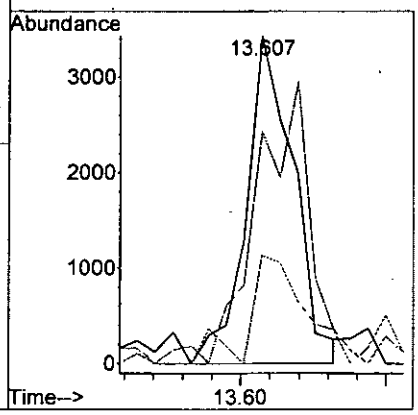


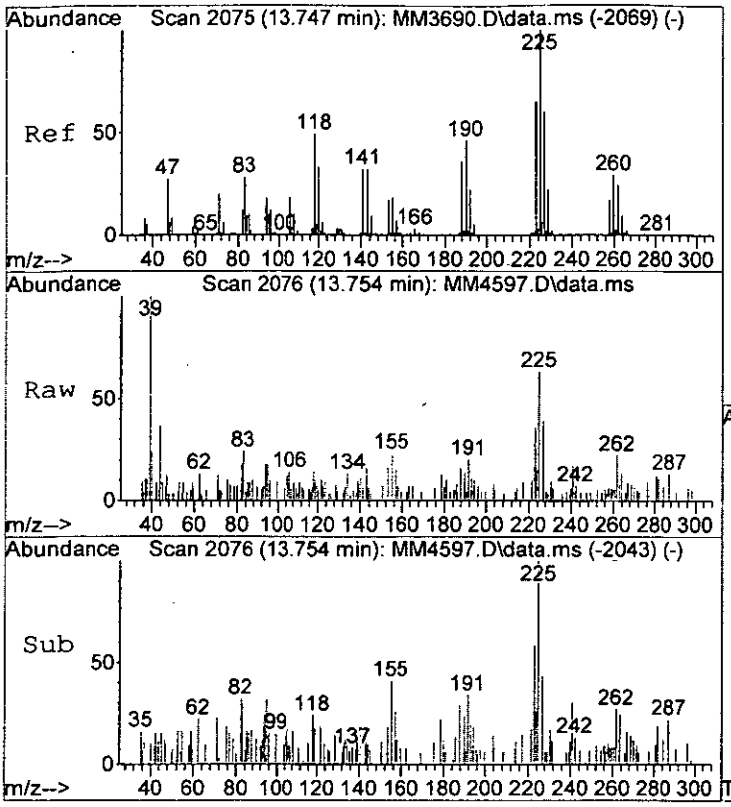


#115
1,2,4-Tcbenzene
Concen: 0.44 ppb
RT: 13.607 min Scan# 2052
Delta R.T. -0.006 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:180 Resp: 3843

Ion	Ratio	Lower	Upper
180	100		
182	70.8	73.7	113.7#
145	36.8	11.4	51.4

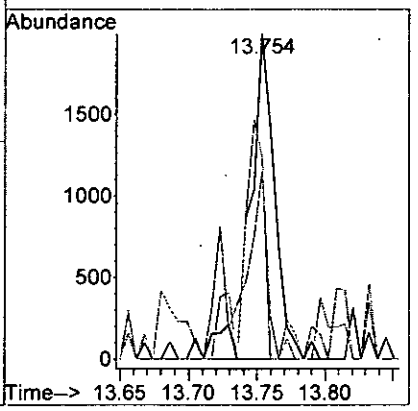


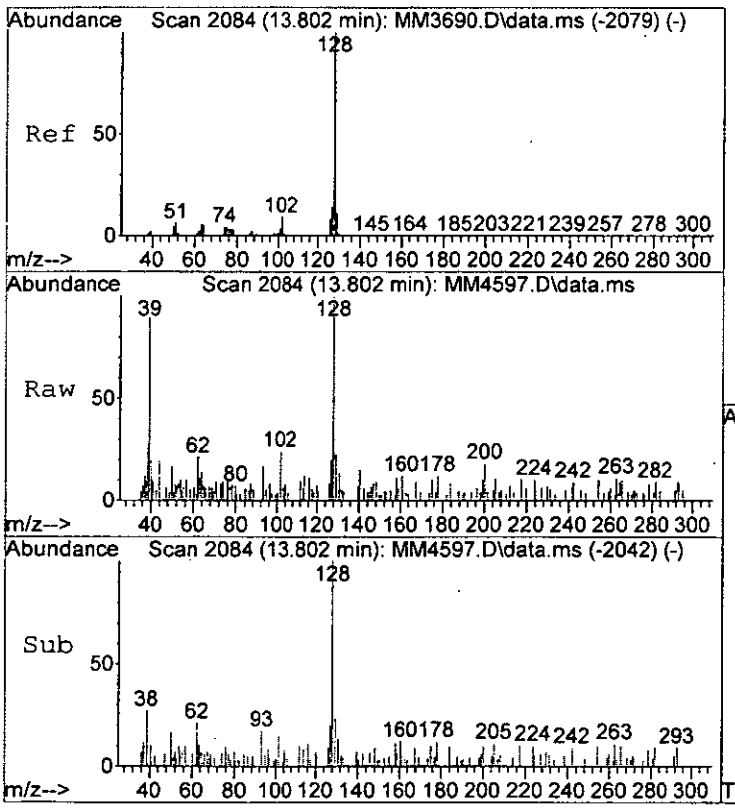


#116
Hexachlorobt
Concen: 0.76 ppb
RT: 13.754 min Scan# 2076
Delta R.T. 0.006 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:225 Resp: 2567

Ion	Ratio	Lower	Upper
225	100		
223	81.8	45.1	85.1
227	62.3	40.1	80.1

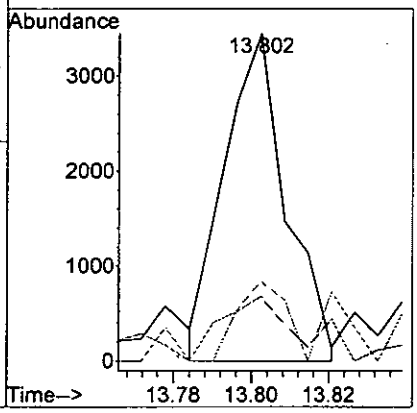


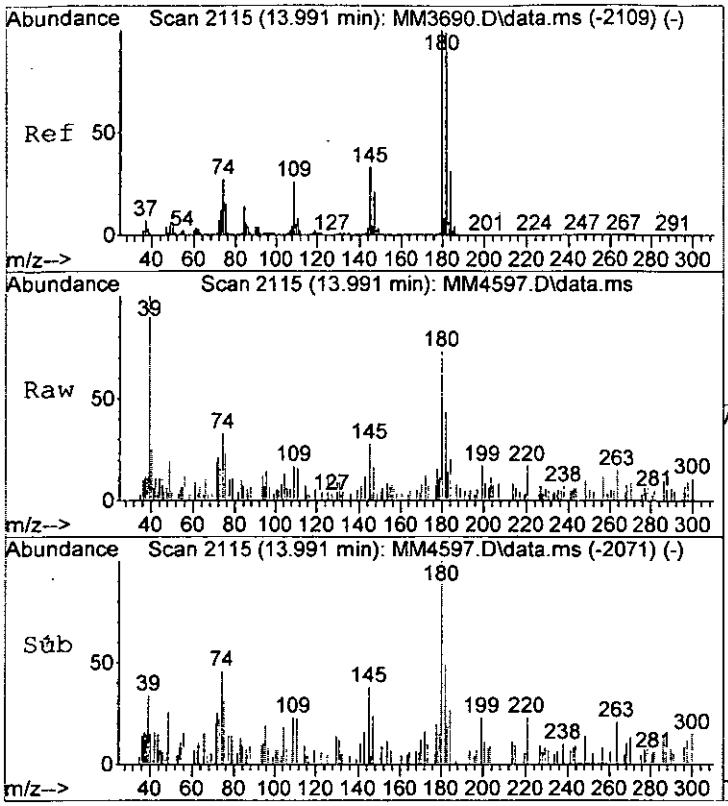


#117
Naphthalen
Concen: 0.21 ppb
RT: 13.802 min Scan# 2084
Delta R.T. 0.000 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:128 Resp: 3809

Ion	Ratio	Lower	Upper
128	100		
127	19.7	0.0	33.9
102	24.2	0.0	29.1

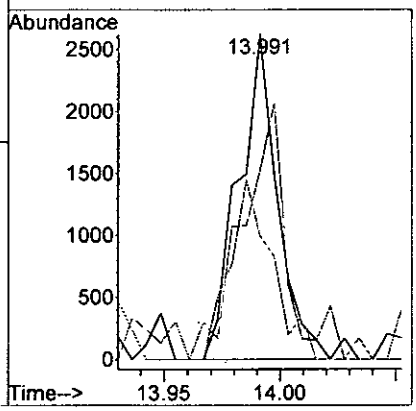


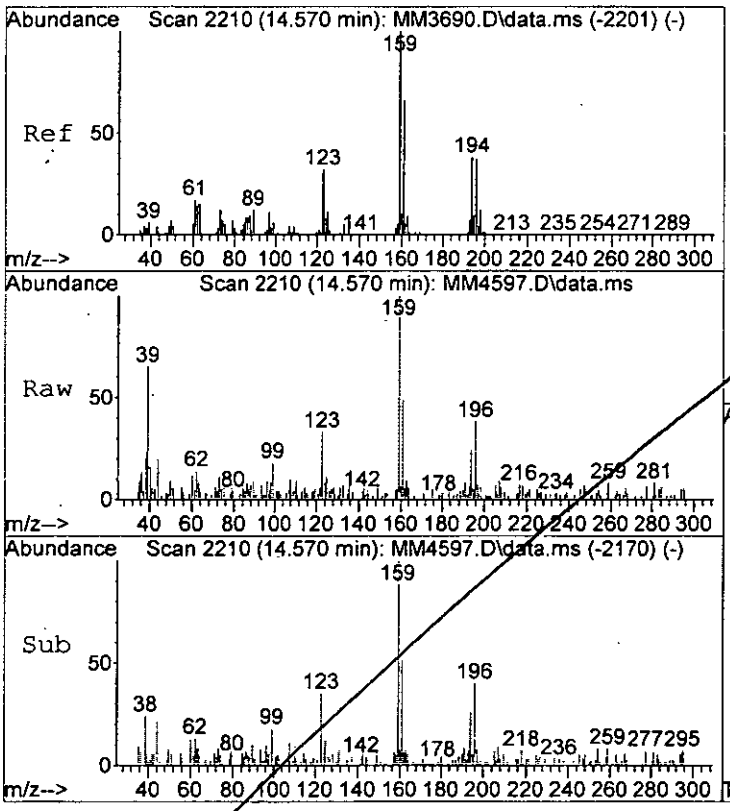


#118
1,2,3-Tclbenzene
Concen: 0.43 ppb
RT: 13.991 min Scan# 2115
Delta R.T. 0.000 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:180 Resp: 3079

Ion	Ratio	Lower	Upper
180	100		
182	58.2	79.1	119.1#
145	38.0	13.1	53.1

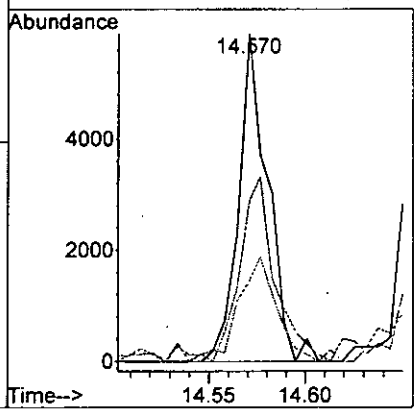




#119
2,4,5-Trichlorotolene
Concen: 1.09 ppb
RT: 14.570 min Scan# 2210
Delta R.T. -0.006 min
Lab File: MM4597.D
Acq: 8 Jul 2015 12:42 pm

Tgt Ion:159 Resp: 6199

Ion	Ratio	Lower	Upper
159	100		
161	48.8	53.2	79.8#
194	24.4	30.6	45.8#



Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4597.D
Acq On : 8 Jul 2015 12:42 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: INTP60.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM4597.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.591	729	737	746	rBV2	547153	1368660	28.13%	5.355%
2	5.737	751	761	770	rBV	1088919	2581099	53.05%	10.098%
3	6.090	811	819	831	rBV	547357	1246098	25.61%	4.875%
4	6.767	922	930	938	rBV	1739053	3300659	67.84%	12.914%
5	8.529	1211	1219	1228	rBV	3159796	4865680	100.00%	19.037%
6	9.992	1452	1459	1468	rBV	3016371	4271570	87.79%	16.712%
7	11.047	1627	1632	1642	rBV	2511820	3279996	67.41%	12.833%
8	11.388	1683	1688	1693	rBV3	47202	66671	1.37%	0.261%
9	12.016	1785	1791	1798	rVB	3697495	4520107	92.90%	17.685%
10	14.662	2221	2225	2231	rBV6	38585	58771	1.21%	0.230%

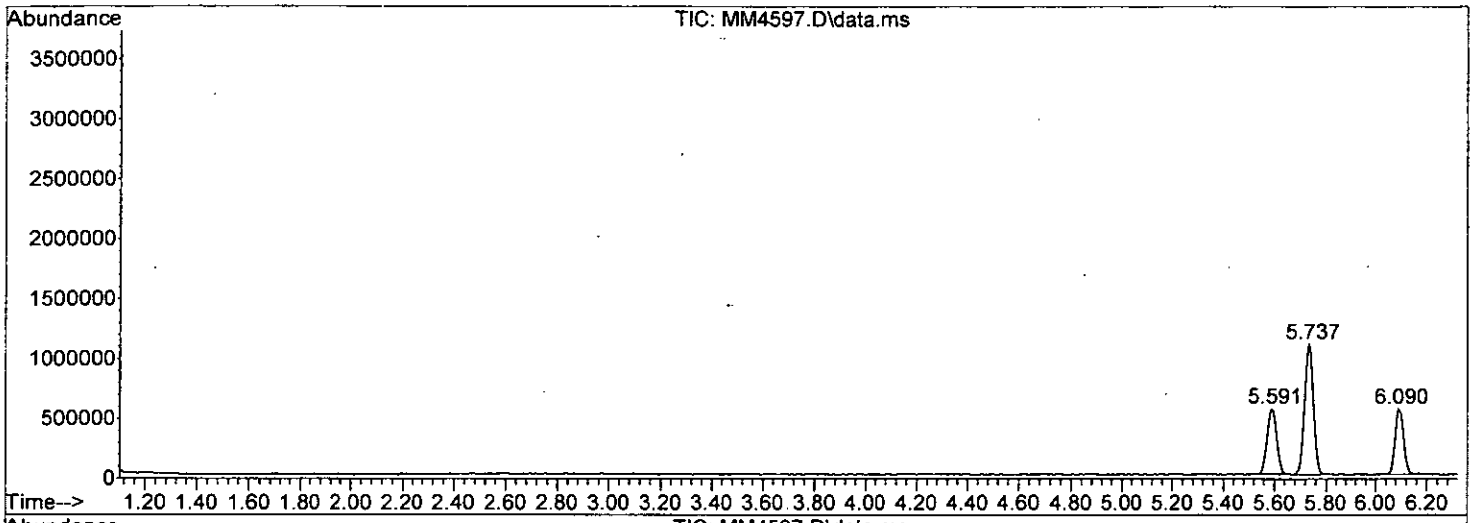
Sum of corrected areas: 25559311

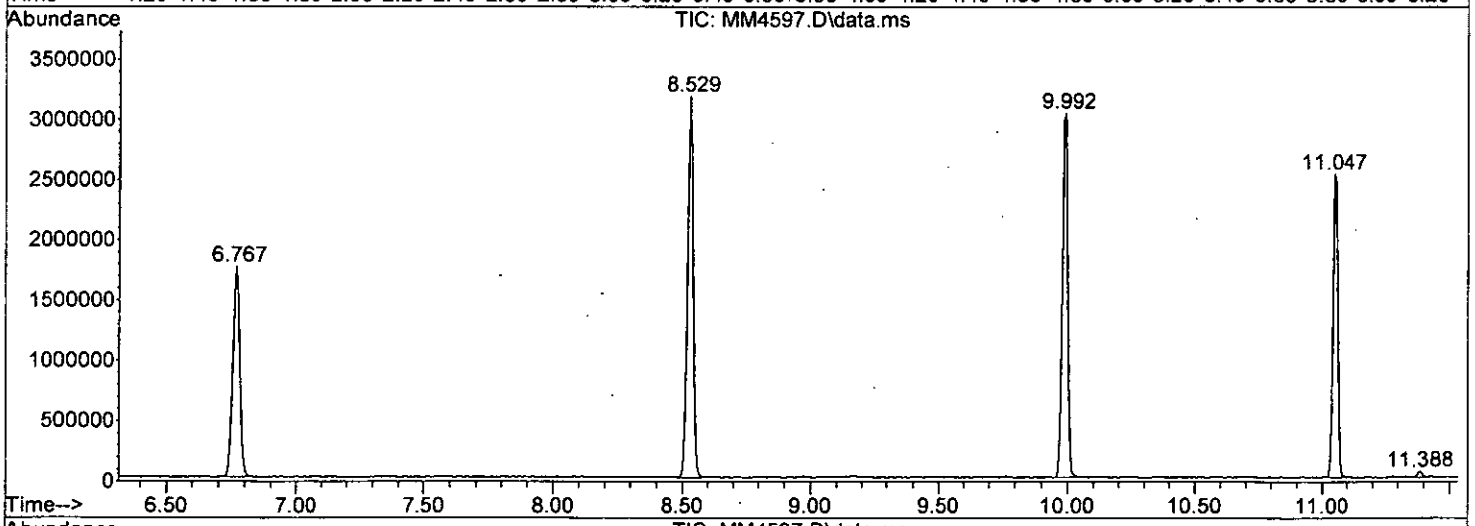
LSC Report - Integrated Chromatogram

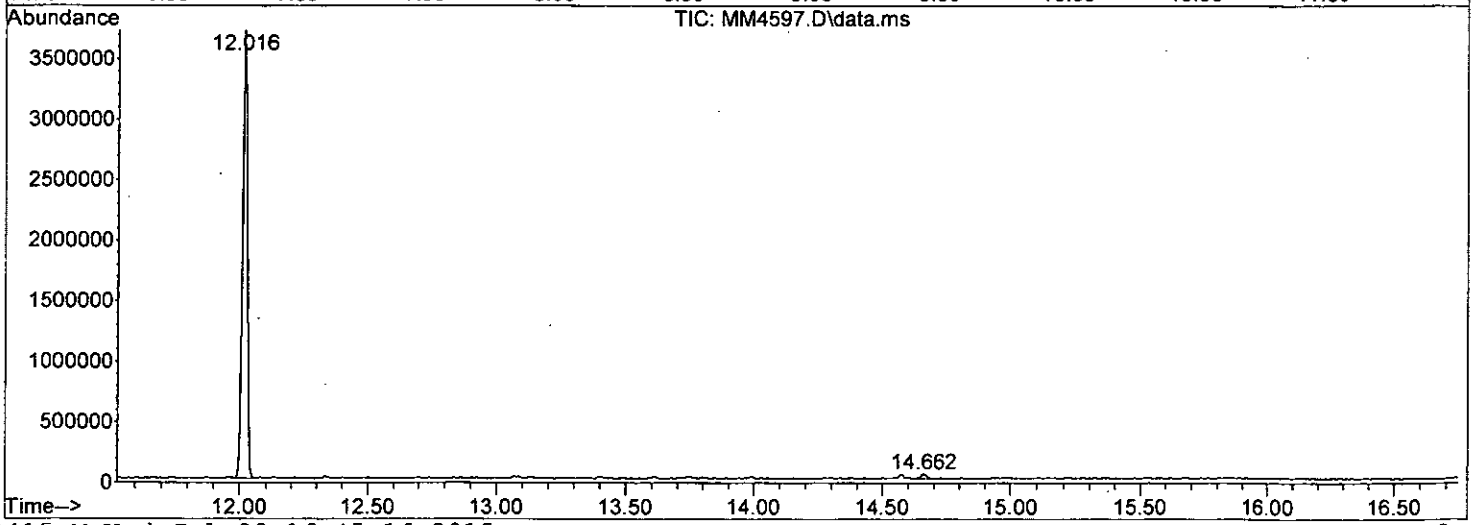
Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4597.D
Acq On : 8 Jul 2015 12:42 pm
Operator : K.Ruest
Sample : VBLK Inst : MSVOA-12
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P







00257

Tentatively Identified Compound (LSC) Summary

Data Path : I:\ACQUDATA\msvoa12\Data\070815\\
Data File : MM4597.D
Acq On : 8 Jul 2015 12:42 pmm
Operator : K.Ruestt
Sample : VBLK Inst : MSVOA-122
Misc :
ALS Vial : 5 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00258

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 11:41
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1507515-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4595.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**19.7**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**18.1**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**20.6**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**20.5**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**19.4**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**18.7**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**18.6**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**23.5**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**19.9**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**21.4**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**20.1**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**18.7**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**20.3**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**20.3**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**18.7**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**20.5**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**20.1**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**20.2**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**20.7**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**20.1**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**18.7**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**21.3**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**21.1**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**22.1**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**406**		100	20	11	
106-43-4	4-Chlorotoluene	**20.3**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**21.1**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**20.6**		5.0	1.0	0.67	
67-64-1	Acetone	**20.0**		5.0	5.0	1.3	
71-43-2	Benzene	**20.7**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**20.2**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**19.7**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**19.3**		5.0	1.0	0.32	
75-25-2	Bromoform	**17.6**		5.0	1.0	0.42	
74-83-9	Bromomethane	**15.1**		5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 11:41
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1507515-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4595.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**18.2**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**19.7**		5.0	1.0	0.29	
75-00-3	Chloroethane	**18.6**		5.0	1.0	0.24	
67-66-3	Chloroform	**19.7**		5.0	1.0	0.25	
74-87-3	Chloromethane	**18.9**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**18.1**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**21.0**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**19.5**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**18.8**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**22.2**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**20.7**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**19.1**		5.0	1.0	0.29	
91-20-3	Naphthalene	**21.1**		5.0	1.0	0.20	
100-42-5	Styrene	**19.0**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**19.6**		5.0	1.0	0.30	
108-88-3	Toluene	**20.5**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**20.5**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**18.6**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**19.8**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**20.1**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**18.6**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**39.7**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**20.4**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**21.2**		5.0	1.0	0.20	
95-47-6	o-Xylene	**19.9**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**20.8**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**20.3**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**19.7**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**19.2**		5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1505216
Project:	FTMM Q3 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	7/8/15 11:41
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	RQ1507515-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	452149
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\MSVOA12\DATA\070815\MM4595.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	7/8/15 11:41	
Dibromofluoromethane	106	85-115	7/8/15 11:41	
Toluene-d8	108	85-120	7/8/15 11:41	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS LQ1507515-03 Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 12:01:39 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.737	168	962416	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.773	114	1552500	50.00	ppb		0.00
71) d5-Chlorobenzene	9.992	117	1473842	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	783888	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.590	113	443506	52.79	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.58%				
48) surr1,1,2-dichloroetha...	6.096	65	466382	51.97	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.94%				
65) SURR3,Toluene-d8	8.529	98	1974643	53.82	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.64%				
70) SURR2,BFB	11.047	95	728138	52.23	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.46%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	172419	21.00	ppb		93
3) Chloromethane	1.341	50	151174	18.93	ppb		93
4) Vinyl Chloride	1.427	62	199206	19.75	ppb		100
5) Bromomethane	1.683	94	86557	15.12	ppb		91
6) Chloroethane	1.762	64	124296	18.57	ppb		95
7) Freon 21	1.920	67	334055	19.99	ppb		97
8) Trichlorofluoromethane	1.969	101	279224	18.58	ppb		100
9) Diethyl Ether	2.225	59	124293	18.70	ppb		99
10) Freon 123a	2.231	67	203689	19.10	ppb		97
11) Freon 123	2.292	83	236473	19.08	ppb		95
12) Acrolein	2.341	56	8282	11.95	ppb		91
13) 1,1-Diclethene	2.426	96	132520	18.72	ppb		96
14) Freon 113	2.432	101	135071	19.28	ppb		96
15) Acetone	2.493	43	26920	19.95	ppb		84
16) 2-Propanol	2.664	45	96939	361.81	ppb		94
17) Iodomethane	2.567	142	138448	16.81	ppb		100
18) Carbon Disulfide	2.628	76	444921	19.62	ppb		98
19) Acetonitrile	2.762	40	14624m	84.45	ppb		
20) Allyl Chloride	2.786	76	73111	17.16	ppb		97
21) Methyl Acetate	2.823	43	56477	19.23	ppb		99
22) Methylene Chloride	2.920	84	146756	19.51	ppb		93
23) TBA	3.103	59	193873	405.69	ppb		91
24) Acrylonitrile	3.207	53	154274	100.61	ppb		96
25) Methyl-t-Butyl Ether	3.262	73	350622	19.07	ppb		97
26) trans-1,2-Dichloroethene	3.237	96	156022	19.73	ppb		99
28) 1,1-Diclethane	3.786	63	253356	19.39	ppb		99
29) Vinyl Acetate	3.902	86	28676	18.30	ppb	#	92
30) DIPE	3.944	45	417867	18.40	ppb		91
31) 2-Chloro-1,3-Butadiene	3.926	53	231730	16.30	ppb		93
32) ETBE	4.524	59	398813	17.62	ppb		89
33) 2,2-Dichloropropane	4.700	77	233025	18.72	ppb		97
34) cis-1,2-Dichloroethene	4.706	96	169132	20.06	ppb		86
35) 2-Butanone	4.774	43	37693	21.26	ppb		96
36) Propionitrile	4.865	54	54873	101.36	ppb		88

KB 7/8/15

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 12:01:39 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Bromochloromethane	5.139	130	91933	19.73	ppb		87
38) Methacrylonitrile	5.151	67	38371	18.99	ppb	#	72
39) Tetrahydrofuran	5.231	42	23597	19.57	ppb	#	68
40) Chloroform	5.328	83	271573	19.72	ppb		95
41) 1,1,1-Trichloroethane	5.596	97	239161	18.06	ppb		98
42) TAME	6.401	73	383361	19.42	ppb		92
44) Cyclohexane	5.676	41	133510	18.93	ppb		98
46) Carbontetrachloride	5.853	121	61440	18.19	ppb		89
47) 1,1-Dichloropropene	5.865	75	198605	18.59	ppb		94
49) Benzene	6.170	78	636605	20.69	ppb		97
50) 1,2-Dichloroethane	6.206	62	184383	18.69	ppb		96
51) Iso-Butyl Alcohol	6.218	43	82628	404.30	ppb		96
52) n-Heptane	6.645	43	136140	20.77	ppb		92
53) 1-Butanol	7.121	56	138454	1066.77	ppb		95
54) Trichloroethene	7.084	130	169919	20.46	ppb		95
55) Methylcyclohexane	7.310	55	157235	20.24	ppb	#	85
56) 1,2-Diclpropane	7.352	63	150620	20.46	ppb		100
57) Dibromomethane	7.492	93	74228	18.72	ppb		90
58) 1,4-Dioxane	7.578	88	26613m	450.06	ppb		
59) Methyl Methacrylate	7.578	69	75641	21.07	ppb	#	85
60) Bromodichloromethane	7.712	83	205130	19.32	ppb		97
61) 2-Nitropropane	7.986	41	37392	27.23	ppb		84
62) 2-Chloroethylvinyl Ether	8.108	63	73049	21.51	ppb		97
63) cis-1,3-Dichloropropene	8.242	75	229297	18.55	ppb		96
64) 4-Methyl-2-pentanone	8.444	43	86485	20.61	ppb		94
66) Toluene	8.602	91	722314	20.47	ppb		97
67) trans-1,3-Dichloropropene	8.864	75	203183	19.20	ppb		97
68) Ethyl Methacrylate	8.998	69	156749	20.41	ppb		91
69) 1,1,2-Trichloroethane	9.047	97	116951	20.54	ppb		95
72) Tetrachloroethene	9.181	164	132260	19.57	ppb		92
73) 2-Hexanone	9.327	43	65919	22.09	ppb		90
74) 1,3-Dichloropropane	9.212	76	200470	20.71	ppb		95
75) Dibromochloromethane	9.437	129	132088	18.13	ppb		99
76) N-Butyl Acetate	9.480	43	141816	18.10	ppb		90
77) 1,2-Dibromoethane	9.535	107	116014	20.30	ppb		89
78) Chlorobenzene	10.016	112	472853	19.71	ppb		98
79) 3-CBTF	10.029	180	243015	21.48	ppb		94
80) 4-CBTF	10.083	180	214008	20.89	ppb		100
81) 1,1,1,2-Tetrachloroethane	10.102	131	158914	19.69	ppb		93
82) Ethylbenzene	10.132	106	243708	18.77	ppb	#	90
83) (m+p)Xylene	10.242	106	627906	39.67	ppb		95
84) o-Xylene	10.596	106	304378	19.86	ppb		98
85) Styrene	10.608	104	500499	19.02	ppb		97
87) Bromoform	10.760	173	70588	17.59	ppb		98
88) 2-CBTF	10.839	180	233012	20.49	ppb		91
89) Isopropylbenzene	10.925	105	752228	20.67	ppb		99
90) Cyclohexanone	10.992	55	256878	1190.83	ppb		88
91) trans-1,4-Dichloro-2-B...	11.230	53	32996	16.86	ppb		83
92) 1,1,2,2-Tetrachloroethane	11.181	83	136605	20.62	ppb		99
93) Bromobenzene	11.175	156	183541	20.23	ppb		97
94) 1,2,3-Trichloropropane	11.211	110	40055	19.87	ppb		91

00263

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

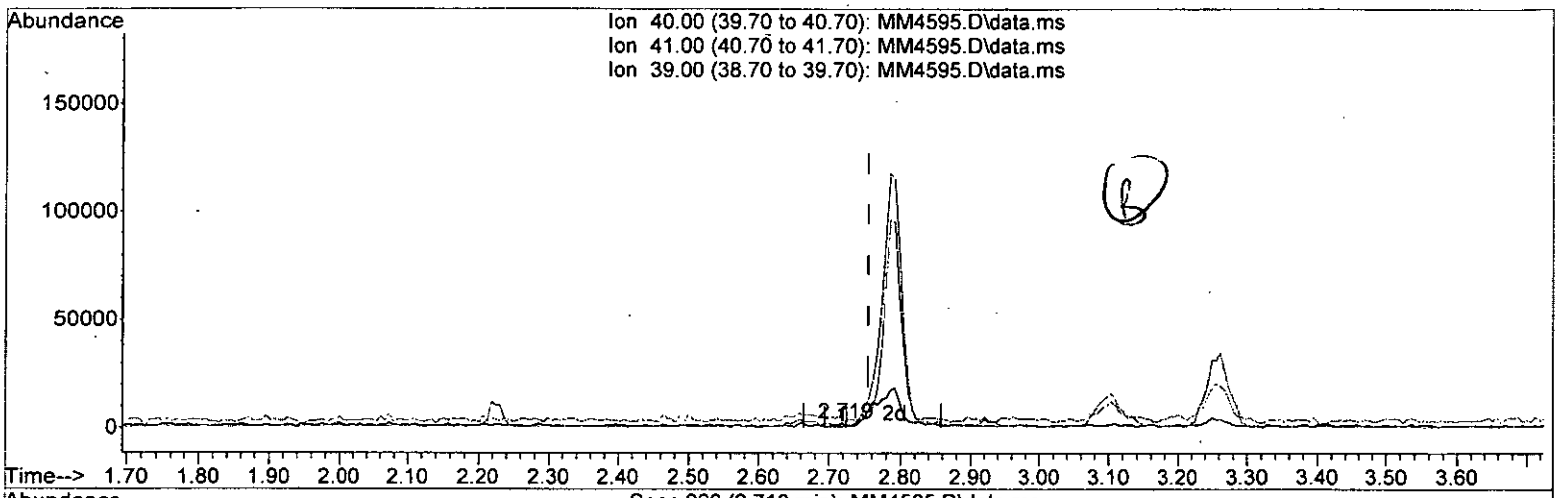
Quant Time: Jul 08 12:01:39 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration

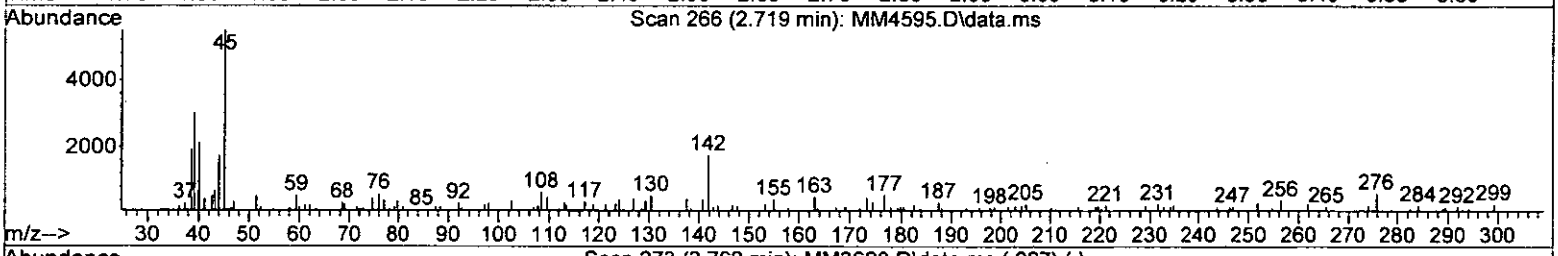
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	n-Propylbenzene	11.278	91	868710	21.21	ppb	98
96)	2-Chlorotoluene	11.345	91	532649	21.10	ppb	96
97)	3-Chlorotoluene	11.394	91	554690	20.74	ppb	97
98)	4-Chlorotoluene	11.437	91	633168	20.29	ppb	99
99)	1,3,5-Trimethylbenzene	11.431	105	626974	20.11	ppb	99
100)	tert-Butylbenzene	11.699	119	509344	20.28	ppb	100
101)	1,2,4-Trimethylbenzene	11.742	105	632157	20.08	ppb	100
102)	3,4-DCBTF	11.803	214	165143	22.18	ppb	87
103)	sec-Butylbenzene	11.882	105	717113	20.82	ppb	99
104)	p-Isopropyltoluene	12.004	119	618193	21.10	ppb	99
105)	1,3-Dclbenz	11.961	146	355910	20.18	ppb	97
106)	1,4-Dclbenz	12.034	146	368932	20.08	ppb	99
107)	2,4-DCBTF	12.089	214	136957	20.85	ppb	95
108)	2,5-DCBTF	12.132	214	162381	21.98	ppb	93
109)	n-Butylbenzene	12.333	91	535610	20.37	ppb	99
110)	1,2-Dclbenz	12.339	146	334848	20.31	ppb	99
111)	1,2-Dibromo-3-chloropr...	12.955	157	25064	18.69	ppb	89
112)	Trielution Dichlorotol...	13.077	125	873690	62.92	ppb	97
113)	1,3,5 Trichlorobenzene	13.132	180	229018	22.15	ppb	99
114)	Coelution Dichlorotoluene	13.406	125	635935	42.75	ppb	98
115)	1,2,4-Tcbenzene	13.613	180	202899	21.42	ppb	95
116)	Hexachlorobt	13.753	225	80904	22.19	ppb	90
117)	Naphthalen	13.802	128	420231	21.14	ppb	98
118)	1,2,3-Tclbenzene	13.991	180	181638	23.46	ppb	91
119)	2,4,5-Trichlorotolene	14.576	159	141960m	22.93	ppb	
120)	2,3,6-Trichlorotoluene	14.662	159	127890m	24.03	ppb	

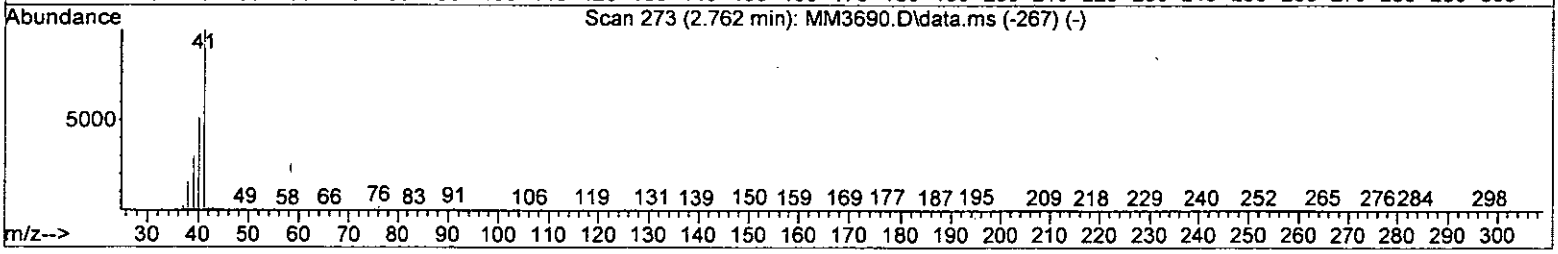
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration







TIC: MM4595.D\data.ms

(19) Acetonitrile

2.719min (-0.036) 7.63 ppb

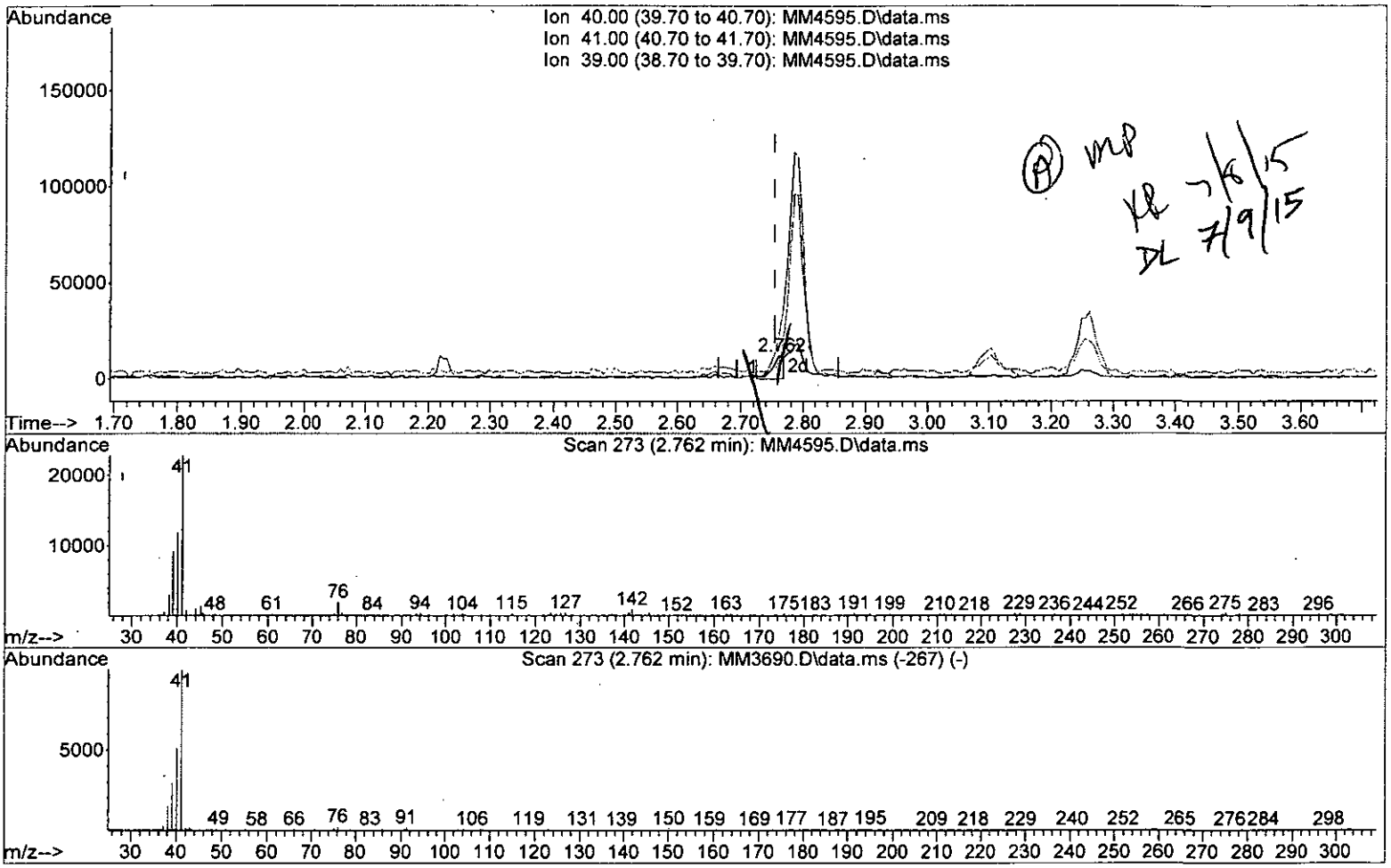
response 1321

Ion	Exp%	Act%
40.00	100	100
41.00	194.30	20.48#
39.00	58.40	141.91#
0.00	0.00	0.00

00265

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4595.D\data.ms

(19) Acetonitrile

2.762min (+0.007) 84.45 ppb m

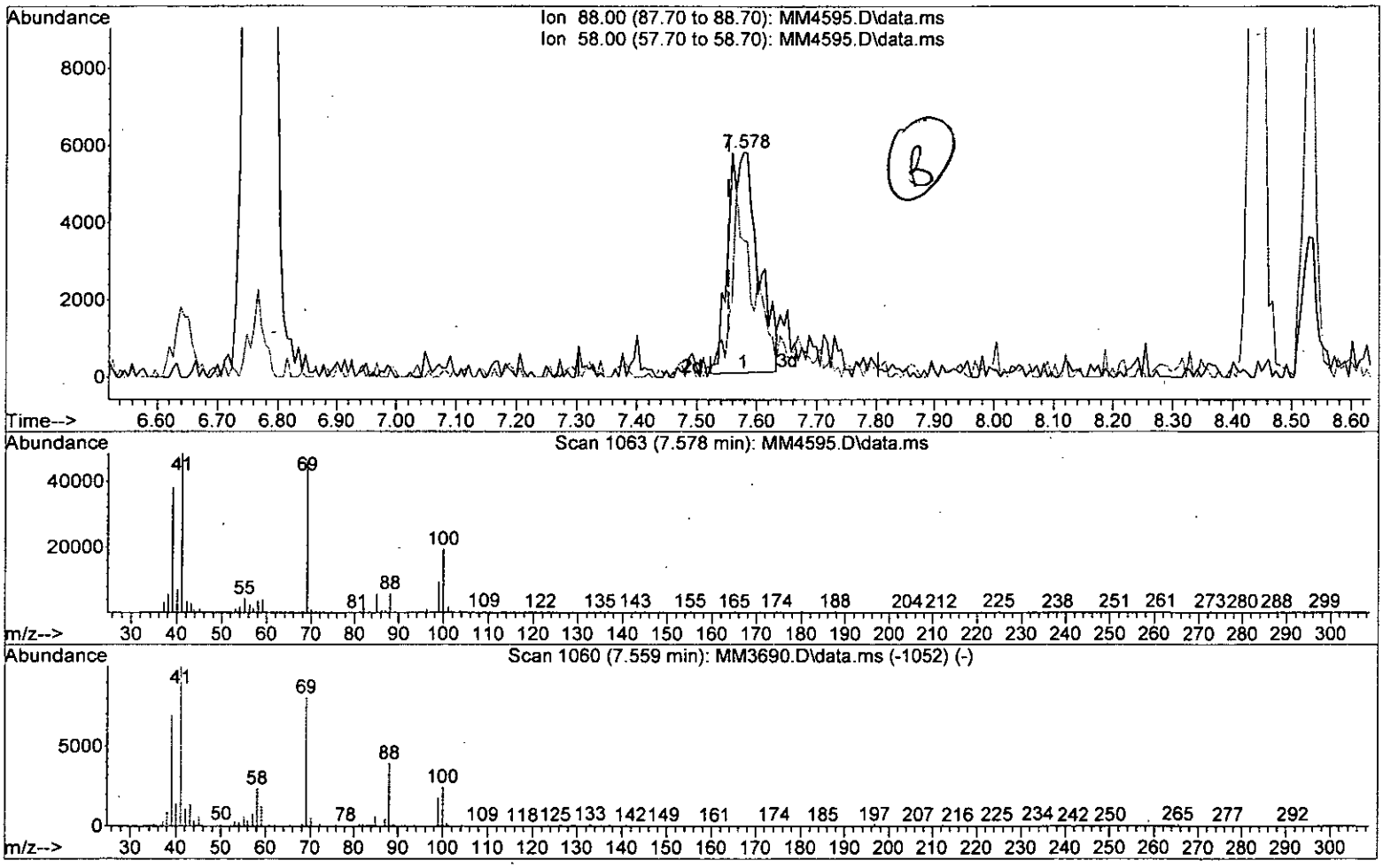
response 14624

Ion	Exp%	Act%
40.00	100	100
41.00	194.30	192.48
39.00	58.40	77.91
0.00	0.00	0.00

00266

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4595.D\data.ms

(58) 1,4-Dioxane

7.578min (+0.024) 337.28 ppb

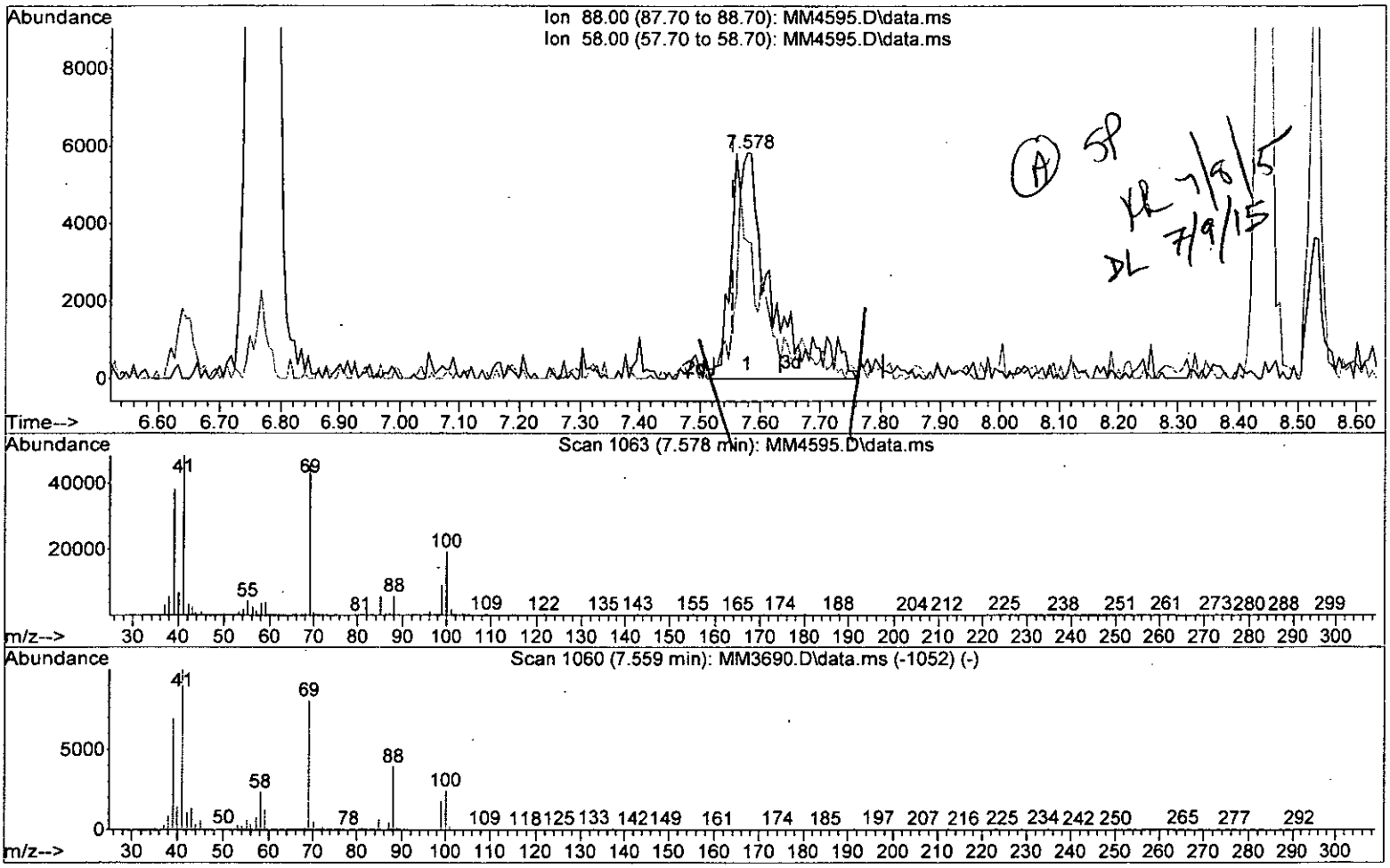
response 19944

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	60.45
0.00	0.00	0.00
0.00	0.00	0.00

00267

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4595.D\data.ms

(58) 1,4-Dioxane

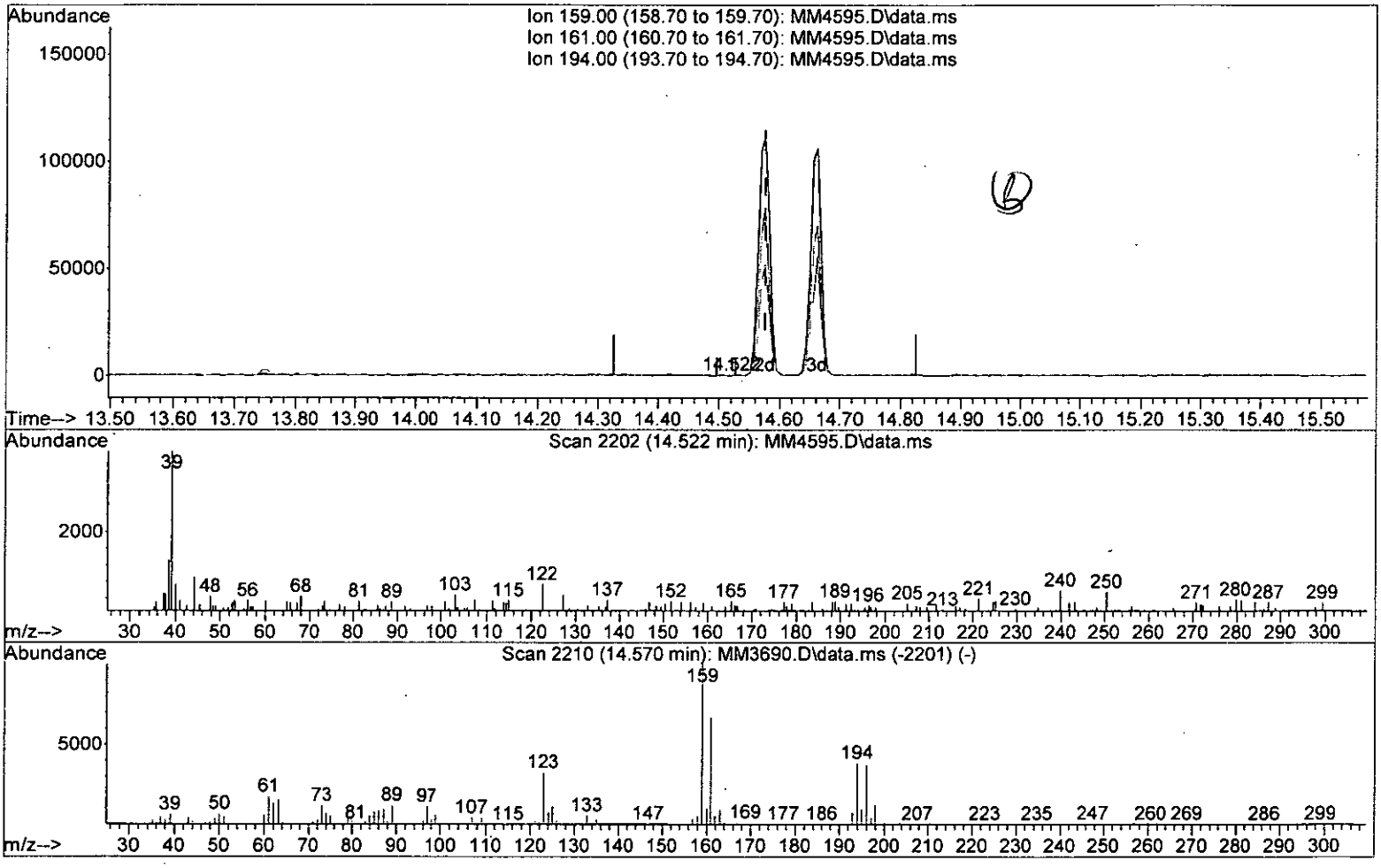
7.578min (+0.024) 450.06 ppb m

response 26613

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	60.45
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4595.D\data.ms

(119) 2,4,5-Trichlorotolene

14.522min (-0.055) 0.04 ppb

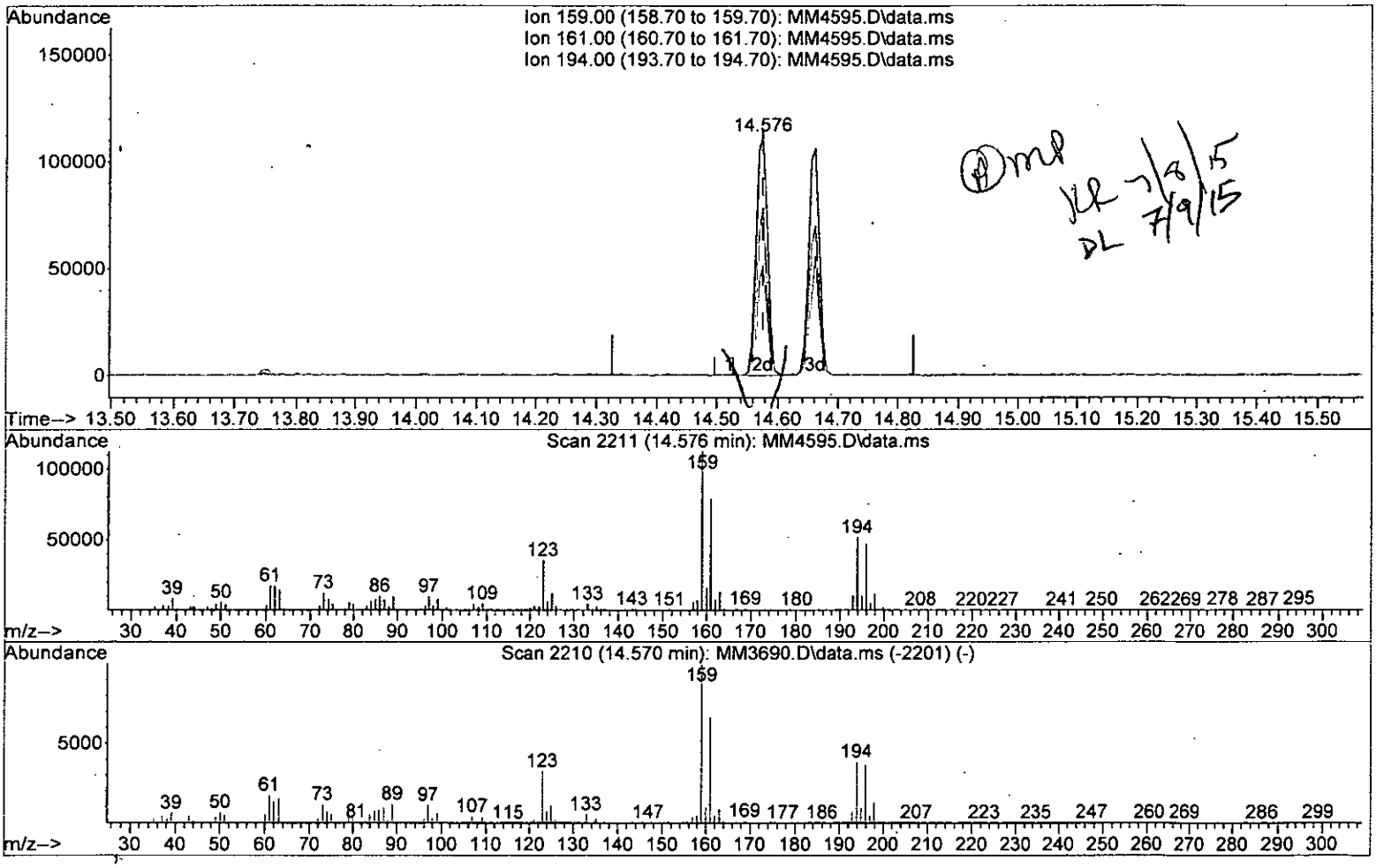
response 230

Ion	Exp%	Act%
159.00	100	100
161.00	66.50	72.79
194.00	38.20	41.70
0.00	0.00	0.00

00269

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4595.D\data.ms

(119) 2,4,5-Trichlorotolene

14.576min (-0.000) 22.93 ppb m

response 141960

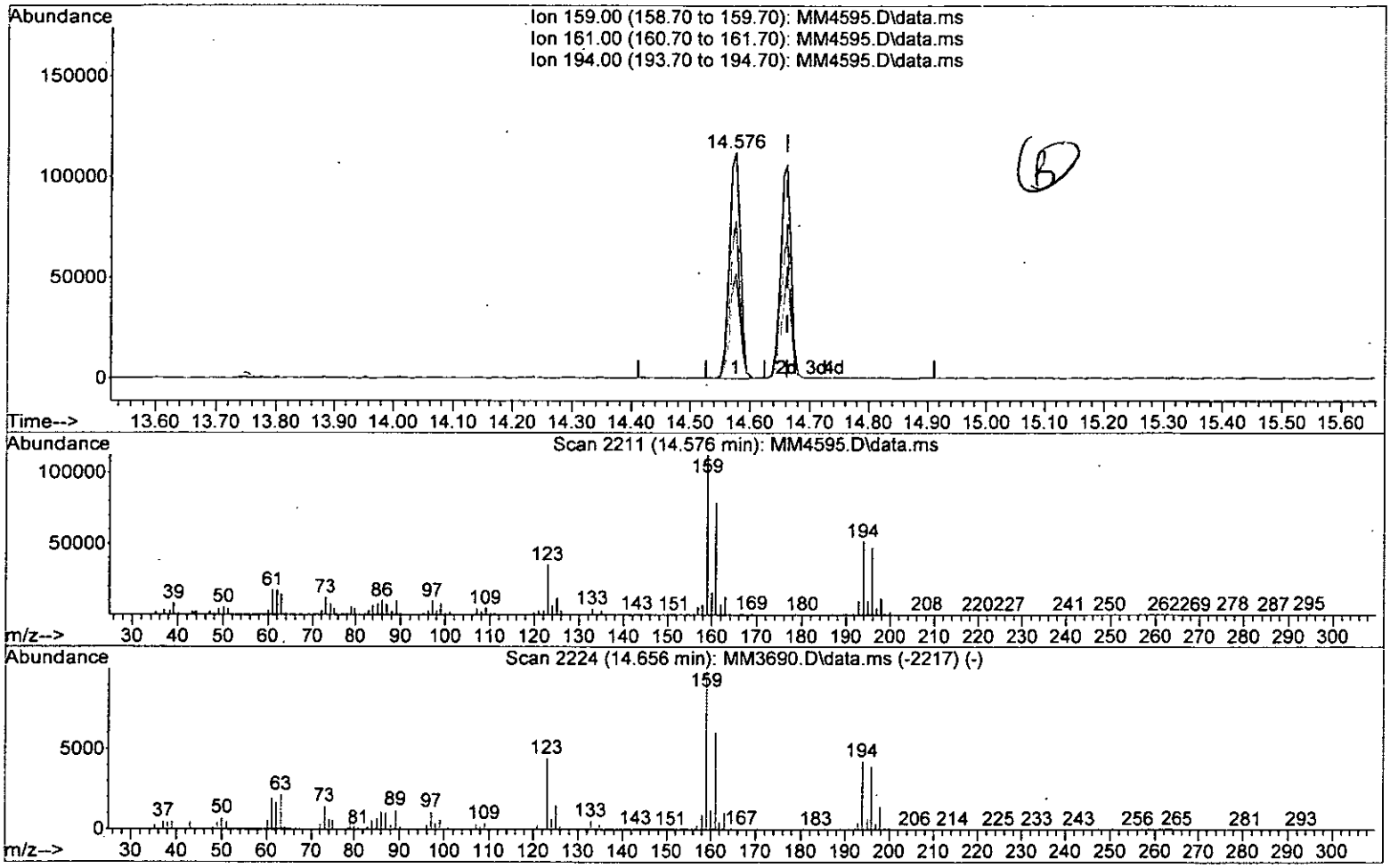
Ion	Exp%	Act%
159.00	100	100
161.00	66.50	69.84
194.00	38.20	45.87#
0.00	0.00	0.00

00276

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4595.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.576min (-0.085) 26.74 ppb

response 142341

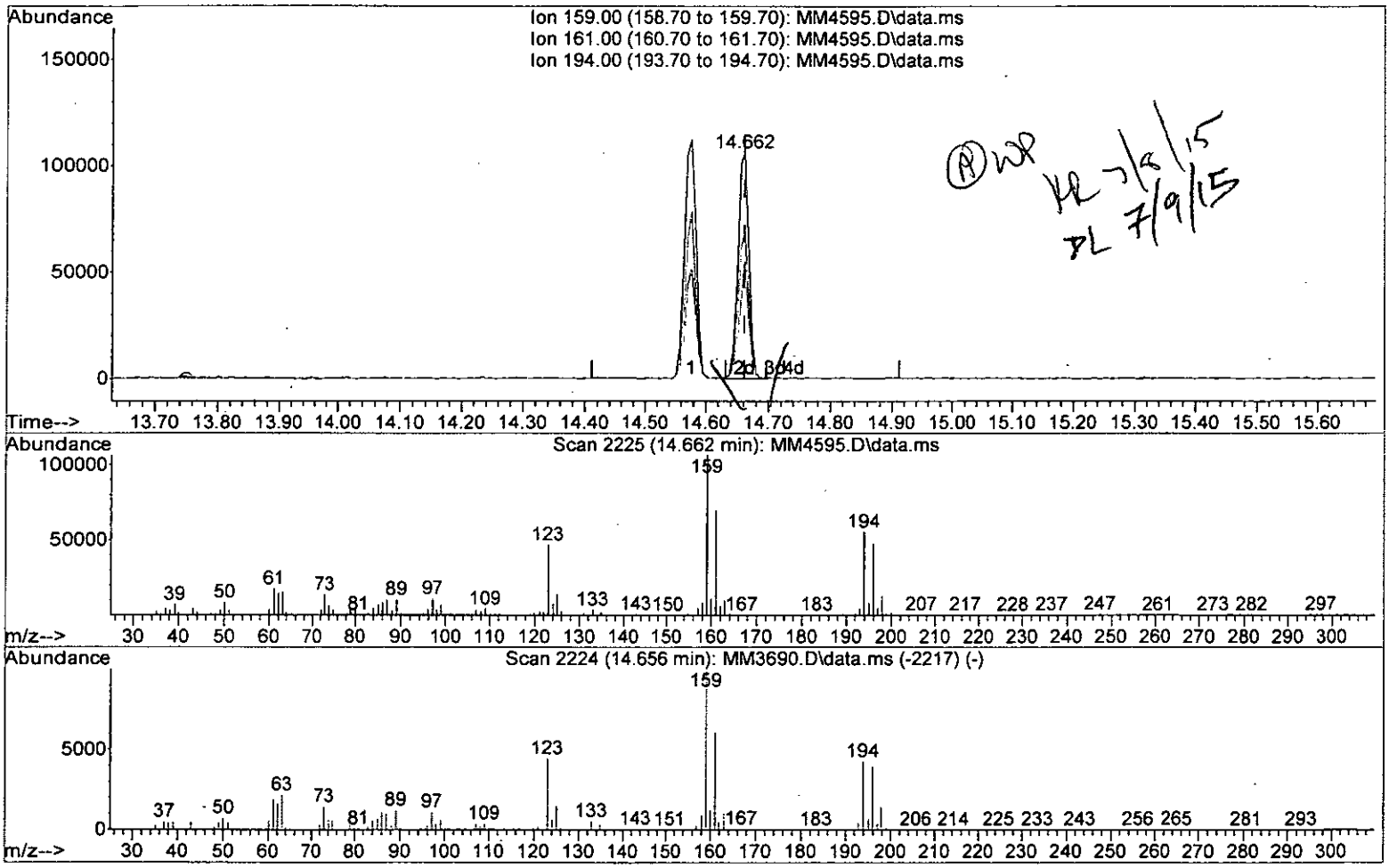
Ion	Exp%	Act%
159.00	100	100
161.00	60.50	69.84
194.00	42.60	45.87
0.00	0.00	0.00

00271

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 11:56:53 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



TIC: MM4595.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.662min (-0.000) 24.03 ppb m

response 127890

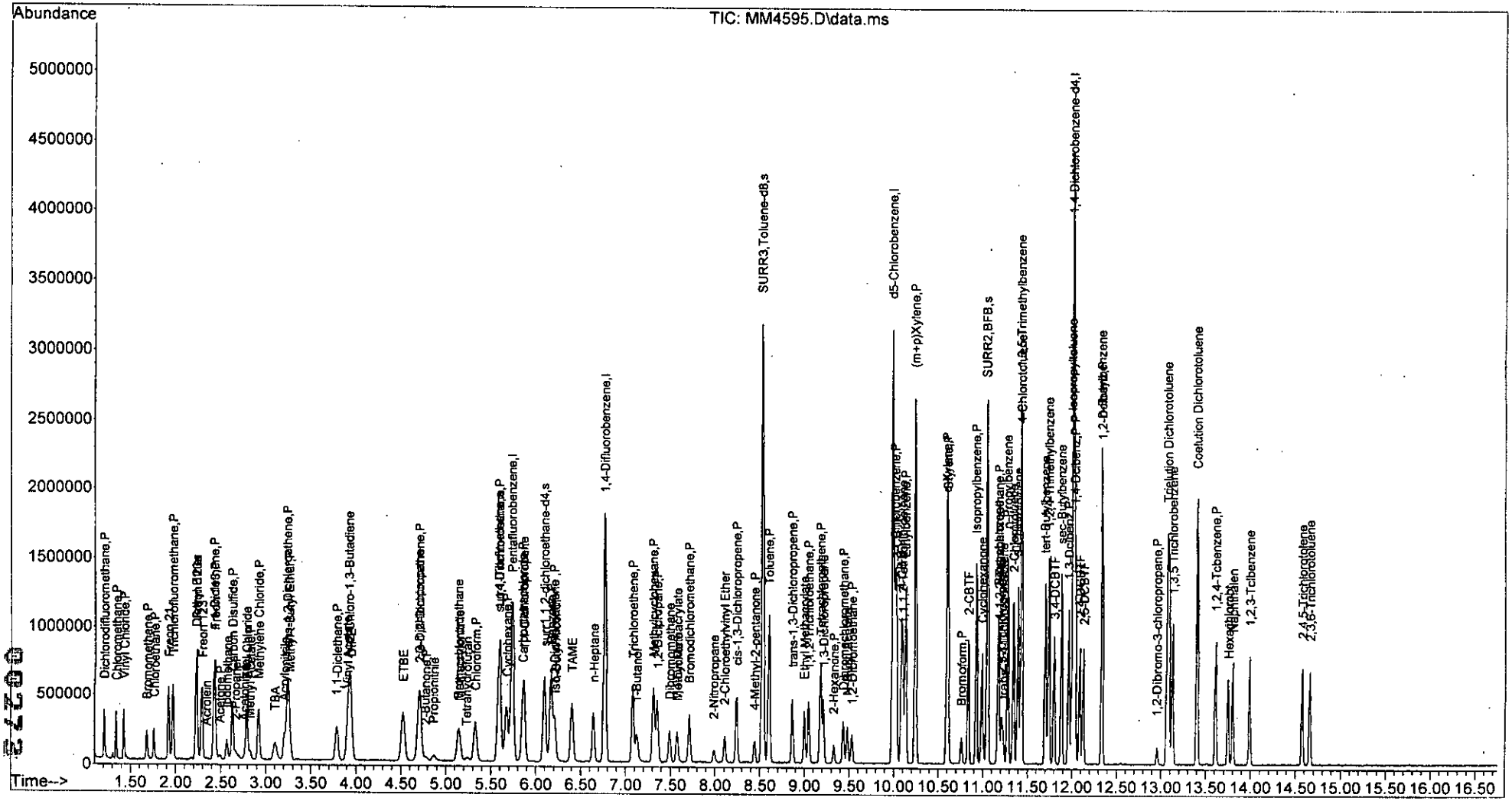
Ion	Exp%	Act%
159.00	100	100
161.00	60.50	65.71
194.00	42.60	52.11#
0.00	0.00	0.00

0027

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\070815\
Data File : MM4595.D
Acq On : 8 Jul 2015 11:41 am
Operator : K.Ruest
Sample : LCS Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 12:01:39 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Thu Jul 02 09:03:54 2015
Response via : Initial Calibration



Analysis: 8260 Waters | Analyst: K. Durst | Tune Method: W060915

Date: 6/4/15 | Data Path: j:\acqudata\msvoa12\060415 | Run Method: ↓

Instr. 12 | LIMS Run#: — ICAL —

Pos.	Sample	Diln.	Diln. Prep.		Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK									MM3679		
2	BLK									MM3680		
3	~~DUPE~~ BLK									MM3681		
4	BLK									MM3682		
5	TUNE (acetone 15/5uL)									MM3683	YT	(auto)
6	IBLK	5ppm	(50ppm)	5uL (50ppm)	FV					MM3684	YB	
7	0.5ppb	5uL	—	—	50mL					MM3685	Y	8260 Water ICAL
8	1.0	10uL	—	—						MM3686	Y	
9	2.0	20uL	—	1uL						MM3687	Y	
10	5.0	50uL	—	2uL						MM3688	Y	
11	20	—	2uL	5uL						MM3689	Y	
12	50	—	5uL	—						MM3690	Y	
13	100	—	10uL	7.5uL						MM3691	Y	
14	150	—	15uL	10uL						MM3692	Y	
15	200	—	20uL	—	↓					MM3693	Y	↓
16	BLK									MM3694	—	
17	↓									MM3695	—	
18										MM3696	—	
19										MM3697	—	
20	ICV									MM3698	YQ	
21	BLK									MM3699	—	
22	↓									MM3700	—	

EOD

KR 6/4/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary Acc : 810817
Primary HBO : 812279
Primary Ft : 813571 5uL → 50mL (K)
Primary HSL : 813574 10uL →
Primary TB : 813550

200 Secondary Ft : 809981 - 12.5uL
500 Secondary Acc : 810858
Secondary HBO : 812990 5uL
Secondary TB : 813577
Secondary HSL : 814492
} 50mL = ICV

Combined IS/Surr 500 : 814485
Surrogate 500 :
Internal Std :

Analysis: 8260 waters | Analyst: K. Priest | Tune Method: W0604I5

Date: 7/8/15 | Data Path: j:\acqudata\msvoa2\0708I5 | Run Method: ↓

Instr. 12 | LIMS Run#: 452149

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	JUNE (or non is/su)		RQ1507515-01						MM4593	YT	(auto) 10:39
2	CCV		02						MM4594	YC	
3	LCS		03						MM4595	YQ	
4	VBLK		—						MM4596	(N)	not 40
5	↓		↓ 04						MM4597	YB	
6	R1505216-003	1.0		[redacted]	11603	4	1	<2	MM4598	Y	
7	001	1.0					1	<2	MM4599	Y	
8	002	1.0					1	<2	MM4600	Y	
9	R1505213-004	1.0					2	<2	MM4601	Y	
10	005	1.0					2	<2	MM4602	Y	
11	007	1.0					1	<2	MM4603	Y	
12	018	1.0					2	<2	MM4604	Y	
13	002	2.5	20/50mls				2	<2	MM4605	(Y)	DL
14	003	20	25/50mls				2	<2	MM4606	(Y)	DL
15	R1505275-013	1.0		[redacted]	9491	2	1	<2	MM4607	Y	
16	014	1.0					1	<2	MM4608	Y	
17	015	1.0					1	<2	MM4609	Y	
18	012	10	5/50mls				2	<2	MM4610	(Y)	DL
19	007	20	2.5/50mls				2	<2	MM4611	Y	
20	009	50	1/50mls				2	<2	MM4612	(Y)	DL
21	R1505213-007	1.0	MS RQ1507515-05	[redacted]	11603	4	2	<2	MM4613	YQ	
22	↓ 007	1.0	MSD ↓ 06	↓	↓	↓	3	<2	MM4614	YQ	21:20 ✓
23	H16HSTD							—	MM4615	—	
24	BLK							—	MM4616	—	
25	↓							—	MM4617	—	

EOD
KP 7/8/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

8260

500 Primary OCC : 82129
Primary HBO : 82139
Primary Frt : 82140 5uL → 5mls
Primary HSL : 82260 = CCV
Primary TB : 81995

200 Secondary Frt : 81715-5uL
500 Secondary HBO : 82120
Secondary OCC : 82130 2uL
Secondary HSL : 82142
Secondary TB : 82141

50mls = LCS

-10.6uL
4.2uL
42mL vial = MS/D

500 Combined IS/Surr : ~~452045~~ 82184 (KP)
Surrogate :
Internal Std :

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

October 28, 2015

Analytical Report for Service Request No: R1508244

Sandra de las Fuentes
Parsons, Inc.
8000 Centre Park Drive, Suite 200
Austin, TX 78754

Laboratory Results for: FTMM Q3 2015 GW Sampling/748810-03000

Dear Sandra:

Enclosed are the results of the sample(s) submitted to our laboratory on October 1, 2015. For your reference, these analyses have been assigned our service request number **R1508244**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ALS Environmental

Client:	Parsons, Inc.
Service Request No.:	R1508244
Project:	Fort Monmouth Q3
Date Received:	10/1/15
Sample Matrix:	Water
Project/Case No.:	748810-03000

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS). A review to the EDD to the signed report has been performed and the EDD is correct and complete.

Sample Receipt

Water samples were received for analysis at ALS Environmental on 10/1/15. The samples were received in good condition except as noted on the Cooler Receipt and Preservation Check Form immediately following the Chain of Custody in the report. The samples were consistent with the Chain of Custody. The Cooler temperature upon receipt was within the proper guidelines. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Comments

The DOD QSM 4.2 requires detections reported to the Method Detection Limit (MDL). Values greater than the MDL and less than the Limit of Quantitation (LOQ) were flagged as estimates (J). Values less than the MDL and Limit of Detection (LOD) were reported as non-detect (ND). The LOD for each analyte is verified quarterly by the laboratory using procedures defined in DOD Quality Systems Manual Version 4.2.

Volatile Organics

Eighteen water samples were analyzed for TCL Volatile organics by SW-846 method 5030/8260C. Any value detected between the LOQ and MDL was flagged with a "J" as estimated.

Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. Any sample requiring multiple dilutions' will have one TIC report with all TICs from each dilution reported. These samples may have multiple occurrences of TICs because they were found in multiple dilutions.

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria for Bromoform and n-Propylbenzene exceeded 15%. There were no hits for these compounds and all other QC were within QC limits. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except tert-Butyl Alcohol and Chloromethane on 10/8/15, tert-Butyl Alcohol, Bromoform and Chloromethane on 10/9/15 and Bromomethane, Chloromethane and Vinyl Chloride on the 10/12/15 CCV. All detected concentrations should be considered as estimated.

All surrogate standard recoveries were within acceptance limits for all samples.

Compounds that exceed the calibration range of the instrument have been flagged with an "E". Samples are repeated at a dilution and have been flagged with a "D". Both sets of data have been reported.

The Blank Spike (LCS) and Blank Spike Duplicate (DLCS) recoveries were all acceptable with the exception of Chloromethane on 10/8/15, 10/9/15 and 10/12/15. These were outside of the control limits high and have been flagged with a "*". The high bias allows for appropriate sensitivity of detection.
Site QC was requested on sample FTMM-53-GW-699MW06-10.2 (R1508244-007). All exceedences have been flagged with a "*".

The Method Blanks associated with these samples contained low level hits of Chloromethane on 10/8/15 and 10/9/15. These have been flagged with a "J". All affected data has been "B" flagged appropriately.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #:	748810-03000	Batch Complete:	Yes	Date Revised:	
Submission:	R1508244	Diskette Requested:	No	Date Due:	10/22/15
Client:	Parsons Engineering Science	Date:	11/20/15	Protocol:	SW846
Client Rep:	JJAEGER	Custody Seal: Present/Absent:		Shipping No.:	
Project:	FTMM Q3 2015 GW Sampling	Chain of Custody: Present/Absent:		SDG #:	FTMM-53-GW-699RW03-8.2

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1508244-001	FTMM-53-GW-699RW03-8.2	Water	8260C	9/30/15	10/1/15			
R1508244-002	FTMM-68-GW-565MW01-11.99	Water	8260C	9/30/15	10/1/15			
R1508244-002.R01	FTMM-68-GW-565MW01-11.99	Water	8260C	9/30/15	10/1/15			
R1508244-003	FTMM-68-GW-565MW01D-22.31	Water	8260C	9/30/15	10/1/15			
R1508244-003.R01	FTMM-68-GW-565MW01D-22.31	Water	8260C	9/30/15	10/1/15			
R1508244-004	FTMM-53-GW-699MW01-7.5	Water	8260C	9/30/15	10/1/15			
R1508244-005	FTMM-53-GW-699MW09-7.75	Water	8260C	9/30/15	10/1/15			
R1508244-006	FTMM-53-GW-699MW16-7.5	Water	8260C	9/30/15	10/1/15			
R1508244-007QC	FTMM-53-GW-699MW06-10.2	Water	8260C	9/30/15	10/1/15			
R1508244-008	FTMM-53-GW-699MW04-8.0	Water	8260C	9/30/15	10/1/15			
R1508244-009	FTMM-53-GW-699RW11-8.3	Water	8260C	9/30/15	10/1/15			
R1508244-010	FTMM-53-GW-699MW106-10.2	Water	8260C	9/30/15	10/1/15			
R1508244-011	FTMM-22-GW-CW1MW29-10.85	Water	8260C	9/30/15	10/1/15			
R1508244-012	FTMM-22-GW-CW1MW281-33.71	Water	8260C	9/30/15	10/1/15			
R1508244-013	FTMM-22-GW-CW1MW28-11.21	Water	8260C	9/30/15	10/1/15			
R1508244-014	FTMM-22-GW-CW1MW27-12.63	Water	8260C	9/30/15	10/1/15			
R1508244-015	FTMM-22-GW-CW1MW31-16.40	Water	8260C	9/30/15	10/1/15			
R1508244-016	FTMM-22-GW-CW1MW37-11.78	Water	8260C	9/30/15	10/1/15			
R1508244-017	FTMM-TB-20150930	Water	8260C	9/30/15	10/1/15			
R1508244-018	FTMM-53-GW-699RW05-10	Water	8260C	9/30/15	10/1/15			
R1508244-018.R01	FTMM-53-GW-699RW05-10	Water	8260C	9/30/15	10/1/15			

h0000

Folder Comments: DoD reporting ERPTOOLS LOD

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

31287

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: FTMM Q3 2015 GW Sampling	Project Number: 748810 - 03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: C. Watson / A. DiDonna

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP + TICs	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
FTMM-53-GW-699RW03-	8.2	9/30/15	0945	GW	3	X							
FTMM-68-GW-565MW01-11.99			0900		3	X							
FTMM-68-GW-565MW01D-22.31			0905		3	X							
FTMM-53-GW-699MW01-7.5			0915		3	X							
FTMM-53-GW-699MW09-7.75			0920		3	X							
FTMM-53-GW-699MW16-7.5			0925		3	X							
FTMM-53-GW-699MW06-10.2			0930		3	X							
FTMM-53-GW-699MW04-8.0			0935		3	X							
FTMM-53-GW-699RW11-8.3			0940		3	X							
FTMM-53-GW-699MW06-MS-10.2			0930		3	X							
FTMM-53-GW-699MW06-MSD-10.2		↓	0930	↓	3	X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: New Jersey

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data

Edata _____ Yes _____ No

INVOICE INFORMATION
PO #:
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiDonna	Signature:	Signature:	Signature:	Signature:	
Printed Name: Alex DiDonna	Printed Name:	Printed Name:	Printed Name:	Printed Name:	
Firm: Parsons	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 9/30/15; 1630	Date/Time: 10/1/15 0730	Date/Time:	Date/Time:	Date/Time:	

R1508244 5
Parsons, Inc.
FTMM Baseline

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

31288

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: FTMM Q3 2015 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: C. Watson / A. DiIonno

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP + TICs	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)
FTMM-53-GW-699MW106-	10.2	9/30/15	1200	GW	3	X						
FTMM-22-GW-CWIMW29-	10.85		1240	GW	3	X						
FTMM-22-GW-CWIMW28-	33.71		1215	GW	3	X						
FTMM-22-GW-CWIMW28-	11.21		1220	GW	3	X						
FTMM-22-GW-CWIMW27-	12.63		1225	GW	3	X						
FTMM-22-GW-CWIMW31-	16.40		1230	GW	3	X						
FTMM-22-GW-CWIMW37-	11.78		1235	GW	3	X						
FTMM-TB-20150930			—	TB	3	X						
FTMM-53-GW-699RW05-	10	↓	0910	GW	3	X						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: New Jersey

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Alex DiIonno	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Parsons	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 9/30/15; 1630	Date/Time: 10/1/15 0730	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

Project/Client Parsons Folder Number R15-8244

Cooler received on 10/1/15 by: @

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 10/1/15 Time: 0738 ID: IR#3 (IR#5) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	2.3						
Correction Factor (°C)	-0.2						
Corrected Temp (°C)	2.1°						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 10/1/15 at 0740
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 10/1/15

Cooler Breakdown: Date: 10/1/15 Time: 0744 by: @

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	411407D	8/16				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-130-002

Other Comments:

PC Secondary Review: JMS 10/1/15

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

00008

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0945
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 19:46
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1508244-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**1.2**	J	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**3.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	**0.36**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0945
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 19:46
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1508244-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**1.4**	J	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**0.79**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.83**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**0.88**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**1.5**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**0.32**	J	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0945
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 19:46
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	Percent
Lab Code:	R1508244-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/8/15 19:46	
Dibromofluoromethane	93	85-115	10/8/15 19:46	
Toluene-d8	101	85-120	10/8/15 19:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/8/15 1946

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1508244-001	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**8.9**	J
	unknown	12.21	**9.4**	J

Comments:

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15 0900
Date Received: 10/ 1/15

Sample Name: FTMM-68-GW-565MW01-11.99
Lab Code: R1508244-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	2.5	NA	10/8/15 20:11		465971	
1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	2.5	NA	10/8/15 20:11		465971	
1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	2.5	NA	10/8/15 20:11		465971	
1,1,2-Trichloroethane	ND	U	13	2.5	0.86	2.5	NA	10/8/15 20:11		465971	
1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,1-Dichloroethene (1,1-DCE)	**7.0**	J	13	2.5	1.5	2.5	NA	10/8/15 20:11		465971	
1,1-Dichloropropene	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	
1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	2.5	NA	10/8/15 20:11		465971	
1,2,3-Trichloropropane	ND	U	13	2.5	1.8	2.5	NA	10/8/15 20:11		465971	
1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	2.5	NA	10/8/15 20:11		465971	
1,2,4-Trimethylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	2.5	NA	10/8/15 20:11		465971	
1,2-Dibromoethane	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
1,2-Dichlorobenzene	ND	U	13	2.5	0.53	2.5	NA	10/8/15 20:11		465971	
1,2-Dichloroethane	ND	U	13	2.5	0.90	2.5	NA	10/8/15 20:11		465971	
1,2-Dichloropropane	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,3,5-Trimethylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,3-Dichlorobenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,3-Dichloropropane	ND	U	13	2.5	0.68	2.5	NA	10/8/15 20:11		465971	
1,4-Dichlorobenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
2,2-Dichloropropane	ND	U	13	2.5	0.68	2.5	NA	10/8/15 20:11		465971	
2-Butanone (MEK)	ND	U	13	2.5	2.1	2.5	NA	10/8/15 20:11		465971	
2-Chlorotoluene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
2-Hexanone	ND	U	13	13	4.2	2.5	NA	10/8/15 20:11		465971	
tert-Butyl Alcohol	ND	U	250	50	27	2.5	NA	10/8/15 20:11		465971	
4-Chlorotoluene	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
p-Isopropyltoluene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
4-Methyl-2-pentanone	ND	U	13	2.5	1.7	2.5	NA	10/8/15 20:11		465971	
Acetone	ND	U	13	13	3.1	2.5	NA	10/8/15 20:11		465971	
Benzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Bromobenzene	ND	U	13	2.5	0.71	2.5	NA	10/8/15 20:11		465971	
Bromochloromethane	ND	U	13	2.5	0.80	2.5	NA	10/8/15 20:11		465971	
Bromodichloromethane	ND	U	13	2.5	0.80	2.5	NA	10/8/15 20:11		465971	
Bromoform	ND	U	13	2.5	1.1	2.5	NA	10/8/15 20:11		465971	
Bromomethane	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	
Carbon Tetrachloride	ND	U	13	2.5	1.2	2.5	NA	10/8/15 20:11		465971	
Chlorobenzene	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0900
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1508244-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Chloroethane	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
Chloroform	ND	U	13	2.5	0.63	2.5	NA	10/8/15 20:11		465971	
Chloromethane	**0.55**	J	13	2.5	0.53	2.5	NA	10/8/15 20:11		465971	
Dibromochloromethane	ND	U	13	2.5	0.78	2.5	NA	10/8/15 20:11		465971	
Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	2.5	NA	10/8/15 20:11		465971	
Methylene Chloride	ND	U	13	2.5	1.5	2.5	NA	10/8/15 20:11		465971	
Ethylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Hexachlorobutadiene	ND	U	13	2.5	1.6	2.5	NA	10/8/15 20:11		465971	
Isopropylbenzene (Cumene)	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	
Naphthalene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Styrene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Tetrachloroethene (PCE)	**1300**	D	50	10	3.0	10	NA	10/9/15 19:53		466298	
Toluene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Trichloroethene (TCE)	**550**	D	50	10	2.2	10	NA	10/9/15 19:53		466298	
Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Vinyl Chloride	**53**		13	2.5	0.80	2.5	NA	10/8/15 20:11		465971	
cis-1,2-Dichloroethene	**600**	D	50	10	3.0	10	NA	10/9/15 19:53		466298	
cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
m,p-Xylenes	ND	U	25	5.0	0.83	2.5	NA	10/8/15 20:11		465971	
n-Butylbenzene	ND	U	13	2.5	0.53	2.5	NA	10/8/15 20:11		465971	
n-Propylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
o-Xylene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
sec-Butylbenzene	ND	U	13	2.5	0.68	2.5	NA	10/8/15 20:11		465971	
tert-Butylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
trans-1,2-Dichloroethene	**2.7**	J	13	2.5	0.83	2.5	NA	10/8/15 20:11		465971	
trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	75-120	10/8/15 20:11	
Dibromofluoromethane	93	85-115	10/8/15 20:11	
Toluene-d8	99	85-120	10/8/15 20:11	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/ 8/15 - 10/ 9/15

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1508244-002	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**57.9**	J

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0905
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1508244-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	100	20	4.4	20	NA	10/8/15 20:35		465971	
1,1,1-Trichloroethane (TCA)	ND	U	100	20	7.2	20	NA	10/8/15 20:35		465971	
1,1,2,2-Tetrachloroethane	ND	U	100	20	5.0	20	NA	10/8/15 20:35		465971	
1,1,2-Trichloroethane	ND	U	100	20	6.9	20	NA	10/8/15 20:35		465971	
1,1-Dichloroethane (1,1-DCA)	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,1-Dichloroethene (1,1-DCE)	ND	U	100	20	12	20	NA	10/8/15 20:35		465971	
1,1-Dichloropropene	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	
1,2,3-Trichlorobenzene	ND	U	100	20	17	20	NA	10/8/15 20:35		465971	
1,2,3-Trichloropropane	ND	U	100	20	14	20	NA	10/8/15 20:35		465971	
1,2,4-Trichlorobenzene	ND	U	100	20	4.7	20	NA	10/8/15 20:35		465971	
1,2,4-Trimethylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	100	20	15	20	NA	10/8/15 20:35		465971	
1,2-Dibromoethane	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
1,2-Dichlorobenzene	ND	U	100	20	4.2	20	NA	10/8/15 20:35		465971	
1,2-Dichloroethane	ND	U	100	20	7.2	20	NA	10/8/15 20:35		465971	
1,2-Dichloropropane	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,3,5-Trimethylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,3-Dichlorobenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,3-Dichloropropane	ND	U	100	20	5.4	20	NA	10/8/15 20:35		465971	
1,4-Dichlorobenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
2,2-Dichloropropane	ND	U	100	20	5.4	20	NA	10/8/15 20:35		465971	
2-Butanone (MEK)	ND	U	100	20	17	20	NA	10/8/15 20:35		465971	
2-Chlorotoluene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
2-Hexanone	ND	U	100	100	34	20	NA	10/8/15 20:35		465971	
tert-Butyl Alcohol	ND	U	2000	400	220	20	NA	10/8/15 20:35		465971	
4-Chlorotoluene	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
p-Isopropyltoluene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
4-Methyl-2-pentanone	ND	U	100	20	14	20	NA	10/8/15 20:35		465971	
Acetone	ND	U	100	100	25	20	NA	10/8/15 20:35		465971	
Benzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Bromobenzene	ND	U	100	20	5.7	20	NA	10/8/15 20:35		465971	
Bromochloromethane	ND	U	100	20	6.4	20	NA	10/8/15 20:35		465971	
Bromodichloromethane	ND	U	100	20	6.4	20	NA	10/8/15 20:35		465971	
Bromoform	ND	U	100	20	8.4	20	NA	10/8/15 20:35		465971	
Bromomethane	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	
Carbon Tetrachloride	ND	U	100	20	9.0	20	NA	10/8/15 20:35		465971	
Chlorobenzene	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0905
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1508244-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Chloroethane	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
Chloroform	ND	U	100	20	5.0	20	NA	10/8/15 20:35		465971	
Chloromethane	**4.6**	J	100	20	4.2	20	NA	10/8/15 20:35		465971	
Dibromochloromethane	ND	U	100	20	6.2	20	NA	10/8/15 20:35		465971	
Dichlorodifluoromethane (CFC 12)	ND	U	100	20	9.3	20	NA	10/8/15 20:35		465971	
Methylene Chloride	ND	U	100	20	12	20	NA	10/8/15 20:35		465971	
Ethylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Hexachlorobutadiene	ND	U	100	20	13	20	NA	10/8/15 20:35		465971	
Isopropylbenzene (Cumene)	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Methyl tert-Butyl Ether	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	
Naphthalene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Styrene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Tetrachloroethene (PCE)	**3600**	D	250	50	15	50	NA	10/9/15 20:17		466298	
Toluene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Trichloroethene (TCE)	**32**	J	100	20	4.4	20	NA	10/8/15 20:35		465971	
Trichlorofluoromethane (CFC 11)	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Vinyl Chloride	ND	U	100	20	6.4	20	NA	10/8/15 20:35		465971	
cis-1,2-Dichloroethene	**15**	J	100	20	6.0	20	NA	10/8/15 20:35		465971	
cis-1,3-Dichloropropene	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
m,p-Xylenes	ND	U	200	40	6.7	20	NA	10/8/15 20:35		465971	
n-Butylbenzene	ND	U	100	20	4.2	20	NA	10/8/15 20:35		465971	
n-Propylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
o-Xylene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
sec-Butylbenzene	ND	U	100	20	5.4	20	NA	10/8/15 20:35		465971	
tert-Butylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
trans-1,2-Dichloroethene	ND	U	100	20	6.7	20	NA	10/8/15 20:35		465971	
trans-1,3-Dichloropropene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	75-120	10/8/15 20:35	
Dibromofluoromethane	90	85-115	10/8/15 20:35	
Toluene-d8	97	85-120	10/8/15 20:35	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/ 8/15 - 10/ 9/15

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1508244-003	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0915
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:37
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1508244-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**6.4**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**0.23**	**J**	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**4.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	**0.87**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0915
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:37
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1508244-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**9.1**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**1.6**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**2.1**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.46**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**1.2**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**2.2**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**3.0**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0915
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:37
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	Percent
Lab Code:	R1508244-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 14:37	
Dibromofluoromethane	95	85-115	10/9/15 14:37	
Toluene-d8	100	85-120	10/9/15 14:37	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1437

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1508244-004	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.26	**7.6**	JN
000078-78-4	Butane, 2-methyl-	1.76	**8.5**	JN
000496-11-7	Indane	12.21	**9.1**	JN

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0920
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:23
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1508244-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	**0.47**	J	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0920
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:23
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1508244-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.45**	**J**	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**1.1**	J	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0920
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:23
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	Percent
Lab Code:	R1508244-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/8/15 21:23	
Dibromofluoromethane	93	85-115	10/8/15 21:23	
Toluene-d8	98	85-120	10/8/15 21:23	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/8/15 2123

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1508244-005	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0925
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:48
Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1508244-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.4**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0925
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:48
Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1508244-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	**12**		5.0	1.0	0.25	
74-87-3	Chloromethane	**0.32**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**1.3**	J	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0925
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:48
Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	Percent
Lab Code:	R1508244-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	75-120	10/8/15 21:48	
Dibromofluoromethane	93	85-115	10/8/15 21:48	
Toluene-d8	97	85-120	10/8/15 21:48	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/8/15 2148

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1508244-006	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.60	5.9	J

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:01
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1508244-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**32**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**3.7**	J	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	**1.7**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:01
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1508244-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**37**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**4.6**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**5.3**		5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.61**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**46**		10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**4.2**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**2.9**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:01
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	Percent
Lab Code:	R1508244-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	75-120	10/9/15 15:01	
Dibromofluoromethane	93	85-115	10/9/15 15:01	
Toluene-d8	99	85-120	10/9/15 15:01	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1501

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1508244-007	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.29	**12.7**	JN
	unknown	4.43	**5.6**	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.33	**9.6**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.57	**17.3**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	12.05	**8.3**	JN
	unknown	12.21	**15.9**	J

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0935
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:25
Sample Name:	FTMM-53-GW-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1508244-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**7.5**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	J	5.0	5.0	1.3	
71-43-2	Benzene	**2.4**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0935
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:25
Sample Name:	FTMM-53-GW-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1508244-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**13**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**1.0**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**2.5**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.90**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**0.36**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**1.6**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**4.2**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0935
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:25
Sample Name:	FTMM-53-GW-699MW04-8.0	**Units:**	Percent
Lab Code:	R1508244-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	75-120	10/9/15 15:25	
Dibromofluoromethane	97	85-115	10/9/15 15:25	
Toluene-d8	100	85-120	10/9/15 15:25	

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Analytical Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15
Date Received: 10/1/15
Date Analyzed: 10/9/15 1525

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW04-8.0
Lab Code: R1508244-008

Units: µg/L
Basis: NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.27	**8.1**	JN
	unknown	1.59	**10.0**	J
000078-78-4	Butane, 2-methyl-	1.77	**10.8**	JN
000496-11-7	Indane	12.21	**35.7**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	13.28	**6.1**	JN

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0940
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:49
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1508244-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	**3.0**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	**0.37**	J	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0940
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:49
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1508244-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.42**	**J**	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**7.1**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.27**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.38**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**0.45**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**2.7**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**1.2**	J	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**0.22**	**J**	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0940
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:49
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	Percent
Lab Code:	R1508244-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	75-120	10/9/15 15:49	
Dibromofluoromethane	95	85-115	10/9/15 15:49	
Toluene-d8	99	85-120	10/9/15 15:49	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1549

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1508244-009	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.76	**19.2**	J
000079-29-8	Butane, 2,3-dimethyl-	2.84	**16.8**	JN
	unknown	2.89	**7.8**	J
000096-14-0	Pentane, 3-methyl-	3.18	**13.0**	JN
	unknown	4.43	**16.0**	J
000110-82-7	Cyclohexane	5.60	**6.0**	JN
	unknown	12.21	**10.1**	J
000767-58-8	Indan, 1-methyl-	12.68	**10.6**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	13.16	**9.1**	JN
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	13.29	**22.4**	JN

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1200
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:14
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1508244-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**29**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**3.2**	**J**	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	**2.3**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1200
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:14
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1508244-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**31**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**4.9**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**5.4**		5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.54**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**42**		10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**4.5**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**2.4**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1200
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:14
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	Percent
Lab Code:	R1508244-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 16:14	
Dibromofluoromethane	93	85-115	10/9/15 16:14	
Toluene-d8	97	85-120	10/9/15 16:14	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1614

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1508244-010	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**10.0**	J
000078-78-4	Butane, 2-methyl-	1.76	**5.0**	JN
	unknown	4.43	**6.3**	J
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.33	**7.4**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.57	**15.8**	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	12.05	**7.7**	JN
000496-11-7	Indane	12.21	**15.4**	JN

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1240
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:38
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1508244-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.9**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1240
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:38
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1508244-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.26**	**J**	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**22**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**2.9**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**20**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**2.8**	**J**	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1240
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:38
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	Percent
Lab Code:	R1508244-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 16:38	
Dibromofluoromethane	90	85-115	10/9/15 16:38	
Toluene-d8	96	85-120	10/9/15 16:38	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1638

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1508244-011	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1215
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:02
Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	µg/L
Lab Code:	R1508244-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	
79-00-5	1,1,2-Trichloroethane	ND	U	13	2.5	0.86	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	13	2.5	1.5	
563-58-6	1,1-Dichloropropene	ND	U	13	2.5	0.73	
87-61-6	1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	
96-18-4	1,2,3-Trichloropropane	ND	U	13	2.5	1.8	
120-82-1	1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	
95-63-6	1,2,4-Trimethylbenzene	ND	U	13	2.5	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	
106-93-4	1,2-Dibromoethane	ND	U	13	2.5	0.60	
95-50-1	1,2-Dichlorobenzene	ND	U	13	2.5	0.53	
107-06-2	1,2-Dichloroethane	ND	U	13	2.5	0.90	
78-87-5	1,2-Dichloropropane	ND	U	13	2.5	0.50	
108-67-8	1,3,5-Trimethylbenzene	ND	U	13	2.5	0.50	
541-73-1	1,3-Dichlorobenzene	ND	U	13	2.5	0.50	
142-28-9	1,3-Dichloropropane	ND	U	13	2.5	0.68	
106-46-7	1,4-Dichlorobenzene	ND	U	13	2.5	0.50	
594-20-7	2,2-Dichloropropane	ND	U	13	2.5	0.68	
78-93-3	2-Butanone (MEK)	ND	U	13	2.5	2.1	
95-49-8	2-Chlorotoluene	ND	U	13	2.5	0.50	
591-78-6	2-Hexanone	ND	U	13	13	4.2	
75-65-0	tert-Butyl Alcohol	ND	U	250	50	27	
106-43-4	4-Chlorotoluene	ND	U	13	2.5	0.60	
99-87-6	p-Isopropyltoluene	ND	U	13	2.5	0.50	
108-10-1	4-Methyl-2-pentanone	ND	U	13	2.5	1.7	
67-64-1	Acetone	ND	U	13	13	3.1	
71-43-2	Benzene	ND	U	13	2.5	0.50	
108-86-1	Bromobenzene	ND	U	13	2.5	0.71	
74-97-5	Bromochloromethane	ND	U	13	2.5	0.80	
75-27-4	Bromodichloromethane	ND	U	13	2.5	0.80	
75-25-2	Bromoform	ND	U	13	2.5	1.1	
74-83-9	Bromomethane	ND	U	13	2.5	0.73	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1215
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:02
Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	µg/L
Lab Code:	R1508244-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	13	2.5	1.2	
108-90-7	Chlorobenzene	ND	U	13	2.5	0.73	
75-00-3	Chloroethane	ND	U	13	2.5	0.60	
67-66-3	Chloroform	ND	U	13	2.5	0.63	
74-87-3	Chloromethane	**0.68**	**J**	13	2.5	0.53	
124-48-1	Dibromochloromethane	ND	U	13	2.5	0.78	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	
75-09-2	Methylene Chloride	ND	U	13	2.5	1.5	
100-41-4	Ethylbenzene	ND	U	13	2.5	0.50	
87-68-3	Hexachlorobutadiene	ND	U	13	2.5	1.6	
98-82-8	Isopropylbenzene (Cumene)	ND	U	13	2.5	0.50	
1634-04-4	Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	
91-20-3	Naphthalene	ND	U	13	2.5	0.50	
100-42-5	Styrene	ND	U	13	2.5	0.50	
127-18-4	Tetrachloroethene (PCE)	ND	U	13	2.5	0.75	
108-88-3	Toluene	ND	U	13	2.5	0.50	
79-01-6	Trichloroethene (TCE)	**390**		13	2.5	0.55	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	
75-01-4	Vinyl Chloride	**1.9**	J	13	2.5	0.80	
156-59-2	cis-1,2-Dichloroethene	**24**		13	2.5	0.75	
10061-01-5	cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	
179601-23-1	m,p-Xylenes	ND	U	25	5.0	0.83	
104-51-8	n-Butylbenzene	ND	U	13	2.5	0.53	
103-65-1	n-Propylbenzene	ND	U	13	2.5	0.50	
95-47-6	o-Xylene	ND	U	13	2.5	0.50	
135-98-8	sec-Butylbenzene	ND	U	13	2.5	0.68	
98-06-6	tert-Butylbenzene	ND	U	13	2.5	0.50	
156-60-5	trans-1,2-Dichloroethene	ND	U	13	2.5	0.83	
10061-02-6	trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1215
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:02
Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	Percent
Lab Code:	R1508244-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2.5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/9/15 17:02	
Dibromofluoromethane	95	85-115	10/9/15 17:02	
Toluene-d8	98	85-120	10/9/15 17:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1702

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	µg/L
Lab Code:	R1508244-012	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**17.0**	J

Comments:

00064

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1220
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/12/15 14:39
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1508244-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3030.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	1.9	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1220
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/12/15 14:39
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1508244-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3030.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.22**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.53**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1220
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/12/15 14:39
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	Percent
Lab Code:	R1508244-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3030.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/12/15 14:39	
Dibromofluoromethane	96	85-115	10/12/15 14:39	
Toluene-d8	99	85-120	10/12/15 14:39	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/12/15 1439

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1508244-013	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1225
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:51
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1508244-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.5**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1225
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:51
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1508244-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.22**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.24**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1225
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:51
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	Percent
Lab Code:	R1508244-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 17:51	
Dibromofluoromethane	95	85-115	10/9/15 17:51	
Toluene-d8	98	85-120	10/9/15 17:51	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1751

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1508244-014	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00072

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1230
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:15
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1508244-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.20**	J	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**0.91**	J	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1230
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:15
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1508244-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.23**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.37**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1230
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:15
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	Percent
Lab Code:	R1508244-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	75-120	10/9/15 18:15	
Dibromofluoromethane	93	85-115	10/9/15 18:15	
Toluene-d8	98	85-120	10/9/15 18:15	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1815

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1508244-015	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00076

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1235
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:40
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1508244-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1235
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:40
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1508244-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.21**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.23**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1235
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:40
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	Percent
Lab Code:	R1508244-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	75-120	10/9/15 18:40	
Dibromofluoromethane	94	85-115	10/9/15 18:40	
Toluene-d8	97	85-120	10/9/15 18:40	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1840

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1508244-016	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:12
Sample Name:	FTMM-TB-20150930	**Units:**	µg/L
Lab Code:	R1508244-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:12
Sample Name:	FTMM-TB-20150930	**Units:**	µg/L
Lab Code:	R1508244-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:12
Sample Name:	FTMM-TB-20150930	**Units:**	Percent
Lab Code:	R1508244-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 14:12	
Dibromofluoromethane	92	85-115	10/9/15 14:12	
Toluene-d8	97	85-120	10/9/15 14:12	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1412

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-TB-20150930	**Units:**	µg/L
Lab Code:	R1508244-017	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00084

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Analytical Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15 0910
Date Received: 10/ 1/15

Sample Name: FTMM-53-GW-699RW05-10
Lab Code: R1508244-018

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	1	NA	10/9/15 19:04		466298	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	1	NA	10/9/15 19:04		466298	
1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	1	NA	10/9/15 19:04		466298	
1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	1	NA	10/9/15 19:04		466298	
1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	1	NA	10/9/15 19:04		466298	
1,1-Dichloropropene	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	
1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	1	NA	10/9/15 19:04		466298	
1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	1	NA	10/9/15 19:04		466298	
1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	1	NA	10/9/15 19:04		466298	
1,2,4-Trimethylbenzene	**180**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	1	NA	10/9/15 19:04		466298	
1,2-Dibromoethane	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	1	NA	10/9/15 19:04		466298	
1,2-Dichloroethane	ND	U	5.0	1.0	0.36	1	NA	10/9/15 19:04		466298	
1,2-Dichloropropane	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,3,5-Trimethylbenzene	**4.6**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,3-Dichloropropane	ND	U	5.0	1.0	0.27	1	NA	10/9/15 19:04		466298	
1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
2,2-Dichloropropane	ND	U	5.0	1.0	0.27	1	NA	10/9/15 19:04		466298	
2-Butanone (MEK)	**0.82**	J	5.0	1.0	0.81	1	NA	10/9/15 19:04		466298	
2-Chlorotoluene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
2-Hexanone	ND	U	5.0	5.0	1.7	1	NA	10/9/15 19:04		466298	
tert-Butyl Alcohol	ND	U	100	20	11	1	NA	10/9/15 19:04		466298	
4-Chlorotoluene	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
p-Isopropyltoluene	**0.57**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	1	NA	10/9/15 19:04		466298	
Acetone	**5.8**		5.0	5.0	1.3	1	NA	10/9/15 19:04		466298	
Benzene	**2.8**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Bromobenzene	ND	U	5.0	1.0	0.28	1	NA	10/9/15 19:04		466298	
Bromochloromethane	ND	U	5.0	1.0	0.32	1	NA	10/9/15 19:04		466298	
Bromodichloromethane	ND	U	5.0	1.0	0.32	1	NA	10/9/15 19:04		466298	
Bromoform	ND	U	5.0	1.0	0.42	1	NA	10/9/15 19:04		466298	
Bromomethane	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	
Carbon Tetrachloride	ND	U	5.0	1.0	0.45	1	NA	10/9/15 19:04		466298	
Chlorobenzene	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0910
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-53-GW-699RW05-10	**Units:**	µg/L
Lab Code:	R1508244-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Chloroethane	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
Chloroform	ND	U	5.0	1.0	0.25	1	NA	10/9/15 19:04		466298	
Chloromethane	ND	U	5.0	1.0	0.21	1	NA	10/9/15 19:04		466298	
Dibromochloromethane	ND	U	5.0	1.0	0.31	1	NA	10/9/15 19:04		466298	
Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	1	NA	10/9/15 19:04		466298	
Methylene Chloride	ND	U	5.0	1.0	0.60	1	NA	10/9/15 19:04		466298	
Ethylbenzene	**180**	D	13	2.5	0.50	2.5	NA	10/12/15 15:03		466502	
Hexachlorobutadiene	ND	U	5.0	1.0	0.62	1	NA	10/9/15 19:04		466298	
Isopropylbenzene (Cumene)	**13**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	
Naphthalene	**39**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Styrene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	1	NA	10/9/15 19:04		466298	
Toluene	**9.4**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	1	NA	10/9/15 19:04		466298	
Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Vinyl Chloride	ND	U	5.0	1.0	0.32	1	NA	10/9/15 19:04		466298	
cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	1	NA	10/9/15 19:04		466298	
cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
m,p-Xylenes	**150**		10	2.0	0.33	1	NA	10/9/15 19:04		466298	
n-Butylbenzene	**0.67**	J	5.0	1.0	0.21	1	NA	10/9/15 19:04		466298	
n-Propylbenzene	**19**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
o-Xylene	**210**	D	13	2.5	0.50	2.5	NA	10/12/15 15:03		466502	
sec-Butylbenzene	**0.98**	J	5.0	1.0	0.27	1	NA	10/9/15 19:04		466298	
tert-Butylbenzene	**0.25**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	1	NA	10/9/15 19:04		466298	
trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 19:04	
Dibromofluoromethane	94	85-115	10/9/15 19:04	
Toluene-d8	99	85-120	10/9/15 19:04	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/ 9/15 - 10/12/15

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699RW05-10	**Units:**	µg/L
Lab Code:	R1508244-018	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.27	**14.7**	JN
000078-78-4	Butane, 2-methyl-	1.76	**75.1**	JN
000078-78-4	Butane, 2-methyl-	1.77	**103.9**	JN
000109-66-0	Pentane	1.98	**18.8**	JN
000109-66-0	Pentane	1.98	**28.8**	JN
	unknown	2.84	**18.3**	J
000079-29-8	Butane, 2,3-dimethyl-	2.84	**29.7**	JN
	unknown	2.89	**26.6**	J
000107-83-5	Pentane, 2-methyl-	2.89	**42.9**	JN
000109-67-1	1-Pentene	2.93	**34.2**	JN
	unknown	2.93	**49.1**	J
000096-14-0	Pentane, 3-methyl-	3.18	**30.2**	JN
000096-14-0	Pentane, 3-methyl-	3.18	**43.6**	JN
000096-37-7	Cyclopentane, methyl-	4.43	**101.7**	JN
000096-37-7	Cyclopentane, methyl-	4.43	**140.6**	JN
000110-82-7	Cyclohexane	5.60	**15.7**	JN
000110-82-7	Cyclohexane	5.60	**19.7**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.33	**17.4**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.33	**20.7**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.35	**21.3**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.35	**24.2**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.57	**85.9**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.57	**98.4**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	12.05	**106.7**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	12.05	**120.4**	JN
	unknown	12.21	**130.7**	J
000496-11-7	Indane	12.21	**144.9**	JN
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	12.59	**16.8**	JN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	12.59	**20.3**	JN
000767-58-8	Indan, 1-methyl-	12.68	**18.9**	JN
027133-93-3	2,3-Dihydro-1-methylindene	12.68	**21.4**	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.90	**15.8**	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	12.91	**13.3**	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.94	**16.5**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.94	**20.0**	JN
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	13.16	**14.2**	JN

Comments:

027133-93-3	2,3-Dihydro-1-methylindene	13.28	**47.9**	JN
027133-93-3	2,3-Dihydro-1-methylindene	13.28	**41.8**	JN

Comments:

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 13:18
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512289-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2919.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 13:18
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512289-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2919.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.24**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 13:18
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1512289-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2919.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/8/15 13:18	
Dibromofluoromethane	91	85-115	10/8/15 13:18	
Toluene-d8	98	85-120	10/8/15 13:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 1318

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512289-01	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00036

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 13:48
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512398-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2975.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 13:48
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512398-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2975.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.29**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 13:48
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1512398-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2975.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/9/15 13:48	
Dibromofluoromethane	92	85-115	10/9/15 13:48	
Toluene-d8	97	85-120	10/9/15 13:48	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 1348

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512398-01	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00100

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 14:12
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512484-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3029.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00101

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 14:12
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512484-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3029.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 14:12
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1512484-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3029.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	75-120	10/12/15 14:12	
Dibromofluoromethane	95	85-115	10/12/15 14:12	
Toluene-d8	99	85-120	10/12/15 14:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 1412

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512484-01	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00104

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15
Date Received: 10/1/15
Date Analyzed: 10/ 9/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1508244-007

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1512398-05			FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1512398-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	44.0	50.0	88	50.2	50.0	100	80 - 130	13	30
1,1,1-Trichloroethane (TCA)	ND	43.8	50.0	88	46.9	50.0	94	65 - 130	7	30
1,1,2,2-Tetrachloroethane	ND	49.2	50.0	98	52.7	50.0	105	65 - 130	7	30
1,1,2-Trichloroethane	ND	44.4	50.0	89	46.9	50.0	94	75 - 125	6	30
1,1-Dichloroethane (1,1-DCA)	ND	49.8	50.0	100	50.8	50.0	102	70 - 135	2	30
1,1-Dichloroethene (1,1-DCE)	ND	50.3	50.0	101	51.8	50.0	104	70 - 130	3	30
1,1-Dichloropropene	ND	49.4	50.0	99	52.0	50.0	104	75 - 130	5	30
1,2,3-Trichlorobenzene	ND	48.1	50.0	96	50.0	50.0	100	75 - 125	4	30
1,2,3-Trichloropropane	ND	44.8	50.0	90	48.0	50.0	96	75 - 125	7	30
1,2,4-Trichlorobenzene	ND	46.1	50.0	92	50.0	50.0	100	65 - 135	8	30
1,2,4-Trimethylbenzene	32	80.4	50.0	98	83.5	50.0	104	75 - 130	4	30
1,2-Dibromo-3-chloropropane (DBC	ND	44.8	50.0	90	47.9	50.0	96	50 - 130	7	30
1,2-Dibromoethane	ND	43.1	50.0	86	46.6	50.0	93	80 - 120	8	30
1,2-Dichlorobenzene	ND	45.8	50.0	92	48.1	50.0	96	70 - 120	5	30
1,2-Dichloroethane	ND	44.8	50.0	90	46.4	50.0	93	70 - 130	3	30
1,2-Dichloropropane	ND	49.3	50.0	99	52.5	50.0	105	75 - 125	6	30
1,3,5-Trimethylbenzene	3.7	54.2	50.0	101	57.5	50.0	108	75 - 130	6	30
1,3-Dichlorobenzene	ND	47.1	50.0	94	49.0	50.0	98	75 - 125	4	30
1,3-Dichloropropane	ND	44.5	50.0	89	47.3	50.0	95	75 - 125	6	30
1,4-Dichlorobenzene	ND	44.0	50.0	88	47.3	50.0	95	75 - 125	7	30
2,2-Dichloropropane	ND	38.0	50.0	76	40.5	50.0	81	70 - 135	6	30
2-Butanone (MEK)	ND	52.8	50.0	106	52.4	50.0	105	30 - 150	<1	30
2-Chlorotoluene	ND	49.2	50.0	98	51.7	50.0	103	75 - 125	5	30
2-Hexanone	ND	49.7	50.0	99	52.3	50.0	105	55 - 130	5	30
tert-Butyl Alcohol	ND	800	1000	80	855	1000	86	50 - 150	7	30
4-Chlorotoluene	ND	48.1	50.0	96	50.8	50.0	102	75 - 130	6	30
p-Isopropyltoluene	ND	52.9	50.0	106	56.3	50.0	113	75 - 130	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00105

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15
Date Received: 10/1/15
Date Analyzed: 10/ 9/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1508244-007

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1512398-05				FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1512398-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**		**Result**	**Spike Amount**	**% Rec**		**% Rec Limits**	**RPD**	**RPD Limit**
4-Methyl-2-pentanone	ND	54.0	50.0	108		55.3	50.0	111		60 - 135	2	30
Acetone	2.2	46.4	50.0	89		45.1	50.0	86		40 - 140	3	30
Benzene	1.7	48.9	50.0	94		51.4	50.0	100		80 - 120	5	30
Bromobenzene	ND	48.4	50.0	97		49.6	50.0	99		75 - 125	2	30
Bromochloromethane	ND	48.7	50.0	97		49.6	50.0	99		65 - 130	2	30
Bromodichloromethane	ND	42.8	50.0	86		44.9	50.0	90		75 - 120	5	30
Bromoform	ND	39.3	50.0	79		43.6	50.0	87		70 - 130	10	30
Bromomethane	ND	59.2	50.0	118		62.9	50.0	126		30 - 145	6	30
Carbon Tetrachloride	ND	44.6	50.0	89		48.5	50.0	97		65 - 140	9	30
Chlorobenzene	ND	46.5	50.0	93		50.2	50.0	100		80 - 120	8	30
Chloroethane	ND	66.0	50.0	132		65.2	50.0	130		60 - 135	1	30
Chloroform	ND	45.5	50.0	91		46.6	50.0	93		65 - 135	3	30
Chloromethane	ND	81.4	50.0	163	*	84.3	50.0	169	*	40 - 125	4	30
Dibromochloromethane	ND	43.7	50.0	87		48.5	50.0	97		60 - 135	10	30
Dichlorodifluoromethane (CFC 12)	ND	65.0	50.0	130		68.4	50.0	137		30 - 155	5	30
Methylene Chloride	ND	44.4	50.0	89		45.5	50.0	91		55 - 140	2	30
Ethylbenzene	37	82.4	50.0	92		85.2	50.0	97		75 - 125	3	30
Hexachlorobutadiene	ND	49.5	50.0	99		54.1	50.0	108		50 - 140	9	30
Isopropylbenzene (Cumene)	4.6	53.5	50.0	98		57.9	50.0	106		75 - 125	8	30
Methyl tert-Butyl Ether	ND	45.4	50.0	91		47.7	50.0	95		65 - 125	5	30
Naphthalene	5.3	57.4	50.0	104		60.5	50.0	110		55 - 140	5	30
Styrene	ND	48.7	50.0	97		52.0	50.0	104		65 - 135	7	30
Tetrachloroethene (PCE)	ND	45.6	50.0	91		46.8	50.0	94		45 - 150	2	30
Toluene	0.61	48.4	50.0	96		50.0	50.0	99		75 - 120	3	30
Trichloroethene (TCE)	ND	42.5	50.0	85		44.5	50.0	89		70 - 125	4	30
Trichlorofluoromethane (CFC 11)	ND	55.0	50.0	110		56.0	50.0	112		60 - 145	2	30
Vinyl Chloride	ND	72.0	50.0	144		74.7	50.0	149	*	50 - 145	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00106

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15
Date Received: 10/1/15
Date Analyzed: 10/ 9/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1508244-007

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1512398-05			FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1512398-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
cis-1,2-Dichloroethene	ND	47.6	50.0	95	48.9	50.0	98	70 - 125	3	30
cis-1,3-Dichloropropene	ND	45.8	50.0	92	48.9	50.0	98	70 - 130	7	30
m,p-Xylenes	46	142	100	96	148	100	102	75 - 130	4	30
n-Butylbenzene	ND	49.1	50.0	98	53.2	50.0	106	70 - 135	8	30
n-Propylbenzene	4.2	54.1	50.0	100	57.3	50.0	106	70 - 130	6	30
o-Xylene	2.9	48.6	50.0	91	51.6	50.0	97	80 - 120	6	30
sec-Butylbenzene	ND	51.6	50.0	103	54.2	50.0	108	70 - 125	5	30
tert-Butylbenzene	ND	52.5	50.0	105	56.8	50.0	114	70 - 130	8	30
trans-1,2-Dichloroethene	ND	48.7	50.0	97	51.0	50.0	102	60 - 140	5	30
trans-1,3-Dichloropropene	ND	44.1	50.0	88	46.2	50.0	92	55 - 140	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00107

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 465971

Analyte Name	Lab Control Sample RQ1512289-02 Result	Spike Amount	% Rec	Duplicate Lab Control Sample RQ1512289-03 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	18.0	20.0	90	18.3	20.0	92	80 - 130	2	30
1,1,1-Trichloroethane (TCA)	16.9	20.0	84	17.2	20.0	86	65 - 130	2	30
1,1,2,2-Tetrachloroethane	18.9	20.0	94	18.6	20.0	93	65 - 130	1	30
1,1,2-Trichloroethane	18.6	20.0	93	19.3	20.0	97	75 - 125	4	30
1,1-Dichloroethane (1,1-DCA)	19.1	20.0	95	19.6	20.0	98	70 - 135	3	30
1,1-Dichloroethene (1,1-DCE)	19.4	20.0	97	19.1	20.0	96	70 - 130	1	30
1,1-Dichloropropene	19.8	20.0	99	19.2	20.0	96	75 - 130	3	30
1,2,3-Trichlorobenzene	20.5	20.0	103	20.9	20.0	105	75 - 125	2	30
1,2,3-Trichloropropane	18.9	20.0	94	18.9	20.0	94	75 - 125	<1	30
1,2,4-Trichlorobenzene	19.6	20.0	98	21.0	20.0	105	65 - 135	7	30
1,2,4-Trimethylbenzene	20.9	20.0	104	21.7	20.0	108	75 - 130	4	30
1,2-Dibromo-3-chloropropane (DBCP)	18.1	20.0	91	18.2	20.0	91	50 - 130	<1	30
1,2-Dibromoethane	18.6	20.0	93	19.1	20.0	96	80 - 120	3	30
1,2-Dichlorobenzene	19.2	20.0	96	19.9	20.0	99	70 - 120	4	30
1,2-Dichloroethane	17.9	20.0	89	18.7	20.0	93	70 - 130	4	30
1,2-Dichloropropane	19.4	20.0	97	20.4	20.0	102	75 - 125	5	30
1,3,5-Trimethylbenzene	20.2	20.0	101	21.4	20.0	107	75 - 130	5	30
1,3-Dichlorobenzene	20.1	20.0	100	20.4	20.0	102	75 - 125	2	30
1,3-Dichloropropane	19.0	20.0	95	19.3	20.0	96	75 - 125	1	30
1,4-Dichlorobenzene	18.9	20.0	94	19.4	20.0	97	75 - 125	3	30
2,2-Dichloropropane	16.6	20.0	83	17.2	20.0	86	70 - 135	3	30
2-Butanone (MEK)	22.7	20.0	113	24.0	20.0	120	30 - 150	6	30
2-Chlorotoluene	19.5	20.0	97	20.3	20.0	101	75 - 125	4	30
2-Hexanone	22.2	20.0	111	22.4	20.0	112	55 - 130	1	30
tert-Butyl Alcohol	331	400	83	331	400	83	50 - 150	<1	30
4-Chlorotoluene	19.7	20.0	99	20.6	20.0	103	75 - 130	4	30
p-Isopropyltoluene	21.4	20.0	107	22.6	20.0	113	75 - 130	6	30
4-Methyl-2-pentanone	22.3	20.0	111	23.1	20.0	115	60 - 135	4	30
Acetone	21.8	20.0	109	21.6	20.0	108	40 - 140	1	30
Benzene	19.0	20.0	95	19.1	20.0	95	80 - 120	<1	30
Bromobenzene	20.5	20.0	102	20.2	20.0	101	75 - 125	1	30
Bromochloromethane	20.3	20.0	102	20.2	20.0	101	65 - 130	<1	30
Bromodichloromethane	17.3	20.0	87	17.5	20.0	88	75 - 120	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00108

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 465971

Analyte Name	Lab Control Sample RQ1512289-02 Result	Spike Amount	% Rec		Duplicate Lab Control Sample RQ1512289-03 Result	Spike Amount	% Rec		% Rec Limits	RPD	RPD Limit
Bromoform	16.3	20.0	81		16.3	20.0	81		70 - 130	<1	30
Bromomethane	25.2	20.0	126		25.9	20.0	130		30 - 145	3	30
Carbon Tetrachloride	16.3	20.0	82		17.9	20.0	89		65 - 140	9	30
Chlorobenzene	18.8	20.0	94		19.9	20.0	99		80 - 120	5	30
Chloroethane	24.6	20.0	123		25.6	20.0	128		60 - 135	4	30
Chloroform	17.9	20.0	90		18.7	20.0	94		65 - 135	4	30
Chloromethane	33.2	20.0	166	*	33.4	20.0	167	*	40 - 125	<1	30
Dibromochloromethane	18.4	20.0	92		18.1	20.0	91		60 - 135	2	30
Dichlorodifluoromethane (CFC 12)	26.5	20.0	133		26.8	20.0	134		30 - 155	1	30
Methylene Chloride	18.0	20.0	90		18.1	20.0	91		55 - 140	<1	30
Ethylbenzene	18.4	20.0	92		20.2	20.0	101		75 - 125	9	30
Hexachlorobutadiene	21.0	20.0	105		22.0	20.0	110		50 - 140	5	30
Isopropylbenzene (Cumene)	19.8	20.0	99		20.2	20.0	101		75 - 125	2	30
Methyl tert-Butyl Ether	19.6	20.0	98		19.7	20.0	99		65 - 125	<1	30
Naphthalene	21.9	20.0	110		22.1	20.0	111		55 - 140	<1	30
Styrene	20.3	20.0	101		19.9	20.0	100		65 - 135	2	30
Tetrachloroethene (PCE)	18.5	20.0	93		18.5	20.0	93		45 - 150	<1	30
Toluene	19.1	20.0	96		19.5	20.0	98		75 - 120	2	30
Trichloroethene (TCE)	18.6	20.0	93		18.4	20.0	92		70 - 125	1	30
Trichlorofluoromethane (CFC 11)	21.0	20.0	105		21.0	20.0	105		60 - 145	<1	30
Vinyl Chloride	27.2	20.0	136		27.4	20.0	137		50 - 145	<1	30
cis-1,2-Dichloroethene	18.6	20.0	93		19.2	20.0	96		70 - 125	3	30
cis-1,3-Dichloropropene	19.0	20.0	95		19.1	20.0	96		70 - 130	<1	30
m,p-Xylenes	39.8	40.0	99		40.3	40.0	101		75 - 130	1	30
n-Butylbenzene	20.5	20.0	102		21.5	20.0	107		70 - 135	5	30
n-Propylbenzene	20.9	20.0	104		21.1	20.0	105		70 - 130	1	30
o-Xylene	19.2	20.0	96		19.1	20.0	96		80 - 120	<1	30
sec-Butylbenzene	20.5	20.0	102		21.1	20.0	105		70 - 125	3	30
tert-Butylbenzene	21.1	20.0	105		22.0	20.0	110		70 - 130	4	30
trans-1,2-Dichloroethene	19.6	20.0	98		19.3	20.0	96		60 - 140	1	30
trans-1,3-Dichloropropene	18.7	20.0	94		18.9	20.0	94		55 - 140	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00109

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 9/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466298

Lab Control Sample
RQ1512398-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.2	20.0	91	80 - 130
1,1,1-Trichloroethane (TCA)	16.4	20.0	82	65 - 130
1,1,2,2-Tetrachloroethane	18.7	20.0	93	65 - 130
1,1,2-Trichloroethane	17.7	20.0	89	75 - 125
1,1-Dichloroethane (1,1-DCA)	19.0	20.0	95	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.6	20.0	93	70 - 130
1,1-Dichloropropene	18.5	20.0	93	75 - 130
1,2,3-Trichlorobenzene	19.6	20.0	98	75 - 125
1,2,3-Trichloropropane	19.0	20.0	95	75 - 125
1,2,4-Trichlorobenzene	19.5	20.0	97	65 - 135
1,2,4-Trimethylbenzene	20.9	20.0	105	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	17.8	20.0	89	50 - 130
1,2-Dibromoethane	18.3	20.0	92	80 - 120
1,2-Dichlorobenzene	19.5	20.0	98	70 - 120
1,2-Dichloroethane	18.6	20.0	93	70 - 130
1,2-Dichloropropane	19.5	20.0	98	75 - 125
1,3,5-Trimethylbenzene	20.7	20.0	103	75 - 130
1,3-Dichlorobenzene	19.7	20.0	98	75 - 125
1,3-Dichloropropane	18.8	20.0	94	75 - 125
1,4-Dichlorobenzene	18.9	20.0	95	75 - 125
2,2-Dichloropropane	16.1	20.0	80	70 - 135
2-Butanone (MEK)	24.4	20.0	122	30 - 150
2-Chlorotoluene	19.9	20.0	100	75 - 125
2-Hexanone	21.9	20.0	109	55 - 130
tert-Butyl Alcohol	323	400	81	50 - 150
4-Chlorotoluene	20.1	20.0	100	75 - 130
p-Isopropyltoluene	21.5	20.0	107	75 - 130
4-Methyl-2-pentanone	23.2	20.0	116	60 - 135
Acetone	22.7	20.0	113	40 - 140
Benzene	18.9	20.0	95	80 - 120
Bromobenzene	20.3	20.0	102	75 - 125
Bromochloromethane	20.0	20.0	100	65 - 130
Bromodichloromethane	17.1	20.0	85	75 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00110

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 9/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466298

Lab Control Sample
RQ1512398-02

Analyte Name	Result	Spike Amount	% Rec		% Rec Limits
Bromoform	15.6	20.0	78		70 - 130
Bromomethane	21.4	20.0	107		30 - 145
Carbon Tetrachloride	15.8	20.0	79		65 - 140
Chlorobenzene	18.7	20.0	94		80 - 120
Chloroethane	24.2	20.0	121		60 - 135
Chloroform	18.2	20.0	91		65 - 135
Chloromethane	30.4	20.0	152	*	40 - 125
Dibromochloromethane	18.1	20.0	90		60 - 135
Dichlorodifluoromethane (CFC 12)	23.4	20.0	117		30 - 155
Methylene Chloride	17.6	20.0	88		55 - 140
Ethylbenzene	18.4	20.0	92		75 - 125
Hexachlorobutadiene	20.0	20.0	100		50 - 140
Isopropylbenzene (Cumene)	19.2	20.0	96		75 - 125
Methyl tert-Butyl Ether	18.9	20.0	94		65 - 125
Naphthalene	21.6	20.0	108		55 - 140
Styrene	19.5	20.0	97		65 - 135
Tetrachloroethene (PCE)	18.2	20.0	91		45 - 150
Toluene	19.2	20.0	96		75 - 120
Trichloroethene (TCE)	17.6	20.0	88		70 - 125
Trichlorofluoromethane (CFC 11)	19.5	20.0	97		60 - 145
Vinyl Chloride	25.3	20.0	127		50 - 145
cis-1,2-Dichloroethene	18.1	20.0	91		70 - 125
cis-1,3-Dichloropropene	18.6	20.0	93		70 - 130
m,p-Xylenes	38.8	40.0	97		75 - 130
n-Butylbenzene	20.0	20.0	100		70 - 135
n-Propylbenzene	20.3	20.0	102		70 - 130
o-Xylene	18.7	20.0	93		80 - 120
sec-Butylbenzene	20.3	20.0	102		70 - 125
tert-Butylbenzene	21.1	20.0	106		70 - 130
trans-1,2-Dichloroethene	18.8	20.0	94		60 - 140
trans-1,3-Dichloropropene	18.8	20.0	94		55 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00111

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/12/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466502

Analyte Name	Lab Control Sample RQ1512484-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	16.3	20.0	82	80 - 130
1,1,1-Trichloroethane (TCA)	16.1	20.0	81	65 - 130
1,1,2,2-Tetrachloroethane	19.3	20.0	97	65 - 130
1,1,2-Trichloroethane	18.1	20.0	90	75 - 125
1,1-Dichloroethane (1,1-DCA)	18.0	20.0	90	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.4	20.0	92	70 - 130
1,1-Dichloropropene	17.9	20.0	90	75 - 130
1,2,3-Trichlorobenzene	19.2	20.0	96	75 - 125
1,2,3-Trichloropropane	17.6	20.0	88	75 - 125
1,2,4-Trichlorobenzene	19.4	20.0	97	65 - 135
1,2,4-Trimethylbenzene	20.1	20.0	101	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	16.0	20.0	80	50 - 130
1,2-Dibromoethane	17.5	20.0	88	80 - 120
1,2-Dichlorobenzene	18.7	20.0	93	70 - 120
1,2-Dichloroethane	17.2	20.0	86	70 - 130
1,2-Dichloropropane	18.2	20.0	91	75 - 125
1,3,5-Trimethylbenzene	19.6	20.0	98	75 - 130
1,3-Dichlorobenzene	19.1	20.0	95	75 - 125
1,3-Dichloropropane	17.5	20.0	87	75 - 125
1,4-Dichlorobenzene	18.0	20.0	90	75 - 125
2,2-Dichloropropane	15.2	20.0	76	70 - 135
2-Butanone (MEK)	21.2	20.0	106	30 - 150
2-Chlorotoluene	18.8	20.0	94	75 - 125
2-Hexanone	19.0	20.0	95	55 - 130
tert-Butyl Alcohol	271	400	68	50 - 150
4-Chlorotoluene	19.0	20.0	95	75 - 130
p-Isopropyltoluene	20.7	20.0	104	75 - 130
4-Methyl-2-pentanone	20.3	20.0	102	60 - 135
Acetone	20.0	20.0	100	40 - 140
Benzene	17.6	20.0	88	80 - 120
Bromobenzene	19.1	20.0	95	75 - 125
Bromochloromethane	19.2	20.0	96	65 - 130
Bromodichloromethane	15.6	20.0	78	75 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00112

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/12/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466502

Lab Control Sample
RQ1512484-02

Analyte Name	Result	Spike Amount	% Rec		% Rec Limits
Bromoform	15.2	20.0	76		70 - 130
Bromomethane	22.6	20.0	113		30 - 145
Carbon Tetrachloride	15.0	20.0	75		65 - 140
Chlorobenzene	18.2	20.0	91		80 - 120
Chloroethane	23.4	20.0	117		60 - 135
Chloroform	17.3	20.0	86		65 - 135
Chloromethane	29.0	20.0	145	*	40 - 125
Dibromochloromethane	17.4	20.0	87		60 - 135
Dichlorodifluoromethane (CFC 12)	23.5	20.0	118		30 - 155
Methylene Chloride	17.5	20.0	87		55 - 140
Ethylbenzene	17.2	20.0	86		75 - 125
Hexachlorobutadiene	21.1	20.0	105		50 - 140
Isopropylbenzene (Cumene)	18.8	20.0	94		75 - 125
Methyl tert-Butyl Ether	18.4	20.0	92		65 - 125
Naphthalene	20.9	20.0	104		55 - 140
Styrene	18.6	20.0	93		65 - 135
Tetrachloroethene (PCE)	17.1	20.0	86		45 - 150
Toluene	18.0	20.0	90		75 - 120
Trichloroethene (TCE)	15.7	20.0	78		70 - 125
Trichlorofluoromethane (CFC 11)	20.0	20.0	100		60 - 145
Vinyl Chloride	25.4	20.0	127		50 - 145
cis-1,2-Dichloroethene	17.6	20.0	88		70 - 125
cis-1,3-Dichloropropene	18.4	20.0	92		70 - 130
m,p-Xylenes	37.5	40.0	94		75 - 130
n-Butylbenzene	19.5	20.0	98		70 - 135
n-Propylbenzene	19.2	20.0	96		70 - 130
o-Xylene	17.7	20.0	88		80 - 120
sec-Butylbenzene	19.7	20.0	99		70 - 125
tert-Butylbenzene	19.9	20.0	99		70 - 130
trans-1,2-Dichloroethene	19.0	20.0	95		60 - 140
trans-1,3-Dichloropropene	17.5	20.0	87		55 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00113

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

October 28, 2015

Analytical Report for Service Request No: R1508244

Sandra de las Fuentes
Parsons, Inc.
8000 Centre Park Drive, Suite 200
Austin, TX 78754

Laboratory Results for: FTMM Q3 2015 GW Sampling/748810-03000

Dear Sandra:

Enclosed are the results of the sample(s) submitted to our laboratory on October 1, 2015. For your reference, these analyses have been assigned our service request number **R1508244**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

Parsons, Inc.
R1508244

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ALS Environmental

SDG NARRATIVE

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Client:	Parsons, Inc.
Service Request No.:	R1508244
Project:	Fort Monmouth Q3
Date Received:	10/1/15
Sample Matrix:	Water
Project/Case No.:	748810-03000

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS). A review to the EDD to the signed report has been performed and the EDD is correct and complete.

Sample Receipt

Water samples were received for analysis at ALS Environmental on 10/1/15. The samples were received in good condition except as noted on the Cooler Receipt and Preservation Check Form immediately following the Chain of Custody in the report. The samples were consistent with the Chain of Custody. The Cooler temperature upon receipt was within the proper guidelines. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Comments

The DOD QSM 4.2 requires detections reported to the Method Detection Limit (MDL). Values greater than the MDL and less than the Limit of Quantitation (LOQ) were flagged as estimates (J). Values less than the MDL and Limit of Detection (LOD) were reported as non-detect (ND). The LOD for each analyte is verified quarterly by the laboratory using procedures defined in DOD Quality Systems Manual Version 4.2.

Volatile Organics

Eighteen water samples were analyzed for TCL Volatile organics by SW-846 method 5030/8260C. Any value detected between the LOQ and MDL was flagged with a "J" as estimated.

Library Searches against the NBS/EPA library were conducted on all samples. The 20 largest peaks, within 10 % of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest internal standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates presumptive evidence of a particular compound. Any sample requiring multiple dilutions' will have one TIC report with all TICs from each dilution reported. These samples may have multiple occurrences of TICs because they were found in multiple dilutions.

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria for Bromoform and n-Propylbenzene exceeded 15%. There were no hits for these compounds and all other QC were within QC limits. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except tert-Butyl Alcohol and Chloromethane on 10/8/15, tert-Butyl Alcohol, Bromoform and Chloromethane on 10/9/15 and Bromomethane, Chloromethane and Vinyl Chloride on the 10/12/15 CCV. All detected concentrations should be considered as estimated.

All surrogate standard recoveries were within acceptance limits for all samples.

Compounds that exceed the calibration range of the instrument have been flagged with an "E". Samples are repeated at a dilution and have been flagged with a "D". Both sets of data have been reported.

The Blank Spike (LCS) and Blank Spike Duplicate (DLCS) recoveries were all acceptable with the exception of Chloromethane on 10/8/15, 10/9/15 and 10/12/15. These were outside of the control limits high and have been flagged with a "*". The high bias allows for appropriate sensitivity of detection.
Site QC was requested on sample FTMM-53-GW-699MW06-10.2 (R1508244-007). All exceedences have been flagged with a "*".

The Method Blanks associated with these samples contained low level hits of Chloromethane on 10/8/15 and 10/9/15. These have been flagged with a "J". All affected data has been "B" flagged appropriately.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #:	748810-03000	Batch Complete:	Yes	Date Revised:	
Submission:	R1508244	Diskette Requested:	No	Date Due:	10/22/15
Client:	Parsons Engineering Science	Date:	11/20/15	Protocol:	SW846
Client Rep:	JJAEGER	Custody Seal: Present/Absent:		Shipping No.:	
Project:	FTMM Q3 2015 GW Sampling	Chain of Custody: Present/Absent:		SDG #:	FTMM-53-GW-699RW03-8.2

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1508244-001	FTMM-53-GW-699RW03-8.2	Water	8260C	9/30/15	10/1/15			
R1508244-002	FTMM-68-GW-565MW01-11.99	Water	8260C	9/30/15	10/1/15			
R1508244-002.R01	FTMM-68-GW-565MW01-11.99	Water	8260C	9/30/15	10/1/15			
R1508244-003	FTMM-68-GW-565MW01D-22.31	Water	8260C	9/30/15	10/1/15			
R1508244-003.R01	FTMM-68-GW-565MW01D-22.31	Water	8260C	9/30/15	10/1/15			
R1508244-004	FTMM-53-GW-699MW01-7.5	Water	8260C	9/30/15	10/1/15			
R1508244-005	FTMM-53-GW-699MW09-7.75	Water	8260C	9/30/15	10/1/15			
R1508244-006	FTMM-53-GW-699MW16-7.5	Water	8260C	9/30/15	10/1/15			
R1508244-007QC	FTMM-53-GW-699MW06-10.2	Water	8260C	9/30/15	10/1/15			
R1508244-008	FTMM-53-GW-699MW04-8.0	Water	8260C	9/30/15	10/1/15			
R1508244-009	FTMM-53-GW-699RW11-8.3	Water	8260C	9/30/15	10/1/15			
R1508244-010	FTMM-53-GW-699MW106-10.2	Water	8260C	9/30/15	10/1/15			
R1508244-011	FTMM-22-GW-CW1MW29-10.85	Water	8260C	9/30/15	10/1/15			
R1508244-012	FTMM-22-GW-CW1MW281-33.71	Water	8260C	9/30/15	10/1/15			
R1508244-013	FTMM-22-GW-CW1MW28-11.21	Water	8260C	9/30/15	10/1/15			
R1508244-014	FTMM-22-GW-CW1MW27-12.63	Water	8260C	9/30/15	10/1/15			
R1508244-015	FTMM-22-GW-CW1MW31-16.40	Water	8260C	9/30/15	10/1/15			
R1508244-016	FTMM-22-GW-CW1MW37-11.78	Water	8260C	9/30/15	10/1/15			
R1508244-017	FTMM-TB-20150930	Water	8260C	9/30/15	10/1/15			
R1508244-018	FTMM-53-GW-699RW05-10	Water	8260C	9/30/15	10/1/15			
R1508244-018.R01	FTMM-53-GW-699RW05-10	Water	8260C	9/30/15	10/1/15			

00051

Folder Comments: DoD reporting ERPTOOLS LOD

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Environmental

CHAINS OF CUSTODY

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

31287

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: FTMM Q3 2015 GW Sampling	Project Number: 148810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: C. Watson / A. DiIonno

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other ____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP +TICs	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
FTMM-53-GW-699RW03-8.2	8.2	9/30/15	0945	GW	3	X							
FTMM-68-GW-565MW01-11.99	11.99		0900		3	X							
FTMM-68-GW-565MW01D-22.31	22.31		0905		3	X							
FTMM-53-GW-699MW01-7.5	7.5		0915		3	X							
FTMM-53-GW-699MW09-7.75			0920		3	X							
FTMM-53-GW-699MW16-7.5			0925		3	X							
FTMM-53-GW-699MW06-10.2			0930		3	X							
FTMM-53-GW-699MW04-8.0			0935		3	X							
FTMM-53-GW-699RW11-8.3			0940		3	X							
FTMM-53-GW-699MW06-MS	10.2		0930		3	X							
FTMM-53-GW-699MW06-MSD	10.2	↓	0930	↓	3	X							

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: New Jersey

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature:	Signature:	Signature:	Signature:	
Printed Name: Alex DiIonno	Printed Name:	Printed Name:	Printed Name:	Printed Name:	
Firm: Parsons	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 9/30/15; 1630	Date/Time: 10/1/15 0730	Date/Time:	Date/Time:	Date/Time:	

R1508244 5
Parsons, Inc.
FTMM Baseline

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

31288

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: FTMM Q3 2015 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: C. Watson / A. DiTonno

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCAMS VOAs ◦ 8260 ◦ 624 ◦ CLP + TICs	GCAMS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
FTMM-53-GW-699MW10D01	10.2	9/30/15	1200	GW	3	X							
FTMM-22-GW-CWIMW29-1	0.85		1240	GW	3	X							
FTMM-22-GW-CWIMW28-1	33.71		1215	GW	3	X							
FTMM-22-GW-CWIMW28-1	1.21		1220	GW	3	X							
FTMM-22-GW-CWIMW27-1	2.63		1225	GW	3	X							
FTMM-22-GW-CWIMW31-1	6.40		1230	GW	3	X							
FTMM-22-GW-CWIMW37-1	1.78		1235	GW	3	X							
FTMM-TB-20150930			—	TB	3	X							
FTMM-53-GW-699RW05-1	0	↓	0910	GW	3	X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED: New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiTonno	Signature:	Signature	Signature	Signature	Signature
Printed Name: Alex DiTonno	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 9/30/15; 1630	Date/Time: 10/1/15 0730	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

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Cooler Receipt and Preservation Check Form

Project/Client Parsons Folder Number R15-8244

Cooler received on 10/1/15 by: @

COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 10/1/15 Time: 0738 ID: IR#3 (IR#5) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	2.3						
Correction Factor (°C)	-0.2						
Corrected Temp (°C)	2.1°						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by @ on 10/1/15 at 0740

5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 10/1/15

Cooler Breakdown: Date: 10/1/15 Time: 0744 by: @

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	4114070	8/16				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-130-002

Other Comments:

PC Secondary Review: JMS 10/1/15

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

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ALS ENVIRONMENTAL

Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1508244
Project: FTMM Q3 2015 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1508244-001.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1347	In Lab / FNAEGLER	
		10/8/15	1444	R-001-S10 / BWOJTASIEWICZ	
R1508244-001.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-001.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-002.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1347	In Lab / FNAEGLER	
		10/8/15	1444	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1734	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-002.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-002.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-003.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1347	In Lab / FNAEGLER	
		10/8/15	1444	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1734	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-003.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-003.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-004.01					

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ALS ENVIRONMENTAL
Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1508244
Project: FTMM Q3 2015 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1348	In Lab / FNAEGLER	
		10/8/15	1444	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1731	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-004.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-004.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-005.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1348	In Lab / FNAEGLER	
		10/8/15	1444	R-001-S10 / BWOJTASIEWICZ	
R1508244-005.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-005.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-006.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1348	In Lab / FNAEGLER	
		10/8/15	1444	R-001-S10 / BWOJTASIEWICZ	
R1508244-006.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-006.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.01					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	00012
R1508244-007.02					

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1508244
Project: FTMM Q3 2015 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.04					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.05					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.06					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.07					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.08					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-007.09					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1732	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-008.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1732	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-008.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-008.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	

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ALS ENVIRONMENTAL

Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1508244
Project: FTMM Q3 2015 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1508244-009.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-009.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-009.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-010.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-010.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-010.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-011.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-011.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-011.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-012.01					00014
	8260C				
		10/1/15	0743	SMO / GLAFORCE	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1508244
Project: FTMM Q3 2015 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-012.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-012.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-013.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-013.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-013.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-014.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-014.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-014.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-015.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	

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ALS ENVIRONMENTAL

Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1508244
Project: FTMM Q3 2015 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-015.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-015.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-016.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1339	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1733	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-016.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-016.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-017.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1340	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1731	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	
R1508244-017.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-017.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-018.01					
	8260C				
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
		10/8/15	1340	R-001-S10 / BWOJTASIEWICZ	
		10/9/15	1734	In Lab / FNAEGLER	
		10/9/15	1737	R-001-S10 / BWOJTASIEWICZ	

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ALS ENVIRONMENTAL

Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1508244
Project: FTMM Q3 2015 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1508244-018.02					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	
R1508244-018.03					
		10/1/15	0743	SMO / GLAFORCE	
		10/1/15	0744	R-001 / GLAFORCE	

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ALS Environmental

VOLATILE ORGANICS
QC SUMMARY

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15
Date Received: 10/1/15
Date Analyzed: 10/ 9/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1508244-007

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1512398-05			FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1512398-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	44.0	50.0	88	50.2	50.0	100	80 - 130	13	30
1,1,1-Trichloroethane (TCA)	ND	43.8	50.0	88	46.9	50.0	94	65 - 130	7	30
1,1,2,2-Tetrachloroethane	ND	49.2	50.0	98	52.7	50.0	105	65 - 130	7	30
1,1,2-Trichloroethane	ND	44.4	50.0	89	46.9	50.0	94	75 - 125	6	30
1,1-Dichloroethane (1,1-DCA)	ND	49.8	50.0	100	50.8	50.0	102	70 - 135	2	30
1,1-Dichloroethene (1,1-DCE)	ND	50.3	50.0	101	51.8	50.0	104	70 - 130	3	30
1,1-Dichloropropene	ND	49.4	50.0	99	52.0	50.0	104	75 - 130	5	30
1,2,3-Trichlorobenzene	ND	48.1	50.0	96	50.0	50.0	100	75 - 125	4	30
1,2,3-Trichloropropane	ND	44.8	50.0	90	48.0	50.0	96	75 - 125	7	30
1,2,4-Trichlorobenzene	ND	46.1	50.0	92	50.0	50.0	100	65 - 135	8	30
1,2,4-Trimethylbenzene	32	80.4	50.0	98	83.5	50.0	104	75 - 130	4	30
1,2-Dibromo-3-chloropropane (DBC	ND	44.8	50.0	90	47.9	50.0	96	50 - 130	7	30
1,2-Dibromoethane	ND	43.1	50.0	86	46.6	50.0	93	80 - 120	8	30
1,2-Dichlorobenzene	ND	45.8	50.0	92	48.1	50.0	96	70 - 120	5	30
1,2-Dichloroethane	ND	44.8	50.0	90	46.4	50.0	93	70 - 130	3	30
1,2-Dichloropropane	ND	49.3	50.0	99	52.5	50.0	105	75 - 125	6	30
1,3,5-Trimethylbenzene	3.7	54.2	50.0	101	57.5	50.0	108	75 - 130	6	30
1,3-Dichlorobenzene	ND	47.1	50.0	94	49.0	50.0	98	75 - 125	4	30
1,3-Dichloropropane	ND	44.5	50.0	89	47.3	50.0	95	75 - 125	6	30
1,4-Dichlorobenzene	ND	44.0	50.0	88	47.3	50.0	95	75 - 125	7	30
2,2-Dichloropropane	ND	38.0	50.0	76	40.5	50.0	81	70 - 135	6	30
2-Butanone (MEK)	ND	52.8	50.0	106	52.4	50.0	105	30 - 150	<1	30
2-Chlorotoluene	ND	49.2	50.0	98	51.7	50.0	103	75 - 125	5	30
2-Hexanone	ND	49.7	50.0	99	52.3	50.0	105	55 - 130	5	30
tert-Butyl Alcohol	ND	800	1000	80	855	1000	86	50 - 150	7	30
4-Chlorotoluene	ND	48.1	50.0	96	50.8	50.0	102	75 - 130	6	30
p-Isopropyltoluene	ND	52.9	50.0	106	56.3	50.0	113	75 - 130	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15
Date Received: 10/1/15
Date Analyzed: 10/ 9/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1508244-007

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1512398-05				FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1512398-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**		**Result**	**Spike Amount**	**% Rec**		**% Rec Limits**	**RPD**	**RPD Limit**
4-Methyl-2-pentanone	ND	54.0	50.0	108		55.3	50.0	111		60 - 135	2	30
Acetone	2.2	46.4	50.0	89		45.1	50.0	86		40 - 140	3	30
Benzene	1.7	48.9	50.0	94		51.4	50.0	100		80 - 120	5	30
Bromobenzene	ND	48.4	50.0	97		49.6	50.0	99		75 - 125	2	30
Bromochloromethane	ND	48.7	50.0	97		49.6	50.0	99		65 - 130	2	30
Bromodichloromethane	ND	42.8	50.0	86		44.9	50.0	90		75 - 120	5	30
Bromoform	ND	39.3	50.0	79		43.6	50.0	87		70 - 130	10	30
Bromomethane	ND	59.2	50.0	118		62.9	50.0	126		30 - 145	6	30
Carbon Tetrachloride	ND	44.6	50.0	89		48.5	50.0	97		65 - 140	9	30
Chlorobenzene	ND	46.5	50.0	93		50.2	50.0	100		80 - 120	8	30
Chloroethane	ND	66.0	50.0	132		65.2	50.0	130		60 - 135	1	30
Chloroform	ND	45.5	50.0	91		46.6	50.0	93		65 - 135	3	30
Chloromethane	ND	81.4	50.0	163	*	84.3	50.0	169	*	40 - 125	4	30
Dibromochloromethane	ND	43.7	50.0	87		48.5	50.0	97		60 - 135	10	30
Dichlorodifluoromethane (CFC 12)	ND	65.0	50.0	130		68.4	50.0	137		30 - 155	5	30
Methylene Chloride	ND	44.4	50.0	89		45.5	50.0	91		55 - 140	2	30
Ethylbenzene	37	82.4	50.0	92		85.2	50.0	97		75 - 125	3	30
Hexachlorobutadiene	ND	49.5	50.0	99		54.1	50.0	108		50 - 140	9	30
Isopropylbenzene (Cumene)	4.6	53.5	50.0	98		57.9	50.0	106		75 - 125	8	30
Methyl tert-Butyl Ether	ND	45.4	50.0	91		47.7	50.0	95		65 - 125	5	30
Naphthalene	5.3	57.4	50.0	104		60.5	50.0	110		55 - 140	5	30
Styrene	ND	48.7	50.0	97		52.0	50.0	104		65 - 135	7	30
Tetrachloroethene (PCE)	ND	45.6	50.0	91		46.8	50.0	94		45 - 150	2	30
Toluene	0.61	48.4	50.0	96		50.0	50.0	99		75 - 120	3	30
Trichloroethene (TCE)	ND	42.5	50.0	85		44.5	50.0	89		70 - 125	4	30
Trichlorofluoromethane (CFC 11)	ND	55.0	50.0	110		56.0	50.0	112		60 - 145	2	30
Vinyl Chloride	ND	72.0	50.0	144		74.7	50.0	149	*	50 - 145	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00020

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15
Date Received: 10/1/15
Date Analyzed: 10/ 9/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1508244-007

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1512398-05			FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1512398-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
cis-1,2-Dichloroethene	ND	47.6	50.0	95	48.9	50.0	98	70 - 125	3	30
cis-1,3-Dichloropropene	ND	45.8	50.0	92	48.9	50.0	98	70 - 130	7	30
m,p-Xylenes	46	142	100	96	148	100	102	75 - 130	4	30
n-Butylbenzene	ND	49.1	50.0	98	53.2	50.0	106	70 - 135	8	30
n-Propylbenzene	4.2	54.1	50.0	100	57.3	50.0	106	70 - 130	6	30
o-Xylene	2.9	48.6	50.0	91	51.6	50.0	97	80 - 120	6	30
sec-Butylbenzene	ND	51.6	50.0	103	54.2	50.0	108	70 - 125	5	30
tert-Butylbenzene	ND	52.5	50.0	105	56.8	50.0	114	70 - 130	8	30
trans-1,2-Dichloroethene	ND	48.7	50.0	97	51.0	50.0	102	60 - 140	5	30
trans-1,3-Dichloropropene	ND	44.1	50.0	88	46.2	50.0	92	55 - 140	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00021

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 465971

Analyte Name	Lab Control Sample RQ1512289-02 Result	Spike Amount	% Rec	Duplicate Lab Control Sample RQ1512289-03 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	18.0	20.0	90	18.3	20.0	92	80 - 130	2	30
1,1,1-Trichloroethane (TCA)	16.9	20.0	84	17.2	20.0	86	65 - 130	2	30
1,1,2,2-Tetrachloroethane	18.9	20.0	94	18.6	20.0	93	65 - 130	1	30
1,1,2-Trichloroethane	18.6	20.0	93	19.3	20.0	97	75 - 125	4	30
1,1-Dichloroethane (1,1-DCA)	19.1	20.0	95	19.6	20.0	98	70 - 135	3	30
1,1-Dichloroethene (1,1-DCE)	19.4	20.0	97	19.1	20.0	96	70 - 130	1	30
1,1-Dichloropropene	19.8	20.0	99	19.2	20.0	96	75 - 130	3	30
1,2,3-Trichlorobenzene	20.5	20.0	103	20.9	20.0	105	75 - 125	2	30
1,2,3-Trichloropropane	18.9	20.0	94	18.9	20.0	94	75 - 125	<1	30
1,2,4-Trichlorobenzene	19.6	20.0	98	21.0	20.0	105	65 - 135	7	30
1,2,4-Trimethylbenzene	20.9	20.0	104	21.7	20.0	108	75 - 130	4	30
1,2-Dibromo-3-chloropropane (DBCP)	18.1	20.0	91	18.2	20.0	91	50 - 130	<1	30
1,2-Dibromoethane	18.6	20.0	93	19.1	20.0	96	80 - 120	3	30
1,2-Dichlorobenzene	19.2	20.0	96	19.9	20.0	99	70 - 120	4	30
1,2-Dichloroethane	17.9	20.0	89	18.7	20.0	93	70 - 130	4	30
1,2-Dichloropropane	19.4	20.0	97	20.4	20.0	102	75 - 125	5	30
1,3,5-Trimethylbenzene	20.2	20.0	101	21.4	20.0	107	75 - 130	5	30
1,3-Dichlorobenzene	20.1	20.0	100	20.4	20.0	102	75 - 125	2	30
1,3-Dichloropropane	19.0	20.0	95	19.3	20.0	96	75 - 125	1	30
1,4-Dichlorobenzene	18.9	20.0	94	19.4	20.0	97	75 - 125	3	30
2,2-Dichloropropane	16.6	20.0	83	17.2	20.0	86	70 - 135	3	30
2-Butanone (MEK)	22.7	20.0	113	24.0	20.0	120	30 - 150	6	30
2-Chlorotoluene	19.5	20.0	97	20.3	20.0	101	75 - 125	4	30
2-Hexanone	22.2	20.0	111	22.4	20.0	112	55 - 130	1	30
tert-Butyl Alcohol	331	400	83	331	400	83	50 - 150	<1	30
4-Chlorotoluene	19.7	20.0	99	20.6	20.0	103	75 - 130	4	30
p-Isopropyltoluene	21.4	20.0	107	22.6	20.0	113	75 - 130	6	30
4-Methyl-2-pentanone	22.3	20.0	111	23.1	20.0	115	60 - 135	4	30
Acetone	21.8	20.0	109	21.6	20.0	108	40 - 140	1	30
Benzene	19.0	20.0	95	19.1	20.0	95	80 - 120	<1	30
Bromobenzene	20.5	20.0	102	20.2	20.0	101	75 - 125	1	30
Bromochloromethane	20.3	20.0	102	20.2	20.0	101	65 - 130	<1	30
Bromodichloromethane	17.3	20.0	87	17.5	20.0	88	75 - 120	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00022

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 8/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 465971

Analyte Name	Lab Control Sample RQ1512289-02 Result	Spike Amount	% Rec		Duplicate Lab Control Sample RQ1512289-03 Result	Spike Amount	% Rec		% Rec Limits	RPD	RPD Limit
Bromoform	16.3	20.0	81		16.3	20.0	81		70 - 130	<1	30
Bromomethane	25.2	20.0	126		25.9	20.0	130		30 - 145	3	30
Carbon Tetrachloride	16.3	20.0	82		17.9	20.0	89		65 - 140	9	30
Chlorobenzene	18.8	20.0	94		19.9	20.0	99		80 - 120	5	30
Chloroethane	24.6	20.0	123		25.6	20.0	128		60 - 135	4	30
Chloroform	17.9	20.0	90		18.7	20.0	94		65 - 135	4	30
Chloromethane	33.2	20.0	166	*	33.4	20.0	167	*	40 - 125	<1	30
Dibromochloromethane	18.4	20.0	92		18.1	20.0	91		60 - 135	2	30
Dichlorodifluoromethane (CFC 12)	26.5	20.0	133		26.8	20.0	134		30 - 155	1	30
Methylene Chloride	18.0	20.0	90		18.1	20.0	91		55 - 140	<1	30
Ethylbenzene	18.4	20.0	92		20.2	20.0	101		75 - 125	9	30
Hexachlorobutadiene	21.0	20.0	105		22.0	20.0	110		50 - 140	5	30
Isopropylbenzene (Cumene)	19.8	20.0	99		20.2	20.0	101		75 - 125	2	30
Methyl tert-Butyl Ether	19.6	20.0	98		19.7	20.0	99		65 - 125	<1	30
Naphthalene	21.9	20.0	110		22.1	20.0	111		55 - 140	<1	30
Styrene	20.3	20.0	101		19.9	20.0	100		65 - 135	2	30
Tetrachloroethene (PCE)	18.5	20.0	93		18.5	20.0	93		45 - 150	<1	30
Toluene	19.1	20.0	96		19.5	20.0	98		75 - 120	2	30
Trichloroethene (TCE)	18.6	20.0	93		18.4	20.0	92		70 - 125	1	30
Trichlorofluoromethane (CFC 11)	21.0	20.0	105		21.0	20.0	105		60 - 145	<1	30
Vinyl Chloride	27.2	20.0	136		27.4	20.0	137		50 - 145	<1	30
cis-1,2-Dichloroethene	18.6	20.0	93		19.2	20.0	96		70 - 125	3	30
cis-1,3-Dichloropropene	19.0	20.0	95		19.1	20.0	96		70 - 130	<1	30
m,p-Xylenes	39.8	40.0	99		40.3	40.0	101		75 - 130	1	30
n-Butylbenzene	20.5	20.0	102		21.5	20.0	107		70 - 135	5	30
n-Propylbenzene	20.9	20.0	104		21.1	20.0	105		70 - 130	1	30
o-Xylene	19.2	20.0	96		19.1	20.0	96		80 - 120	<1	30
sec-Butylbenzene	20.5	20.0	102		21.1	20.0	105		70 - 125	3	30
tert-Butylbenzene	21.1	20.0	105		22.0	20.0	110		70 - 130	4	30
trans-1,2-Dichloroethene	19.6	20.0	98		19.3	20.0	96		60 - 140	1	30
trans-1,3-Dichloropropene	18.7	20.0	94		18.9	20.0	94		55 - 140	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00023

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 9/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466298

Lab Control Sample
RQ1512398-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	18.2	20.0	91	80 - 130
1,1,1-Trichloroethane (TCA)	16.4	20.0	82	65 - 130
1,1,2,2-Tetrachloroethane	18.7	20.0	93	65 - 130
1,1,2-Trichloroethane	17.7	20.0	89	75 - 125
1,1-Dichloroethane (1,1-DCA)	19.0	20.0	95	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.6	20.0	93	70 - 130
1,1-Dichloropropene	18.5	20.0	93	75 - 130
1,2,3-Trichlorobenzene	19.6	20.0	98	75 - 125
1,2,3-Trichloropropane	19.0	20.0	95	75 - 125
1,2,4-Trichlorobenzene	19.5	20.0	97	65 - 135
1,2,4-Trimethylbenzene	20.9	20.0	105	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	17.8	20.0	89	50 - 130
1,2-Dibromoethane	18.3	20.0	92	80 - 120
1,2-Dichlorobenzene	19.5	20.0	98	70 - 120
1,2-Dichloroethane	18.6	20.0	93	70 - 130
1,2-Dichloropropane	19.5	20.0	98	75 - 125
1,3,5-Trimethylbenzene	20.7	20.0	103	75 - 130
1,3-Dichlorobenzene	19.7	20.0	98	75 - 125
1,3-Dichloropropane	18.8	20.0	94	75 - 125
1,4-Dichlorobenzene	18.9	20.0	95	75 - 125
2,2-Dichloropropane	16.1	20.0	80	70 - 135
2-Butanone (MEK)	24.4	20.0	122	30 - 150
2-Chlorotoluene	19.9	20.0	100	75 - 125
2-Hexanone	21.9	20.0	109	55 - 130
tert-Butyl Alcohol	323	400	81	50 - 150
4-Chlorotoluene	20.1	20.0	100	75 - 130
p-Isopropyltoluene	21.5	20.0	107	75 - 130
4-Methyl-2-pentanone	23.2	20.0	116	60 - 135
Acetone	22.7	20.0	113	40 - 140
Benzene	18.9	20.0	95	80 - 120
Bromobenzene	20.3	20.0	102	75 - 125
Bromochloromethane	20.0	20.0	100	65 - 130
Bromodichloromethane	17.1	20.0	85	75 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00024

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/ 9/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466298

Lab Control Sample
RQ1512398-02

Analyte Name	Result	Spike Amount	% Rec		% Rec Limits
Bromoform	15.6	20.0	78		70 - 130
Bromomethane	21.4	20.0	107		30 - 145
Carbon Tetrachloride	15.8	20.0	79		65 - 140
Chlorobenzene	18.7	20.0	94		80 - 120
Chloroethane	24.2	20.0	121		60 - 135
Chloroform	18.2	20.0	91		65 - 135
Chloromethane	30.4	20.0	152	*	40 - 125
Dibromochloromethane	18.1	20.0	90		60 - 135
Dichlorodifluoromethane (CFC 12)	23.4	20.0	117		30 - 155
Methylene Chloride	17.6	20.0	88		55 - 140
Ethylbenzene	18.4	20.0	92		75 - 125
Hexachlorobutadiene	20.0	20.0	100		50 - 140
Isopropylbenzene (Cumene)	19.2	20.0	96		75 - 125
Methyl tert-Butyl Ether	18.9	20.0	94		65 - 125
Naphthalene	21.6	20.0	108		55 - 140
Styrene	19.5	20.0	97		65 - 135
Tetrachloroethene (PCE)	18.2	20.0	91		45 - 150
Toluene	19.2	20.0	96		75 - 120
Trichloroethene (TCE)	17.6	20.0	88		70 - 125
Trichlorofluoromethane (CFC 11)	19.5	20.0	97		60 - 145
Vinyl Chloride	25.3	20.0	127		50 - 145
cis-1,2-Dichloroethene	18.1	20.0	91		70 - 125
cis-1,3-Dichloropropene	18.6	20.0	93		70 - 130
m,p-Xylenes	38.8	40.0	97		75 - 130
n-Butylbenzene	20.0	20.0	100		70 - 135
n-Propylbenzene	20.3	20.0	102		70 - 130
o-Xylene	18.7	20.0	93		80 - 120
sec-Butylbenzene	20.3	20.0	102		70 - 125
tert-Butylbenzene	21.1	20.0	106		70 - 130
trans-1,2-Dichloroethene	18.8	20.0	94		60 - 140
trans-1,3-Dichloropropene	18.8	20.0	94		55 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00025

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/12/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466502

Lab Control Sample
RQ1512484-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	16.3	20.0	82	80 - 130
1,1,1-Trichloroethane (TCA)	16.1	20.0	81	65 - 130
1,1,2,2-Tetrachloroethane	19.3	20.0	97	65 - 130
1,1,2-Trichloroethane	18.1	20.0	90	75 - 125
1,1-Dichloroethane (1,1-DCA)	18.0	20.0	90	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.4	20.0	92	70 - 130
1,1-Dichloropropene	17.9	20.0	90	75 - 130
1,2,3-Trichlorobenzene	19.2	20.0	96	75 - 125
1,2,3-Trichloropropane	17.6	20.0	88	75 - 125
1,2,4-Trichlorobenzene	19.4	20.0	97	65 - 135
1,2,4-Trimethylbenzene	20.1	20.0	101	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	16.0	20.0	80	50 - 130
1,2-Dibromoethane	17.5	20.0	88	80 - 120
1,2-Dichlorobenzene	18.7	20.0	93	70 - 120
1,2-Dichloroethane	17.2	20.0	86	70 - 130
1,2-Dichloropropane	18.2	20.0	91	75 - 125
1,3,5-Trimethylbenzene	19.6	20.0	98	75 - 130
1,3-Dichlorobenzene	19.1	20.0	95	75 - 125
1,3-Dichloropropane	17.5	20.0	87	75 - 125
1,4-Dichlorobenzene	18.0	20.0	90	75 - 125
2,2-Dichloropropane	15.2	20.0	76	70 - 135
2-Butanone (MEK)	21.2	20.0	106	30 - 150
2-Chlorotoluene	18.8	20.0	94	75 - 125
2-Hexanone	19.0	20.0	95	55 - 130
tert-Butyl Alcohol	271	400	68	50 - 150
4-Chlorotoluene	19.0	20.0	95	75 - 130
p-Isopropyltoluene	20.7	20.0	104	75 - 130
4-Methyl-2-pentanone	20.3	20.0	102	60 - 135
Acetone	20.0	20.0	100	40 - 140
Benzene	17.6	20.0	88	80 - 120
Bromobenzene	19.1	20.0	95	75 - 125
Bromochloromethane	19.2	20.0	96	65 - 130
Bromodichloromethane	15.6	20.0	78	75 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

00026

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Analyzed: 10/12/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 466502

Lab Control Sample
RQ1512484-02

Analyte Name	Result	Spike Amount	% Rec		% Rec Limits
Bromoform	15.2	20.0	76		70 - 130
Bromomethane	22.6	20.0	113		30 - 145
Carbon Tetrachloride	15.0	20.0	75		65 - 140
Chlorobenzene	18.2	20.0	91		80 - 120
Chloroethane	23.4	20.0	117		60 - 135
Chloroform	17.3	20.0	86		65 - 135
Chloromethane	29.0	20.0	145	*	40 - 125
Dibromochloromethane	17.4	20.0	87		60 - 135
Dichlorodifluoromethane (CFC 12)	23.5	20.0	118		30 - 155
Methylene Chloride	17.5	20.0	87		55 - 140
Ethylbenzene	17.2	20.0	86		75 - 125
Hexachlorobutadiene	21.1	20.0	105		50 - 140
Isopropylbenzene (Cumene)	18.8	20.0	94		75 - 125
Methyl tert-Butyl Ether	18.4	20.0	92		65 - 125
Naphthalene	20.9	20.0	104		55 - 140
Styrene	18.6	20.0	93		65 - 135
Tetrachloroethene (PCE)	17.1	20.0	86		45 - 150
Toluene	18.0	20.0	90		75 - 120
Trichloroethene (TCE)	15.7	20.0	78		70 - 125
Trichlorofluoromethane (CFC 11)	20.0	20.0	100		60 - 145
Vinyl Chloride	25.4	20.0	127		50 - 145
cis-1,2-Dichloroethene	17.6	20.0	88		70 - 125
cis-1,3-Dichloropropene	18.4	20.0	92		70 - 130
m,p-Xylenes	37.5	40.0	94		75 - 130
n-Butylbenzene	19.5	20.0	98		70 - 135
n-Propylbenzene	19.2	20.0	96		70 - 130
o-Xylene	17.7	20.0	88		80 - 120
sec-Butylbenzene	19.7	20.0	99		70 - 125
tert-Butylbenzene	19.9	20.0	99		70 - 130
trans-1,2-Dichloroethene	19.0	20.0	95		60 - 140
trans-1,3-Dichloropropene	17.5	20.0	87		55 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Analyzed:**	10/8/15 13:18
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-10
Lab Code:	RQ1512289-01	**File ID:**	I:\ACQUDATA\msvoa10\data\100815\F2919.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1512289-02	I:\ACQUDATA\msvoa10\data\100815\F2915.D\	10/8/15 11:16
Duplicate Lab Control Sample	RQ1512289-03	I:\ACQUDATA\msvoa10\data\100815\F2916.D\	10/8/15 11:45
FTMM-53-GW-699RW03-8.2	R1508244-001	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	10/8/15 19:46
FTMM-68-GW-565MW01-11.99	R1508244-002	I:\ACQUDATA\msvoa10\data\100815\F2936.D\	10/8/15 20:11
FTMM-68-GW-565MW01D-22.31	R1508244-003	I:\ACQUDATA\msvoa10\data\100815\F2937.D\	10/8/15 20:35
FTMM-53-GW-699MW09-7.75	R1508244-005	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	10/8/15 21:23
FTMM-53-GW-699MW16-7.5	R1508244-006	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	10/8/15 21:48

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Analyzed:**	10/9/15 13:48
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-10
Lab Code:	RQ1512398-01	**File ID:**	I:\ACQUDATA\msvoa10\data\100915\F2975.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1512398-02	I:\ACQUDATA\msvoa10\data\100915\F2973.D\	10/9/15 12:52
FTMM-TB-20150930	R1508244-017	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	10/9/15 14:12
FTMM-53-GW-699MW01-7.5	R1508244-004	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	10/9/15 14:37
FTMM-53-GW-699MW06-10.2	R1508244-007	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	10/9/15 15:01
FTMM-53-GW-699MW04-8.0	R1508244-008	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	10/9/15 15:25
FTMM-53-GW-699RW11-8.3	R1508244-009	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	10/9/15 15:49
FTMM-53-GW-699MW106-10.2	R1508244-010	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	10/9/15 16:14
FTMM-22-GW-CW1MW29-10.85	R1508244-011	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	10/9/15 16:38
FTMM-22-GW-CW1MW281-33.71	R1508244-012	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	10/9/15 17:02
FTMM-22-GW-CW1MW27-12.63	R1508244-014	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	10/9/15 17:51
FTMM-22-GW-CW1MW31-16.40	R1508244-015	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	10/9/15 18:15
FTMM-22-GW-CW1MW37-11.78	R1508244-016	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	10/9/15 18:40
FTMM-53-GW-699RW05-10	R1508244-018	I:\ACQUDATA\msvoa10\data\100915\F2988.D\	10/9/15 19:04
FTMM-68-GW-565MW01-11.99DL	R1508244-002	I:\ACQUDATA\msvoa10\data\100915\F2990.D\	10/9/15 19:53
FTMM-68-GW-565MW01D-22.31DL	R1508244-003	I:\ACQUDATA\msvoa10\data\100915\F2991.D\	10/9/15 20:17
FTMM-53-GW-699MW06-10.2MS	RQ1512398-05	I:\ACQUDATA\msvoa10\data\100915\F2994.D\	10/9/15 21:30
FTMM-53-GW-699MW06-10.2DMS	RQ1512398-06	I:\ACQUDATA\msvoa10\data\100915\F2995.D\	10/9/15 21:54

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Analyzed:**	10/12/15 14:12
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-10
Lab Code:	RQ1512484-01	**File ID:**	I:\ACQUDATA\msvoa10\data\101215\F3029.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1512484-02	I:\ACQUDATA\msvoa10\data\101215\F3026.D\	10/12/15 12:28
FTMM-22-GW-CW1MW28-11.21	R1508244-013	I:\ACQUDATA\msvoa10\data\101215\F3030.D\	10/12/15 14:39
FTMM-53-GW-699RW05-10DL	R1508244-018	I:\ACQUDATA\msvoa10\data\101215\F3031.D\	10/12/15 15:03

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 09/10/15 16:35

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\091015\F1989.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.1	90187	Pass
75	95	30	60	53.2	183984	Pass
95	95	100	100	100.0	345664	Pass
96	95	5	9	6.5	22627	Pass
173	174	0	2	1.6	4127	Pass
174	95	50	120	75.9	262392	Pass
175	174	5	9	8.0	20933	Pass
176	174	95	101	97.1	254869	Pass
177	176	5	9	6.5	16443	Pass

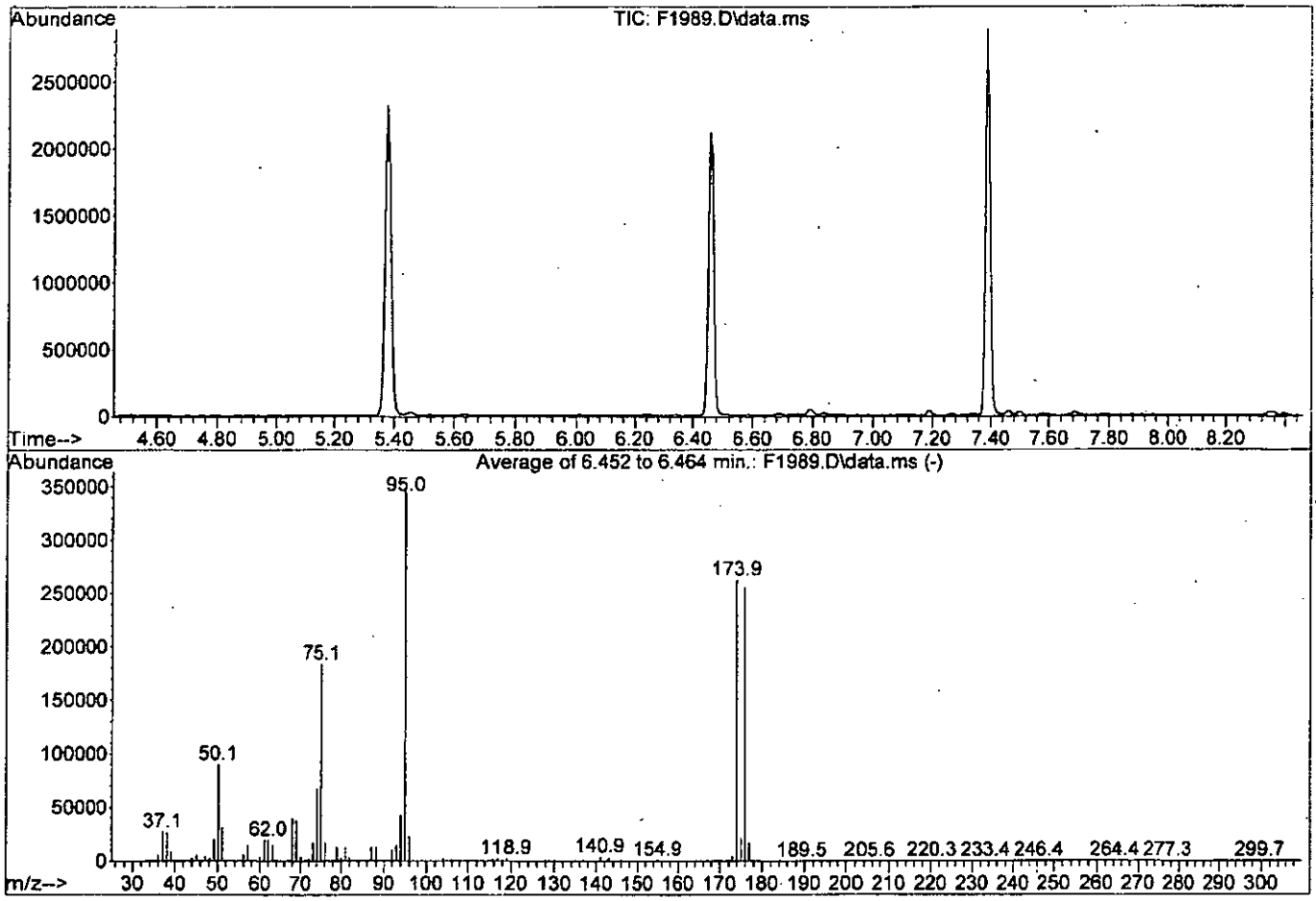
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa10\data\091015\F1991.D\	09/10/15 17:41	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa10\data\091015\F1992.D\	09/10/15 18:05	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa10\data\091015\F1993.D\	09/10/15 18:29	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa10\data\091015\F1994.D\	09/10/15 18:54	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa10\data\091015\F1995.D\	09/10/15 19:18	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa10\data\091015\F1996.D\	09/10/15 19:42	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa10\data\091015\F1997.D\	09/10/15 20:06	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa10\data\091015\F1998.D\	09/10/15 20:31	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa10\data\091015\F1999.D\	09/10/15 20:55	

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1989.D
Acq On : 10 Sep 2015 4:35 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FJ 9/11/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.1	90187	PASS
75	95	30	60	53.2	183984	PASS
95	95	100	100	100.0	345664	PASS
96	95	5	9	6.5	22627	PASS
173	174	0.00	2	1.6	4127	PASS
174	95	50	120	75.9	262392	PASS
175	174	5	9	8.0	20933	PASS
176	174	95	101	97.1	254869	PASS
177	176	5	9	6.5	16443	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/8/15 10:14

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\100815\F2913.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 465971

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.02	75005	Pass
75	95	30	60	49.33	142216	Pass
95	95	100	100	100.00	288277	Pass
96	95	5	9	6.86	19784	Pass
173	174	0	2	1.58	3686	Pass
174	95	50	120	80.98	233451	Pass
175	174	5	9	7.99	18663	Pass
176	174	95	101	96.25	224693	Pass
177	176	5	9	6.10	13709	Pass

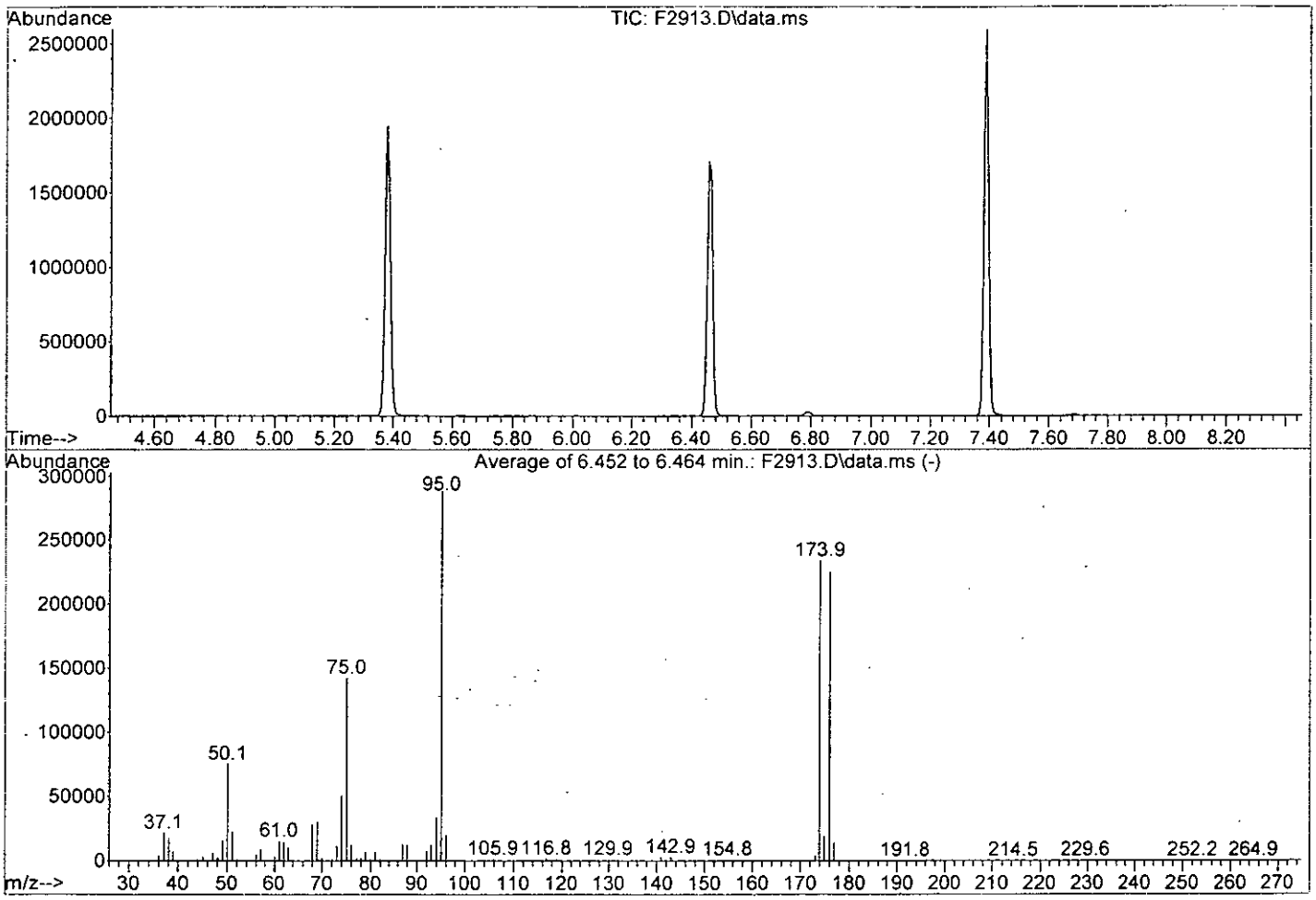
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1512289-05	I:\ACQUDATA\msvoa10\data\100815\F2914.D\	10/8/15 10:45	
Lab Control Sample	RQ1512289-02	I:\ACQUDATA\msvoa10\data\100815\F2915.D\	10/8/15 11:16	
Duplicate Lab Control Sample	RQ1512289-03	I:\ACQUDATA\msvoa10\data\100815\F2916.D\	10/8/15 11:45	
Method Blank	RQ1512289-01	I:\ACQUDATA\msvoa10\data\100815\F2919.D\	10/8/15 13:18	
FTMM-53-GW-699RW03-8.2	R1508244-001	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	10/8/15 19:46	
FTMM-68-GW-565MW01-11.99	R1508244-002	I:\ACQUDATA\msvoa10\data\100815\F2936.D\	10/8/15 20:11	
FTMM-68-GW-565MW01D-22.31	R1508244-003	I:\ACQUDATA\msvoa10\data\100815\F2937.D\	10/8/15 20:35	
FTMM-53-GW-699MW09-7.75	R1508244-005	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	10/8/15 21:23	
FTMM-53-GW-699MW16-7.5	R1508244-006	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	10/8/15 21:48	

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2913.D
Acq On : 8 Oct 2015 10:14 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006

FN 10/8/15



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	75005	PASS
75	95	30	60	49.3	142216	PASS
95	95	100	100	100.0	288277	PASS
96	95	5	9	6.9	19784	PASS
173	174	0.00	2	1.6	3686	PASS
174	95	50	120	81.0	233451	PASS
175	174	5	9	8.0	18663	PASS
176	174	95	101	96.2	224693	PASS
177	176	5	9	6.1	13709	PASS

00034

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/9/15 11:21

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\100915\F2970.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 466298

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.19	75091	Pass
75	95	30	60	49.65	142349	Pass
95	95	100	100	100.00	286677	Pass
96	95	5	9	6.88	19726	Pass
173	174	0	2	0.99	2344	Pass
174	95	50	120	82.41	236245	Pass
175	174	5	9	7.98	18851	Pass
176	174	95	101	97.35	229995	Pass
177	176	5	9	6.31	14518	Pass

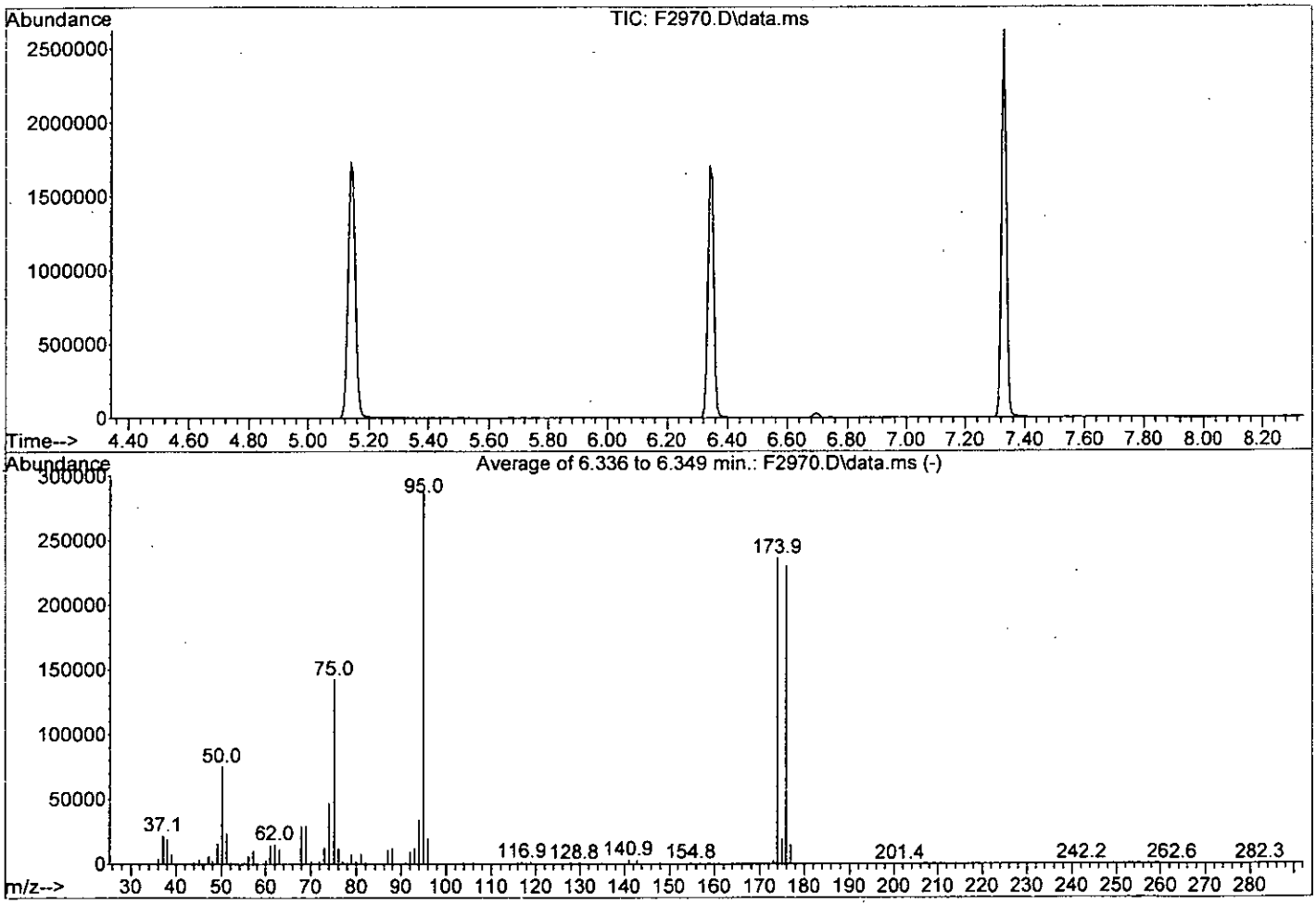
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1512398-04	I:\ACQUDATA\msvoa10\data\100915\F2971.D\	10/9/15 11:52	
Lab Control Sample	RQ1512398-02	I:\ACQUDATA\msvoa10\data\100915\F2973.D\	10/9/15 12:52	
Method Blank	RQ1512398-01	I:\ACQUDATA\msvoa10\data\100915\F2975.D\	10/9/15 13:48	
FTMM-TB-20150930	R1508244-017	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	10/9/15 14:12	
FTMM-53-GW-699MW01-7.5	R1508244-004	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	10/9/15 14:37	
FTMM-53-GW-699MW06-10.2	R1508244-007	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	10/9/15 15:01	
FTMM-53-GW-699MW04-8.0	R1508244-008	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	10/9/15 15:25	
FTMM-53-GW-699RW11-8.3	R1508244-009	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	10/9/15 15:49	
FTMM-53-GW-699MW106-10.2	R1508244-010	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	10/9/15 16:14	
FTMM-22-GW-CW1MW29-10.85	R1508244-011	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	10/9/15 16:38	
FTMM-22-GW-CW1MW281-33.71	R1508244-012	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	10/9/15 17:02	
FTMM-22-GW-CW1MW27-12.63	R1508244-014	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	10/9/15 17:51	
FTMM-22-GW-CW1MW31-16.40	R1508244-015	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	10/9/15 18:15	
FTMM-22-GW-CW1MW37-11.78	R1508244-016	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	10/9/15 18:40	
FTMM-53-GW-699RW05-10	R1508244-018	I:\ACQUDATA\msvoa10\data\100915\F2988.D\	10/9/15 19:04	
FTMM-68-GW-565MW01-11.99DL	R1508244-002	I:\ACQUDATA\msvoa10\data\100915\F2990.D\	10/9/15 19:53	
FTMM-68-GW-565MW01D-22.31DL	R1508244-003	I:\ACQUDATA\msvoa10\data\100915\F2991.D\	10/9/15 20:17	
FTMM-53-GW-699MW06-10.2MS	RQ1512398-05	I:\ACQUDATA\msvoa10\data\100915\F2994.D\	10/9/15 21:30	
FTMM-53-GW-699MW06-10.2DMS	RQ1512398-06	I:\ACQUDATA\msvoa10\data\100915\F2995.D\	10/9/15 21:54	

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2970.D
Acq On : 9 Oct 2015 11:21 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

FU 10/9/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 369, 370, 371; Background Corrected with Scan 363

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.2	75091	PASS
75	95	30	60	49.7	142349	PASS
95	95	100	100	100.0	286677	PASS
96	95	5	9	6.9	19726	PASS
173	174	0.00	2	1.0	2344	PASS
174	95	50	120	82.4	236245	PASS
175	174	5	9	8.0	18851	PASS
176	174	95	101	97.4	229995	PASS
177	176	5	9	6.3	14518	PASS

00036

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/12/15 10:59

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\101215\F3023.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 466502

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.73	85256	Pass
75	95	30	60	48.83	155755	Pass
95	95	100	100	100.00	318955	Pass
96	95	5	9	6.39	20397	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	83.71	266987	Pass
175	174	5	9	7.83	20912	Pass
176	174	95	101	97.34	259883	Pass
177	176	5	9	6.60	17160	Pass

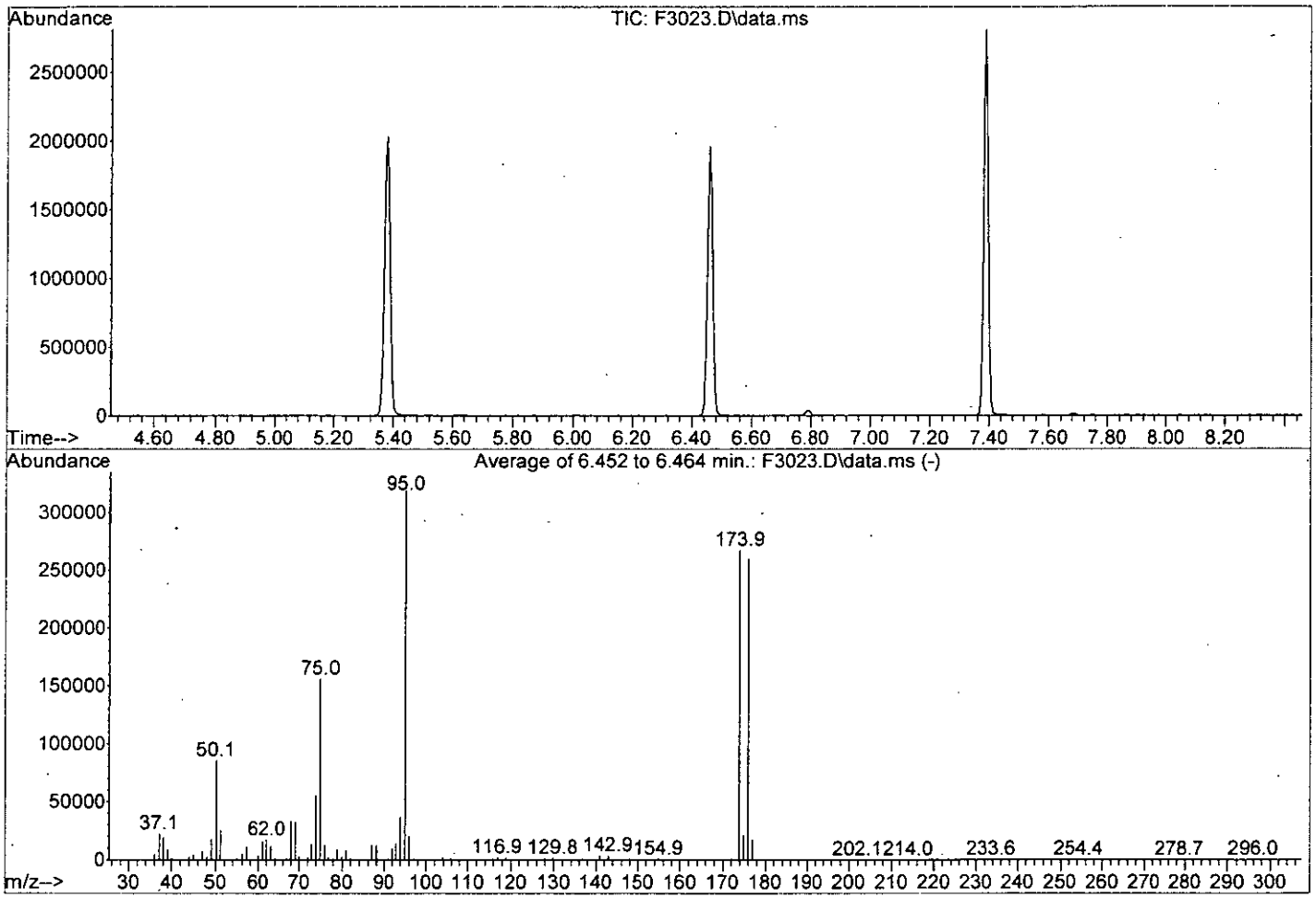
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1512484-04	I:\ACQUDATA\msvoa10\data\101215\F3025.D\	10/12/15 11:52	
Lab Control Sample	RQ1512484-02	I:\ACQUDATA\msvoa10\data\101215\F3026.D\	10/12/15 12:28	
Method Blank	RQ1512484-01	I:\ACQUDATA\msvoa10\data\101215\F3029.D\	10/12/15 14:12	
FTMM-22-GW-CW1MW28-11.21	R1508244-013	I:\ACQUDATA\msvoa10\data\101215\F3030.D\	10/12/15 14:39	
FTMM-53-GW-699RW05-10DL	R1508244-018	I:\ACQUDATA\msvoa10\data\101215\F3031.D\	10/12/15 15:03	

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3023.D
Acq On : 12 Oct 2015 10:59 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FJ 10/12/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.7	85256	PASS
75	95	30	60	48.8	155755	PASS
95	95	100	100	100.0	318955	PASS
96	95	5	9	6.4	20397	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.7	266987	PASS
175	174	5	9	7.8	20912	PASS
176	174	95	101	97.3	259883	PASS
177	176	5	9	6.6	17160	PASS

00038

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/8/15 10:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\100815\F2914.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1512289-05
Analysis Lot: 465971
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	473,792	11.99	989,364	6.71	873,476	9.96
	Upper Limit ==>	947,584	12.49	1,978,728	7.21	1,746,952	10.46
	Lower Limit ==>	236,896	11.49	494,682	6.21	436,738	9.46
	ICAL Result ==>	558,318	11.99	1,119,978	6.72	995,526	9.96
Associated Analyses							
Lab Control Sample	RQ1512289-02	469,018	11.99	956,451	6.72	865,524	9.96
Duplicate Lab Control Sample	RQ1512289-03	444,794	11.99	930,786	6.71	835,285	9.96
Method Blank	RQ1512289-01	446,335	11.99	952,993	6.71	848,727	9.96
FTMM-53-GW-699RW03-8.2	R1508244-001	446,960	11.99	941,589	6.71	833,533	9.96
FTMM-68-GW-565MW01-11.99	R1508244-002	447,152	11.99	956,692	6.72	857,010	9.96
FTMM-68-GW-565MW01D-22.31	R1508244-003	452,485	11.99	961,691	6.71	857,134	9.96
FTMM-53-GW-699MW09-7.75	R1508244-005	461,343	11.99	985,270	6.71	881,954	9.96
FTMM-53-GW-699MW16-7.5	R1508244-006	442,715	11.99	960,867	6.72	838,664	9.96

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/8/15 10:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\100815\F2914.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1512289-05
Analysis Lot: 465971
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	686,799	5.67
	Upper Limit ==>	1,373,598	6.17
	Lower Limit ==>	343,400	5.17
	ICAL Result ==>	783,952	5.67
Associated Analyses			
Lab Control Sample	RQ1512289-02	663,558	5.67
Duplicate Lab Control Sample	RQ1512289-03	639,632	5.67
Method Blank	RQ1512289-01	655,233	5.67
FTMM-53-GW-699RW03-8.2	R1508244-001	651,344	5.67
FTMM-68-GW-565MW01-11.99	R1508244-002	660,121	5.67
FTMM-68-GW-565MW01D-22.31	R1508244-003	661,908	5.67
FTMM-53-GW-699MW09-7.75	R1508244-005	698,489	5.67
FTMM-53-GW-699MW16-7.5	R1508244-006	649,233	5.67

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/9/15 11:52

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\100915\F2971.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1512398-04
Analysis Lot: 466298
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	478,731	11.99	982,964	6.72	888,630	9.96
	Upper Limit ==>	957,462	12.49	1,965,928	7.22	1,777,260	10.46
	Lower Limit ==>	239,366	11.49	491,482	6.22	444,315	9.46
	ICAL Result ==>	558,318	11.99	1,119,978	6.72	995,526	9.96
Associated Analyses							
Lab Control Sample	RQ1512398-02	476,612	11.99	1,000,748	6.71	917,626	9.96
Method Blank	RQ1512398-01	439,626	11.99	962,503	6.71	861,274	9.96
FTMM-TB-20150930	R1508244-017	431,712	11.99	920,371	6.72	824,511	9.96
FTMM-53-GW-699MW01-7.5	R1508244-004	431,059	11.99	912,428	6.72	832,311	9.96
FTMM-53-GW-699MW06-10.2	R1508244-007	428,686	11.99	944,396	6.72	833,355	9.96
FTMM-53-GW-699MW04-8.0	R1508244-008	400,479	11.99	864,437	6.72	763,502	9.96
FTMM-53-GW-699RW11-8.3	R1508244-009	439,428	11.99	950,948	6.72	853,993	9.96
FTMM-53-GW-699MW106-10.2	R1508244-010	432,411	11.99	913,493	6.72	816,873	9.96
FTMM-22-GW-CW1MW29-10.85	R1508244-011	450,823	11.99	950,965	6.72	834,329	9.96
FTMM-22-GW-CW1MW281-33.71	R1508244-012	429,218	11.99	907,553	6.72	809,781	9.96
FTMM-22-GW-CW1MW27-12.63	R1508244-014	438,423	11.99	919,669	6.72	816,657	9.96
FTMM-22-GW-CW1MW31-16.40	R1508244-015	450,304	11.99	944,793	6.72	848,957	9.96
FTMM-22-GW-CW1MW37-11.78	R1508244-016	431,150	11.99	928,814	6.71	821,996	9.96
FTMM-53-GW-699RW05-10	R1508244-018	444,828	11.99	927,999	6.71	838,043	9.96
FTMM-68-GW-565MW01-11.99DL	R1508244-002	426,064	11.99	929,507	6.72	832,211	9.96
FTMM-68-GW-565MW01D-22.31DL	R1508244-003	438,379	11.99	948,593	6.72	844,869	9.96
FTMM-53-GW-699MW06-10.2MS	RQ1512398-05	440,440	11.99	906,378	6.71	830,068	9.96
FTMM-53-GW-699MW06-10.2DMS	RQ1512398-06	445,383	11.99	929,329	6.71	833,261	9.96

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/9/15 11:52

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\100915\F2971.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1512398-04
Analysis Lot: 466298
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	692,750	5.67
	Upper Limit ==>	1,385,500	6.17
	Lower Limit ==>	346,375	5.17
	ICAL Result ==>	783,952	5.67
Associated Analyses			
Lab Control Sample	RQ1512398-02	707,910	5.67
Method Blank	RQ1512398-01	659,020	5.67
FTMM-TB-20150930	R1508244-017	636,889	5.67
FTMM-53-GW-699MW01-7.5	R1508244-004	634,976	5.67
FTMM-53-GW-699MW06-10.2	R1508244-007	655,307	5.67
FTMM-53-GW-699MW04-8.0	R1508244-008	596,480	5.67
FTMM-53-GW-699RW11-8.3	R1508244-009	660,285	5.67
FTMM-53-GW-699MW106-10.2	R1508244-010	623,067	5.67
FTMM-22-GW-CW1MW29-10.85	R1508244-011	640,632	5.67
FTMM-22-GW-CW1MW281-33.71	R1508244-012	625,041	5.67
FTMM-22-GW-CW1MW27-12.63	R1508244-014	634,485	5.67
FTMM-22-GW-CW1MW31-16.40	R1508244-015	652,474	5.67
FTMM-22-GW-CW1MW37-11.78	R1508244-016	644,660	5.67
FTMM-53-GW-699RW05-10	R1508244-018	632,164	5.67
FTMM-68-GW-565MW01-11.99DL	R1508244-002	645,208	5.67
FTMM-68-GW-565MW01D-22.31DL	R1508244-003	647,876	5.67
FTMM-53-GW-699MW06-10.2MS	RQ1512398-05	629,804	5.67
FTMM-53-GW-699MW06-10.2DMS	RQ1512398-06	643,151	5.67

Results flagged with an asterisk (*) indicate values outside control criteria.

09042

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/12/15 11:52

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\101215\F3025.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1512484-04
Analysis Lot: 466502
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	492,024	11.99	1,000,819	6.72	913,234	9.96
	Upper Limit ==>	984,048	12.49	2,001,638	7.22	1,826,468	10.46
	Lower Limit ==>	246,012	11.49	500,410	6.22	456,617	9.46
	ICAL Result ==>	558,318	11.99	1,119,978	6.72	995,526	9.96
Associated Analyses							
Lab Control Sample	RQ1512484-02	499,615	11.99	1,031,546	6.71	934,491	9.96
Method Blank	RQ1512484-01	475,138	11.99	1,001,129	6.71	900,420	9.96
FTMM-22-GW-CW1MW28-11.21	R1508244-013	504,533	11.99	1,026,997	6.71	924,112	9.96
FTMM-53-GW-699RW05-10DL	R1508244-018	465,774	11.99	972,658	6.71	871,755	9.96

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/12/15 11:52

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\101215\F3025.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1512484-04
Analysis Lot: 466502
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	700,409	5.67
	Upper Limit ==>	1,400,818	6.17
	Lower Limit ==>	350,205	5.17
	ICAL Result ==>	783,952	5.67
Associated Analyses			
Lab Control Sample	RQ1512484-02	700,436	5.67
Method Blank	RQ1512484-01	681,005	5.67
FTMM-22-GW-CW1MW28-11.21	R1508244-013	702,774	5.67
FTMM-53-GW-699RW05-10DL	R1508244-018	671,632	5.67

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Environmental

VOLATILE ORGANICS SAMPLE DATA

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0945
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 19:46
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1508244-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**1.2**	J	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**3.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	**0.36**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0945
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 19:46
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1508244-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**1.4**	J	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**0.79**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.83**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**0.88**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**1.5**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**0.32**	J	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0945
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 19:46
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	Percent
Lab Code:	R1508244-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2935.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/8/15 19:46	
Dibromofluoromethane	93	85-115	10/8/15 19:46	
Toluene-d8	101	85-120	10/8/15 19:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/8/15 1946

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1508244-001	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**8.9**	J
	unknown	12.21	**9.4**	J

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2935.D
Acq On : 8 Oct 2015 7:46 pm
Operator : F. Naegler
Sample : R1508244-001|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 13 12:45:04 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	651344	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	941589	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	833533	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	446960	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	283204	46.61	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.22%				
46) surr1,1,2-dichloroetha...	6.031	65	394412	45.79	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.58%				
64) SURR3,Toluene-d8	8.488	98	1115847	50.39	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.78%				
69) SURR2,BFB	11.018	95	423724	46.34	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.68%				
Target Compounds							Qvalue
15) Acetone	2.416	43	17579	3.16	ug/L		97
47) Benzene	6.110	78	9110	0.36	ug/L		86
81) Ethylbenzene	10.103	106	13247	1.44	ug/L	#	85
82) (m+p)Xylene	10.213	106	2359	0.22	ug/L	#	60
83) o-Xylene	10.567	106	17229	1.53	ug/L	#	85
87) Isopropylbenzene	10.896	105	22071	0.79	ug/L		94
94) n-Propylbenzene	11.250	91	28252	0.88	ug/L		95
100) 1,2,4-Trimethylbenzene	11.707	105	27681	1.19	ug/L		95
102) sec-Butylbenzene	11.859	105	9046	0.32	ug/L		85
116) Naphthalen	13.773	128	26032	0.83	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

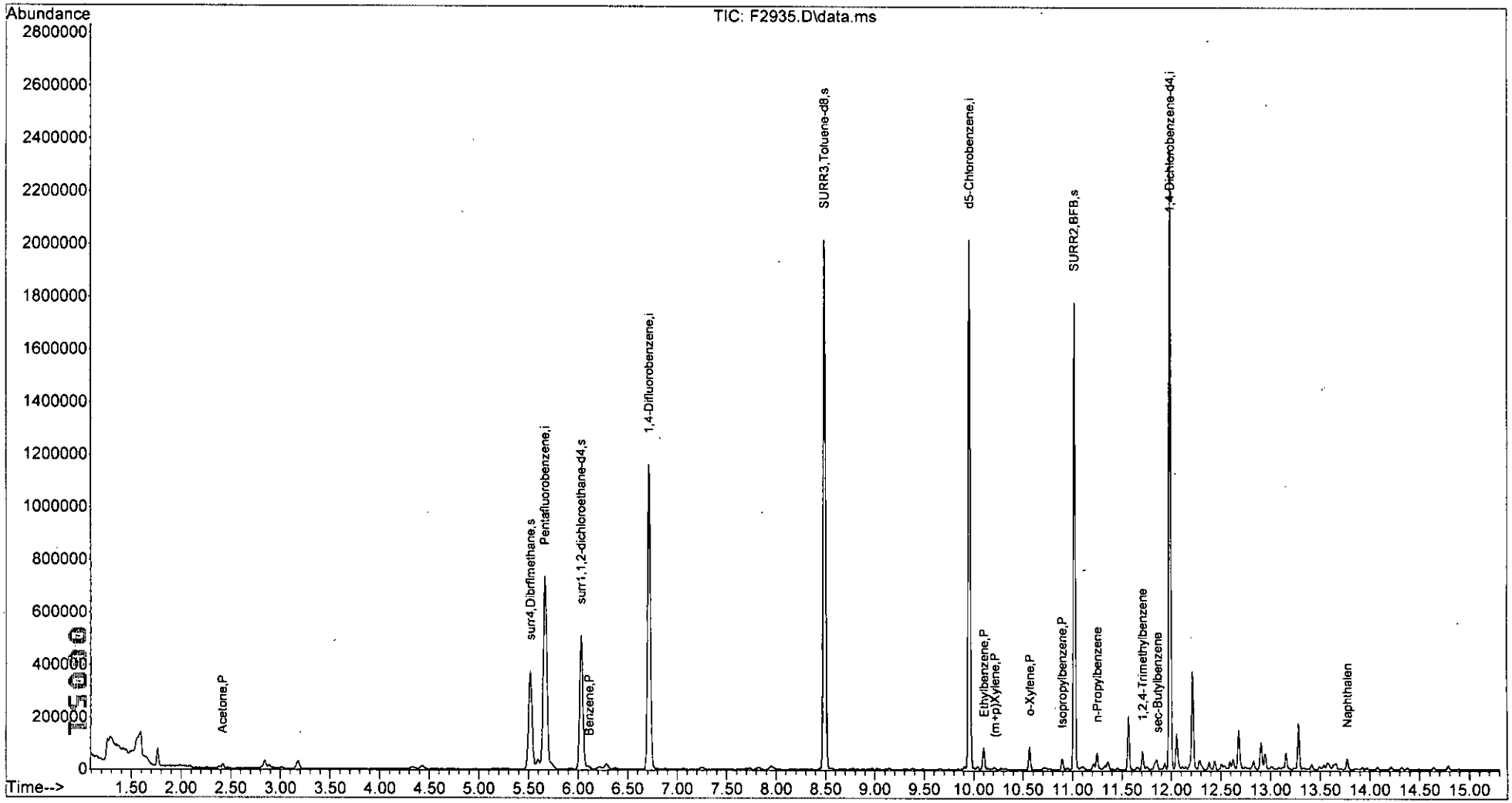
FV 10/13/15

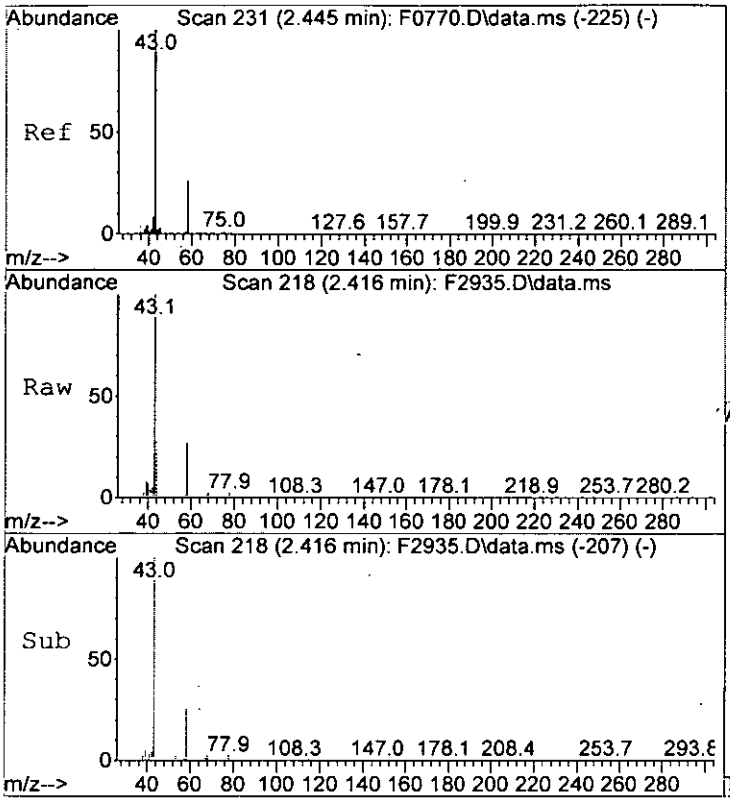
00050

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2935.D
Acq On : 8 Oct 2015 7:46 pm
Operator : F. Naegler
Sample : R1508244-001|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 13 12:45:04 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

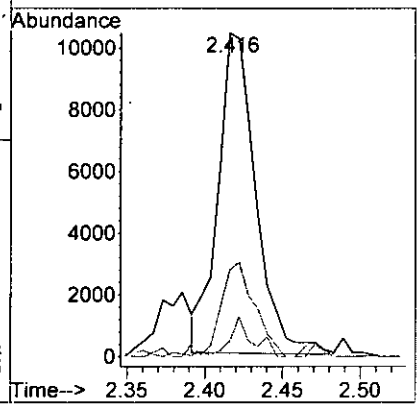


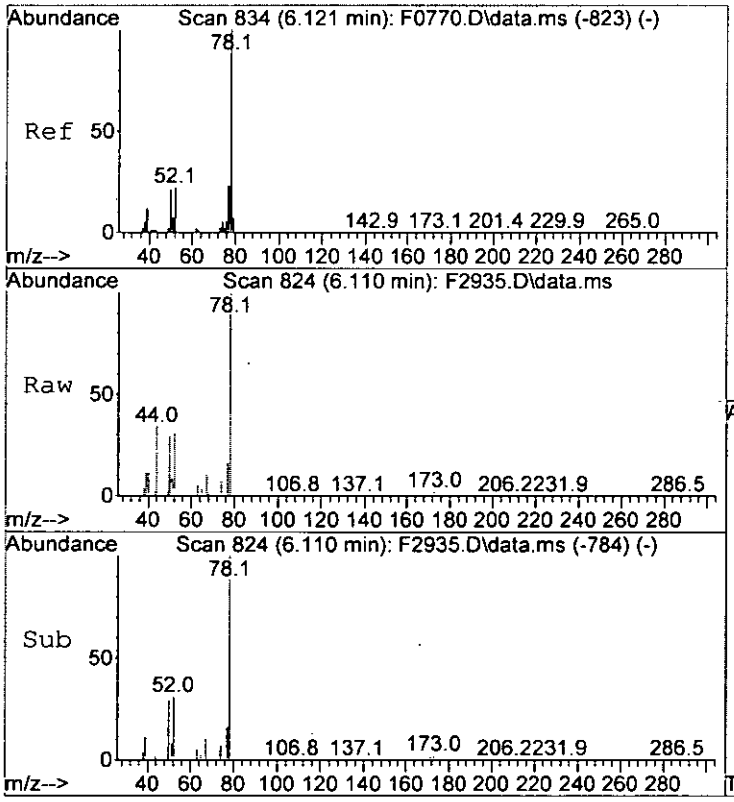


#15
Acetone
Concen: 3.16 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion: 43 Resp: 17579

Ion	Ratio	Lower	Upper
43	100		
58	26.5	6.1	46.1
42	4.6	0.0	28.3

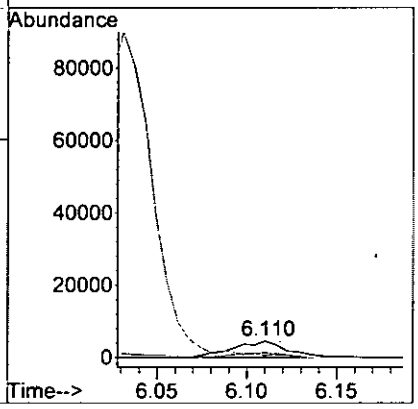




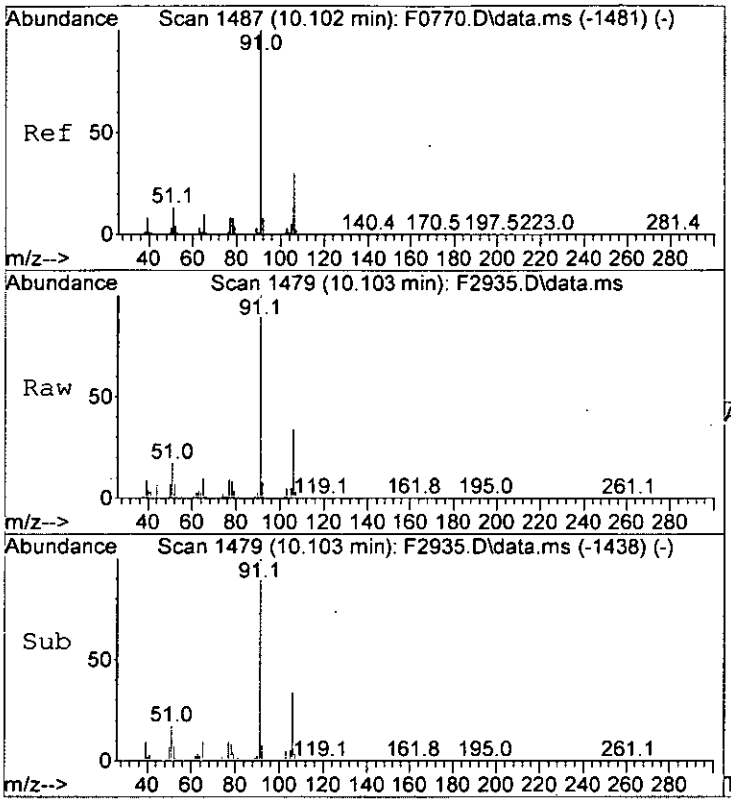
#47
Benzene
Concen: 0.36 ug/L
RT: 6.110 min Scan# 824
Delta R.T. 0.000 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion: 78 Resp: 9110

Ion	Ratio	Lower	Upper
78	100		
51	8.3	0.0	27.4
52	31.2	2.5	42.5



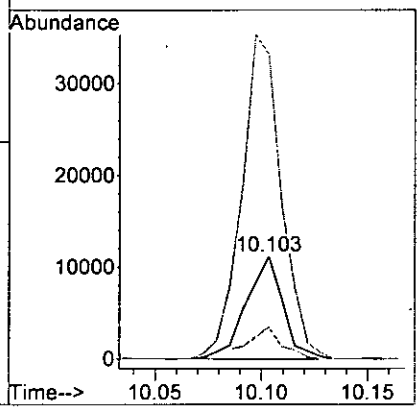
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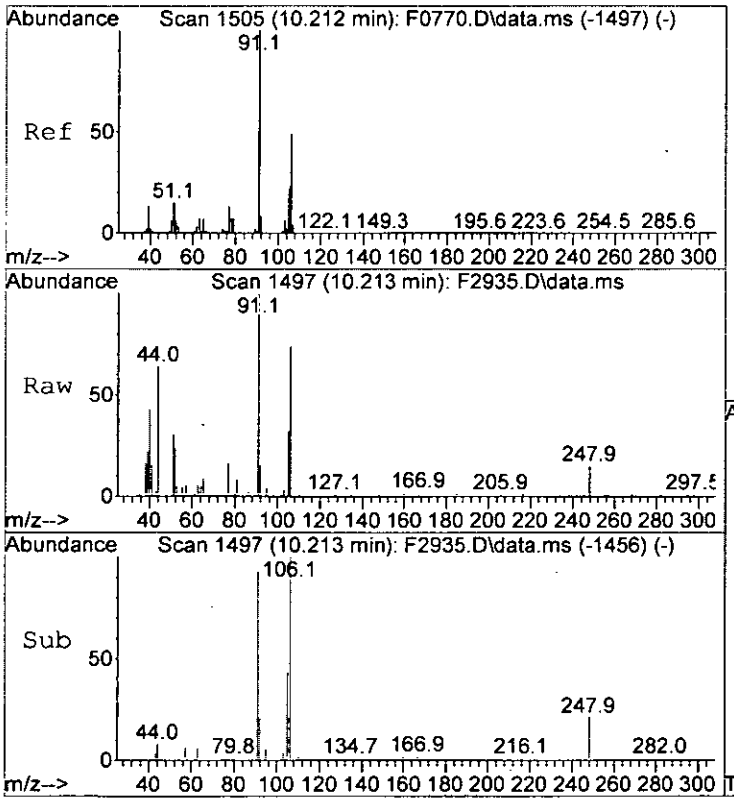


#81
Ethylbenzene
Concen: 1.44 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. 0.000 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion:106 Resp: 13247

Ion	Ratio	Lower	Upper
106	100		
91	297.2	311.8	351.8#
65	30.9	12.0	52.0

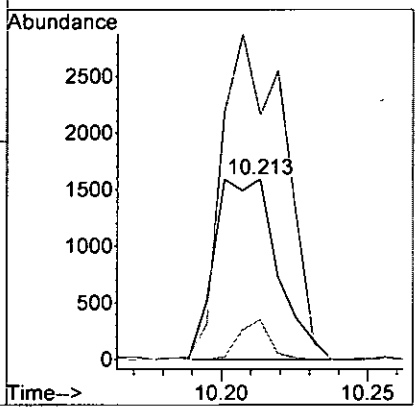


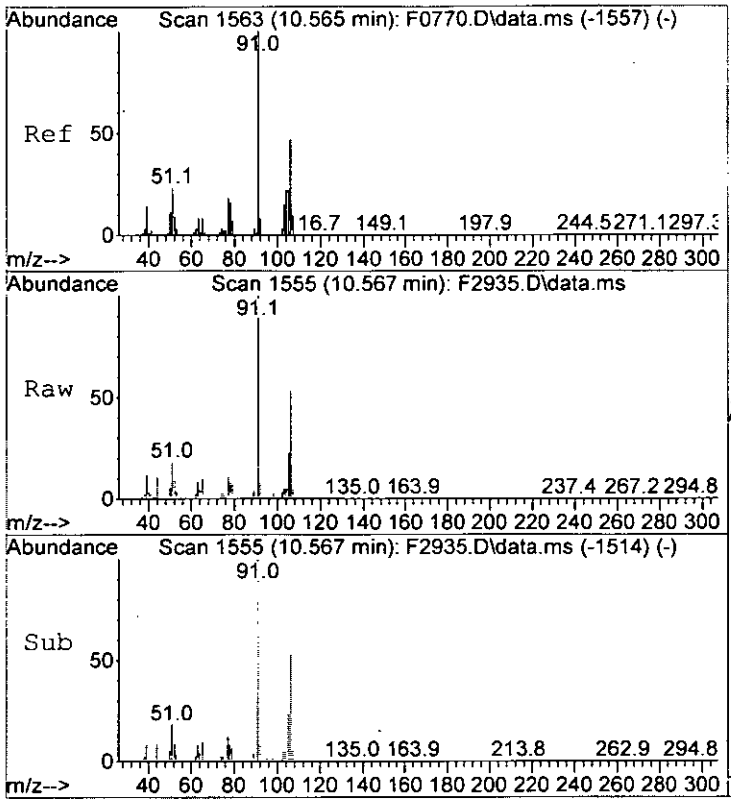


#82
(m+p)Xylene
Concen: 0.22 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. 0.000 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion:106 Resp: 2359

Ion	Ratio	Lower	Upper
106	100		
91	135.4	183.1	223.1#
77	21.8	6.9	46.9

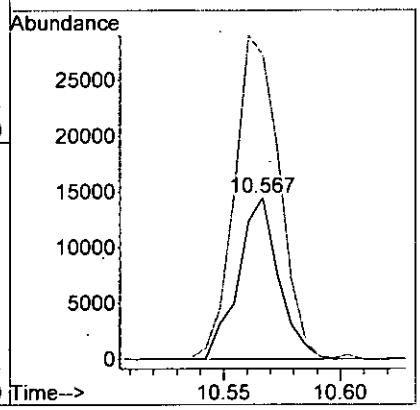


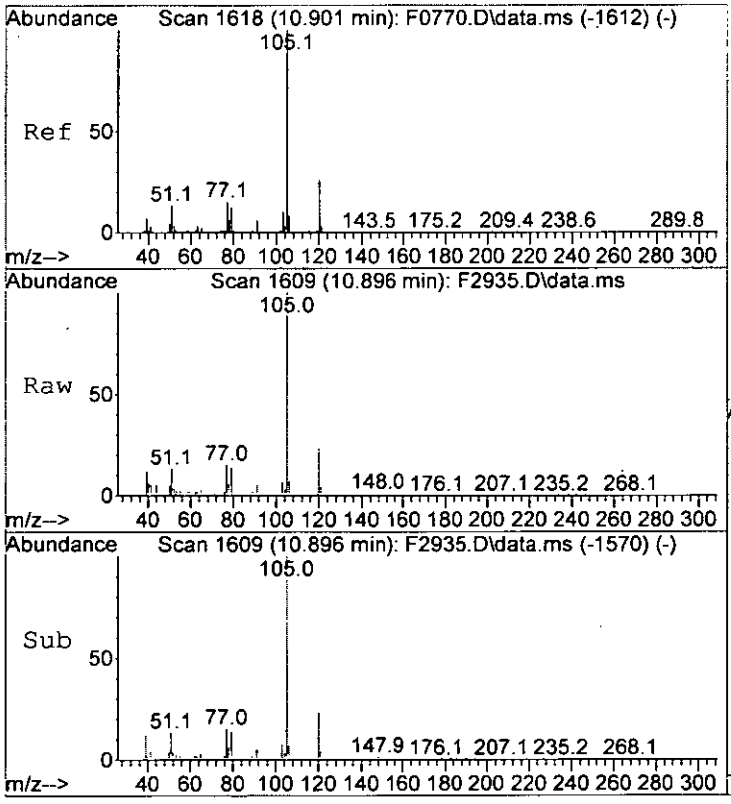


#83
o-Xylene
Concen: 1.53 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. 0.000 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion:106 Resp: 17229

Ion	Ratio	Lower	Upper
106	100		
91	188.5	192.0	232.0#

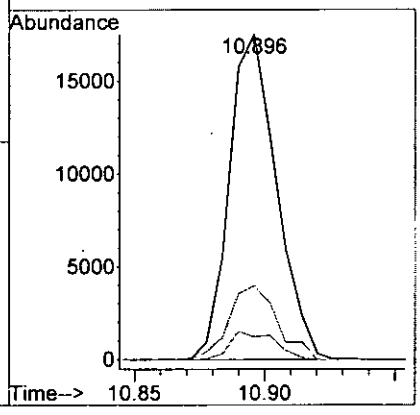




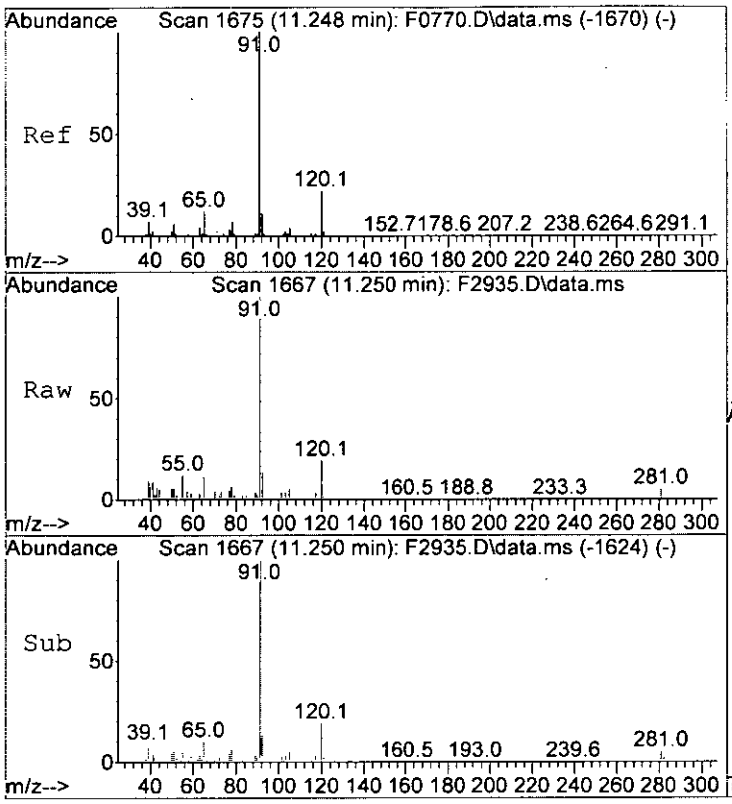
#87
Isopropylbenzene
Concen: 0.79 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion:105 Resp: 22071

Ion	Ratio	Lower	Upper
105	100		
120	22.6	5.8	45.8
106	6.9	0.0	28.3



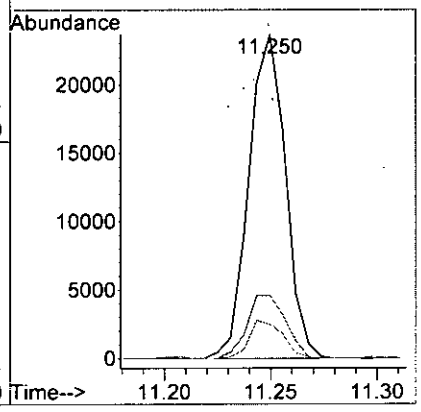
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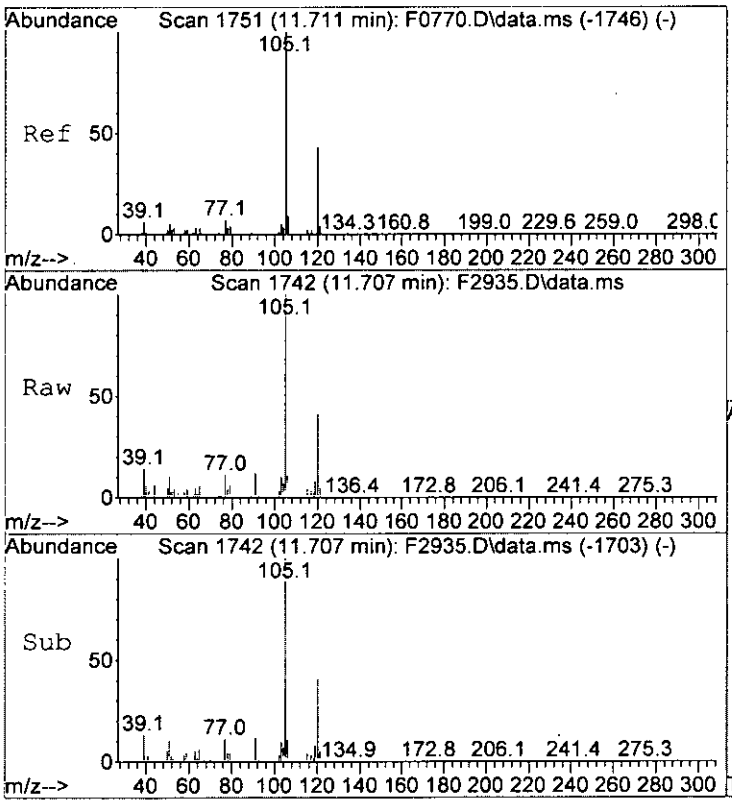


#94
n-Propylbenzene
Concen: 0.88 ug/L
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion: 91 Resp: 28252

Ion	Ratio	Lower	Upper
91	100		
120	19.4	2.1	42.1
65	10.5	0.0	31.7

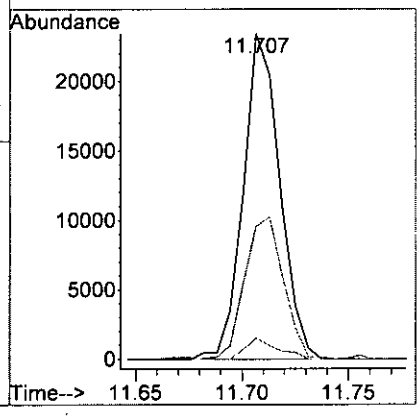


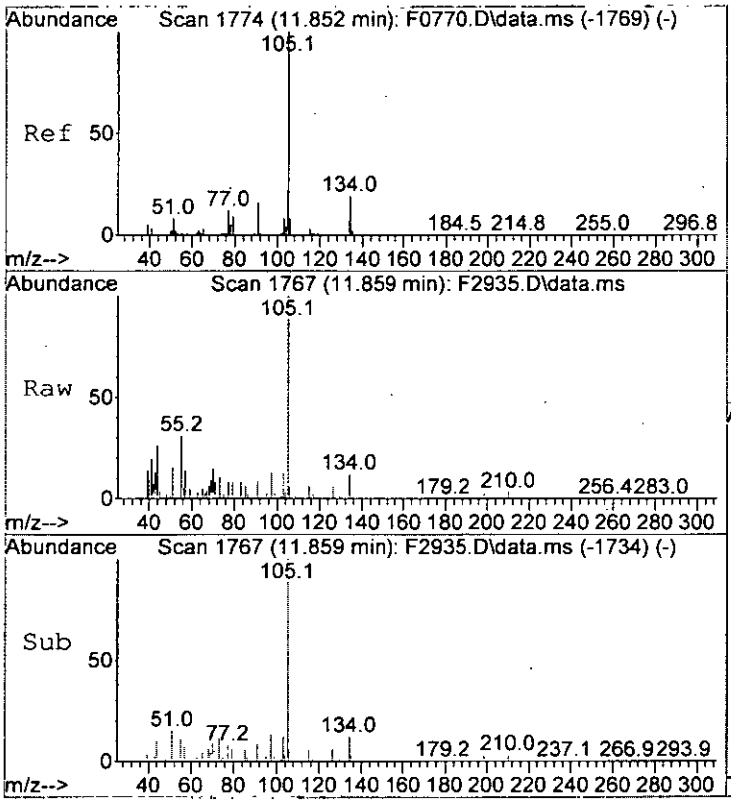


#100
1,2,4-Trimethylbenzene
Concen: 1.19 ug/L
RT: 11.707 min Scan# 1742
Delta R.T. -0.006 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion:105 Resp: 27681

Ion	Ratio	Lower	Upper
105	100		
120	40.7	23.4	63.4
65	6.4	0.0	22.7

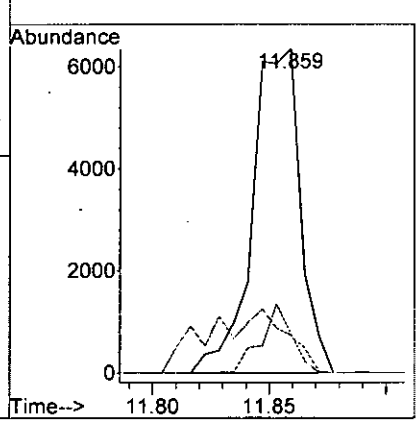


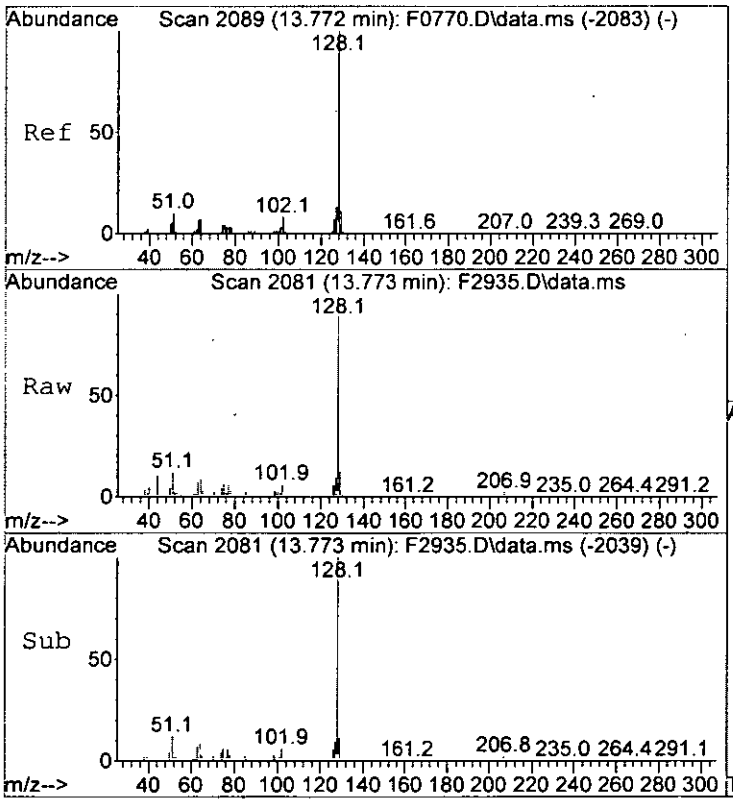


#102
sec-Butylbenzene
Concen: 0.32 ug/L
RT: 11.859 min Scan# 1767
Delta R.T. 0.006 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion:105 Resp: 9046

Ion	Ratio	Lower	Upper
105	100		
134	11.6	0.0	39.0
103	12.2	0.0	28.1

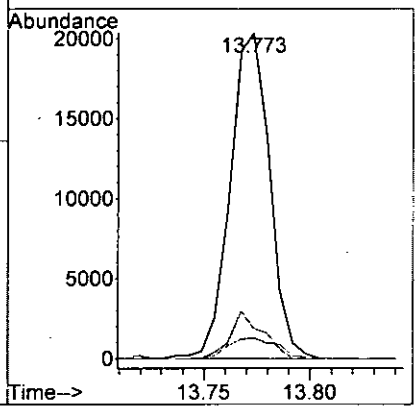




#116
Naphthalen
Concen: 0.83 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. 0.000 min
Lab File: F2935.D
Acq: 8 Oct 2015 7:46 pm

Tgt Ion:128 Resp: 26032

Ion	Ratio	Lower	Upper
128	100		
127	9.4	0.0	32.8
102	6.3	0.0	28.1



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2935.D
Acq On : 8 Oct 2015 7:46 pm
Operator : F. Naegler
Sample : R1508244-001|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2935.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.258	24	28	30	rBV2	82175	117626	3.71%	0.570%
2	1.593	72	83	91	rVB4	97744	334265	10.55%	1.618%
3	1.764	107	111	116	rVB2	66306	82776	2.61%	0.401%
4	2.843	283	288	292	rBV2	25957	42309	1.34%	0.205%
5	3.178	334	343	350	rBV5	30850	67025	2.12%	0.325%
6	4.428	541	548	557	rVB7	13994	35843	1.13%	0.174%
7	5.519	713	727	735	rBV	374579	941972	29.73%	4.561%
8	5.592	735	739	743	rVV3	37789	84064	2.65%	0.407%
9	5.665	743	751	773	rVB2	734801	1878376	59.28%	9.095%
10	6.031	801	811	821	rBV	511935	1149632	36.28%	5.566%
11	6.281	848	852	861	rVB5	20530	50466	1.59%	0.244%
12	6.714	914	923	933	rBV	1162324	2283868	72.08%	11.058%
13	8.488	1207	1214	1223	rBV	2011837	3168455	100.00%	15.341%
14	9.957	1449	1455	1461	rBV	2012423	2714817	85.68%	13.145%
15	10.103	1473	1479	1483	rBV	81865	110501	3.49%	0.535%
16	10.567	1550	1555	1560	rBV	88527	113992	3.60%	0.552%
17	10.896	1601	1609	1614	rBV	41856	58037	1.83%	0.281%
18	11.018	1621	1629	1635	rBV	1780460	2182172	68.87%	10.566%
19	11.213	1655	1661	1663	rBV4	22910	34169	1.08%	0.165%
20	11.250	1663	1667	1673	rVB2	60902	82579	2.61%	0.400%
21	11.359	1682	1685	1689	rVB4	30347	42770	1.35%	0.207%
22	11.567	1714	1719	1725	rBV	202581	239803	7.57%	1.161%
23	11.707	1739	1742	1746	rBV	67445	80049	2.53%	0.388%
24	11.847	1755	1765	1772	rBV7	35950	82555	2.61%	0.400%
25	11.987	1783	1788	1794	rVB	2353761	2824448	89.14%	13.675%
26	12.054	1794	1799	1806	rBV	136280	192932	6.09%	0.934%
27	12.213	1817	1825	1833	rBV2	373523	530175	16.73%	2.567%
28	12.286	1833	1837	1846	rVB5	37489	71719	2.26%	0.347%
29	12.377	1846	1852	1858	rBV3	29183	43556	1.37%	0.211%
30	12.432	1858	1861	1866	rVB2	32242	42451	1.34%	0.206%
31	12.621	1889	1892	1897	rVV	34989	43855	1.38%	0.212%
32	12.676	1897	1901	1909	rVB	147510	196258	6.19%	0.950%
33	12.829	1920	1926	1932	rVB4	34061	54784	1.73%	0.265%
34	12.902	1932	1938	1942	rBV	103135	148706	4.69%	0.720%
35	12.944	1942	1945	1951	rVB2	59823	79269	2.50%	0.384%

FV 10/13/15

00057

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2935.D
Acq On : 8 Oct 2015 7:46 pm
Operator : F. Naegler
Sample : R1508244-001|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	13.158	1976	1980	1989	rVB2	64485	91360	2.88%	0.442%
37	13.280	1995	2000	2005	rBV2	173875	220534	6.96%	1.068%
38	13.572	2045	2048	2053	rVB6	19678	34248	1.08%	0.166%
39	13.658	2059	2062	2067	rVB5	25594	37406	1.18%	0.181%
40	13.773	2074	2081	2088	rVB	43064	63658	2.01%	0.308%

Sum of corrected areas: 20653480

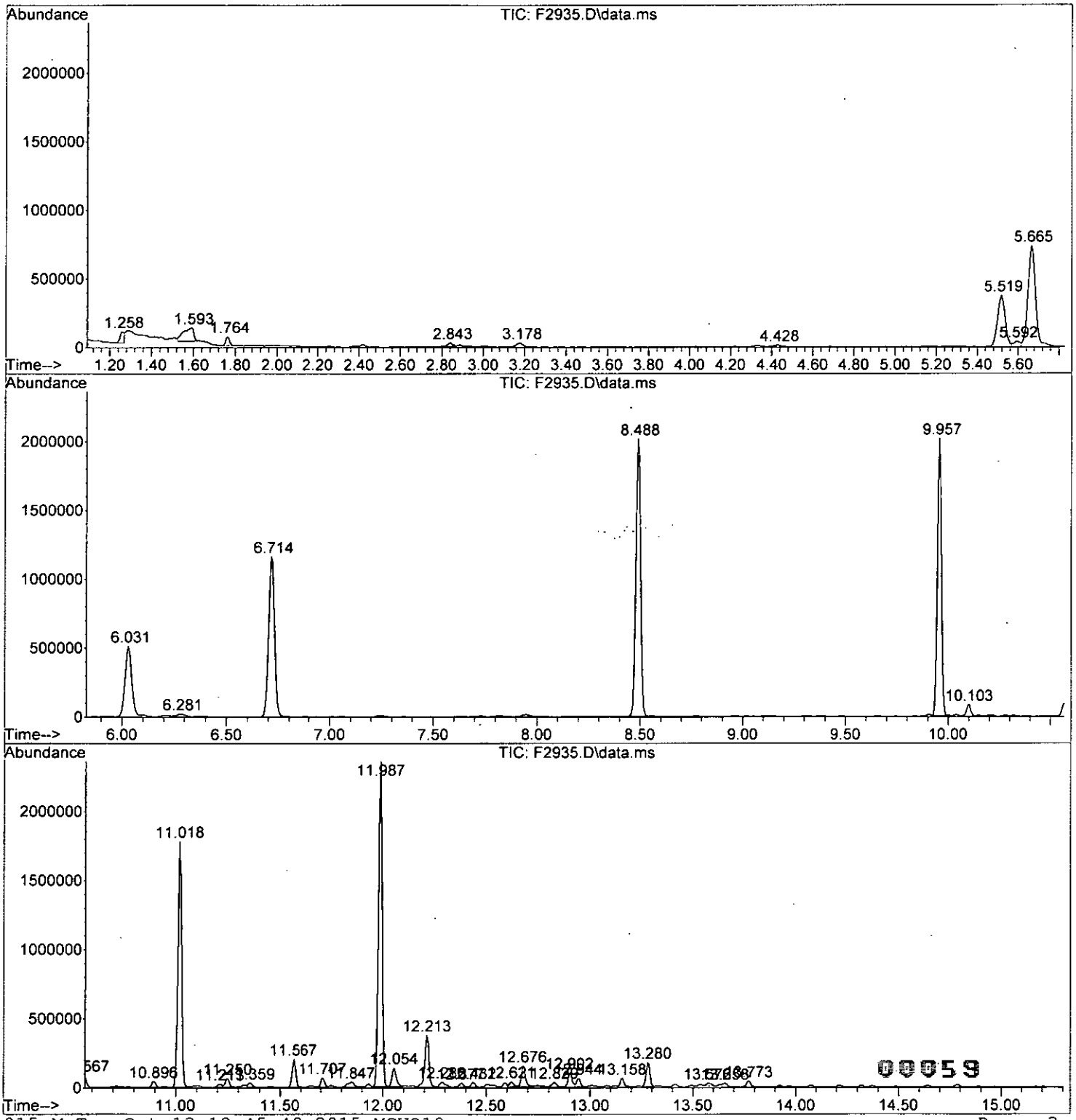
00058

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2935.D
Acq On : 8 Oct 2015 7:46 pm
Operator : F. Naegler
Sample : R1508244-001|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2935.D
Acq On : 8 Oct 2015 7:46 pm
Operator : F. Naegler
Sample : R1508244-001|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

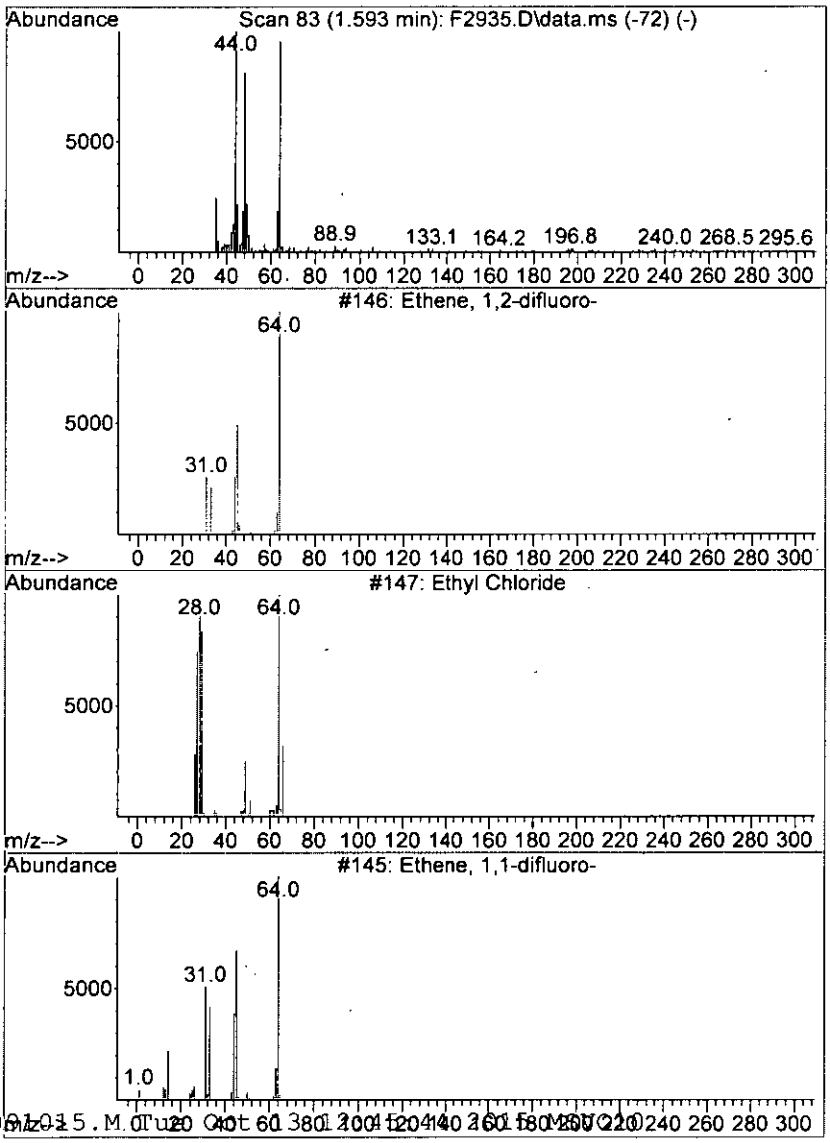
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

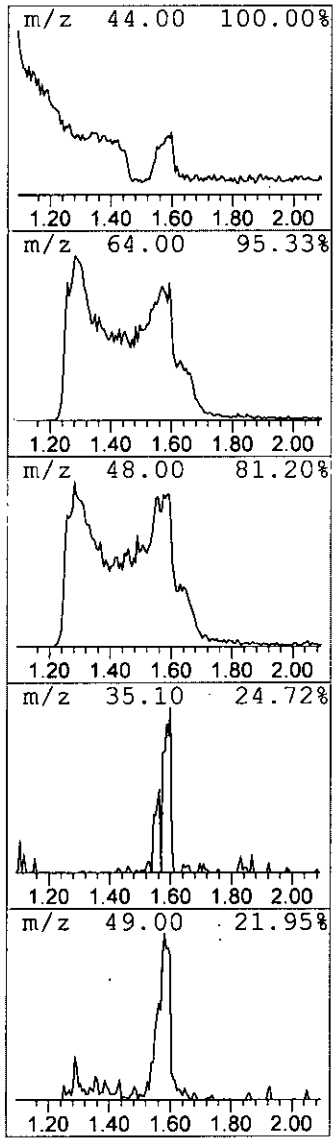
****

Peak Number 1 Ethene, 1,2-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.593	8.90 ug/L	334265	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	23
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	7
3	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	7
4	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	7
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	7





00060

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2935.D
Acq On : 8 Oct 2015 7:46 pm
Operator : F. Naegler
Sample : R1508244-001|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

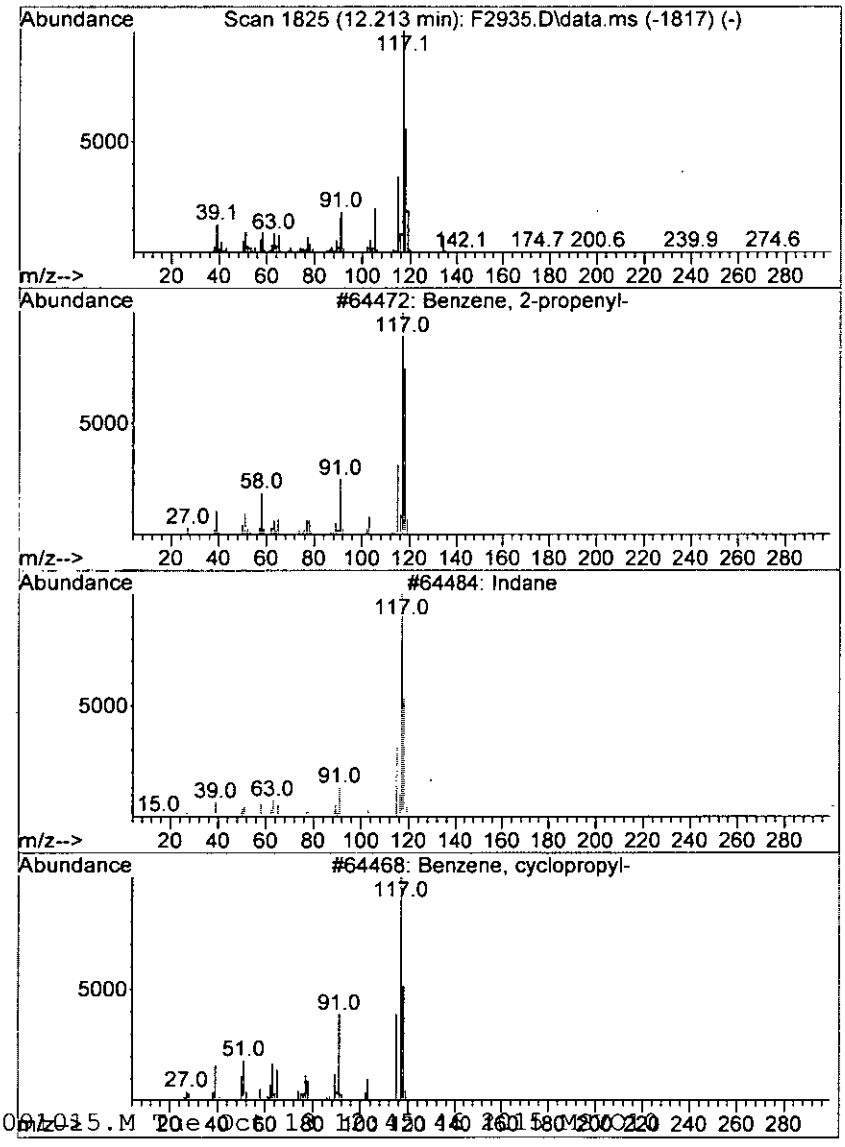
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

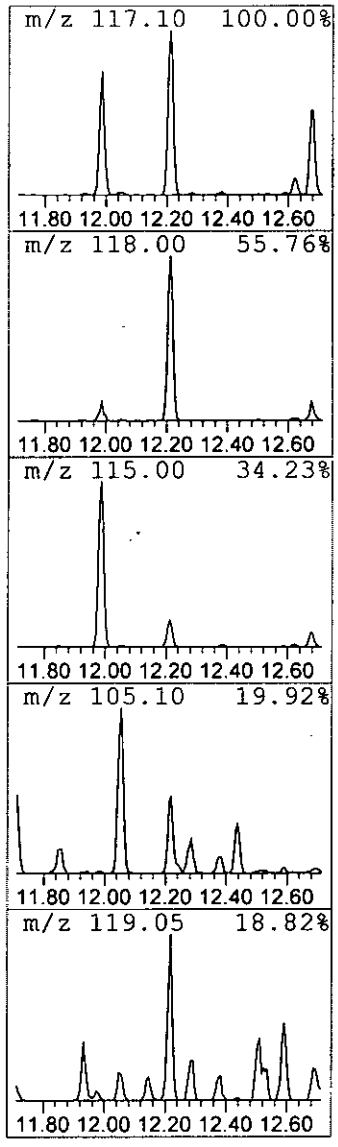
****

Peak Number 2 Benzene, 2-propenyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	9.39 ug/L	530175	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-propenyl-	118	C9H10	000300-57-2	76
* 2	Indane	118	C9H10	000496-11-7	76
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	70
4	Benzene, 1-propenyl-, (E)-	118	C9H10	000873-66-5	70
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	68





00061

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0900
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1508244-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	2.5	NA	10/8/15 20:11		465971	
1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	2.5	NA	10/8/15 20:11		465971	
1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	2.5	NA	10/8/15 20:11		465971	
1,1,2-Trichloroethane	ND	U	13	2.5	0.86	2.5	NA	10/8/15 20:11		465971	
1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,1-Dichloroethene (1,1-DCE)	**7.0**	J	13	2.5	1.5	2.5	NA	10/8/15 20:11		465971	
1,1-Dichloropropene	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	
1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	2.5	NA	10/8/15 20:11		465971	
1,2,3-Trichloropropane	ND	U	13	2.5	1.8	2.5	NA	10/8/15 20:11		465971	
1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	2.5	NA	10/8/15 20:11		465971	
1,2,4-Trimethylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	2.5	NA	10/8/15 20:11		465971	
1,2-Dibromoethane	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
1,2-Dichlorobenzene	ND	U	13	2.5	0.53	2.5	NA	10/8/15 20:11		465971	
1,2-Dichloroethane	ND	U	13	2.5	0.90	2.5	NA	10/8/15 20:11		465971	
1,2-Dichloropropane	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,3,5-Trimethylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,3-Dichlorobenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
1,3-Dichloropropane	ND	U	13	2.5	0.68	2.5	NA	10/8/15 20:11		465971	
1,4-Dichlorobenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
2,2-Dichloropropane	ND	U	13	2.5	0.68	2.5	NA	10/8/15 20:11		465971	
2-Butanone (MEK)	ND	U	13	2.5	2.1	2.5	NA	10/8/15 20:11		465971	
2-Chlorotoluene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
2-Hexanone	ND	U	13	13	4.2	2.5	NA	10/8/15 20:11		465971	
tert-Butyl Alcohol	ND	U	250	50	27	2.5	NA	10/8/15 20:11		465971	
4-Chlorotoluene	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
p-Isopropyltoluene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
4-Methyl-2-pentanone	ND	U	13	2.5	1.7	2.5	NA	10/8/15 20:11		465971	
Acetone	ND	U	13	13	3.1	2.5	NA	10/8/15 20:11		465971	
Benzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Bromobenzene	ND	U	13	2.5	0.71	2.5	NA	10/8/15 20:11		465971	
Bromochloromethane	ND	U	13	2.5	0.80	2.5	NA	10/8/15 20:11		465971	
Bromodichloromethane	ND	U	13	2.5	0.80	2.5	NA	10/8/15 20:11		465971	
Bromoform	ND	U	13	2.5	1.1	2.5	NA	10/8/15 20:11		465971	
Bromomethane	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	
Carbon Tetrachloride	ND	U	13	2.5	1.2	2.5	NA	10/8/15 20:11		465971	
Chlorobenzene	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0900
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1508244-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Chloroethane	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
Chloroform	ND	U	13	2.5	0.63	2.5	NA	10/8/15 20:11		465971	
Chloromethane	**0.55**	J	13	2.5	0.53	2.5	NA	10/8/15 20:11		465971	
Dibromochloromethane	ND	U	13	2.5	0.78	2.5	NA	10/8/15 20:11		465971	
Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	2.5	NA	10/8/15 20:11		465971	
Methylene Chloride	ND	U	13	2.5	1.5	2.5	NA	10/8/15 20:11		465971	
Ethylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Hexachlorobutadiene	ND	U	13	2.5	1.6	2.5	NA	10/8/15 20:11		465971	
Isopropylbenzene (Cumene)	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	2.5	NA	10/8/15 20:11		465971	
Naphthalene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Styrene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Tetrachloroethene (PCE)	**1300**	D	50	10	3.0	10	NA	10/9/15 19:53		466298	
Toluene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Trichloroethene (TCE)	**550**	D	50	10	2.2	10	NA	10/9/15 19:53		466298	
Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
Vinyl Chloride	**53**		13	2.5	0.80	2.5	NA	10/8/15 20:11		465971	
cis-1,2-Dichloroethene	**600**	D	50	10	3.0	10	NA	10/9/15 19:53		466298	
cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	2.5	NA	10/8/15 20:11		465971	
m,p-Xylenes	ND	U	25	5.0	0.83	2.5	NA	10/8/15 20:11		465971	
n-Butylbenzene	ND	U	13	2.5	0.53	2.5	NA	10/8/15 20:11		465971	
n-Propylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
o-Xylene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
sec-Butylbenzene	ND	U	13	2.5	0.68	2.5	NA	10/8/15 20:11		465971	
tert-Butylbenzene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	
trans-1,2-Dichloroethene	**2.7**	J	13	2.5	0.83	2.5	NA	10/8/15 20:11		465971	
trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	2.5	NA	10/8/15 20:11		465971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	75-120	10/8/15 20:11	
Dibromofluoromethane	93	85-115	10/8/15 20:11	
Toluene-d8	99	85-120	10/8/15 20:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/ 8/15 - 10/ 9/15

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1508244-002	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**57.9**	J

Comments:

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page

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2936.D
Acq On : 8 Oct 2015 8:11 pm
Operator : F. Naegler
Sample : R1508244-002|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 13 12:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	5.671	168	660121	50.00	ug/L		0.00	
41) 1,4-Difluorobenzene	6.720	114	956692	50.00	ug/L		0.00	
70) d5-Chlorobenzene	9.957	117	857010	50.00	ug/L		0.00	
90) 1,4-Dichlorobenzene-d4	11.987	152	447152	50.00	ug/L		0.00	
System Monitoring Compounds								
43) surr4,Dibrflmethane	5.519	113	287748	46.61	ug/L		0.00	
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.22%					
46) surr1,1,2-dichloroetha...	6.031	65	399101	45.60	ug/L		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.20%					
64) SURR3,Toluene-d8	8.488	98	1111343	49.40	ug/L		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.80%					
69) SURR2,BFB	11.018	95	412159	44.36	ug/L		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.72%					
Target Compounds							Qvalue	
3) Chloromethane	1.300	50	1782	0.22	ug/L		93	
4) Vinyl Chloride	1.379	62	147529	21.39	ug/L		92	
13) 1,1-Diclethene	2.367	96	15092	2.79	ug/L		85	
15) Acetone	2.416	43	6126	1.09	ug/L		89	
26) trans-1,2-Dichloroethene	3.172	96	6504	1.09	ug/L	#	76	
33) cis-1,2-Dichloroethene	4.623	96	1512975	218.96	ug/L	#	81	E
53) Trichloroethene	7.031	130	1482149	194.99	ug/L		97	
71) Tetrachloroethene	9.146	164	2567869	464.88	ug/L		94	E

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Report + Rpt 1/10

FU 10/13/15

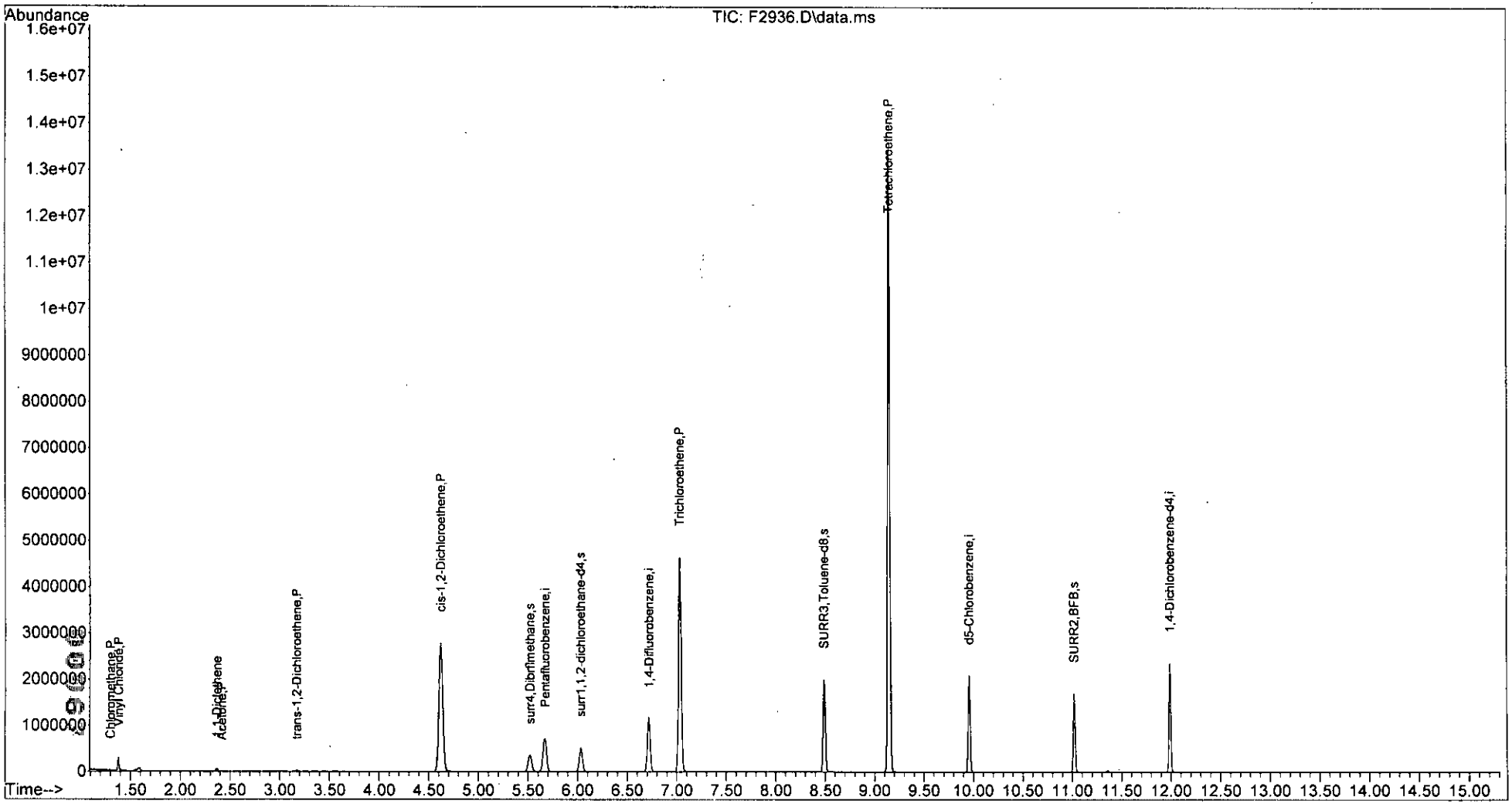
KF 10/13/15

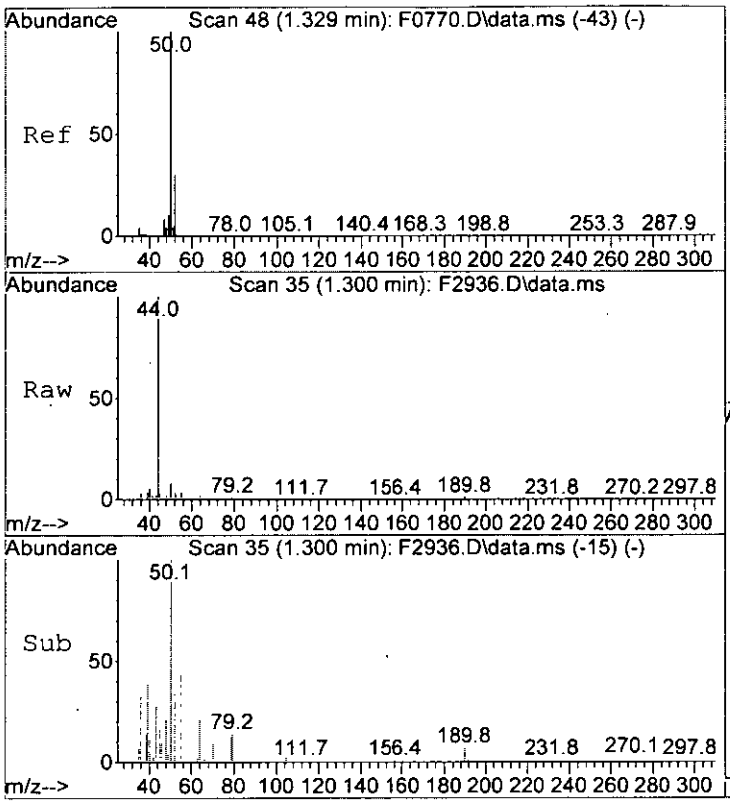
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Quantitation Report (QT Reviewed)

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Data File : F2936.D
Acq On : 8 Oct 2015 8:11 pm
Operator : F. Naegler
Sample : R1508244-002|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 13 12:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

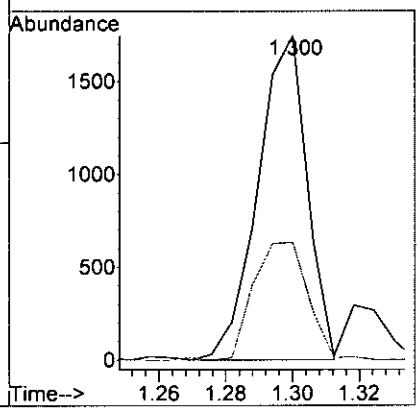


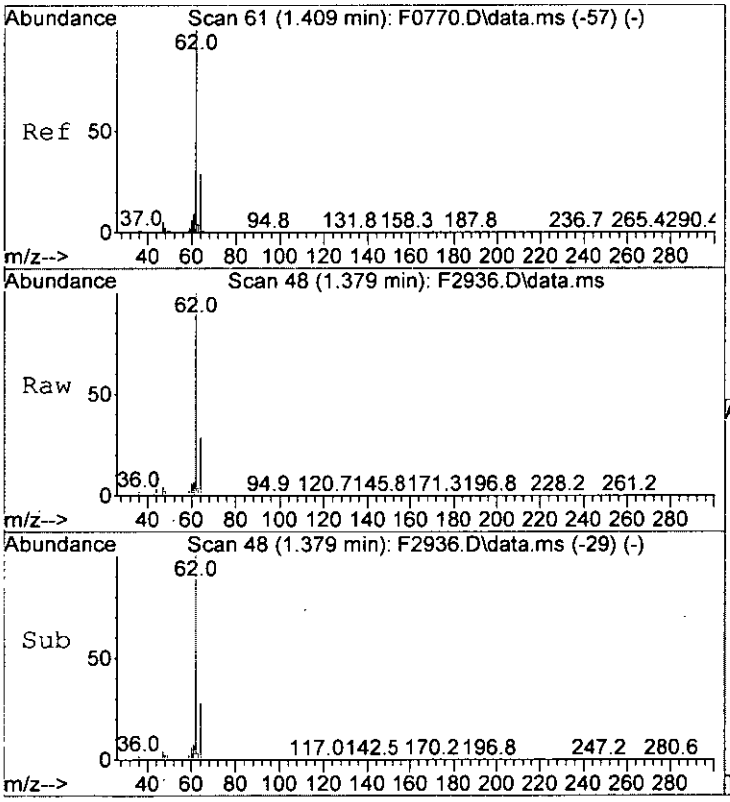


#3
Chloromethane
Concen: 0.22 ug/L
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion: 50 Resp: 1782

Ion	Ratio	Lower	Upper
50	100		
52	36.2	12.0	52.0

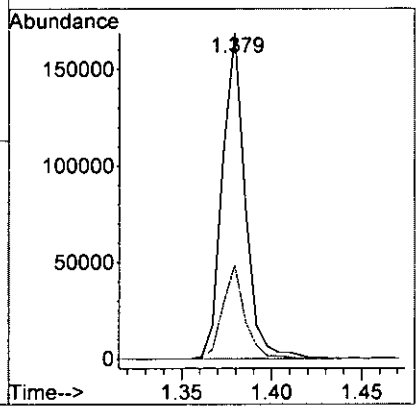




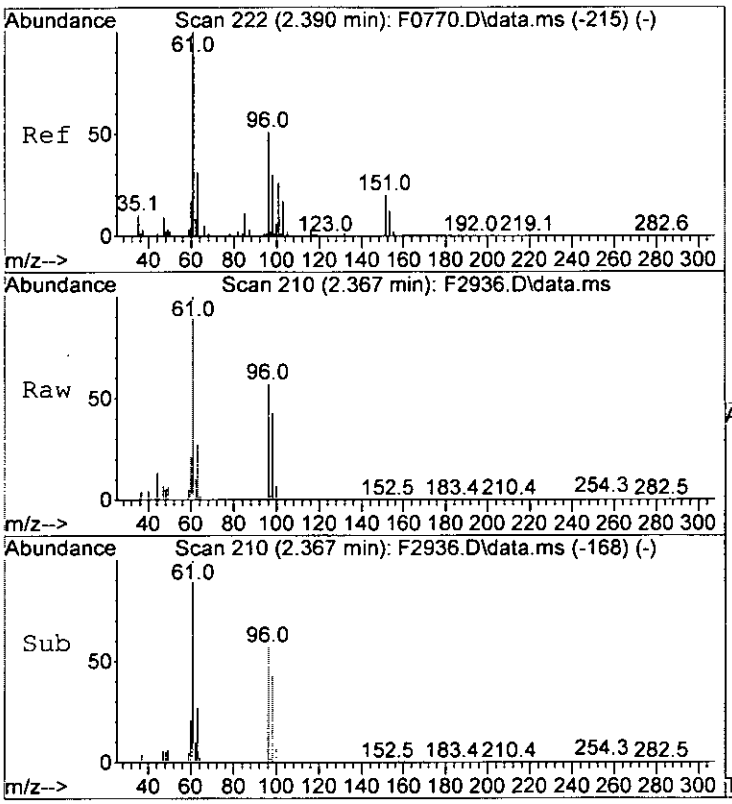
#4
Vinyl Chloride
Concen: 21.39 ug/L
RT: 1.379 min Scan# 48
Delta R.T. -0.000 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion: 62 Resp: 147529

Ion	Ratio	Lower	Upper
62	100		
64	28.7	13.1	53.1



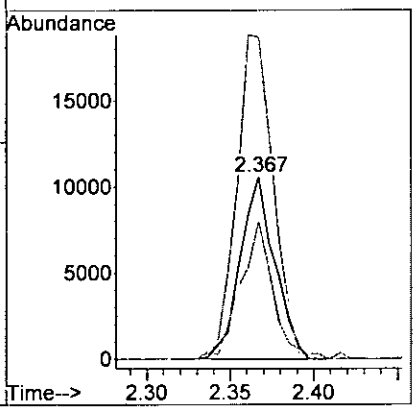
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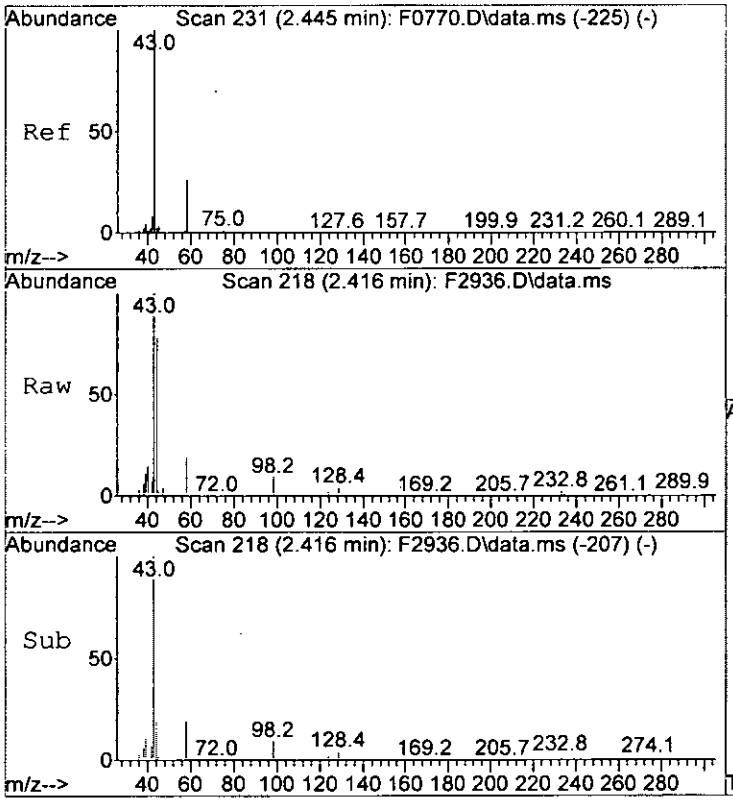


#13
1,1-Diclethene
Concen: 2.79 ug/L
RT: 2.367 min Scan# 210
Delta R.T. 0.006 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion: 96 Resp: 15092

Ion	Ratio	Lower	Upper
96	100		
98	75.6	38.1	78.1
61	176.8	174.4	214.4

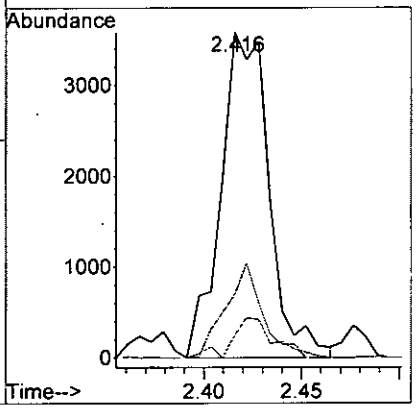


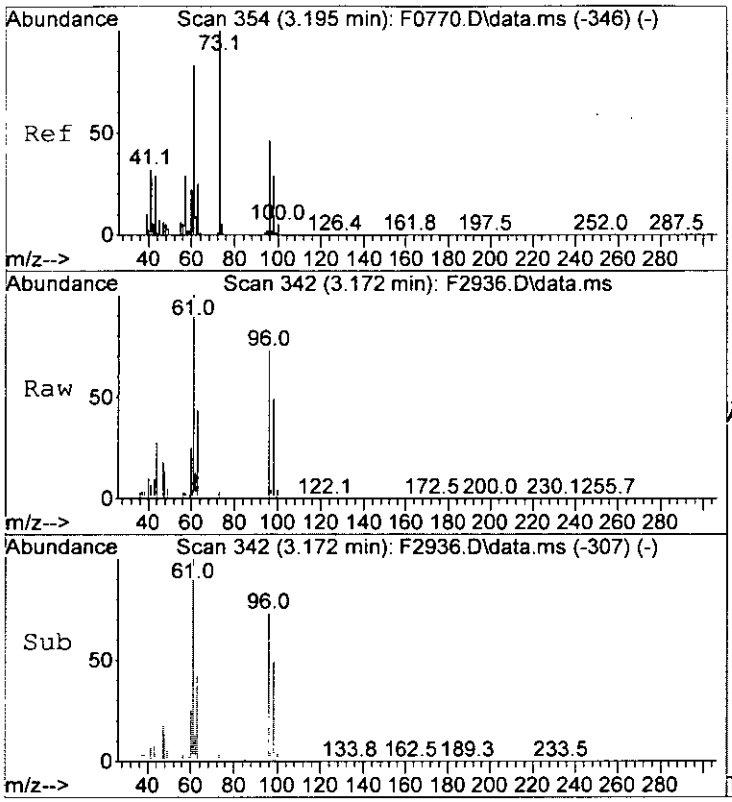


#15
Acetone
Concen: 1.09 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion: 43 Resp: 6126

Ion	Ratio	Lower	Upper
43	100		
58	19.4	6.1	46.1
42	6.9	0.0	28.3

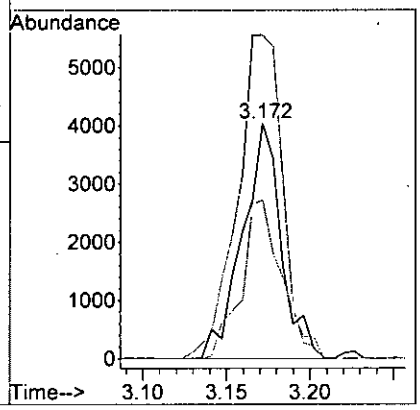


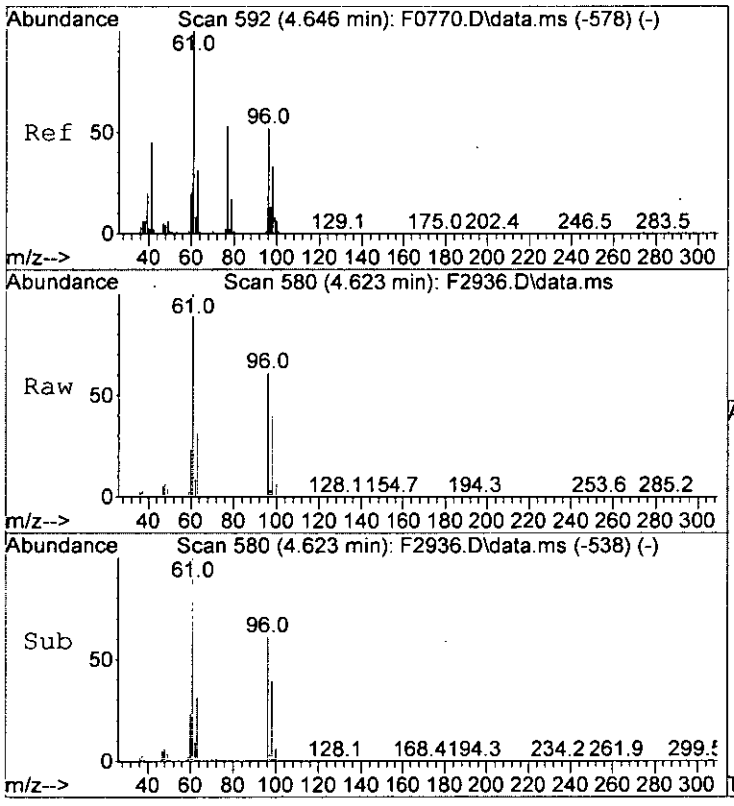


#26
trans-1,2-Dichloroethene
Concen: 1.09 ug/L
RT: 3.172 min Scan# 342
Delta R.T. 0.006 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion: 96 Resp: 6504

Ion	Ratio	Lower	Upper
96	100		
98	67.5	42.9	82.9
61	137.6	160.6	200.6#

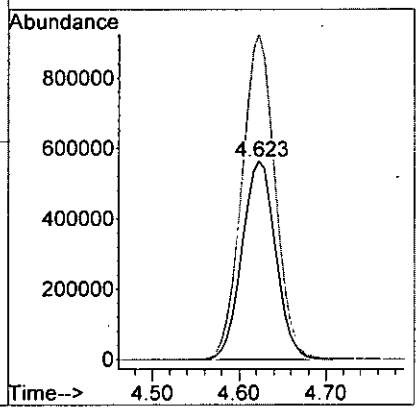


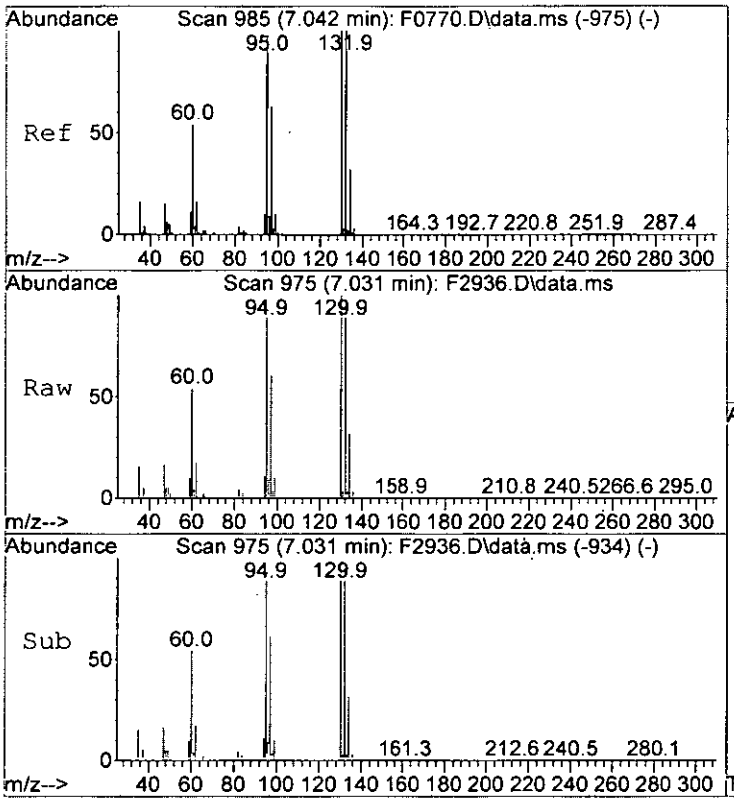


#33
cis-1,2-Dichloroethene
Concen: 218.96 ug/L
RT: 4.623 min Scan# 580
Delta R.T. -0.000 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion: 96 Resp: 1512975

Ion	Ratio	Lower	Upper
96	100		
61	164.4	173.0	213.0#

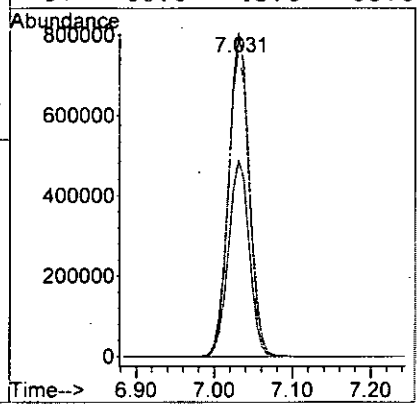


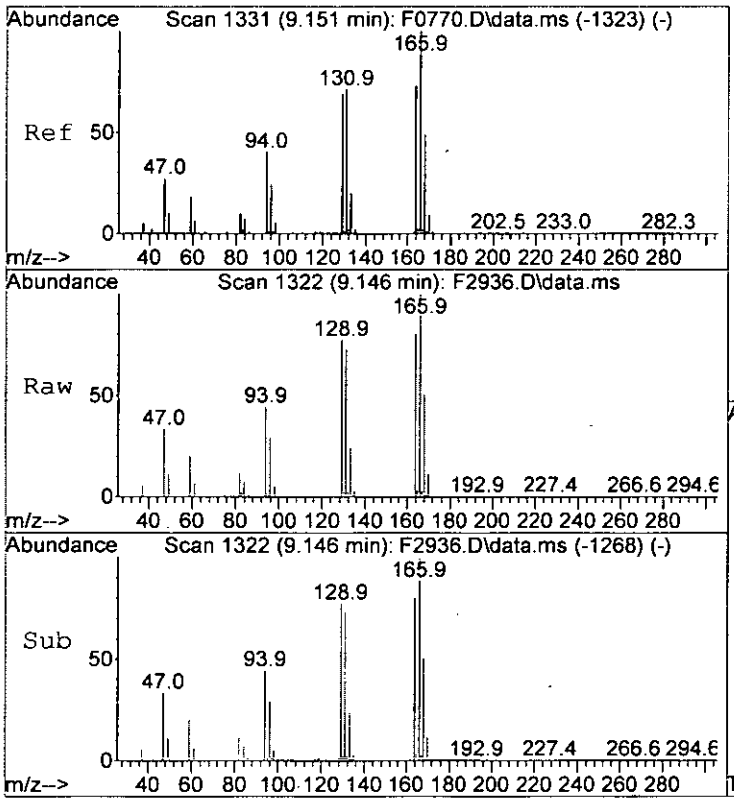


#53
Trichloroethene
Concen: 194.99 ug/L
RT: 7.031 min Scan# 975
Delta R.T. -0.000 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion:130 Resp: 1482149

Ion	Ratio	Lower	Upper
130	100		
132	97.5	79.9	119.9
95	93.4	77.5	117.5
97	60.8	43.0	83.0

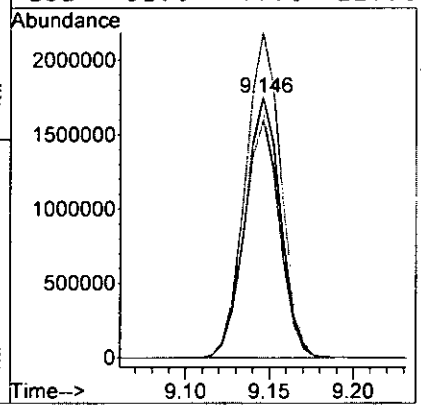




#71
Tetrachloroethene
Concen: 464.88 ug/L
RT: 9.146 min Scan# 1322
Delta R.T. -0.000 min
Lab File: F2936.D
Acq: 8 Oct 2015 8:11 pm

Tgt Ion:164 Resp: 2567869

Ion	Ratio	Lower	Upper
164	100		
166	125.0	117.3	157.3
129	95.8	74.9	114.9
131	91.4	77.4	117.4



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2936.D
Acq On : 8 Oct 2015 8:11 pm
Operator : F. Naegler
Sample : R1508244-002|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2936.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.379	44	48	52	rBV	273924	251127	1.28%	0.474%
2	4.623	568	580	601	rBV	2785687	7477435	38.07%	14.111%
3	5.519	717	727	737	rBV3	354369	925415	4.71%	1.746%
4	5.671	741	752	762	rVB	727086	1815790	9.24%	3.427%
5	6.031	802	811	824	rBV	514033	1149765	5.85%	2.170%
6	6.714	914	923	936	rBV	1183730	2334516	11.89%	4.406%
7	7.031	966	975	987	rBV	4643662	8440415	42.97%	15.928%
8	8.488	1207	1214	1223	rBV	1998919	3168098	16.13%	5.979%
9	9.146	1314	1322	1334	rBV	13414062	19641617	100.00%	37.067%
10	9.957	1449	1455	1463	rBV	2092311	2788059	14.19%	5.261%
11	11.018	1624	1629	1635	rBV	1703340	2119351	10.79%	4.000%
12	11.987	1783	1788	1795	rBV	2360879	2878375	14.65%	5.432%

Sum of corrected areas: 52989963

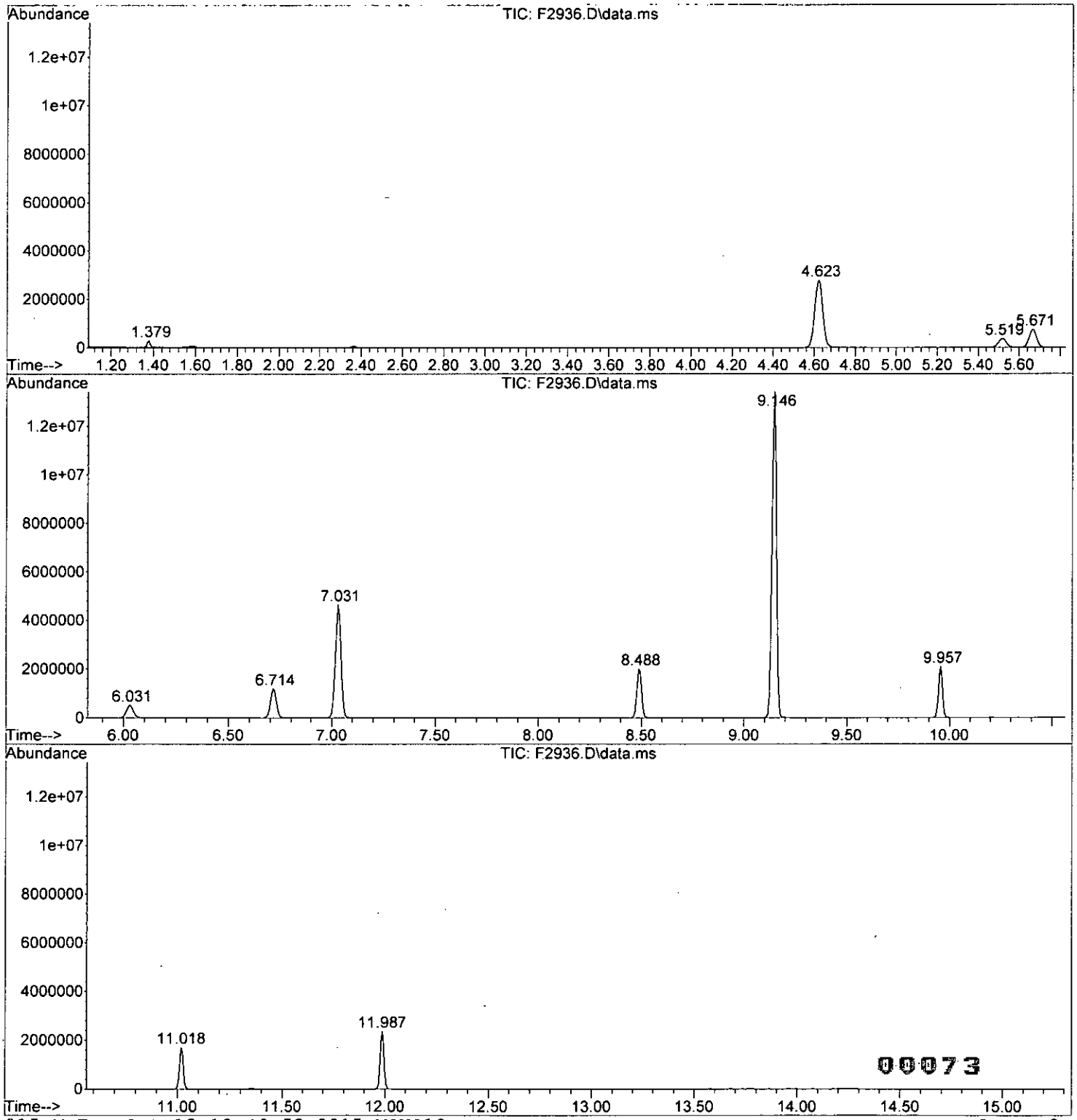
00072

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2936.D
Acq On : 8 Oct 2015 8:11 pm
Operator : F. Naegler
Sample : R1508244-002|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100815\\
Data File : F2936.D
Acq On : 8 Oct 2015 8:11 pmm
Operator : F. Naeglerr
Sample : R1508244-002|2.5 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 22 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

00074

Blank
pages

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2990.D
Acq On : 9 Oct 2015 7:53 pm
Operator : F. Naegler
Sample : R1508244-002|10.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

DL

Quant Time: Oct 14 15:40:21 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	645208	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	929507	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	832211	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	426064	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	282097	47.04	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.08%				
46) surr1,1,2-dichloroetha...	6.031	65	381437	44.86	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 89.72%				
64) SURR3,Toluene-d8	8.488	98	1068373	48.88	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.76%				
69) SURR2,BFB	11.018	95	406532	45.03	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.06%				
Target Compounds							Qvalue
3) Chloromethane	1.300	50	1615	0.21	ug/L		71
4) Vinyl Chloride	1.379	62	39847	5.91	ug/L		98
13) 1,1-Diclethene	2.367	96	4575	0.87	ug/L	#	67
15) Acetone	2.422	43	2760	0.50	ug/L		86
26) trans-1,2-Dichloroethene	3.172	96	2170m	0.37	ug/L		
33) cis-1,2-Dichloroethene	4.623	96	406410	60.18	ug/L	#	76
53) Trichloroethene	7.031	130	409484	55.45	ug/L		95
71) Tetrachloroethene	9.146	164	714623	133.23	ug/L		94
100) 1,2,4-Trimethylbenzene	11.707	105	4804	0.22	ug/L		88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

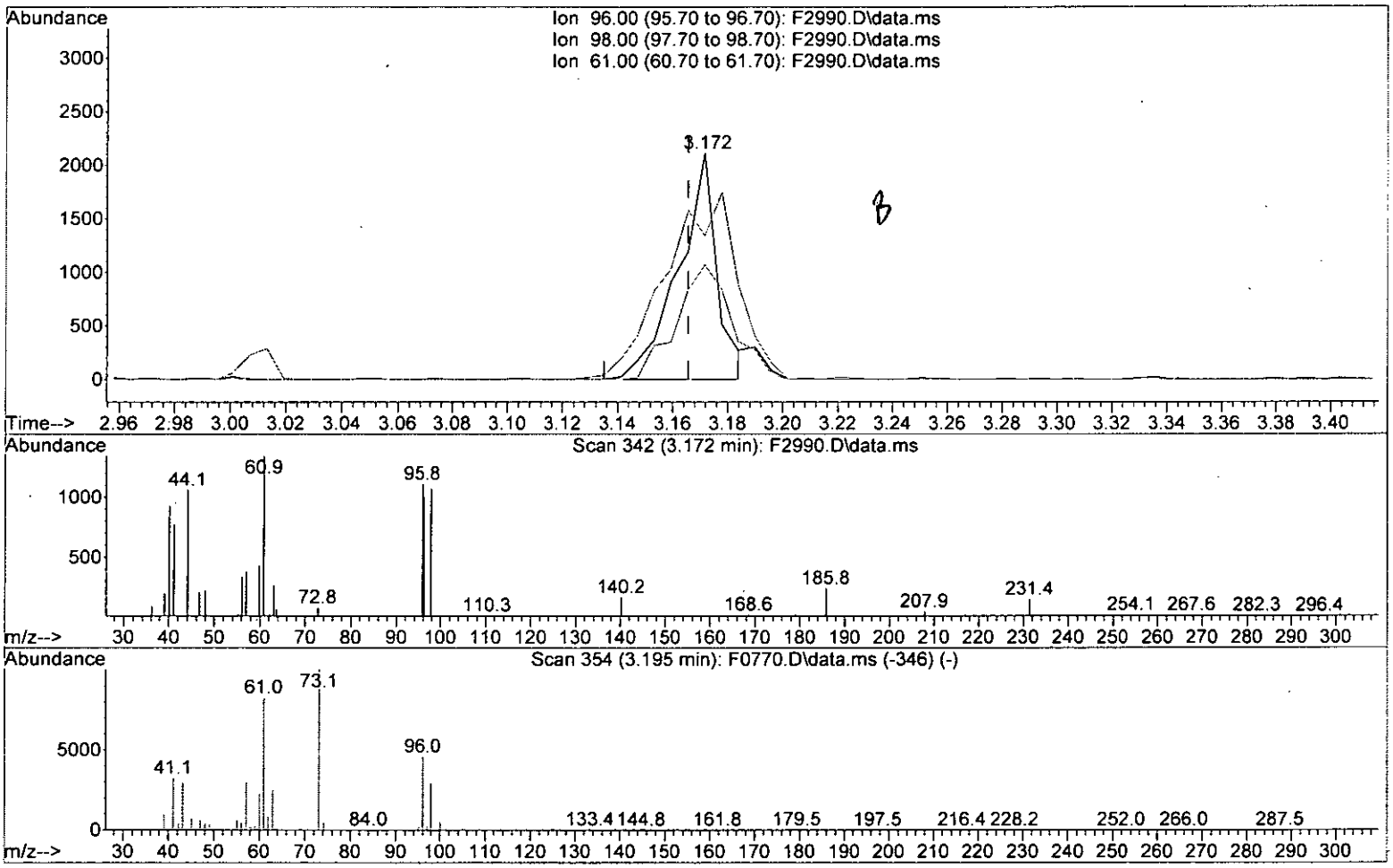
FN
10/14/15

00079

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2990.D
Acq On : 9 Oct 2015 7:53 pm
Operator : F. Naegler
Sample : R1508244-002|10.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 09 20:07:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2990.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.172min (+0.006) 0.35 ug/L

response 2032

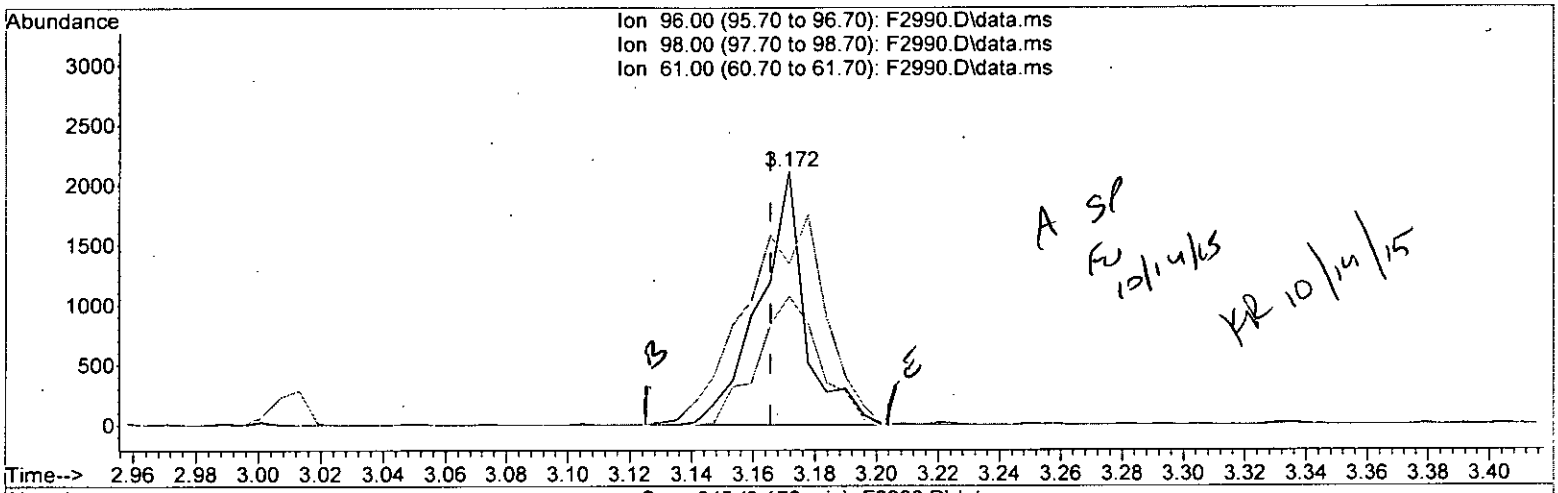
Ion	Exp%	Act%
96.00	100	100
98.00	62.90	50.59
61.00	180.60	63.52#
0.00	0.00	0.00

00080

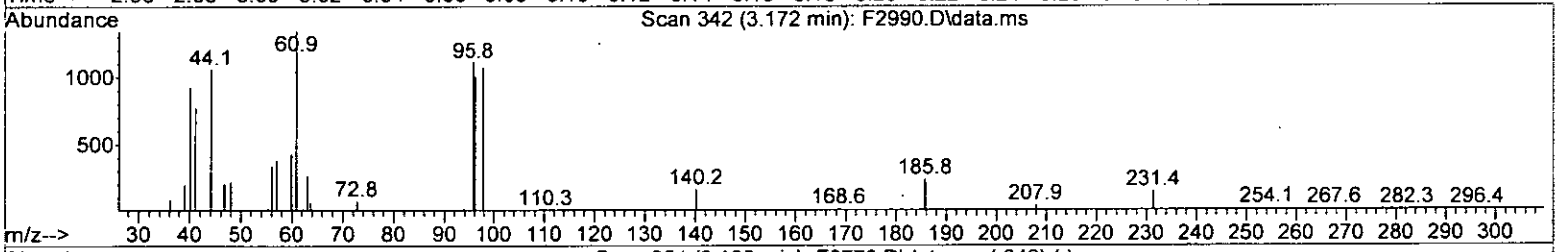
Quantitation Report (Qedit)

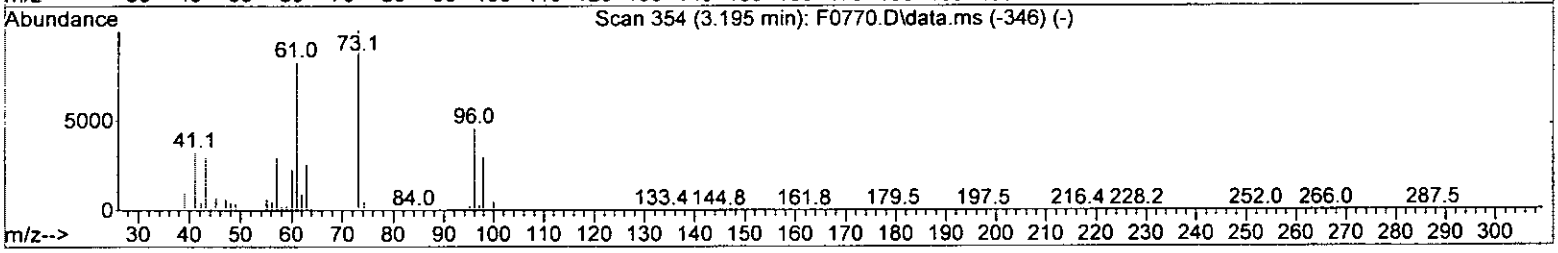
Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2990.D
Acq On : 9 Oct 2015 7:53 pm
Operator : F. Naegler
Sample : R1508244-002|10.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 09 20:07:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



A SP
FN 10/14/15
KR 10/14/15





TIC: F2990.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.172min (+0.006) 0.37 ug/L m

response 2170

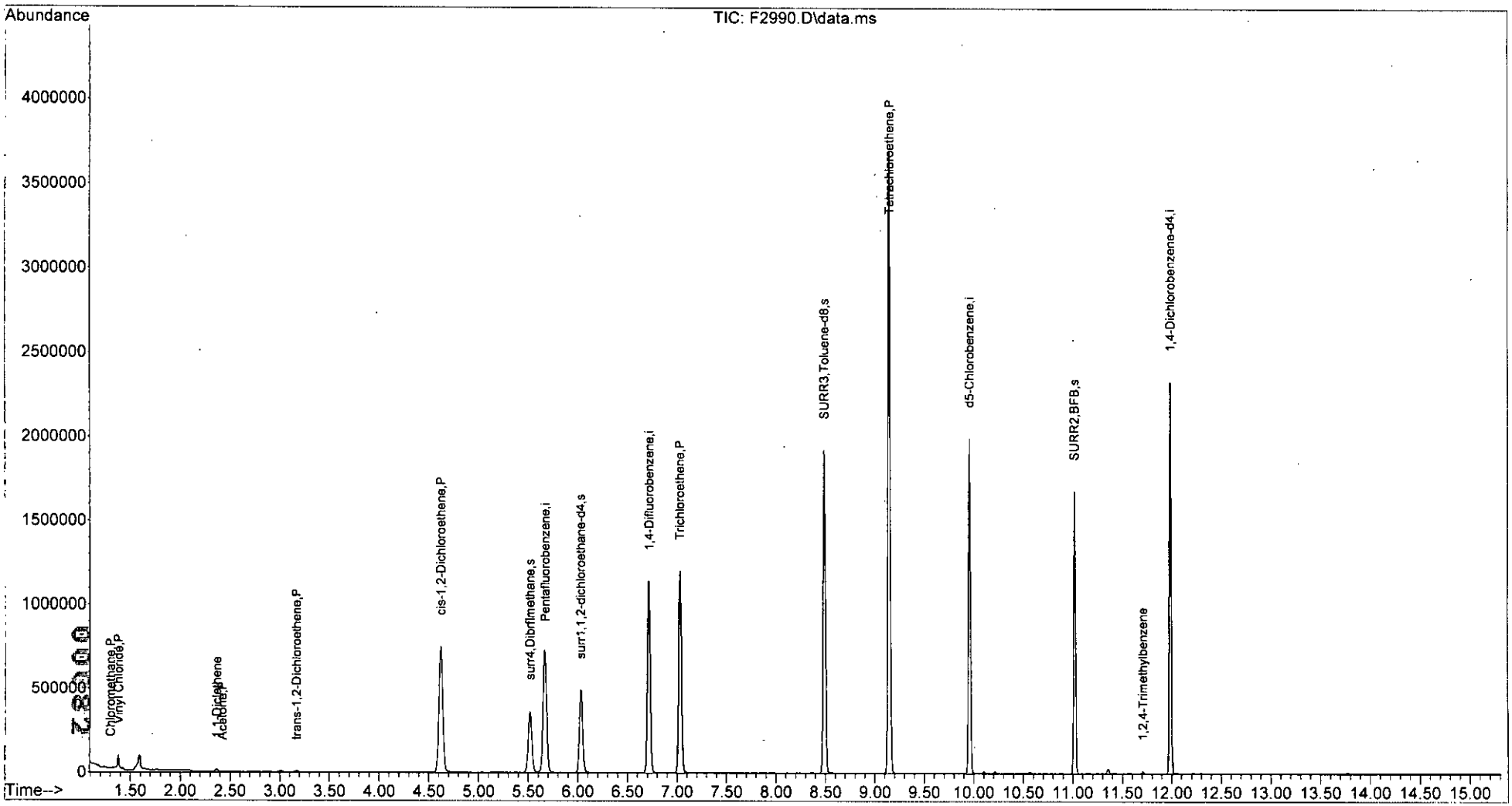
Ion	Exp%	Act%
96.00	100	100
98.00	62.90	96.30#
61.00	180.60	120.92#
0.00	0.00	0.00

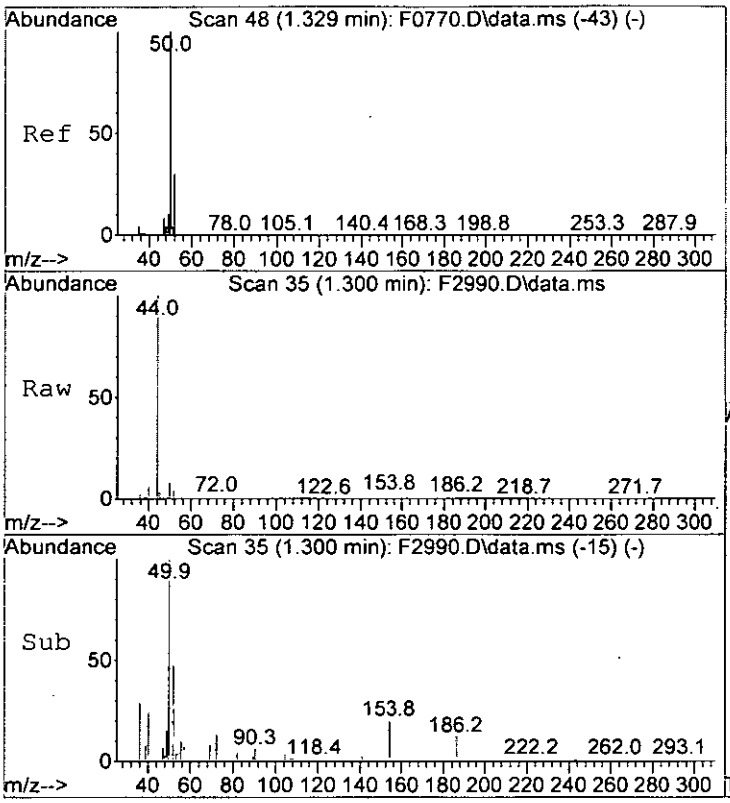
00081

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2990.D
Acq On : 9 Oct 2015 7:53 pm
Operator : F. Naegler
Sample : R1508244-002|10.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 14 15:40:21 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

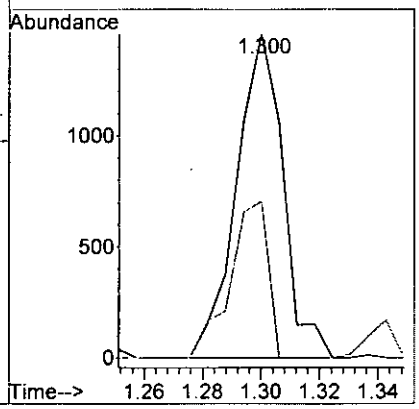


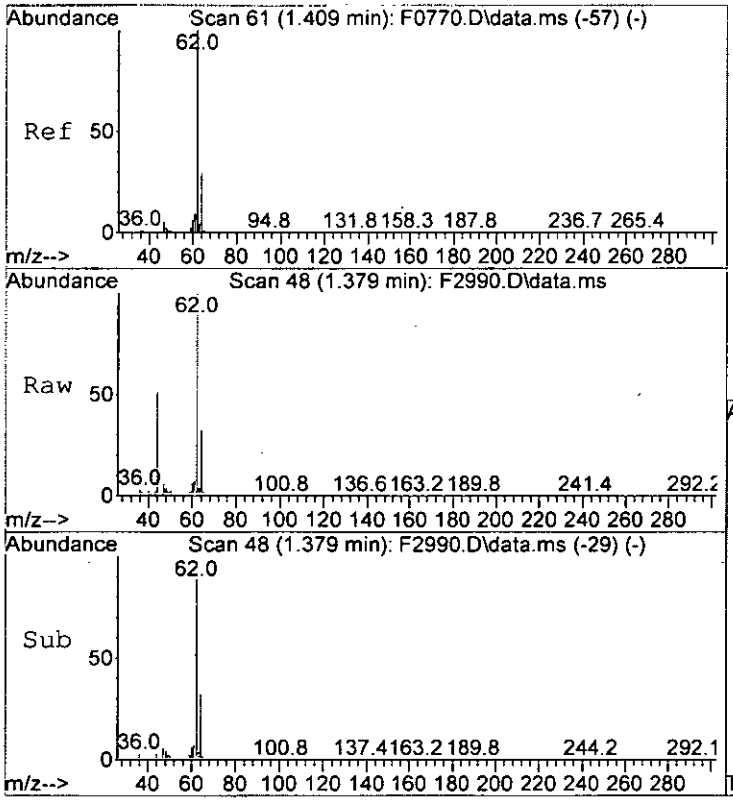


#3
Chloromethane
Concen: 0.21 ug/L
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion: 50 Resp: 1615

Ion	Ratio	Lower	Upper
50	100		
52	48.4	12.0	52.0

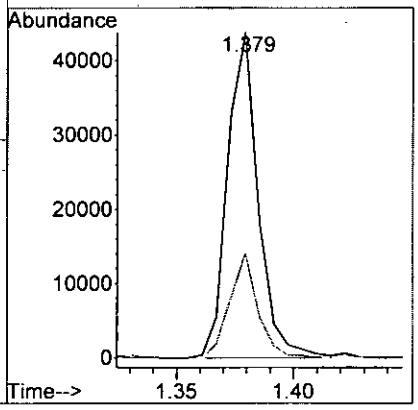


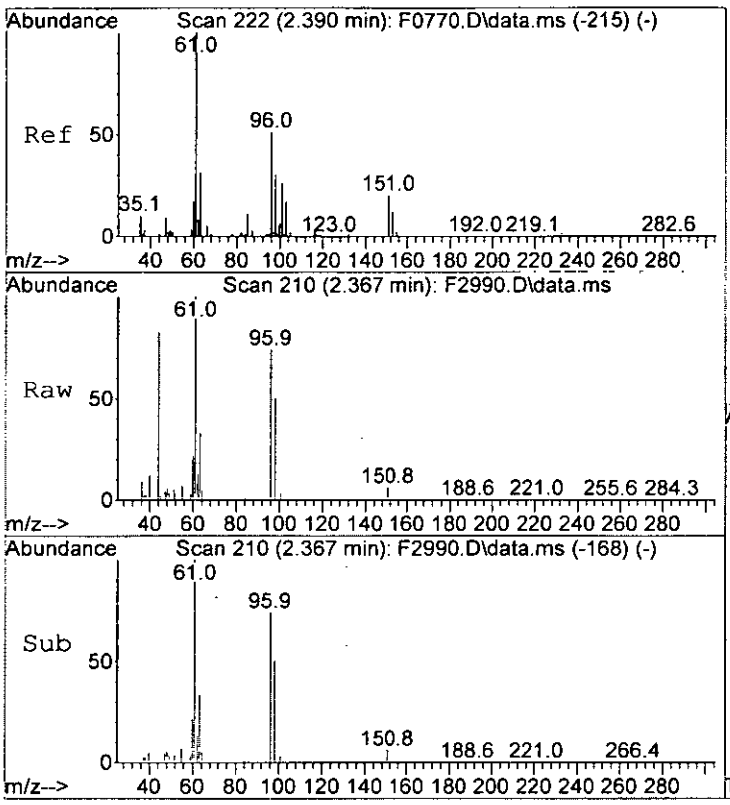


#4
Vinyl Chloride
Concen: 5.91 ug/L
RT: 1.379 min Scan# 48
Delta R.T. -0.000 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion: 62 Resp: 39847

Ion	Ratio	Lower	Upper
62	100		
64	32.1	13.1	53.1

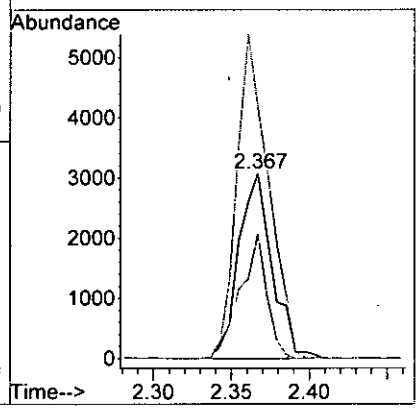


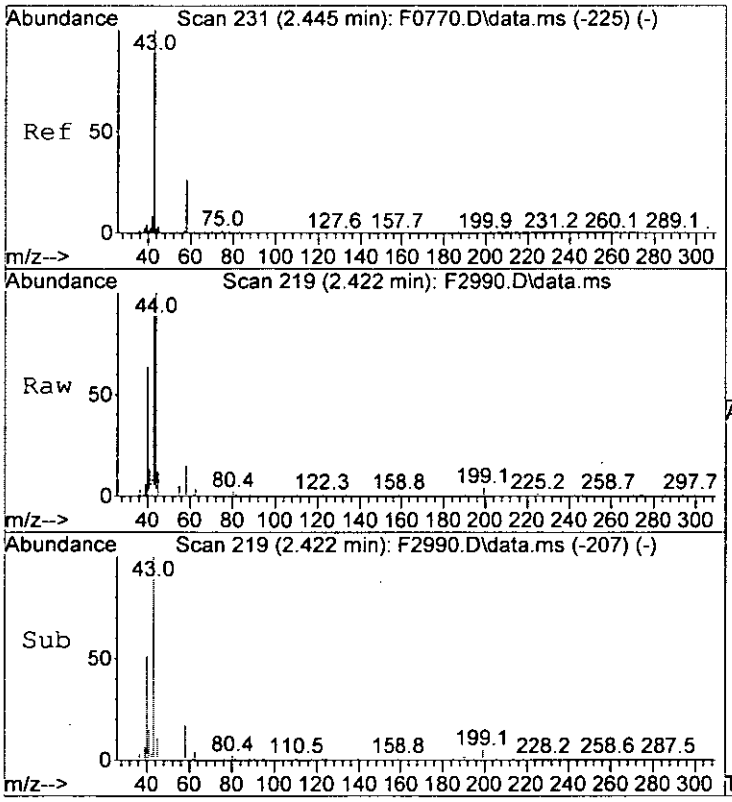


#13
1,1-Diclethene
Concen: 0.87 ug/L
RT: 2.367 min Scan# 210
Delta R.T. 0.006 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion: 96 Resp: 4575

Ion	Ratio	Lower	Upper
96	100		
98	67.3	38.1	78.1
61	135.3	174.4	214.4#

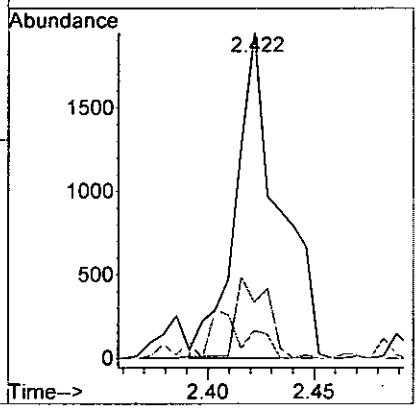


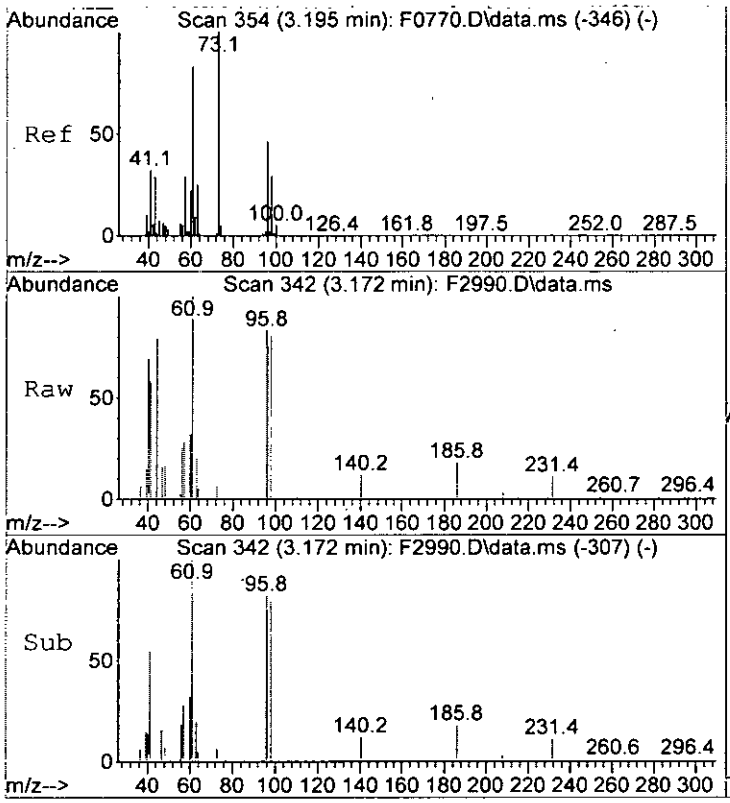


#15
Acetone
Concen: 0.50 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion: 43 Resp: 2760

Ion	Ratio	Lower	Upper
43	100		
58	17.0	6.1	46.1
42	8.4	0.0	28.3

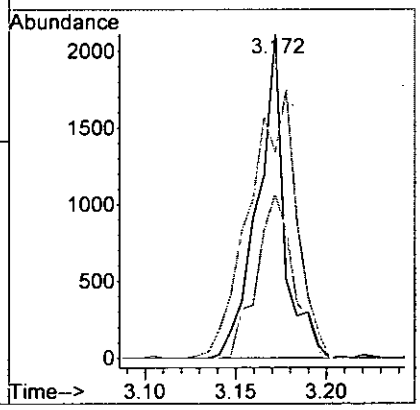


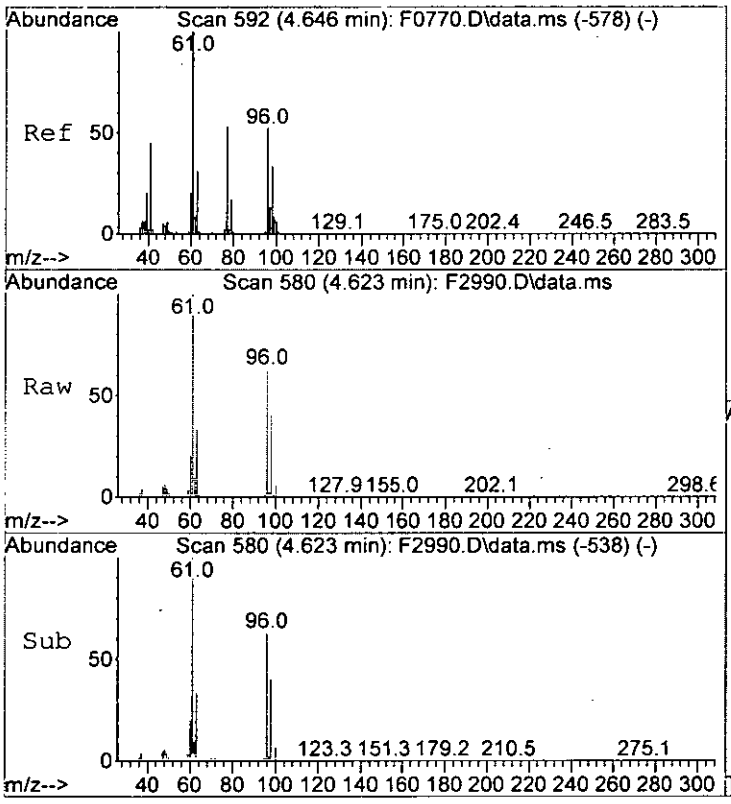


#26
trans-1,2-Dichloroethene
Concen: 0.37 ug/L m
RT: 3.172 min Scan# 342
Delta R.T. 0.006 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion: 96 Resp: 2170

Ion	Ratio	Lower	Upper
96	100		
98	96.3	42.9	82.9#
61	120.9	160.6	200.6#

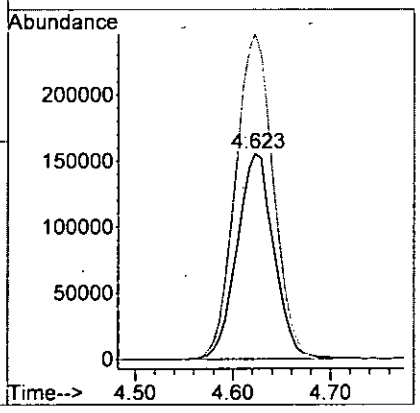




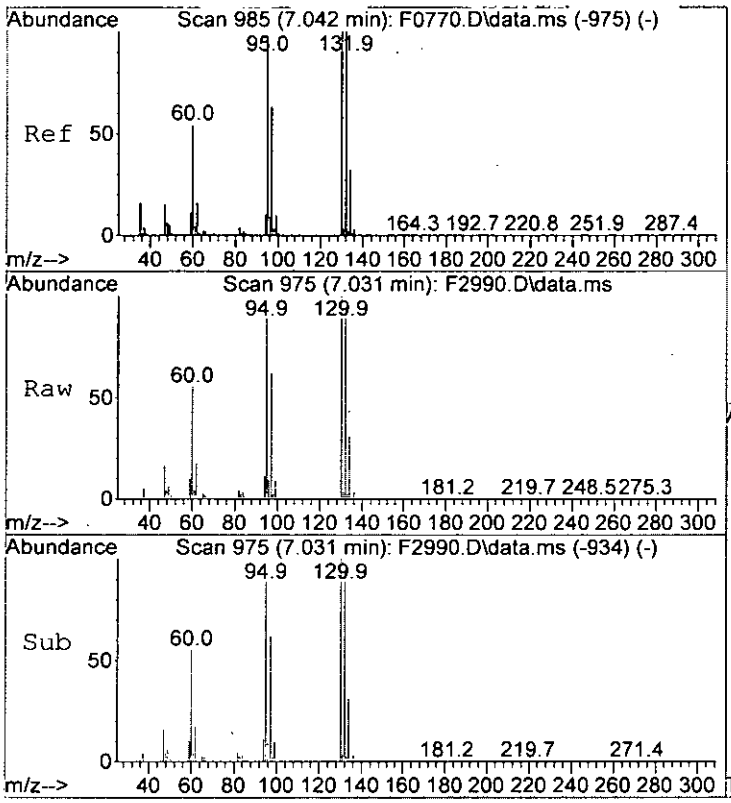
#33
cis-1,2-Dichloroethene
Concen: 60.18 ug/L
RT: 4.623 min Scan# 580
Delta R.T. -0.000 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion: 96 Resp: 406410

Ion	Ratio	Lower	Upper
96	100		
61	158.1	173.0	213.0#



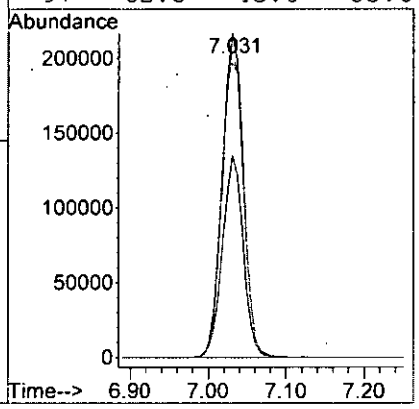
00085

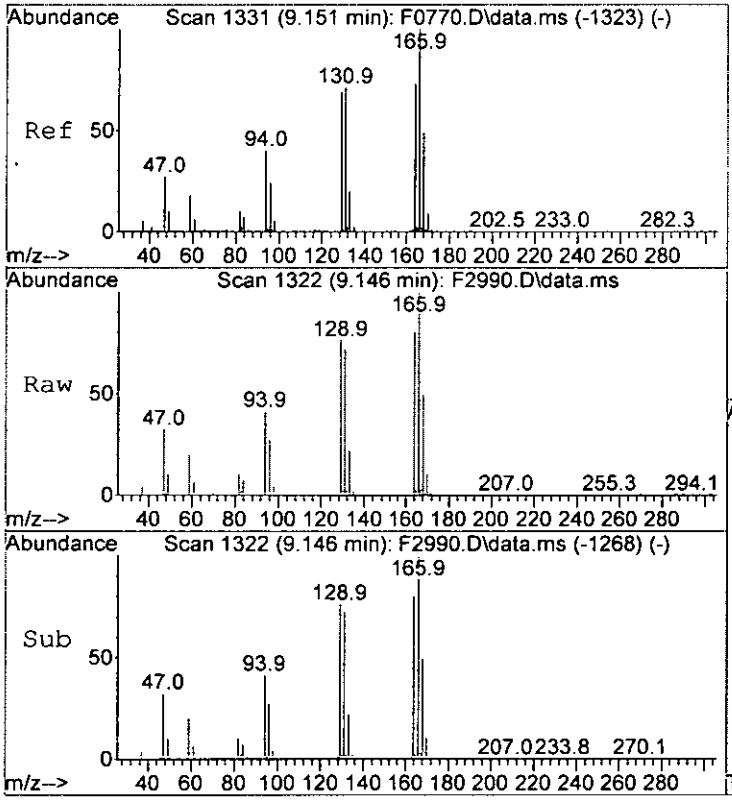


#53
Trichloroethene
Concen: 55.45 ug/L
RT: 7.031 min Scan# 975
Delta R.T. -0.000 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion:130 Resp: 409484

Ion	Ratio	Lower	Upper
130	100		
132	94.1	79.9	119.9
95	90.8	77.5	117.5
97	62.5	43.0	83.0

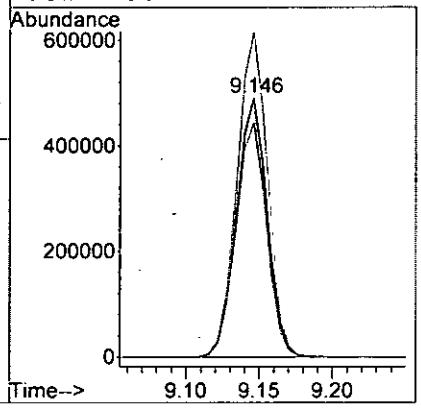




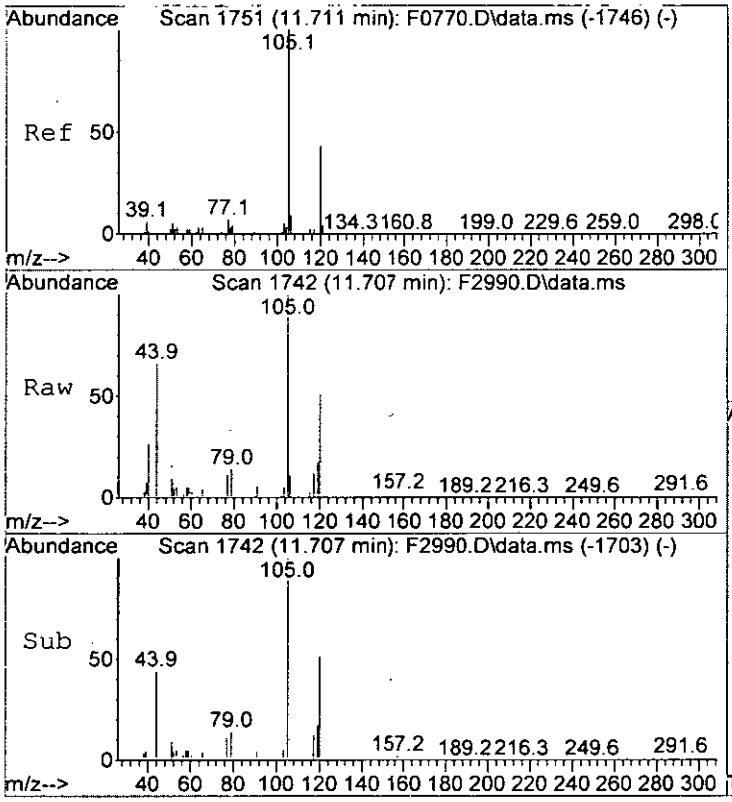
#71
Tetrachloroethene
Concen: 133.23 ug/L
RT: 9.146 min Scan# 1322
Delta R.T. -0.000 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion:164 Resp: 714623

Ion	Ratio	Lower	Upper
164	100		
166	125.5	117.3	157.3
129	94.8	74.9	114.9
131	90.2	77.4	117.4



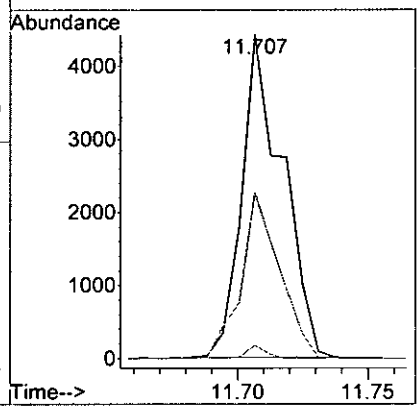
00086



#100
1,2,4-Trimethylbenzene
Concen: 0.22 ug/L
RT: 11.707 min Scan# 1742
Delta R.T. -0.006 min
Lab File: F2990.D
Acq: 9 Oct 2015 7:53 pm

Tgt Ion:105 Resp: 4804

Ion	Ratio	Lower	Upper
105	100		
120	51.3	23.4	63.4
65	4.0	0.0	22.7



00087

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2990.D
Acq On : 9 Oct 2015 7:53 pm
Operator : F. Naegler
Sample : R1508244-002|10.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2990.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.379	45	48	53	rVB	78690	75414	1.38%	0.282%
2	1.587	72	82	90	rBV3	87192	208881	3.82%	0.780%
3	4.623	570	580	595	rBV	747744	2013961	36.86%	7.523%
4	5.519	716	727	738	rBV3	365625	918966	16.82%	3.433%
5	5.665	738	751	762	rVB	726969	1804976	33.04%	6.742%
6	6.031	801	811	827	rVB2	492091	1121503	20.53%	4.189%
7	6.714	914	923	936	rBV	1140927	2270589	41.56%	8.481%
8	7.031	965	975	988	rVB	1202467	2288792	41.89%	8.549%
9	8.488	1205	1214	1222	rBV	1923457	3076128	56.31%	11.490%
10	9.146	1315	1322	1334	rVB	3689504	5463228	100.00%	20.407%
11	9.957	1448	1455	1463	rVB	1993157	2693796	49.31%	10.062%
12	11.018	1622	1629	1637	rBV	1682671	2092842	38.31%	7.818%
13	11.987	1782	1788	1795	rVB	2330597	2742104	50.19%	10.243%

FN 10/14/15

Sum of corrected areas: 26771180

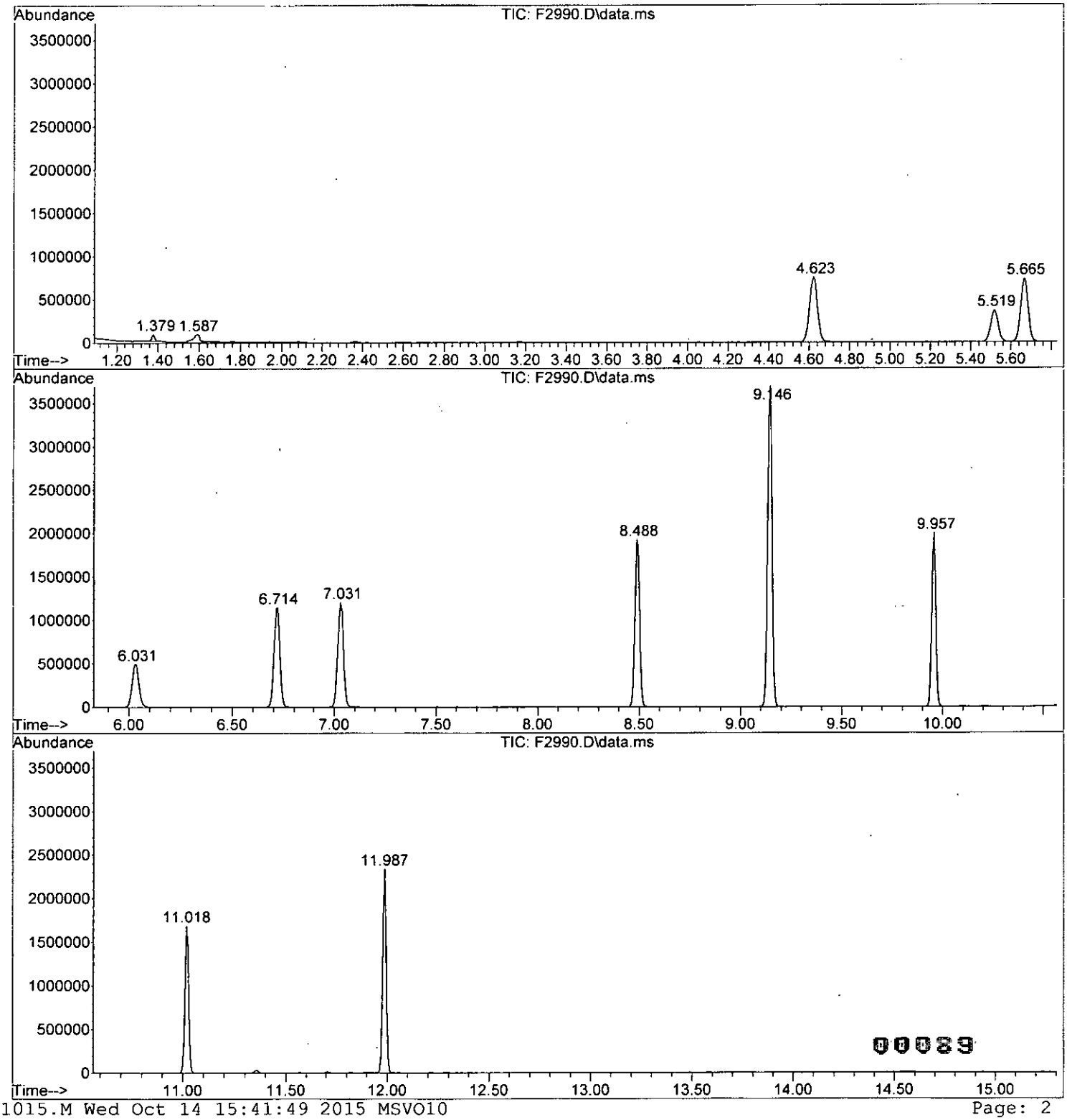
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LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2990.D
Acq On : 9 Oct 2015 7:53 pm
Operator : F. Naegler
Sample : R1508244-002|10.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2990.D
Acq On : 9 Oct 2015 7:53 pm
Operator : F. Naegler
Sample : R1508244-002|10.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

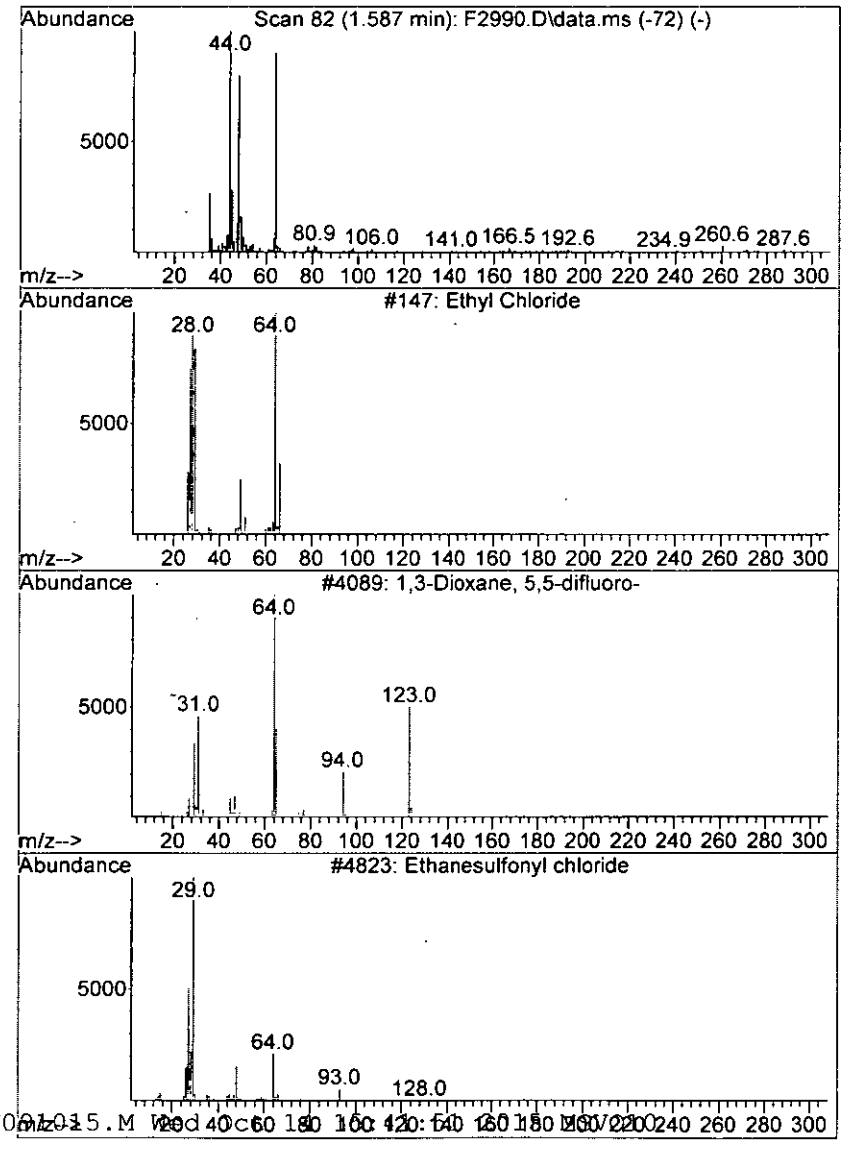
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TIC Integration Parameters: LSCINT.P

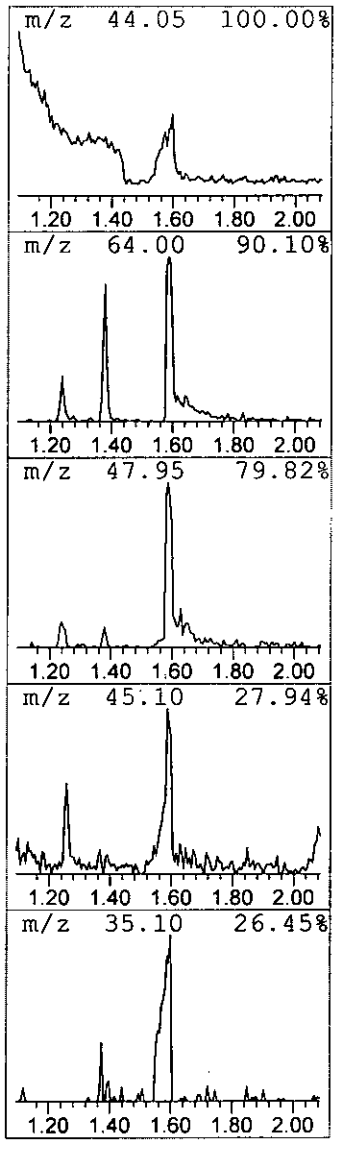
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Peak Number 1 Ethyl Chloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.587	5.79 ug/L	208881	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl Chloride	64	C2H5Cl	000075-00-3	37
2	1,3-Dioxane, 5,5-difluoro-	124	C4H6F2O2	036301-44-7	25
3	Ethanesulfonyl chloride	128	C2H5ClO2S	000594-44-5	9
4	Ethanol, 2-fluoro-	64	C2H5FO	000371-62-0	5
5	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	5





00090

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0905
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1508244-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	100	20	4.4	20	NA	10/8/15 20:35		465971	
1,1,1-Trichloroethane (TCA)	ND	U	100	20	7.2	20	NA	10/8/15 20:35		465971	
1,1,2,2-Tetrachloroethane	ND	U	100	20	5.0	20	NA	10/8/15 20:35		465971	
1,1,2-Trichloroethane	ND	U	100	20	6.9	20	NA	10/8/15 20:35		465971	
1,1-Dichloroethane (1,1-DCA)	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,1-Dichloroethene (1,1-DCE)	ND	U	100	20	12	20	NA	10/8/15 20:35		465971	
1,1-Dichloropropene	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	
1,2,3-Trichlorobenzene	ND	U	100	20	17	20	NA	10/8/15 20:35		465971	
1,2,3-Trichloropropane	ND	U	100	20	14	20	NA	10/8/15 20:35		465971	
1,2,4-Trichlorobenzene	ND	U	100	20	4.7	20	NA	10/8/15 20:35		465971	
1,2,4-Trimethylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	100	20	15	20	NA	10/8/15 20:35		465971	
1,2-Dibromoethane	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
1,2-Dichlorobenzene	ND	U	100	20	4.2	20	NA	10/8/15 20:35		465971	
1,2-Dichloroethane	ND	U	100	20	7.2	20	NA	10/8/15 20:35		465971	
1,2-Dichloropropane	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,3,5-Trimethylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,3-Dichlorobenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
1,3-Dichloropropane	ND	U	100	20	5.4	20	NA	10/8/15 20:35		465971	
1,4-Dichlorobenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
2,2-Dichloropropane	ND	U	100	20	5.4	20	NA	10/8/15 20:35		465971	
2-Butanone (MEK)	ND	U	100	20	17	20	NA	10/8/15 20:35		465971	
2-Chlorotoluene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
2-Hexanone	ND	U	100	100	34	20	NA	10/8/15 20:35		465971	
tert-Butyl Alcohol	ND	U	2000	400	220	20	NA	10/8/15 20:35		465971	
4-Chlorotoluene	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
p-Isopropyltoluene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
4-Methyl-2-pentanone	ND	U	100	20	14	20	NA	10/8/15 20:35		465971	
Acetone	ND	U	100	100	25	20	NA	10/8/15 20:35		465971	
Benzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Bromobenzene	ND	U	100	20	5.7	20	NA	10/8/15 20:35		465971	
Bromochloromethane	ND	U	100	20	6.4	20	NA	10/8/15 20:35		465971	
Bromodichloromethane	ND	U	100	20	6.4	20	NA	10/8/15 20:35		465971	
Bromoform	ND	U	100	20	8.4	20	NA	10/8/15 20:35		465971	
Bromomethane	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	
Carbon Tetrachloride	ND	U	100	20	9.0	20	NA	10/8/15 20:35		465971	
Chlorobenzene	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0905
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1508244-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Chloroethane	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
Chloroform	ND	U	100	20	5.0	20	NA	10/8/15 20:35		465971	
Chloromethane	**4.6**	J	100	20	4.2	20	NA	10/8/15 20:35		465971	
Dibromochloromethane	ND	U	100	20	6.2	20	NA	10/8/15 20:35		465971	
Dichlorodifluoromethane (CFC 12)	ND	U	100	20	9.3	20	NA	10/8/15 20:35		465971	
Methylene Chloride	ND	U	100	20	12	20	NA	10/8/15 20:35		465971	
Ethylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Hexachlorobutadiene	ND	U	100	20	13	20	NA	10/8/15 20:35		465971	
Isopropylbenzene (Cumene)	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Methyl tert-Butyl Ether	ND	U	100	20	5.8	20	NA	10/8/15 20:35		465971	
Naphthalene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Styrene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Tetrachloroethene (PCE)	**3600**	D	250	50	15	50	NA	10/9/15 20:17		466298	
Toluene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Trichloroethene (TCE)	**32**	J	100	20	4.4	20	NA	10/8/15 20:35		465971	
Trichlorofluoromethane (CFC 11)	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
Vinyl Chloride	ND	U	100	20	6.4	20	NA	10/8/15 20:35		465971	
cis-1,2-Dichloroethene	**15**	J	100	20	6.0	20	NA	10/8/15 20:35		465971	
cis-1,3-Dichloropropene	ND	U	100	20	4.8	20	NA	10/8/15 20:35		465971	
m,p-Xylenes	ND	U	200	40	6.7	20	NA	10/8/15 20:35		465971	
n-Butylbenzene	ND	U	100	20	4.2	20	NA	10/8/15 20:35		465971	
n-Propylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
o-Xylene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
sec-Butylbenzene	ND	U	100	20	5.4	20	NA	10/8/15 20:35		465971	
tert-Butylbenzene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	
trans-1,2-Dichloroethene	ND	U	100	20	6.7	20	NA	10/8/15 20:35		465971	
trans-1,3-Dichloropropene	ND	U	100	20	4.0	20	NA	10/8/15 20:35		465971	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	75-120	10/8/15 20:35	
Dibromofluoromethane	90	85-115	10/8/15 20:35	
Toluene-d8	97	85-120	10/8/15 20:35	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/ 8/15 - 10/ 9/15

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1508244-003	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

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page

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2937.D
Acq On : 8 Oct 2015 8:35 pm
Operator : F. Naegler
Sample : R1508244-003|20.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 13 12:50:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	661908	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	961691	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	857134	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	452485	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	278045	44.81	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 89.62%			
46) surr1,1,2-dichloroetha...	6.031	65	393186	44.69	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 89.38%			
64) SURR3,Toluene-d8	8.488	98	1095509	48.44	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.88%			
69) SURR2,BFB	11.018	95	427208	45.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.48%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	1833	0.23	ug/L	79
15) Acetone	2.416	43	2591	0.46	ug/L	87
33) cis-1,2-Dichloroethene	4.623	96	5174m	0.75	ug/L	
53) Trichloroethene	7.031	130	12134	1.59	ug/L #	88
71) Tetrachloroethene	9.146	164	1300242	235.36	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

E Report + Rpt 1/50

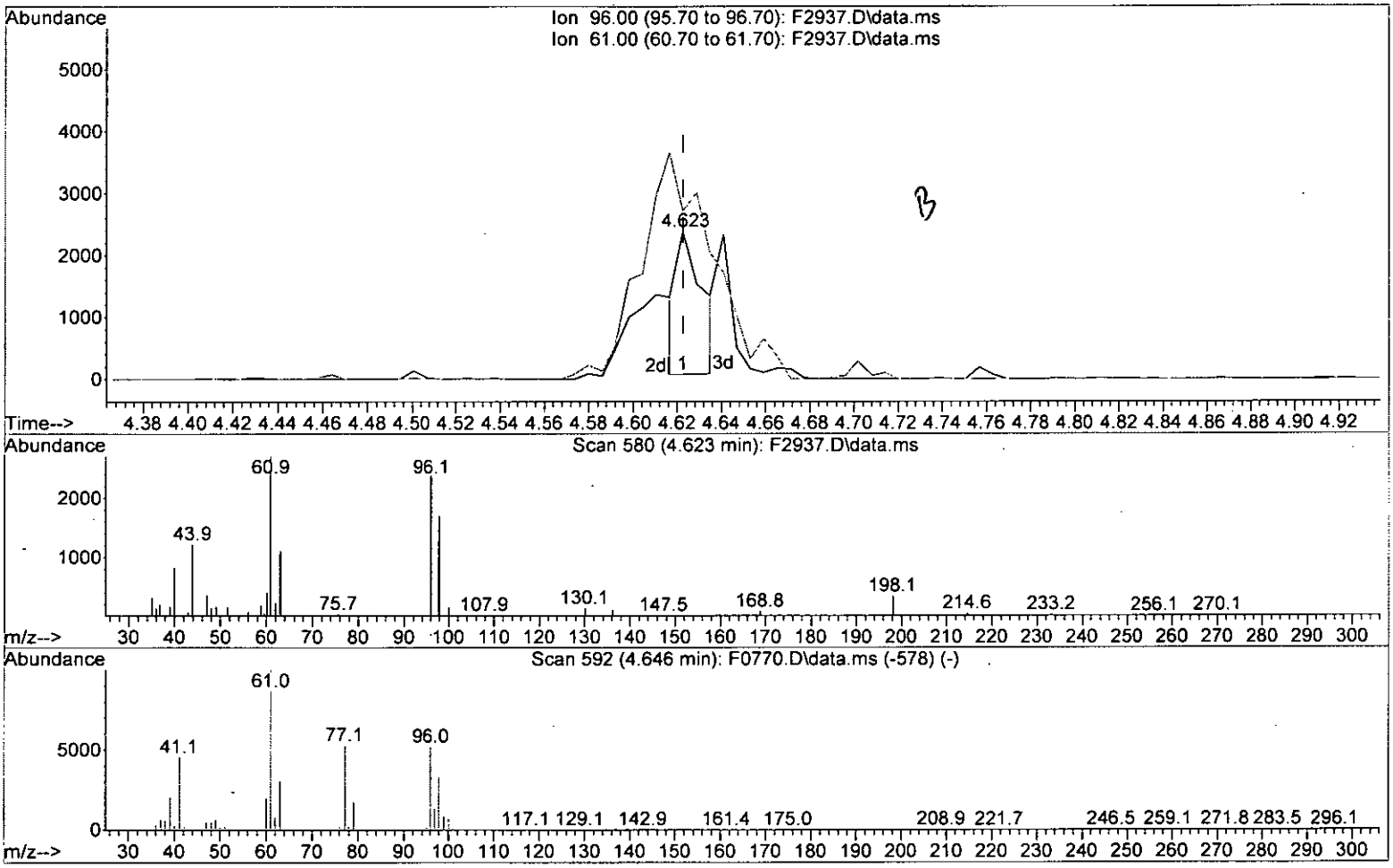
FW 10/13/15

00095

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2937.D
Acq On : 8 Oct 2015 8:35 pm
Operator : F. Naegler
Sample : R1508244-003|20.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 20:49:50 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2937.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.623min (-0.000) 0.27 ug/L

response 1840

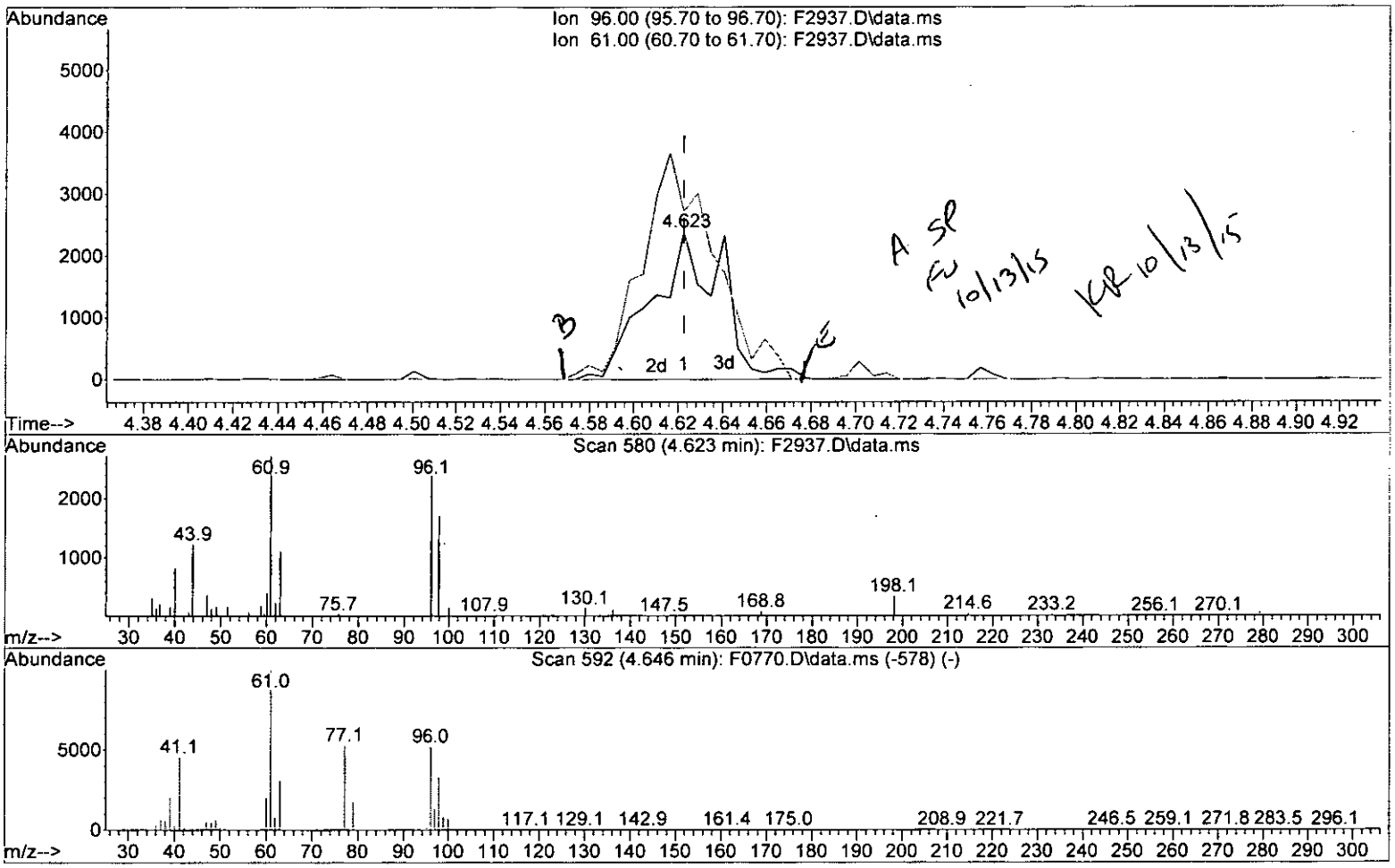
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	113.94#
0.00	0.00	0.00
0.00	0.00	0.00

00096

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2937.D
Acq On : 8 Oct 2015 8:35 pm
Operator : F. Naegler
Sample : R1508244-003|20.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 08 20:49:50 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2937.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.623min (-0.000) 0.75 ug/L m

response 5174

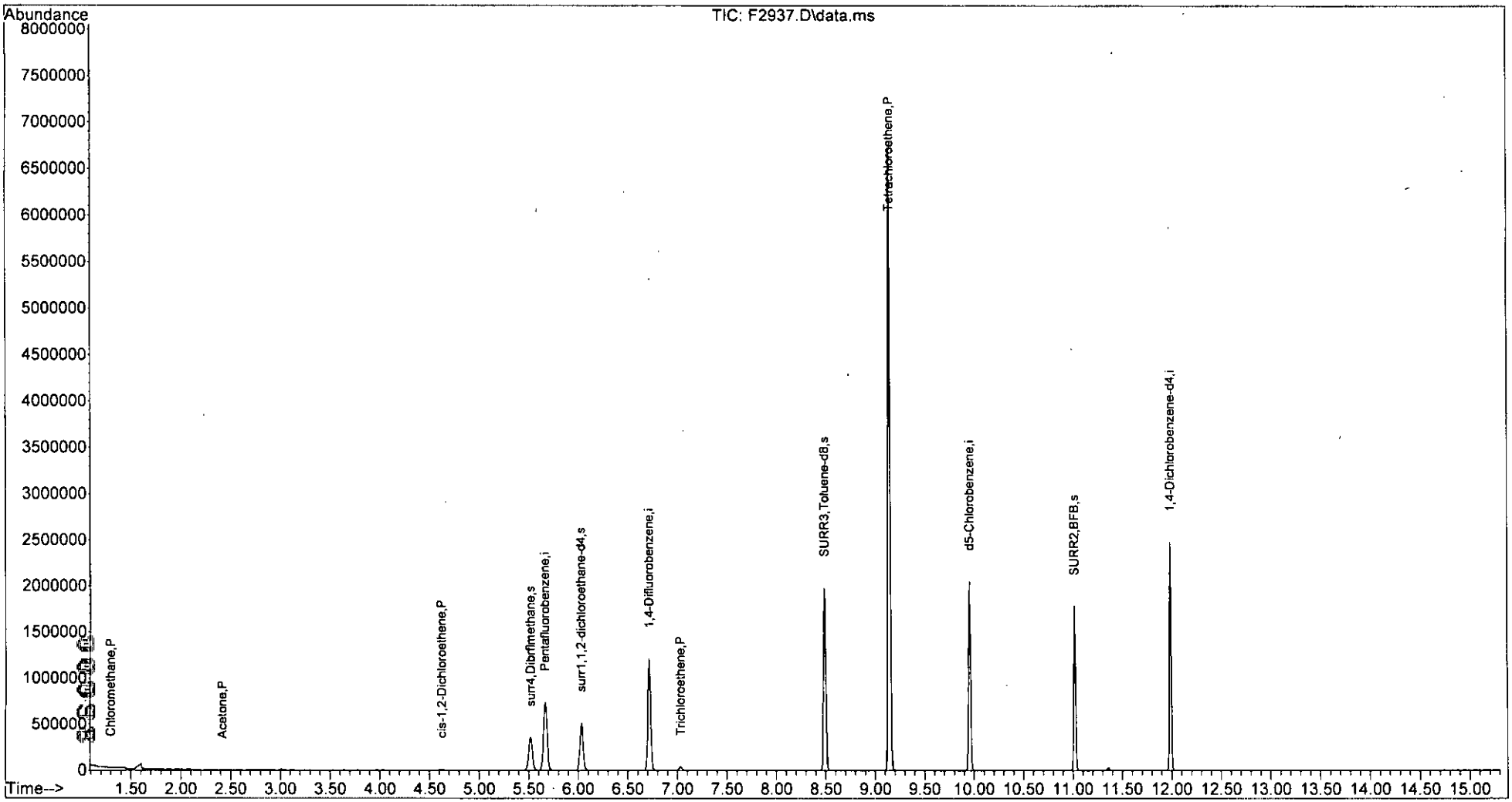
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	113.94#
0.00	0.00	0.00
0.00	0.00	0.00

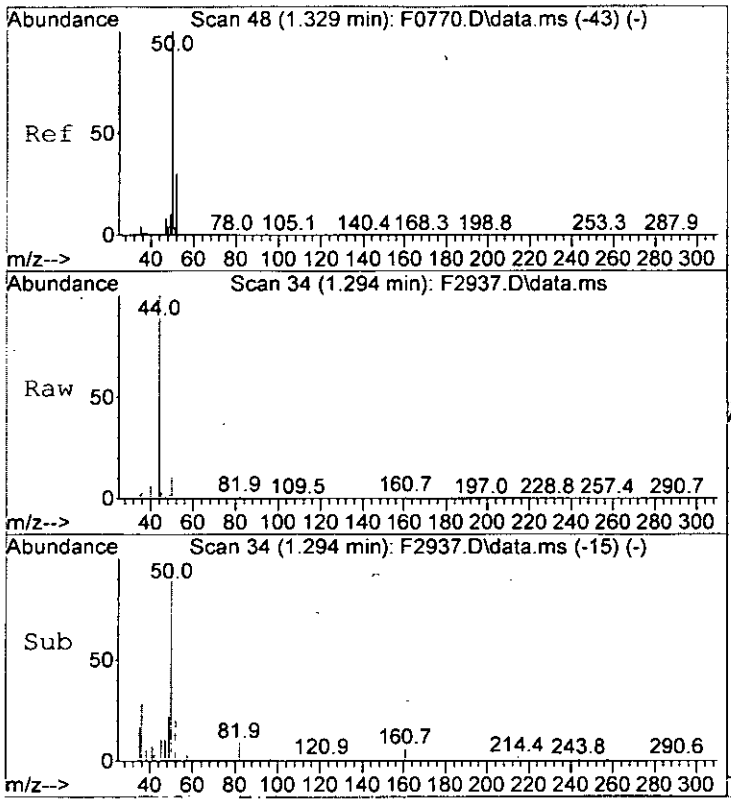
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Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2937.D
Acq On : 8 Oct 2015 8:35 pm
Operator : F. Naegler
Sample : R1508244-003|20.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 13 12:50:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

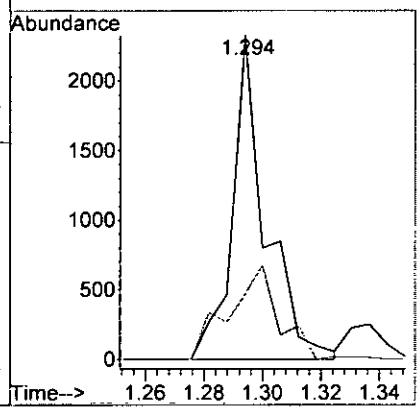


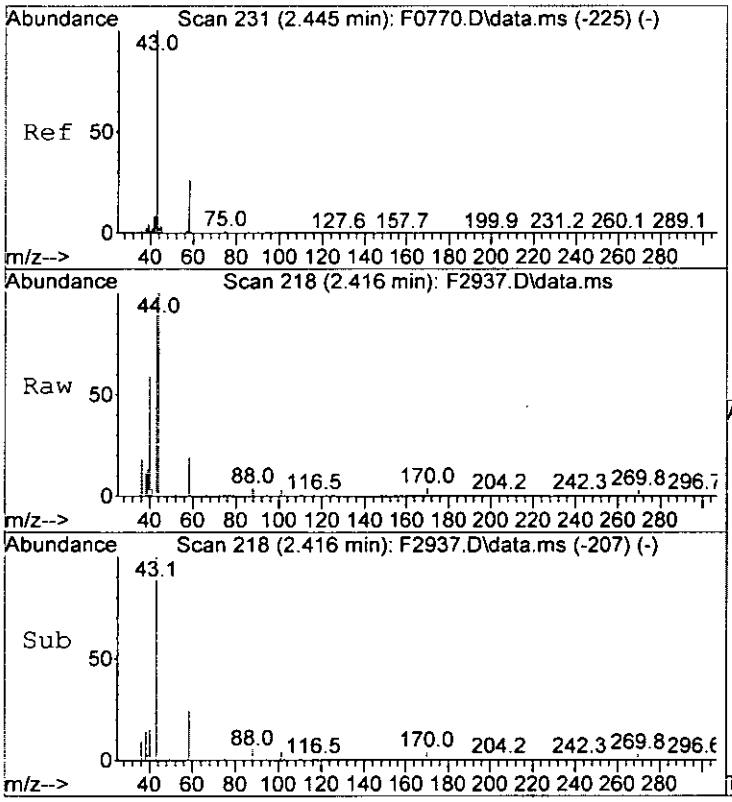


#3
Chloromethane
Concen: 0.23 ug/L
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: F2937.D
Acq: 8 Oct 2015 8:35 pm

Tgt Ion: 50 Resp: 1833

Ion	Ratio	Lower	Upper
50	100		
52	20.2	12.0	52.0

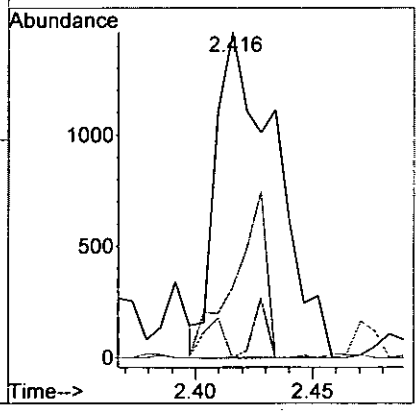


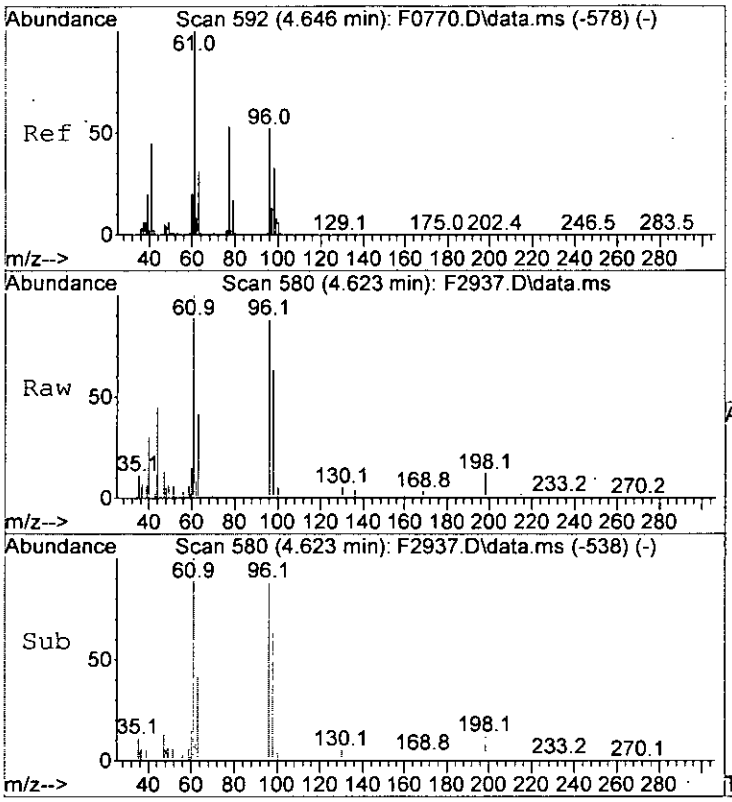


#15
Acetone
Concen: 0.46 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2937.D
Acq: 8 Oct 2015 8:35 pm

Tgt Ion: 43 Resp: 2591

Ion	Ratio	Lower	Upper
43	100		
58	21.4	6.1	46.1
42	0.0	0.0	28.3

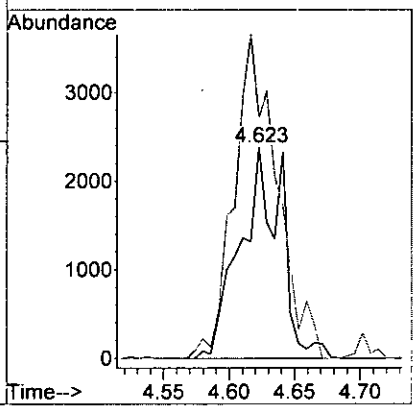


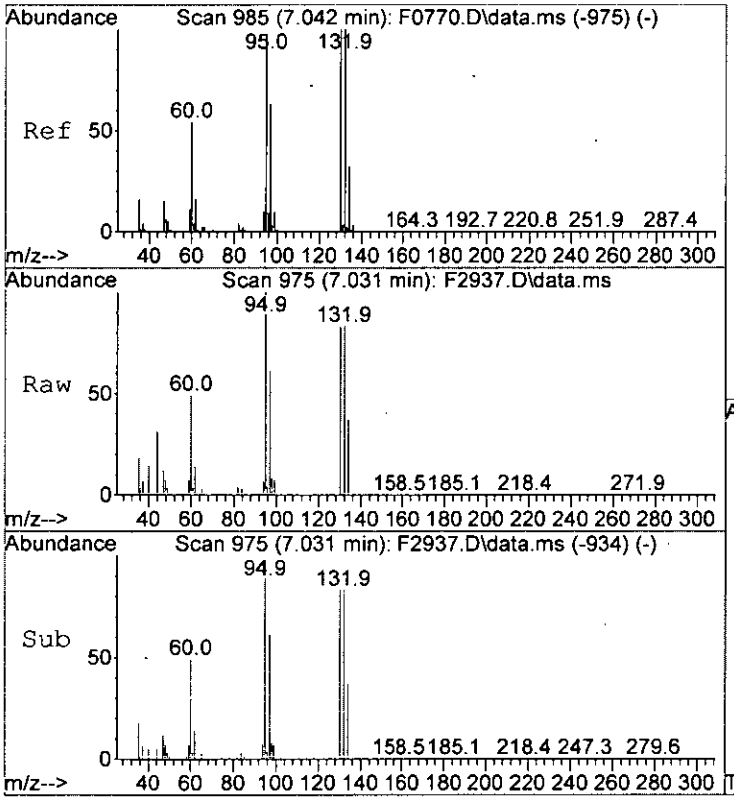


#33
cis-1,2-Dichloroethene
Concen: 0.75 ug/L m
RT: 4.623 min Scan# 580
Delta R.T. -0.000 min
Lab File: F2937.D
Acq: 8 Oct 2015 8:35 pm

Tgt Ion: 96 Resp: 5174

Ion	Ratio	Lower	Upper
96	100		
61	113.9	173.0	213.0#

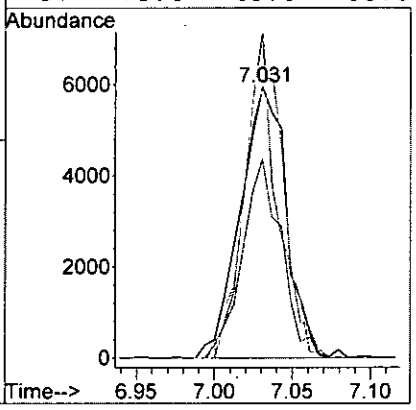


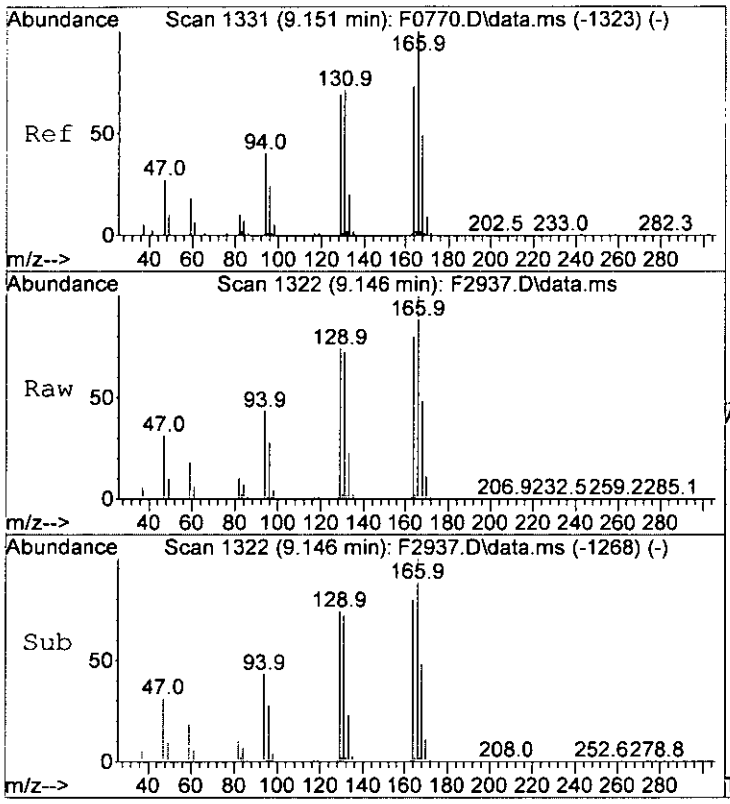


#53
Trichloroethene
Concen: 1.59 ug/L
RT: 7.031 min Scan# 975
Delta R.T. -0.000 min
Lab File: F2937.D
Acq: 8 Oct 2015 8:35 pm

Tgt Ion:130 Resp: 12134

Ion	Ratio	Lower	Upper
130	100		
132	99.6	79.9	119.9
95	120.3	77.5	117.5#
97	73.4	43.0	83.0

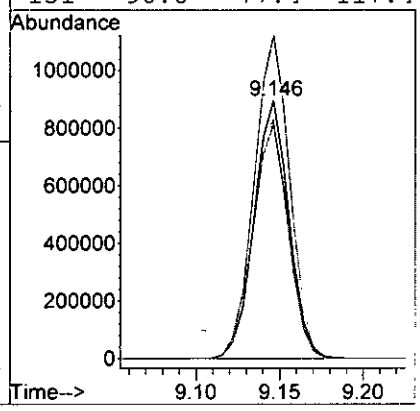




#71
Tetrachloroethene
Concen: 235.36 ug/L
RT: 9.146 min Scan# 1322
Delta R.T. -0.000 min
Lab File: F2937.D
Acq: 8 Oct 2015 8:35 pm

Tgt Ion:164 Resp: 1300242

Ion	Ratio	Lower	Upper
164	100		
166	125.4	117.3	157.3
129	92.6	74.9	114.9
131	90.8	77.4	117.4



00101

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2937.D
Acq On : 8 Oct 2015 8:35 pm
Operator : F. Naegler
Sample : R1508244-003|20.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2937.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	71	84	90	rBV3	61867	161301	1.62%	0.591%
2	5.519	715	727	739	rBV2	353669	918963	9.25%	3.368%
3	5.665	741	751	762	rVV	734915	1827096	18.38%	6.697%
4	6.031	800	811	822	rBV	511694	1131518	11.38%	4.147%
5	6.714	914	923	936	rBV	1205423	2333601	23.48%	8.553%
6	8.488	1207	1214	1228	rVB	1976216	3140621	31.60%	11.511%
7	9.146	1314	1322	1337	rVB	6708163	9939906	100.00%	36.432%
8	9.957	1448	1455	1462	rBV	2048018	2767725	27.84%	10.144%
9	11.018	1624	1629	1641	rVB	1776094	2151781	21.65%	7.887%
10	11.987	1782	1788	1794	rBV	2467336	2910653	29.28%	10.668%

Sum of corrected areas: 27283165

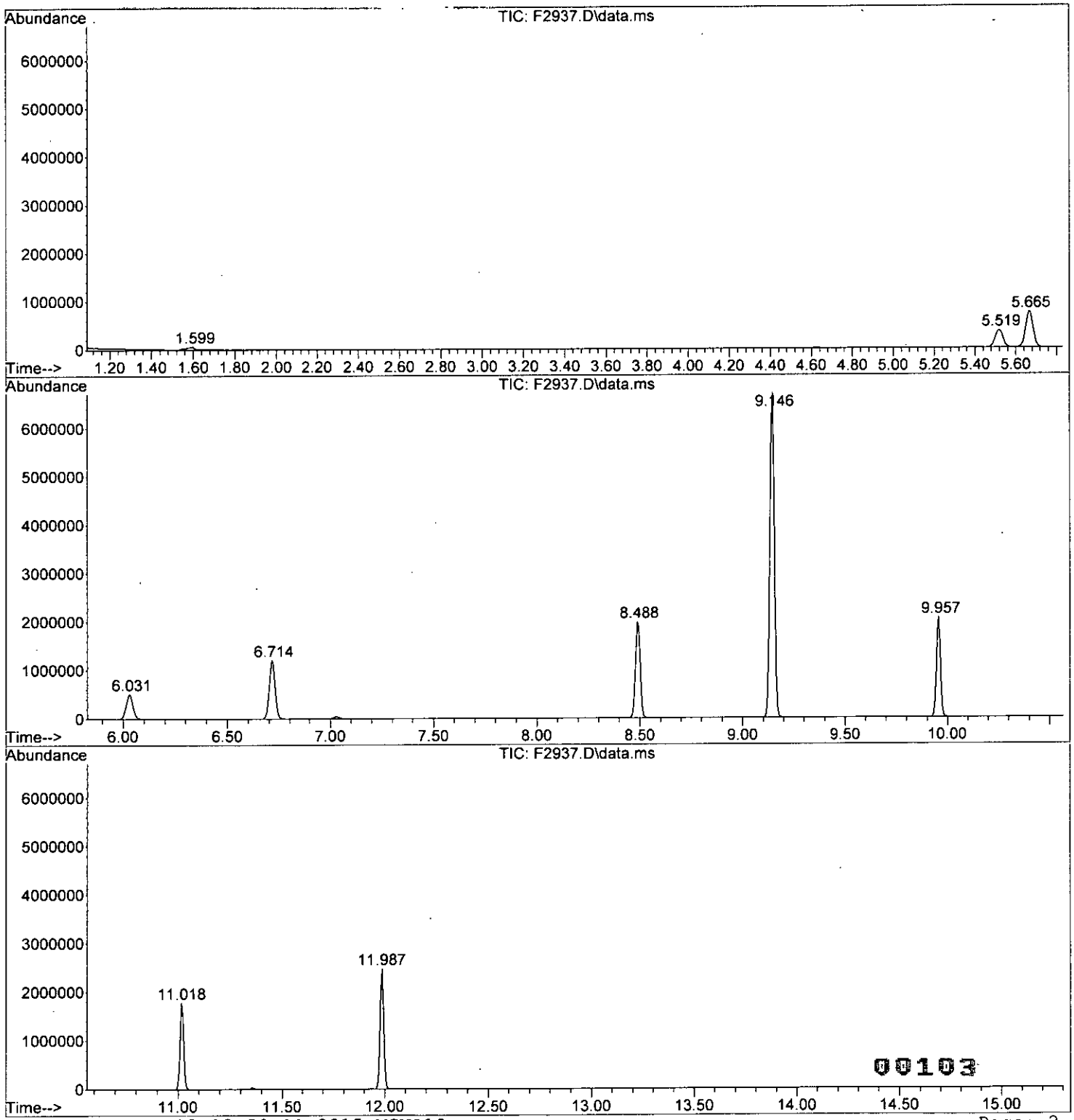
00102

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2937.D
Acq On : 8 Oct 2015 8:35 pm
Operator : F. Naegler
Sample : R1508244-003|20.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100815\\
Data File : F2937.D
Acq On : 8 Oct 2015 8:35 pmm
Operator : F. Naeglerr
Sample : R1508244-003|20.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 23 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

00104

Blank

pages

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2991.D
Acq On : 9 Oct 2015 8:17 pm
Operator : F. Naegler
Sample : R1508244-003|50.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 14 15:43:13 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

DL

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	647876	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	948593	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	844869	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	438379	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	287369	46.95	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.90%			
46) surr1,1,2-dichloroetha...	6.031	65	393897	45.39	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.78%			
64) SURR3,Toluene-d8	8.488	98	1081286	48.47	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.94%			
69) SURR2,BFB	11.018	95	416091	45.17	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.34%			
Target Compounds						Qvalue
3) Chloromethane	1.300	50	1654	0.21	ug/L	79
33) cis-1,2-Dichloroethene	4.635	96	1996m	0.29	ug/L	
53) Trichloroethene	7.031	130	3542	0.47	ug/L #	77
71) Tetrachloroethene	9.146	164	388631	71.37	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

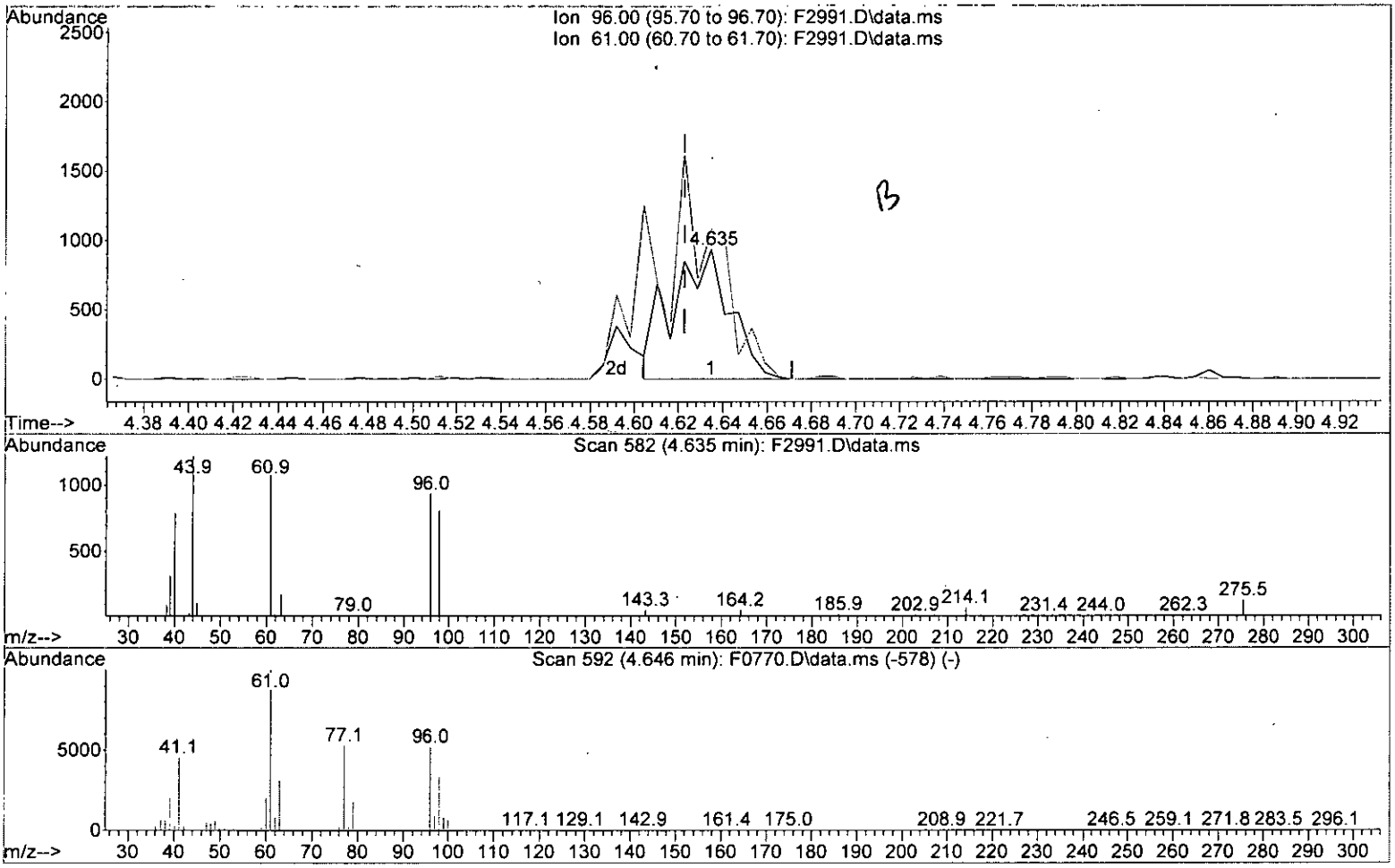
FV
10/14/15

00109

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2991.D
Acq On : 9 Oct 2015 8:17 pm
Operator : F. Naegler
Sample : R1508244-003|50.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 09 20:31:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2991.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.635min (+0.012) 0.25 ug/L

response 1677

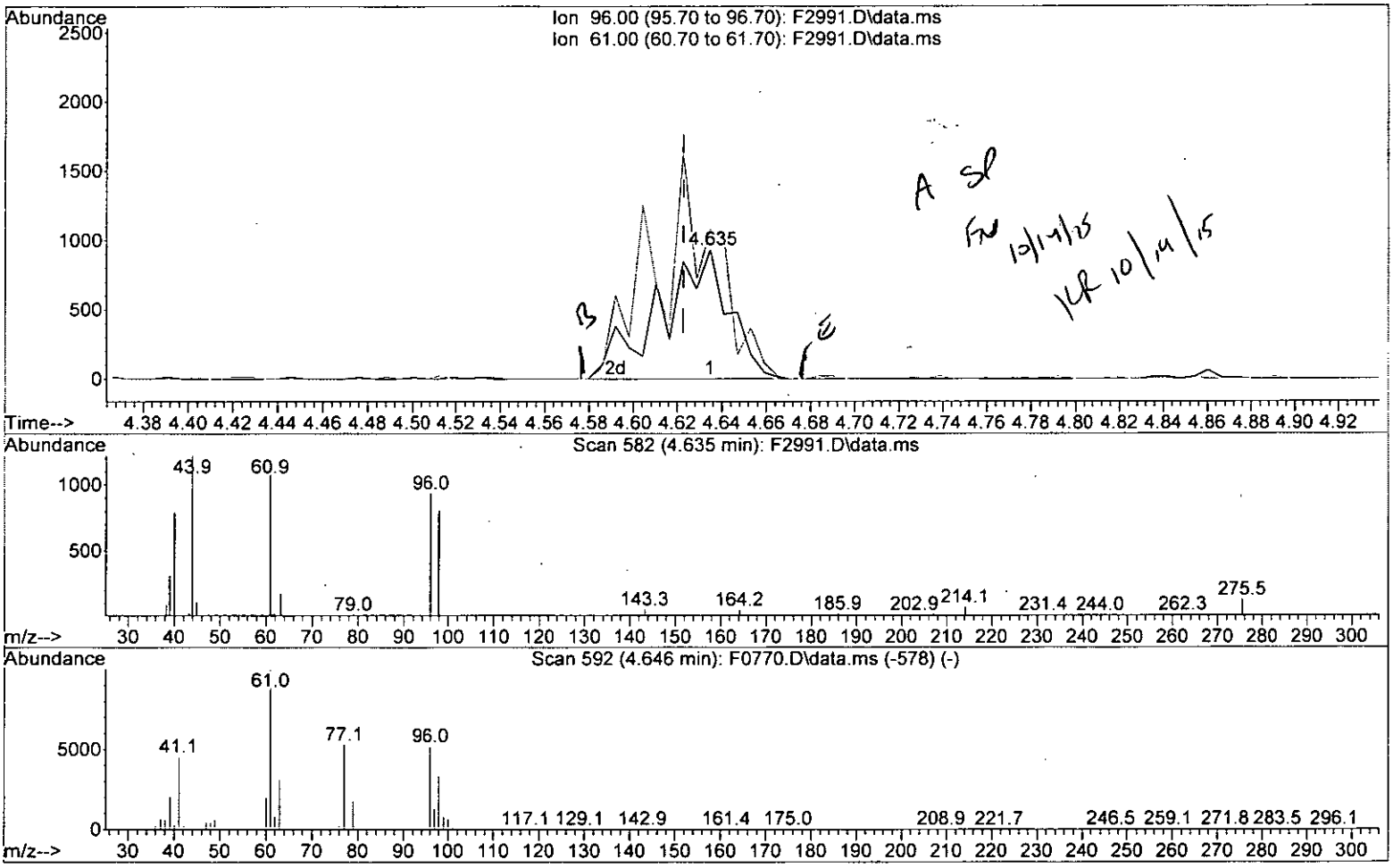
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	115.65#
.0.00	0.00	0.00
0.00	0.00	0.00

00110

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2991.D
Acq On : 9 Oct 2015 8:17 pm
Operator : F. Naegler
Sample : R1508244-003|50.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 09 20:31:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2991.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.635min (+0.012) 0.29 ug/L m

response 1996

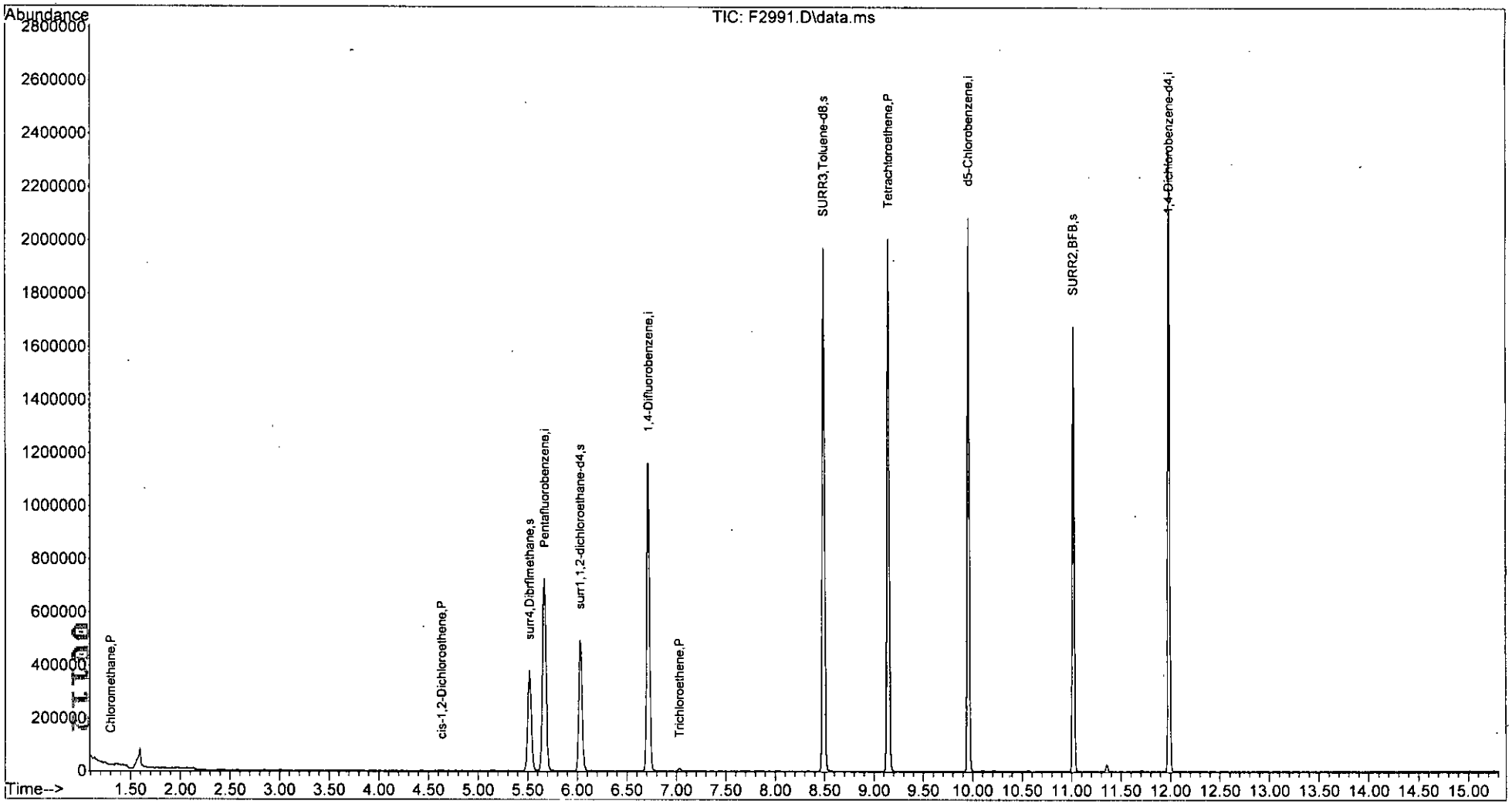
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	115.65#
0.00	0.00	0.00
0.00	0.00	0.00

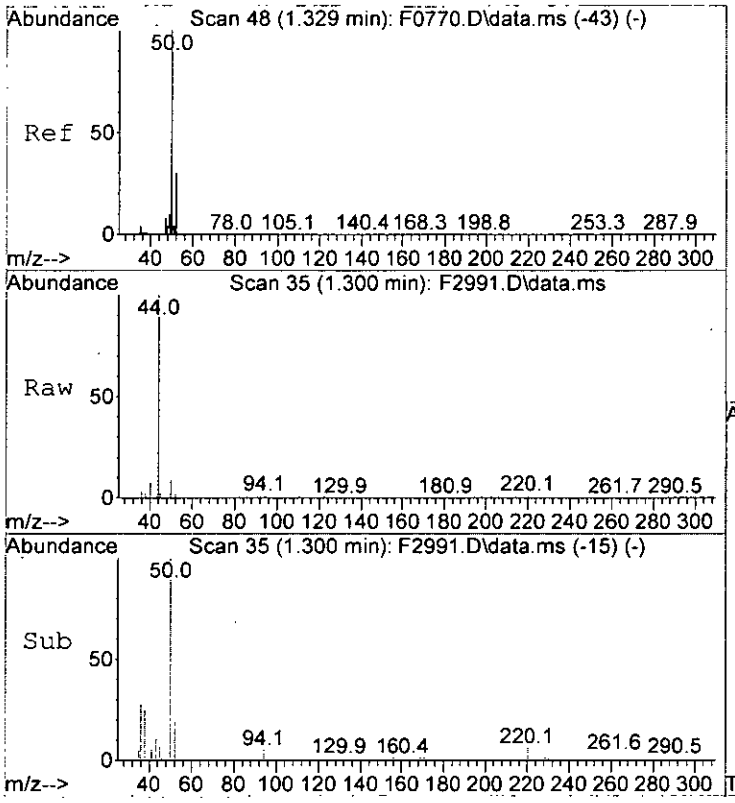
00111

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2991.D
Acq On : 9 Oct 2015 8:17 pm
Operator : F. Naegler
Sample : R1508244-003|50.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 14 15:43:13 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

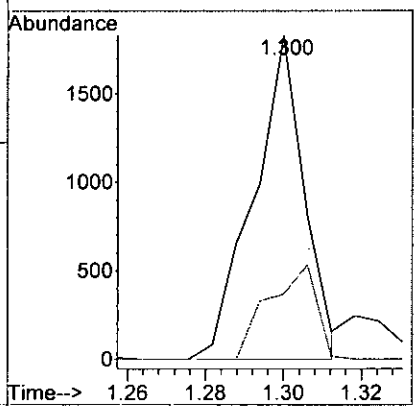


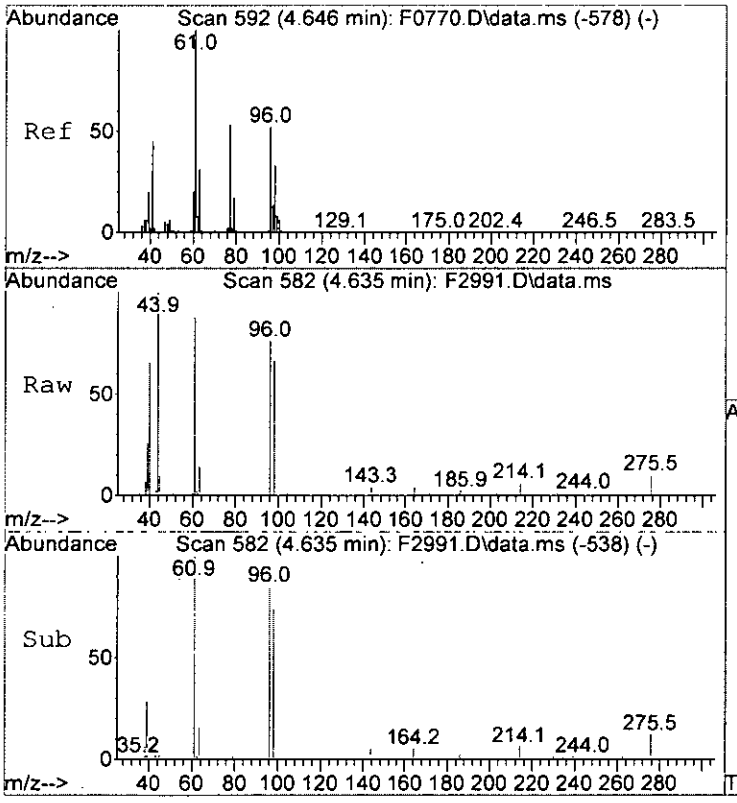


#3
Chloromethane
Concen: 0.21 ug/L
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: F2991.D
Acq: 9 Oct 2015 8:17 pm

Tgt Ion: 50 Resp: 1654

Ion	Ratio	Lower	Upper
50	100		
52	20.1	12.0	52.0

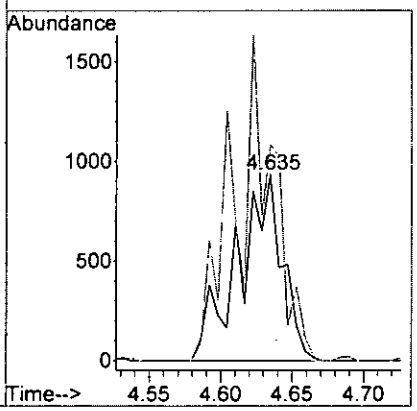




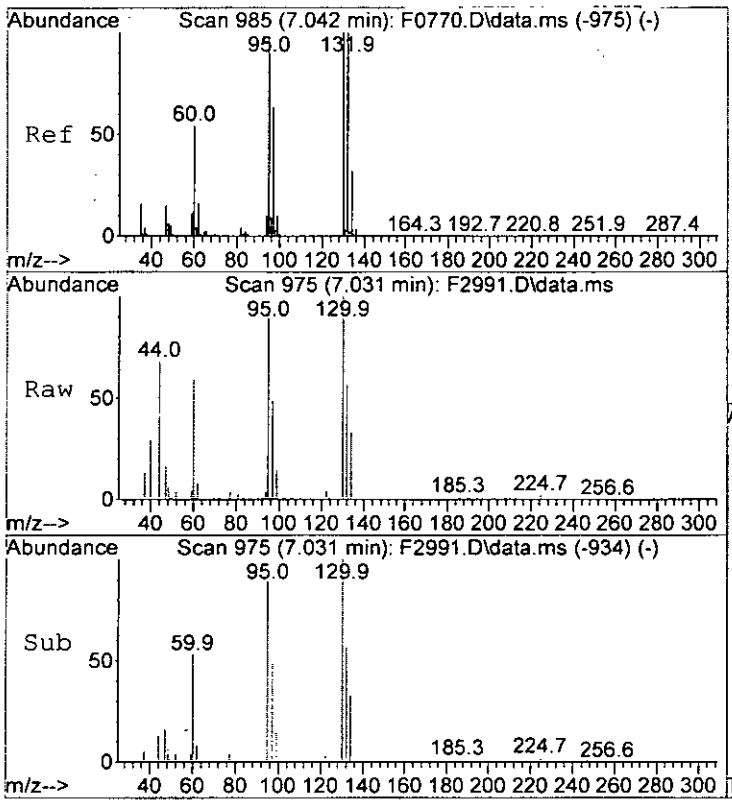
#33
cis-1,2-Dichloroethene
Concen: 0.29 ug/L m
RT: 4.635 min Scan# 582
Delta R.T. 0.012 min
Lab File: F2991.D
Acq: 9 Oct 2015 8:17 pm

Tgt Ion: 96 Resp: 1996

Ion	Ratio	Lower	Upper
96	100		
61	115.6	173.0	213.0#



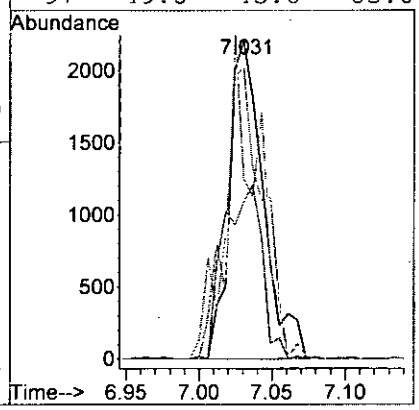
00113

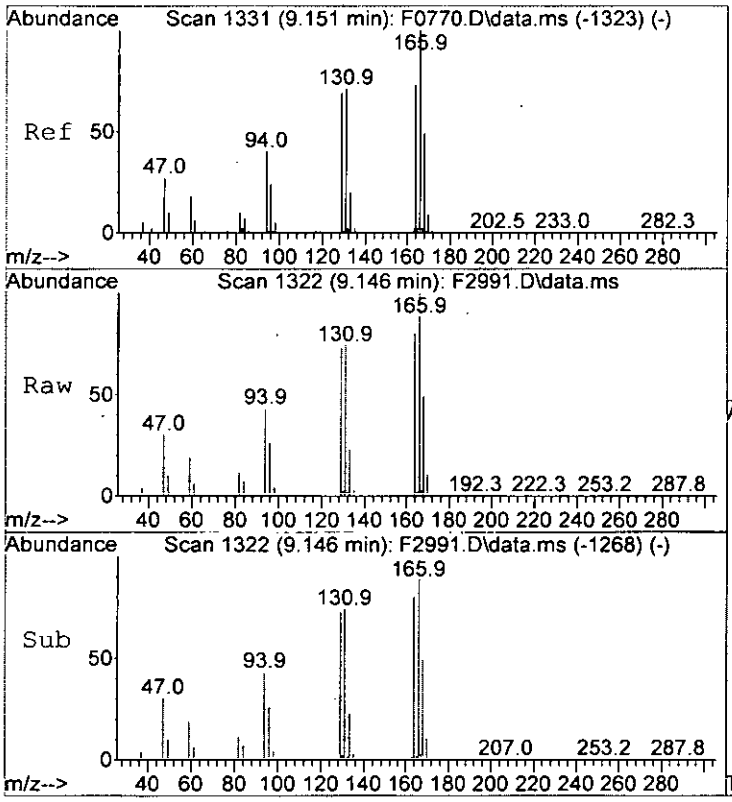


#53
Trichloroethene
Concen: 0.47 ug/L
RT: 7.031 min Scan# 975
Delta R.T. -0.000 min
Lab File: F2991.D
Acq: 9 Oct 2015 8:17 pm

Tgt Ion:130 Resp: 3542

Ion	Ratio	Lower	Upper
130	100		
132	56.7	79.9	119.9#
95	91.4	77.5	117.5
97	49.5	43.0	83.0

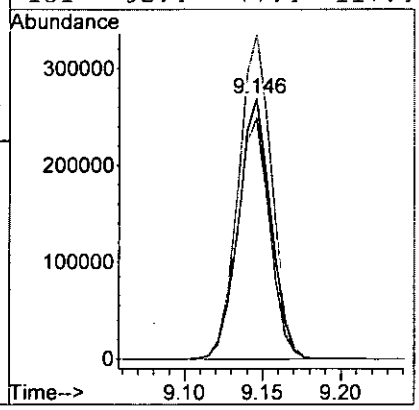




#71
Tetrachloroethene
Concen: 71.37 ug/L
RT: 9.146 min Scan# 1322
Delta R.T. -0.000 min
Lab File: F2991.D
Acq: 9 Oct 2015 8:17 pm

Tgt Ion:164 Resp: 388631

Ion	Ratio	Lower	Upper
164	100		
166	124.8	117.3	157.3
129	91.5	74.9	114.9
131	92.4	77.4	117.4



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2991.D
Acq On : 9 Oct 2015 8:17 pm
Operator : F. Naegler
Sample : R1508244-003|50.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2991.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.593	72	83	86	rBV3	77121	160320	5.11%	0.793%
2	5.519	716	727	738	rBV	378295	944411	30.13%	4.669%
3	5.671	741	752	763	rVV	724897	1803746	57.54%	8.917%
4	6.031	803	811	824	rBV	492363	1126985	35.95%	5.571%
5	6.714	914	923	936	rBV	1163769	2303180	73.47%	11.386%
6	8.488	1207	1214	1224	rBV	1973032	3134816	100.00%	15.497%
7	9.146	1314	1322	1332	rBV	2006367	3000648	95.72%	14.834%
8	9.957	1449	1455	1462	rBV	2087232	2769221	88.34%	13.690%
9	11.018	1623	1629	1635	rBV	1678534	2116330	67.51%	10.462%
10	11.353	1681	1684	1690	rVB2	26240	33774	1.08%	0.167%
11	11.987	1782	1788	1793	rBV	2337959	2834996	90.44%	14.015%

Sum of corrected areas: 20228427

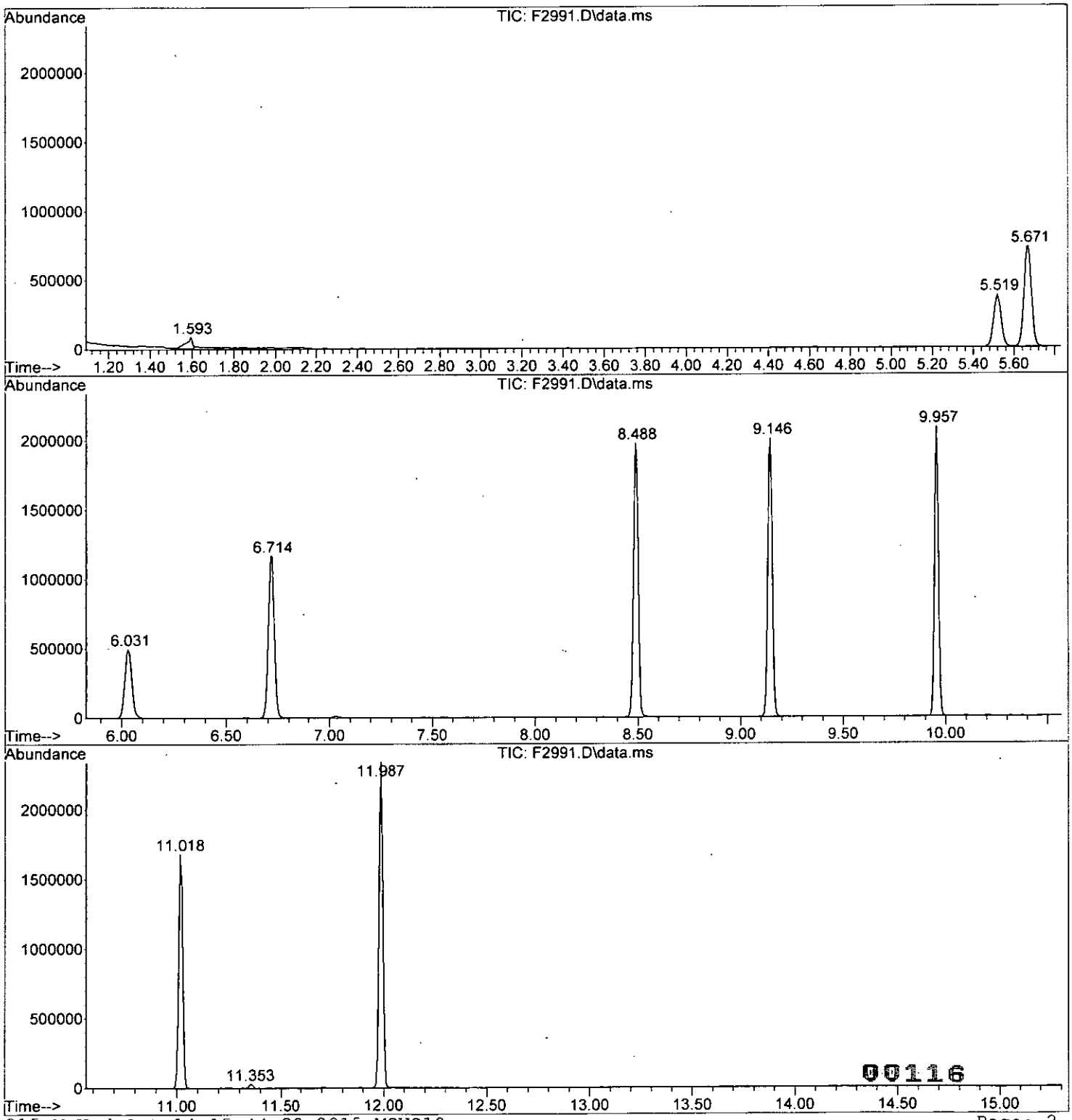
00115

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2991.D
Acq On : 9 Oct 2015 8:17 pm
Operator : F. Naegler
Sample : R1508244-003|50.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00116

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\\
Data File : F2991.D
Acq On : 9 Oct 2015 8:17 pmm
Operator : F. Naeglerr
Sample : R1508244-003|50.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 20 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00117

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0915
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:37
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1508244-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**6.4**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**0.23**	J	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**4.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	**0.87**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00118

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0915
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:37
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1508244-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**9.1**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**1.6**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**2.1**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.46**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**1.2**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**2.2**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**3.0**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00119

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0915
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:37
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	Percent
Lab Code:	R1508244-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2977.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 14:37	
Dibromofluoromethane	95	85-115	10/9/15 14:37	
Toluene-d8	100	85-120	10/9/15 14:37	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1437

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1508244-004	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.26	**7.6**	JN
000078-78-4	Butane, 2-methyl-	1.76	**8.5**	JN
000496-11-7	Indane	12.21	**9.1**	JN

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 14:23:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	634976	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	912428	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	832311	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	431059	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	279648	47.50	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.00%				
46) surr1,1,2-dichloroetha...	6.031	65	377544	45.23	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.46%				
64) SURR3,Toluene-d8	8.494	98	1072228	49.97	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.94%				
69) SURR2,BFB	11.018	95	400410	45.19	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.38%				
Target Compounds							Qvalue
5) Bromomethane	1.611	94	295	Below Cal		#	35
15) Acetone	2.416	43	24871	4.58	ug/L		91
47) Benzene	6.104	78	21183	0.87	ug/L		88
65) Toluene	8.561	91	11673	0.46	ug/L		95
81) Ethylbenzene	10.103	106	84101	9.14	ug/L	#	86
82) (m+p)Xylene	10.213	106	12788	1.18	ug/L	#	79
83) o-Xylene	10.567	106	33559	2.98	ug/L		88
87) Isopropylbenzene	10.896	105	42952	1.55	ug/L		93
94) n-Propylbenzene	11.249	91	68582	2.21	ug/L		99
98) 1,3,5-Trimethylbenzene	11.396	105	5062	0.23	ug/L		87
100) 1,2,4-Trimethylbenzene	11.707	105	143949	6.41	ug/L		93
116) Naphthalen	13.773	128	62179	2.05	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

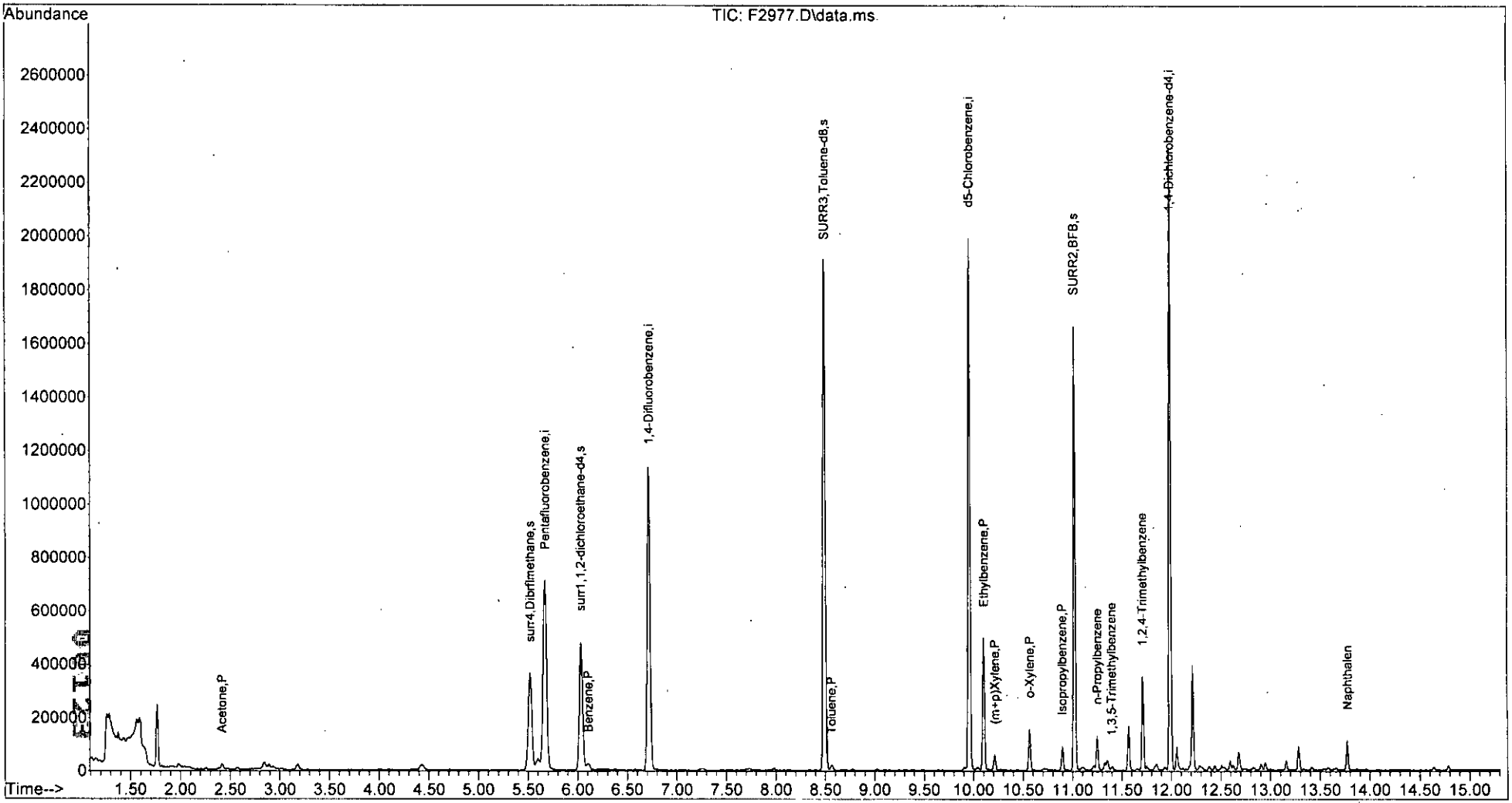
FV 10/14/15

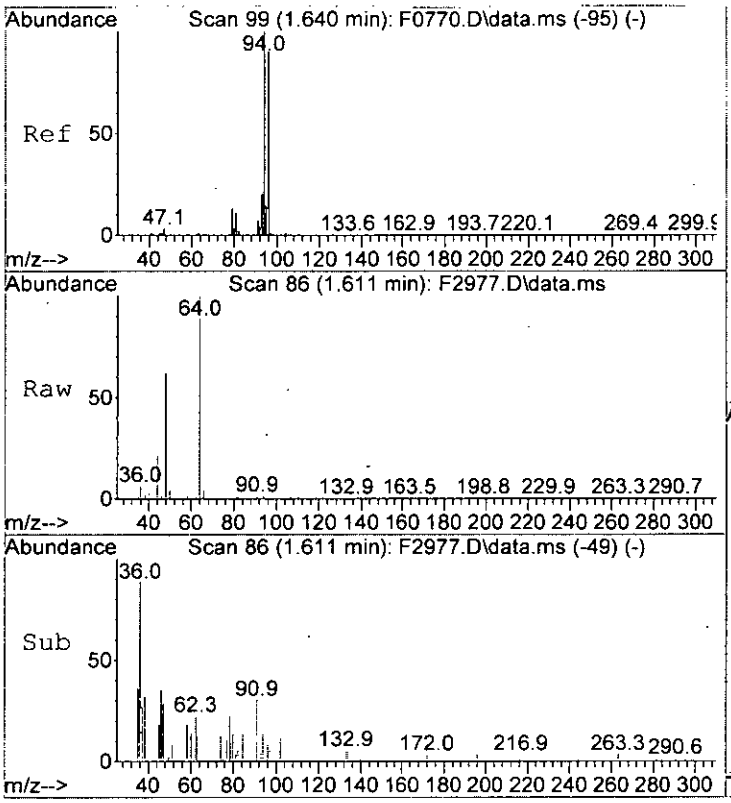
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Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 14:23:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

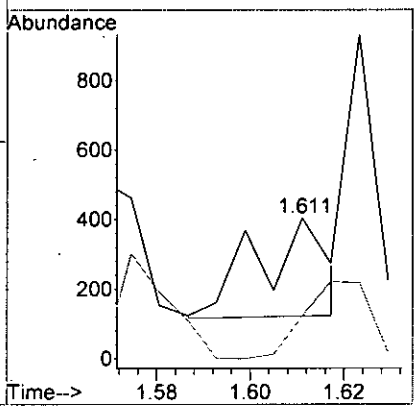


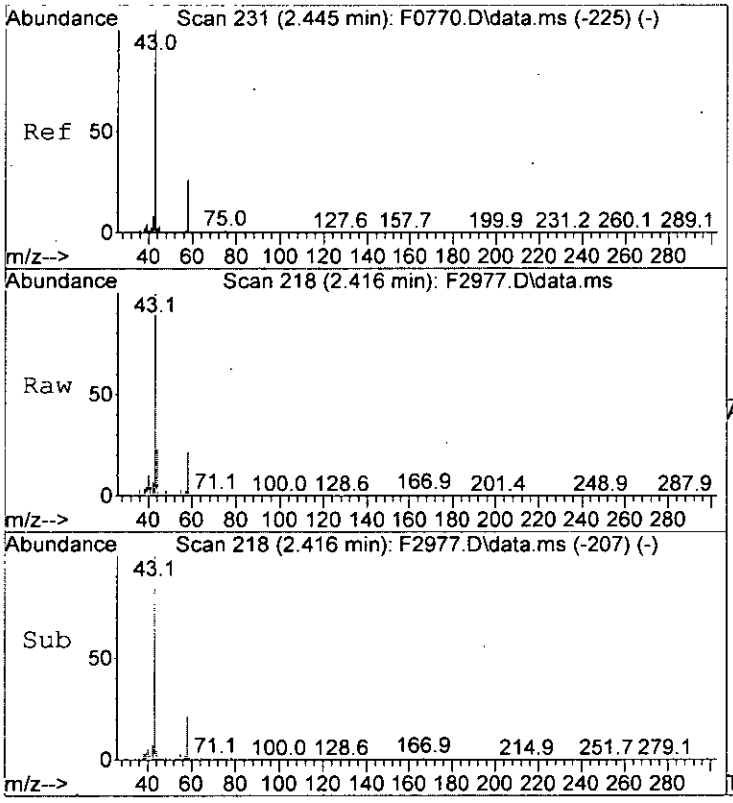


#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. 0.000 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion: 94 Resp: 295

Ion	Ratio	Lower	Upper
94	100		
96	30.2	73.0	113.0#

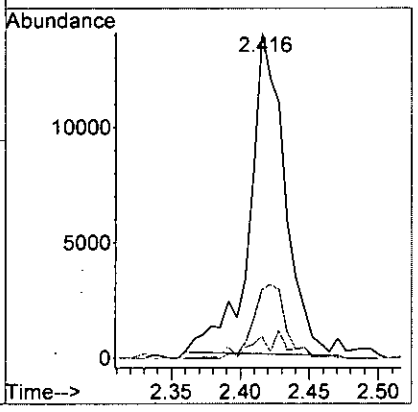




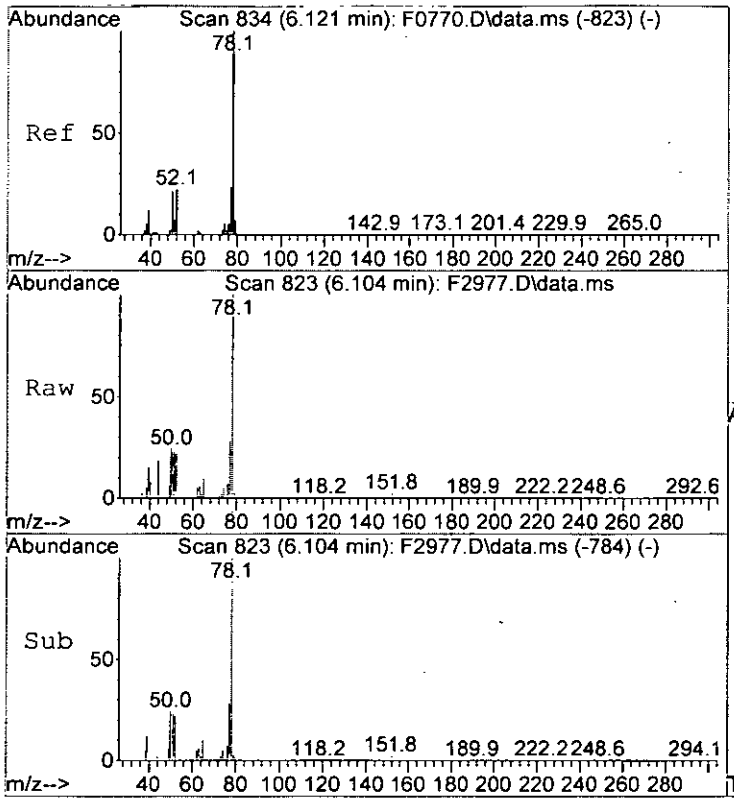
#15
Acetone
Concen: 4.58 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion: 43 Resp: 24871

Ion	Ratio	Lower	Upper
43	100		
58	21.0	6.1	46.1
42	6.6	0.0	28.3



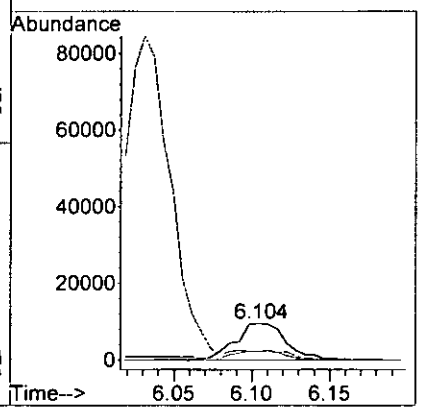
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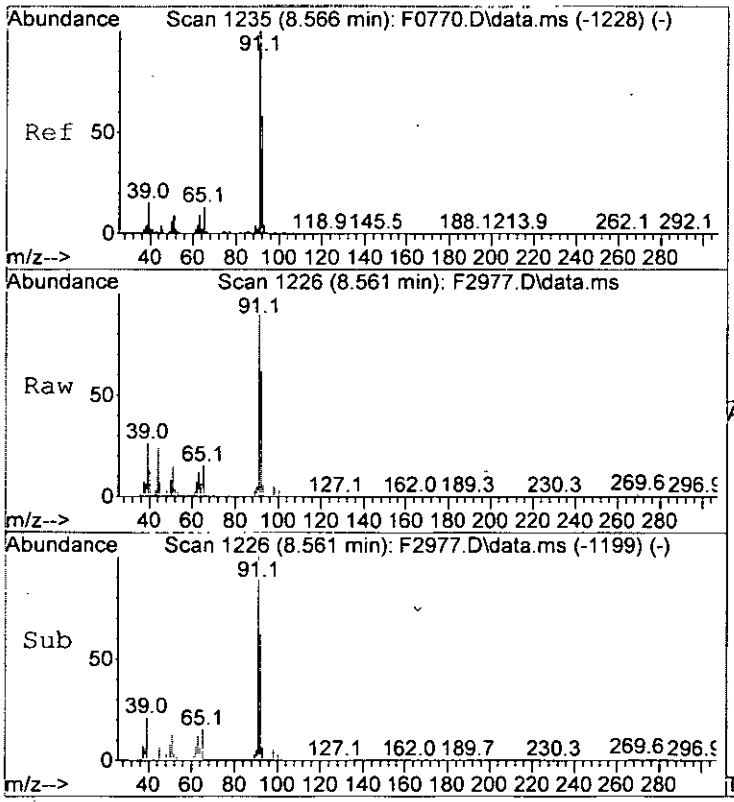


#47
Benzene
Concen: 0.87 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.006 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion: 78 Resp: 21183

Ion	Ratio	Lower	Upper
78	100		
51	23.4	0.0	27.4
52	22.0	2.5	42.5

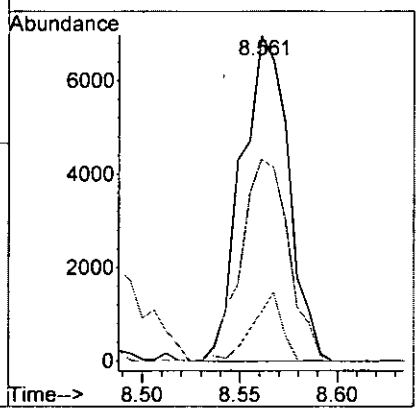


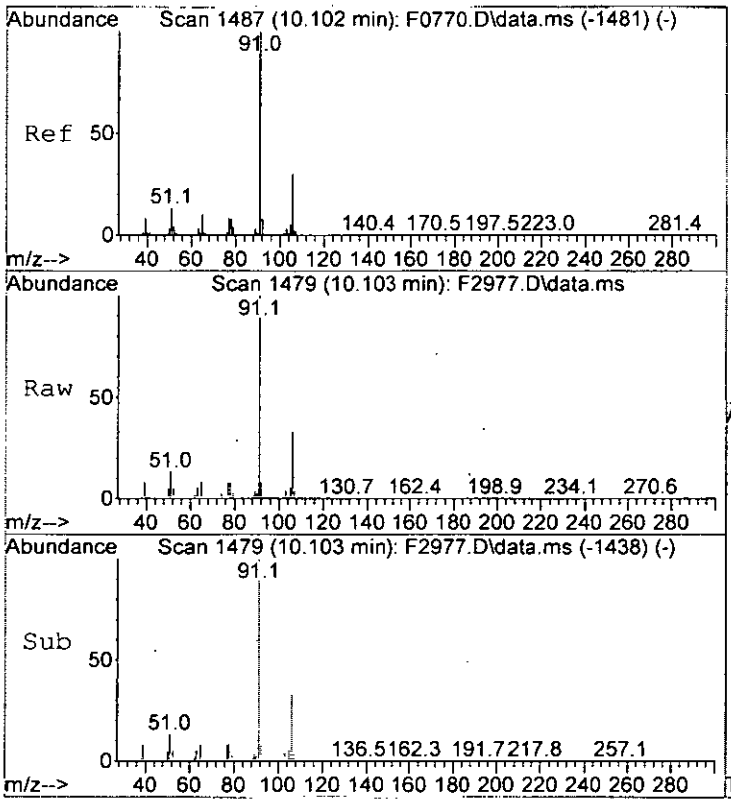


#65
Toluene
Concen: 0.46 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion: 91 Resp: 11673

Ion	Ratio	Lower	Upper
91	100		
92	62.0	38.0	78.0
65	14.9	0.0	33.0

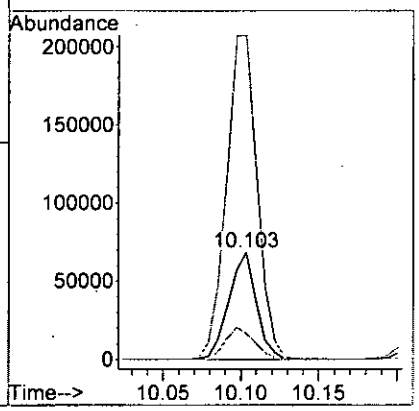


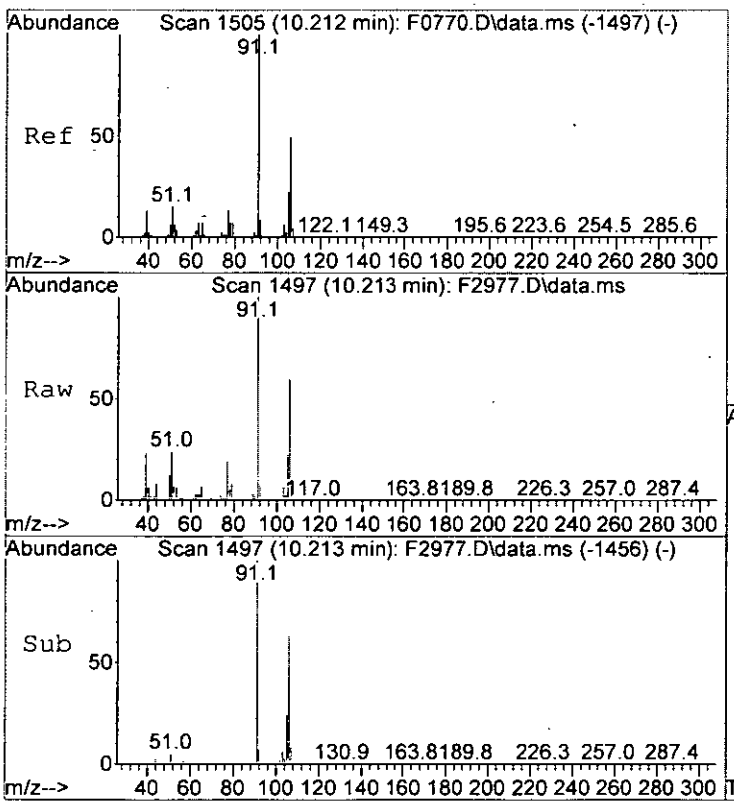


#81
Ethylbenzene
Concen: 9.14 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion:106 Resp: 84101

Ion	Ratio	Lower	Upper
106	100		
91	303.0	311.8	351.8#
65	24.5	12.0	52.0

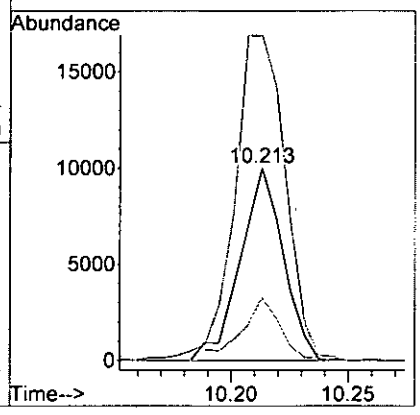




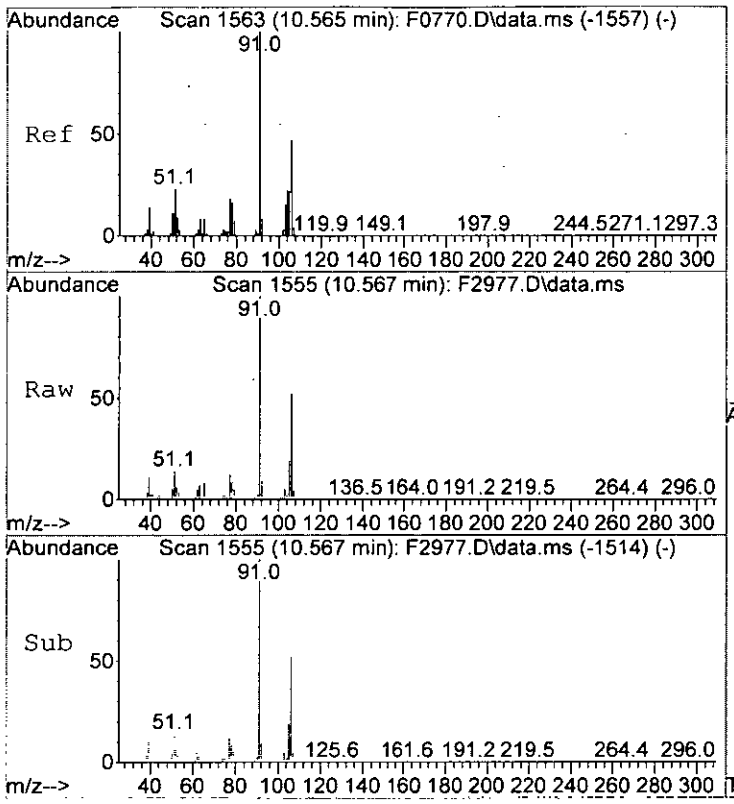
#82
(m+p)Xylene
Concen: 1.18 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. -0.000 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion:106 Resp: 12788

Ion	Ratio	Lower	Upper
106	100		
91	168.9	183.1	223.1#
77	32.3	6.9	46.9



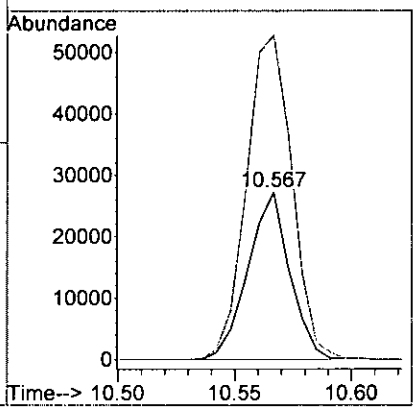
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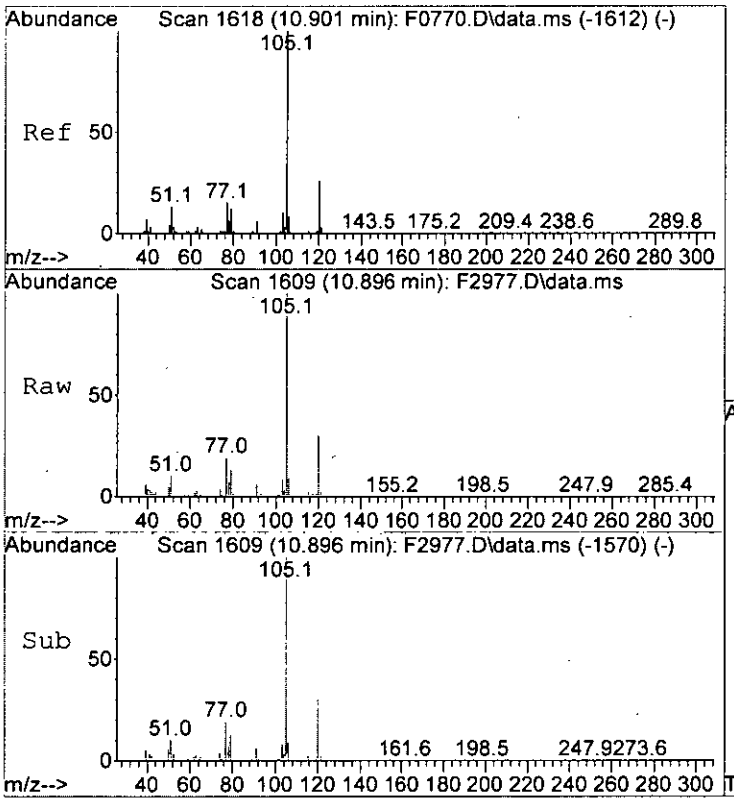


#83
o-Xylene
Concen: 2.98 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion:106 Resp: 33559

Ion	Ratio	Lower	Upper
106	100		
91	193.5	192.0	232.0

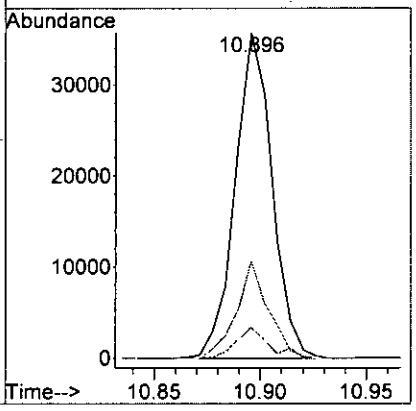




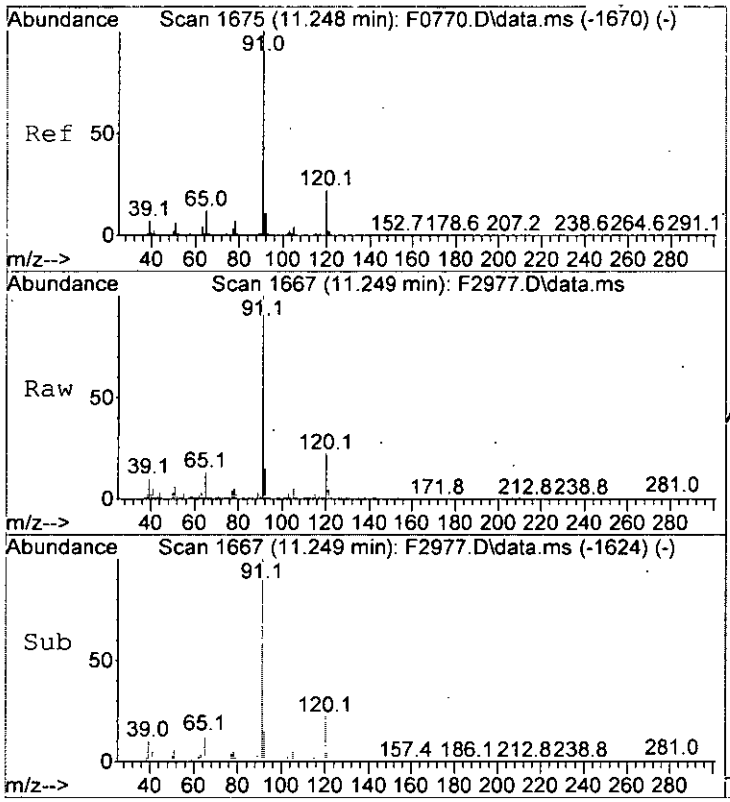
#87
Isopropylbenzene
Concen: 1.55 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion:105 Resp: 42952

Ion	Ratio	Lower	Upper
105	100		
120	29.8	5.8	45.8
106	9.4	0.0	28.3



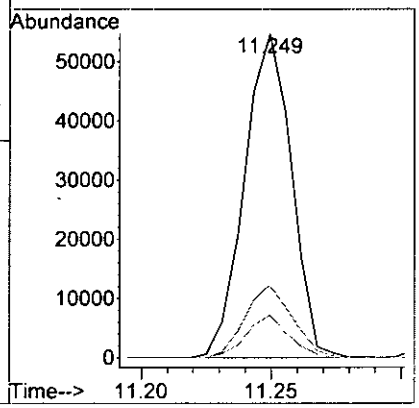
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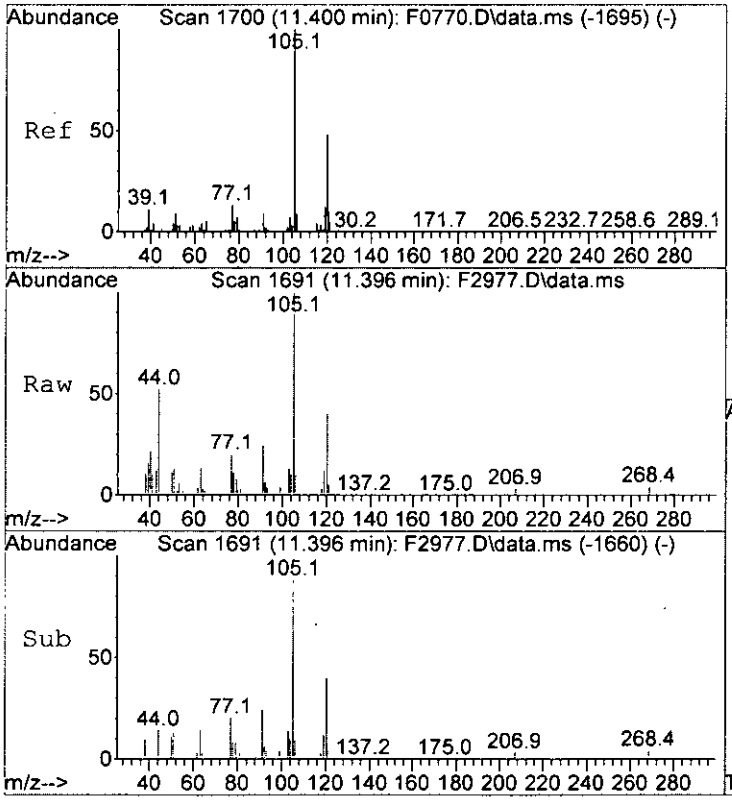


#94
n-Propylbenzene
Concen: 2.21 ug/L
RT: 11.249 min Scan# 1667
Delta R.T. -0.000 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion: 91 Resp: 68582

Ion	Ratio	Lower	Upper
91	100		
120	22.3	2.1	42.1
65	13.0	0.0	31.7

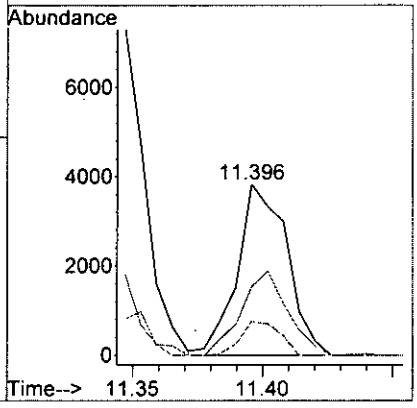




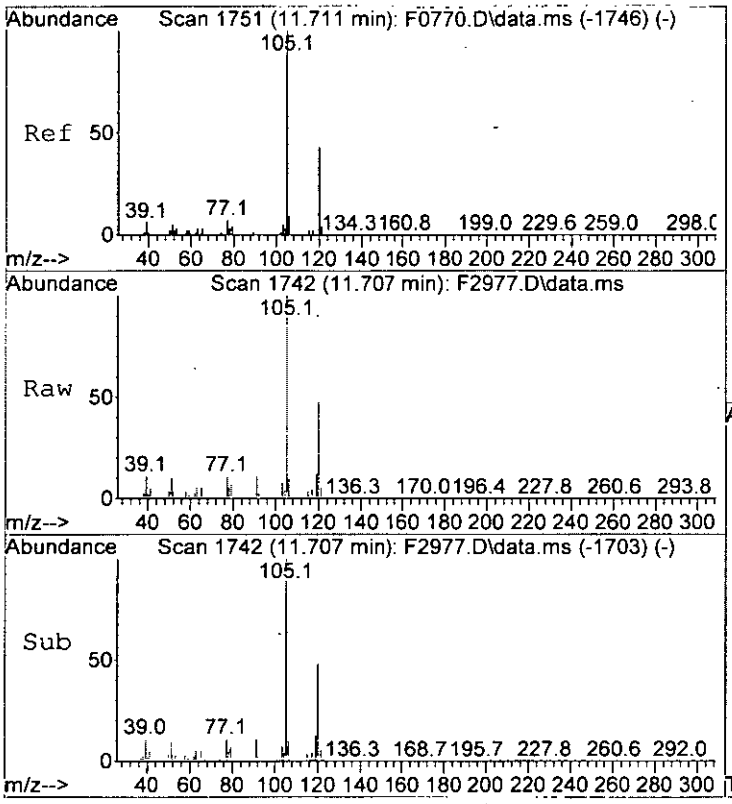
#98
1,3,5-Trimethylbenzene
Concen: 0.23 ug/L
RT: 11.396 min Scan# 1691
Delta R.T. -0.006 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion:105 Resp: 5062

Ion	Ratio	Lower	Upper
105	100		
120	40.0	27.9	67.9
77	19.6	0.0	32.8



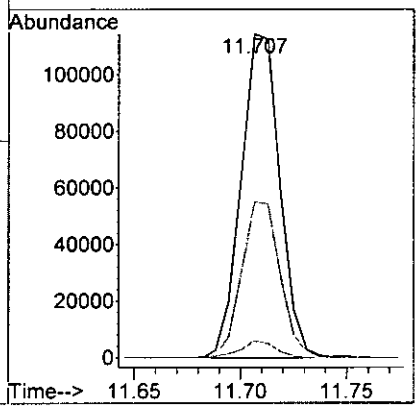
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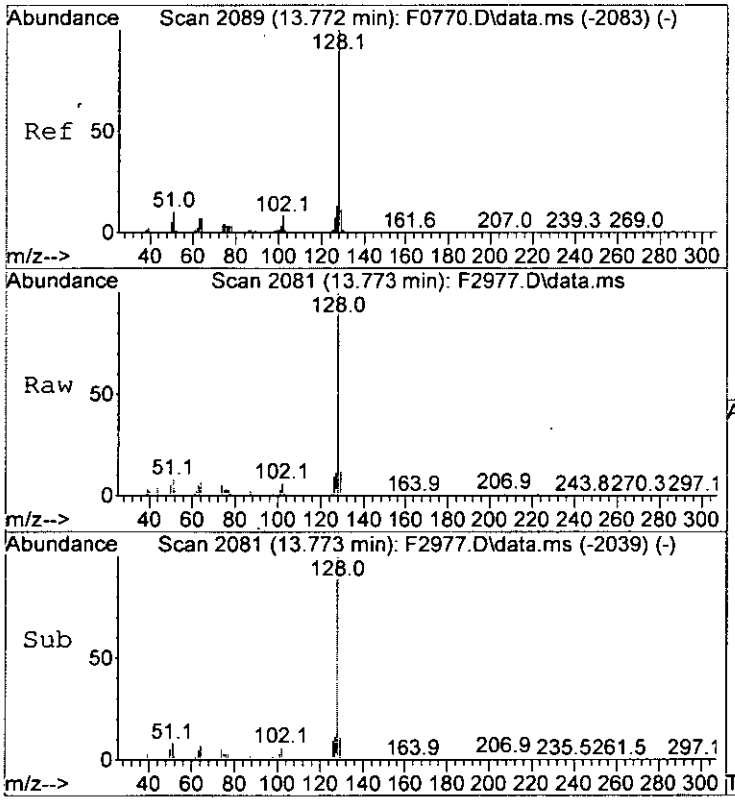


#100
1,2,4-Trimethylbenzene
Concen: 6.41 ug/L
RT: 11.707 min Scan# 1742
Delta R.T. -0.006 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion:105 Resp: 143949

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.4	63.4
65	5.2	0.0	22.7

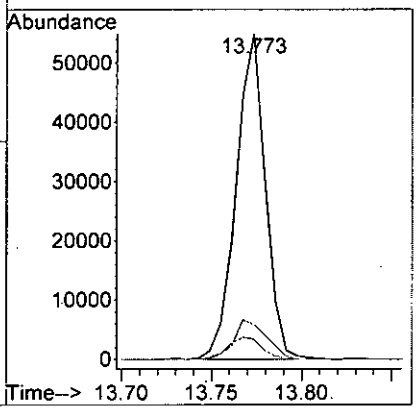




#116
Naphthalen
Concen: 2.05 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. -0.000 min
Lab File: F2977.D
Acq: 9 Oct 2015 2:37 pm

Tgt Ion:128 Resp: 62179

Ion	Ratio	Lower	Upper
128	100		
127	10.7	0.0	32.8
102	6.2	0.0	28.1



00129

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2977.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.258	24	28	30	rBV	174033	268942	8.81%	1.298%
2	1.556	75	77	79	rBV2	36569	41903	1.37%	0.202%
3	1.764	106	111	116	rVB	234016	302171	9.90%	1.458%
4	2.843	280	288	292	rBV5	24130	52935	1.73%	0.255%
5	3.184	335	344	349	rBV3	22131	44888	1.47%	0.217%
6	4.428	539	548	549	rBV3	22904	39345	1.29%	0.190%
7	5.519	715	727	735	rBV	364208	933412	30.59%	4.505%
8	5.598	735	740	743	rVV4	40757	90706	2.97%	0.438%
9	5.671	743	752	762	rVB	706601	1770547	58.02%	8.545%
10	6.031	800	811	819	rBV	479260	1091746	35.77%	5.269%
11	6.104	819	823	830	rVB4	24758	56649	1.86%	0.273%
12	6.714	914	923	936	rBV	1137081	2260223	74.06%	10.908%
13	8.488	1207	1214	1222	rBV	1912264	3051745	100.00%	14.727%
14	8.561	1222	1226	1232	rVB2	21197	36239	1.19%	0.175%
15	9.957	1449	1455	1464	rVB	1987150	2692027	88.21%	12.992%
16	10.103	1473	1479	1485	rBV	495766	675390	22.13%	3.259%
17	10.213	1492	1497	1502	rBV	57073	80877	2.65%	0.390%
18	10.567	1549	1555	1560	rVB	155027	210001	6.88%	1.013%
19	10.896	1604	1609	1614	rBV	90142	112201	3.68%	0.541%
20	11.018	1624	1629	1635	rBV	1660287	2052892	67.27%	9.907%
21	11.249	1663	1667	1673	rVB	130794	164548	5.39%	0.794%
22	11.323	1673	1679	1681	rBV	29002	38592	1.26%	0.186%
23	11.353	1681	1684	1689	rVB4	33414	47448	1.55%	0.229%
24	11.566	1714	1719	1725	rBV	165938	209370	6.86%	1.010%
25	11.707	1738	1742	1747	rBV	348662	424636	13.91%	2.049%
26	11.847	1759	1765	1772	rVB8	23577	46632	1.53%	0.225%
27	11.987	1783	1788	1795	rVB	2321700	2779588	91.08%	13.414%
28	12.054	1795	1799	1805	rBV	85085	112268	3.68%	0.542%
29	12.213	1816	1825	1832	rBV	392740	506960	16.61%	2.447%
30	12.286	1833	1837	1848	rVB8	17601	38896	1.27%	0.188%
31	12.591	1882	1887	1890	rBV	34901	39931	1.31%	0.193%
32	12.676	1897	1901	1907	rVB	67053	92851	3.04%	0.448%
33	12.902	1932	1938	1942	rBV4	23469	30661	1.00%	0.148%
34	12.944	1942	1945	1950	rVB2	29556	34987	1.15%	0.169%
35	13.158	1976	1980	1984	rBV2	34520	39653	1.30%	0.191%

FW 10/14/15

00130

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	13.280	1995	2000	2006	rBV2	88257	117834	3.86%	0.569%
37	13.773	2073	2081	2085	rBV	109714	131715	4.32%	0.636%

Sum of corrected areas: 20721409

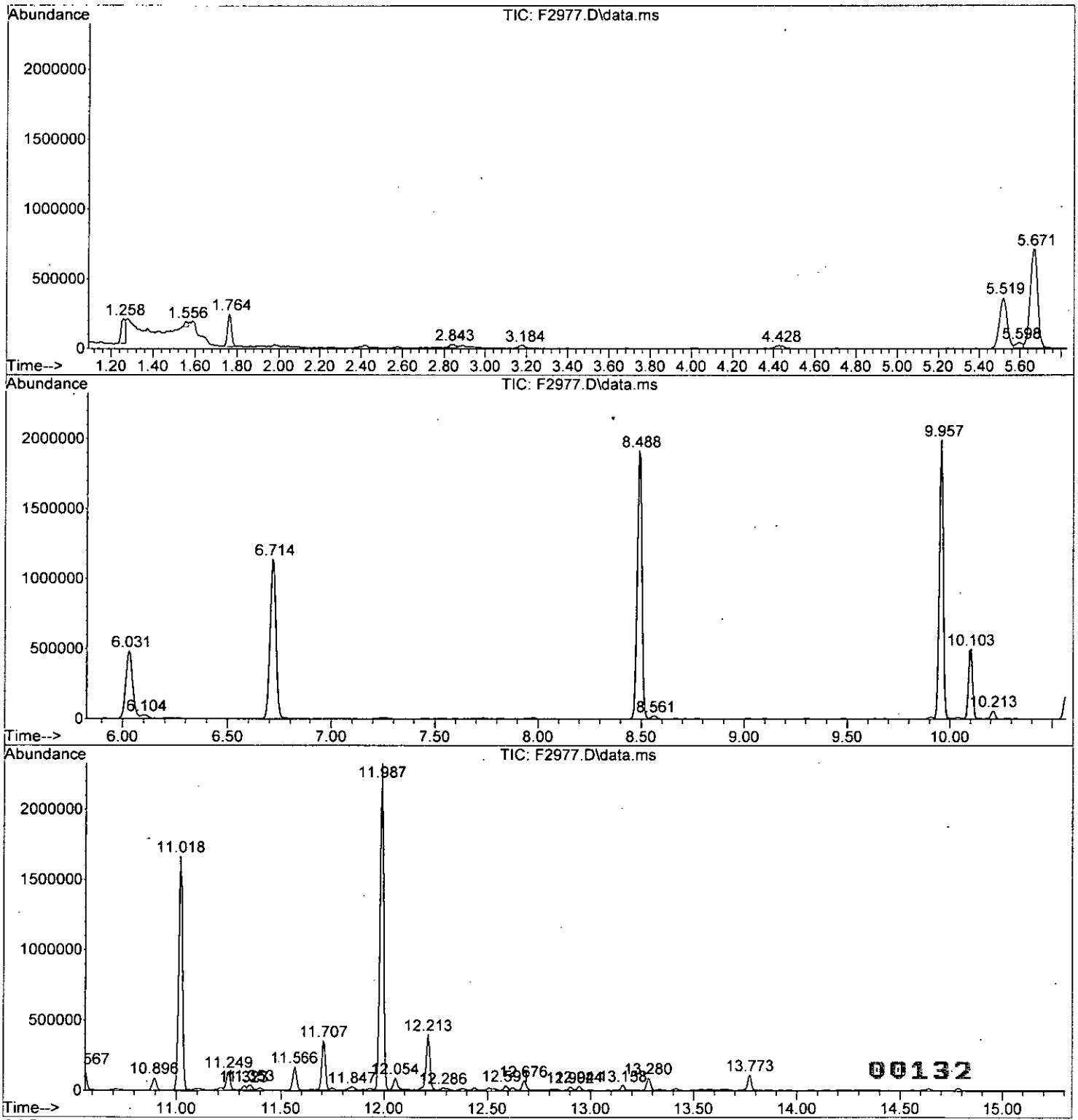
00131

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00132

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

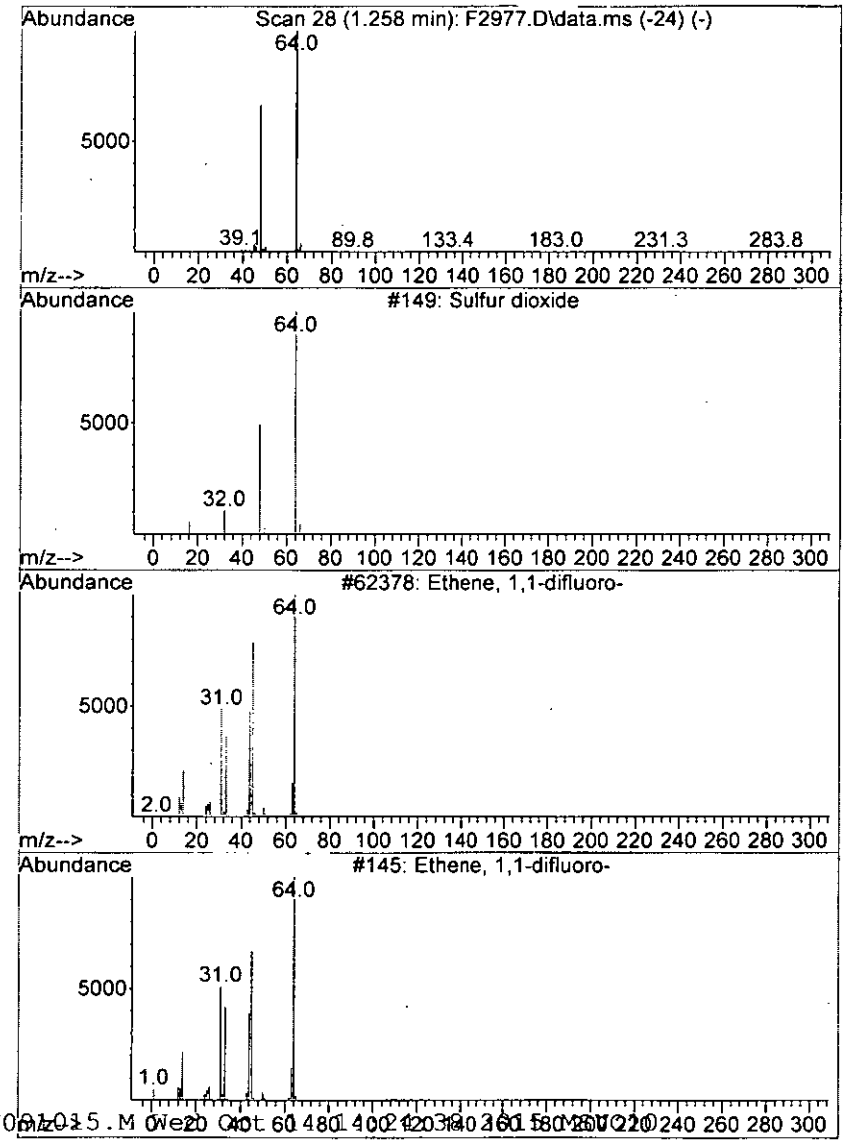
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

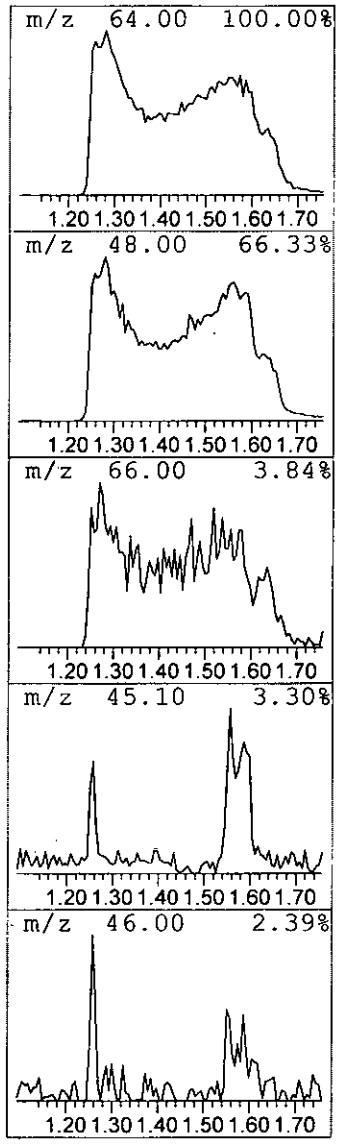
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Peak Number 1 Sulfur dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.258	7.59 ug/L	268942	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	90
2	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4
3	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4
4	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	3





00133

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

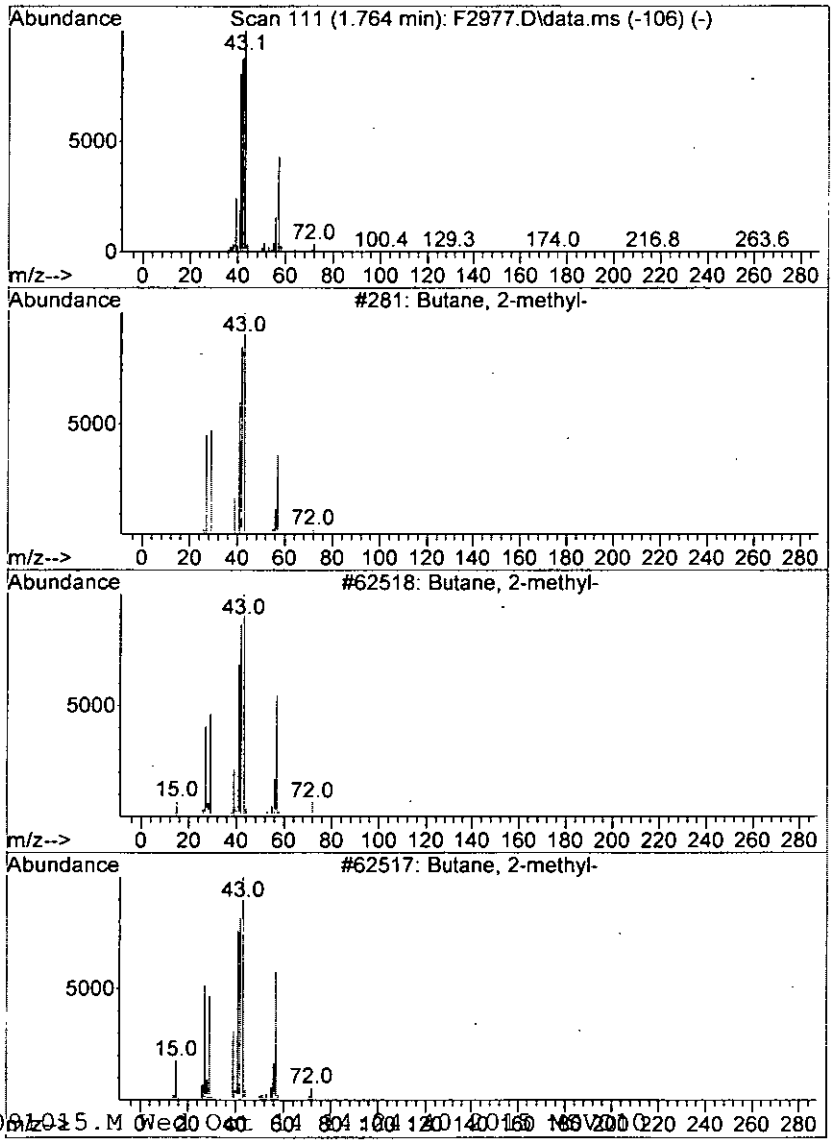
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

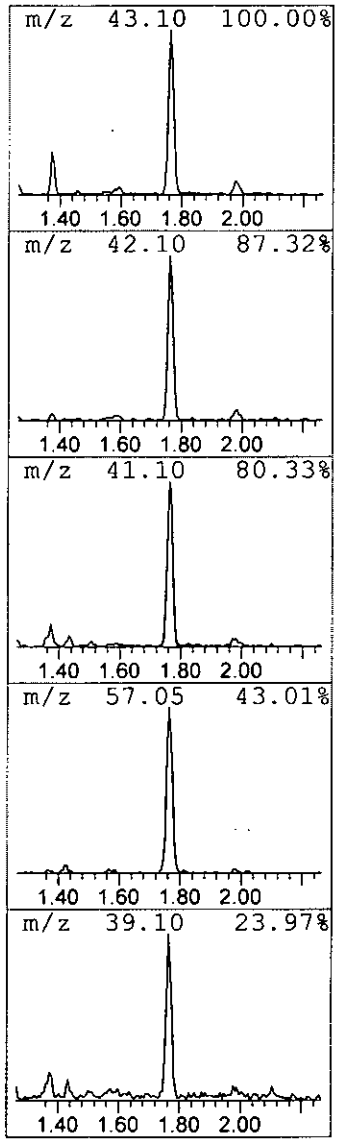
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Peak Number 2 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.764	8.53 ug/L	302171	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	64
3	Butane, 2-methyl-	72	C5H12	000078-78-4	37
4	Oxirane, 2,2-dimethyl-	72	C4H8O	000558-30-5	33
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9





00134

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

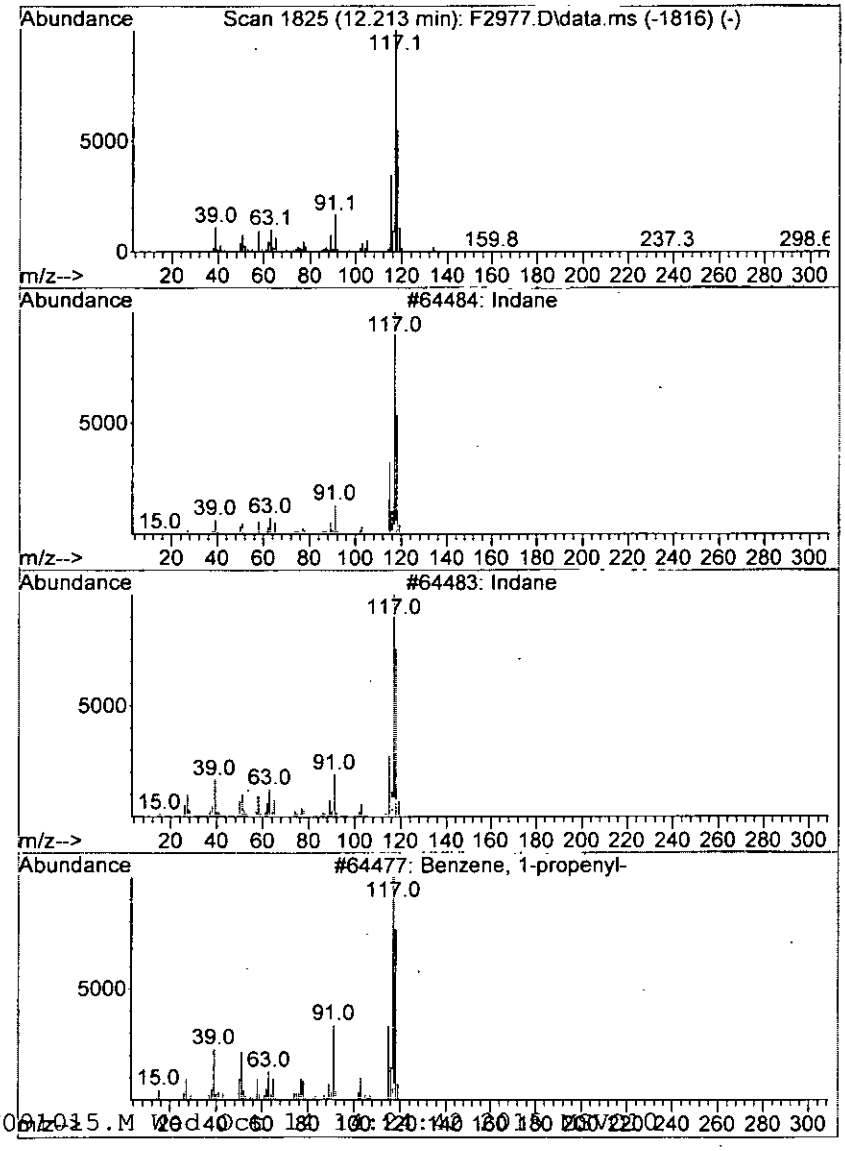
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

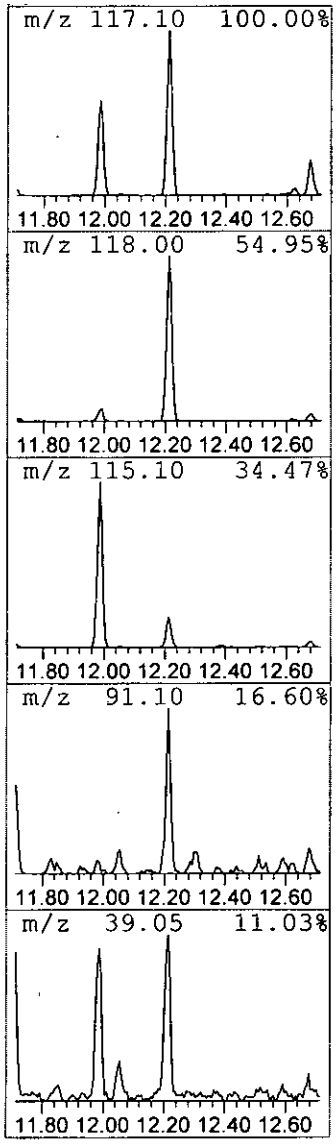
****

Peak Number 3 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	9.12 ug/L	506960	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	87
2	Indane	118	C9H10	000496-11-7	60
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	59
4	Benzeneethanol, .beta.-ethenyl-	148	C10H12O	006052-63-7	50
5	Indane	118	C9H10	000496-11-7	49





00135

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2977.D
Acq On : 9 Oct 2015 2:37 pm
Operator : F. Naegler
Sample : R1508244-004|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Sulfur dioxide	1.258	7.6	ug/L	268942	1	5.671	1770550	50.0
Butane, 2-methyl-	1.764	8.5	ug/L	302171	1	5.671	1770550	50.0
Indane	12.213	9.1	ug/L	506960	4	11.987	2779590	50.0

00136

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0920
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:23
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1508244-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	**0.47**	J	5.0	1.0	0.29	

00137

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0920
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:23
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1508244-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.45**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**1.1**	J	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0920
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:23
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	Percent
Lab Code:	R1508244-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2939.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/8/15 21:23	
Dibromofluoromethane	93	85-115	10/8/15 21:23	
Toluene-d8	98	85-120	10/8/15 21:23	

00139

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/8/15 2123

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1508244-005	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2939.D
Acq On : 8 Oct 2015 9:23 pm
Operator : F. Naegler
Sample : R1508244-005|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 13 12:58:54 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	698489	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	985270	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	881954	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	461343	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	296784	46.68	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.36%				
46) surr1,1,2-dichloroetha...	6.031	65	412385	45.75	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.50%				
64) SURR3,Toluene-d8	8.488	98	1136390	49.04	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.08%				
69) SURR2,BFB	11.018	95	445537	46.56	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.12%				
Target Compounds							Qvalue
3) Chloromethane	1.294	50	3831	0.45	ug/L		98
5) Bromomethane	1.617	94	2605	0.47	ug/L	#	75
15) Acetone	2.422	43	12513	2.09	ug/L		96
25) Methyl-t-Butyl Ether	3.184	73	6445	0.27	ug/L		85
71) Tetrachloroethene	9.146	164	6125	1.08	ug/L	#	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

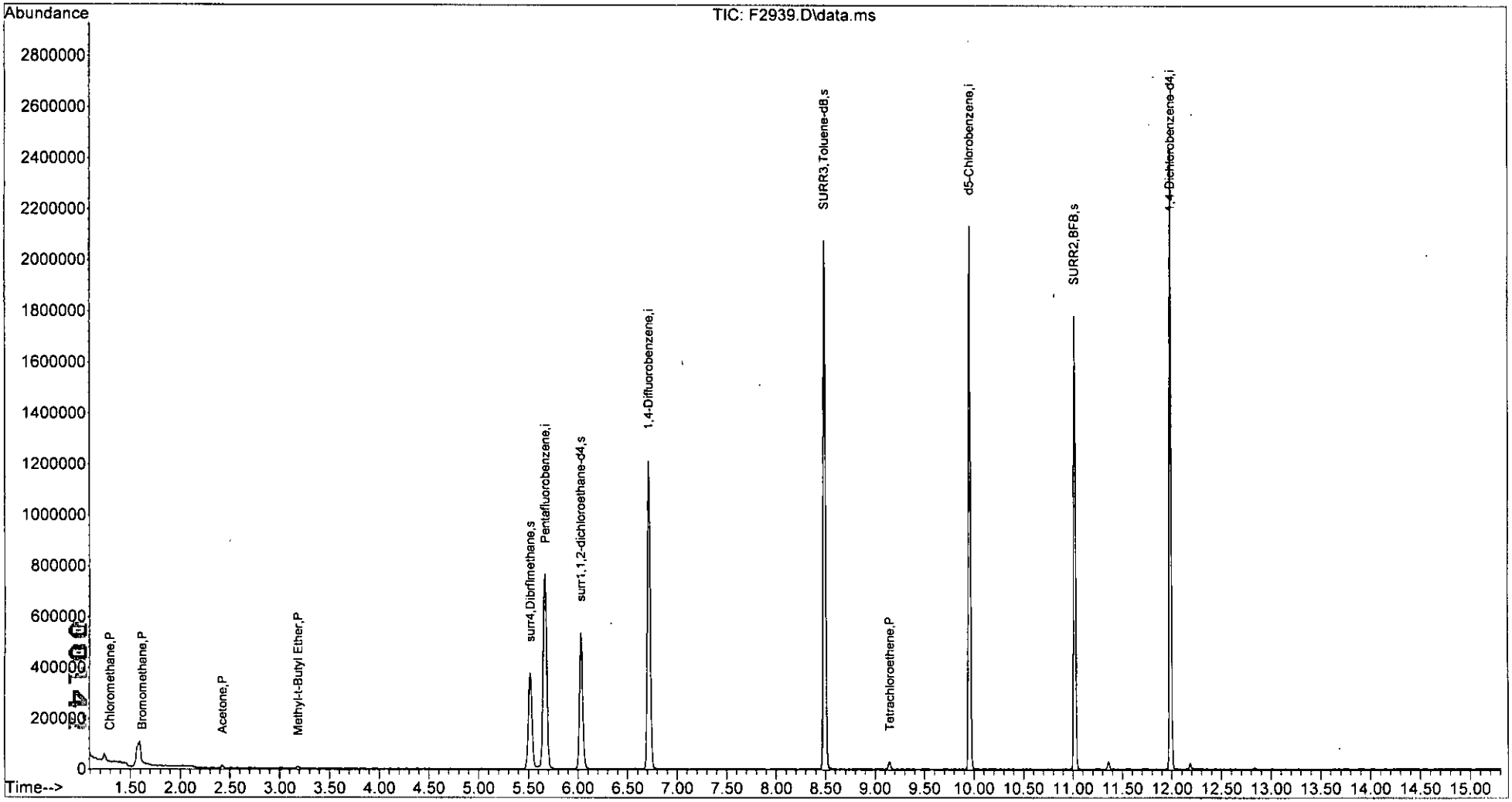
FV
10/13/15

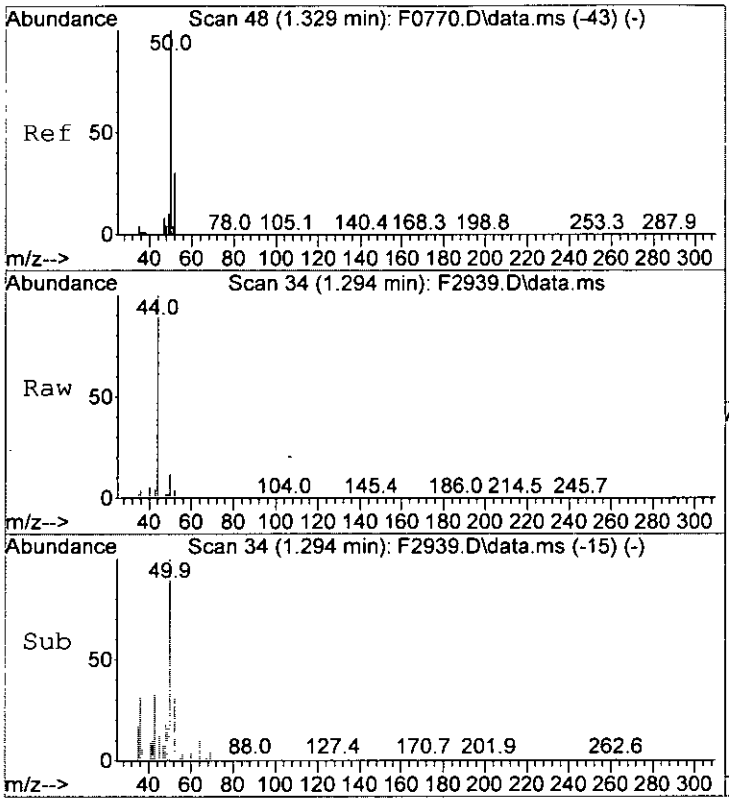
00141

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2939.D
Acq On : 8 Oct 2015 9:23 pm
Operator : F. Naegler
Sample : R1508244-005|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 13 12:58:54 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

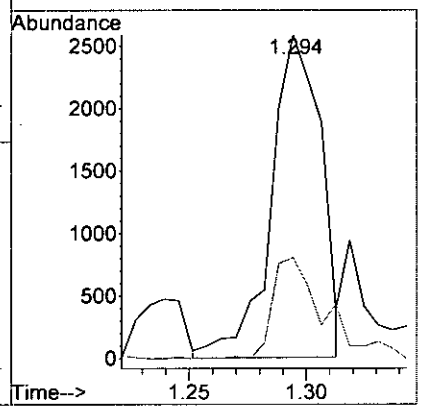


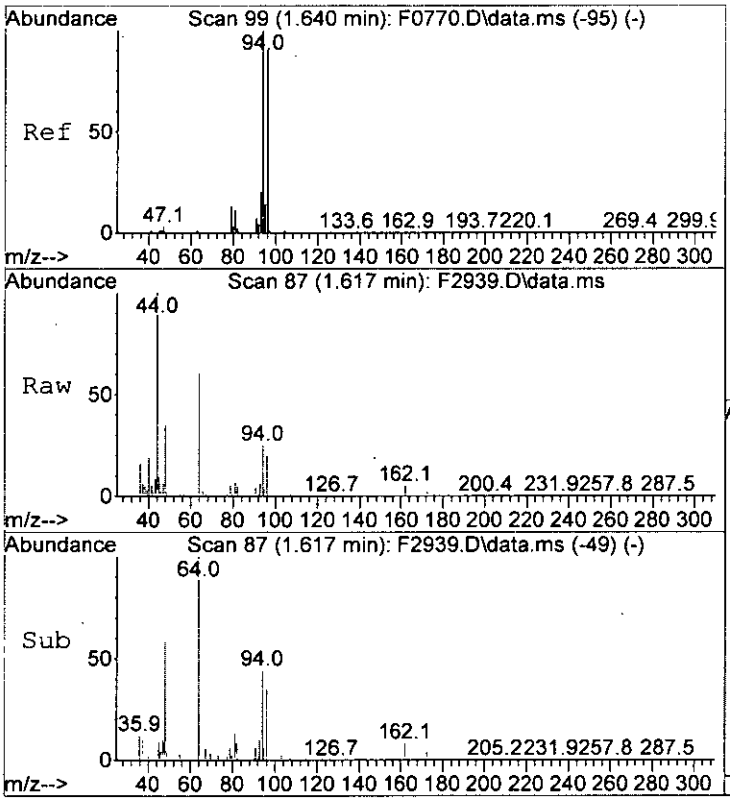


#3
Chloromethane
Concen: 0.45 ug/L
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: F2939.D
Acq: 8 Oct 2015 9:23 pm

Tgt Ion: 50 Resp: 3831

Ion	Ratio	Lower	Upper
50	100		
52	31.1	12.0	52.0

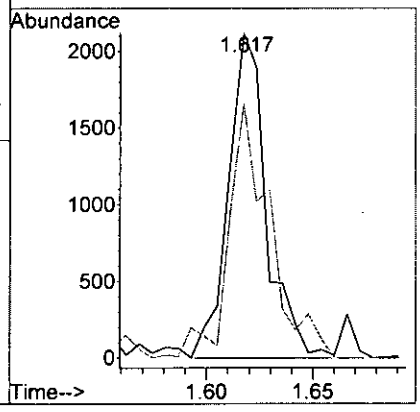




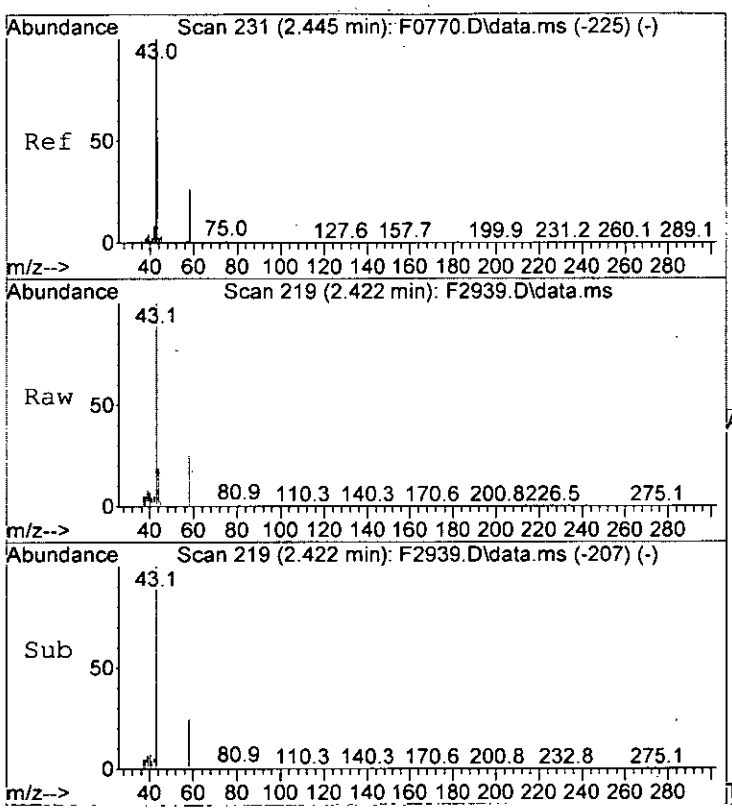
#5
Bromomethane
Concen: 0.47 ug/L
RT: 1.617 min Scan# 87
Delta R.T. 0.006 min
Lab File: F2939.D
Acq: 8 Oct 2015 9:23 pm

Tgt Ion: 94 Resp: 2605

Ion	Ratio	Lower	Upper
94	100		
96	69.3	73.0	113.0#



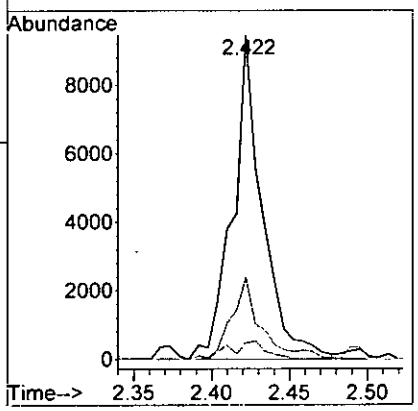
00143

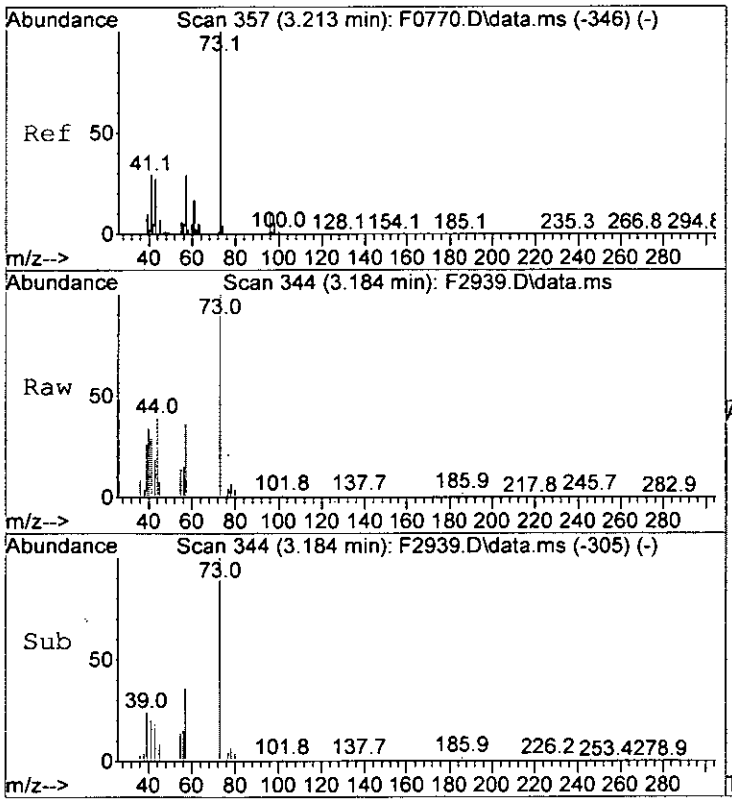


#15
Acetone
Concen: 2.09 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2939.D
Acq: 8 Oct 2015 9:23 pm

Tgt Ion: 43 Resp: 12513

Ion	Ratio	Lower	Upper
43	100		
58	25.2	6.1	46.1
42	4.9	0.0	28.3

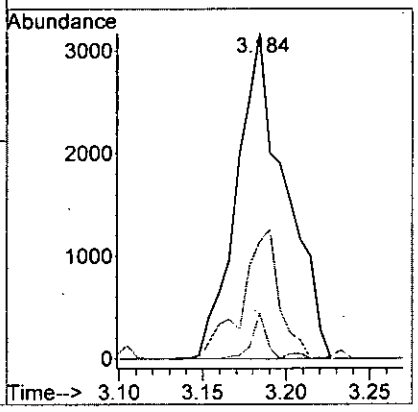


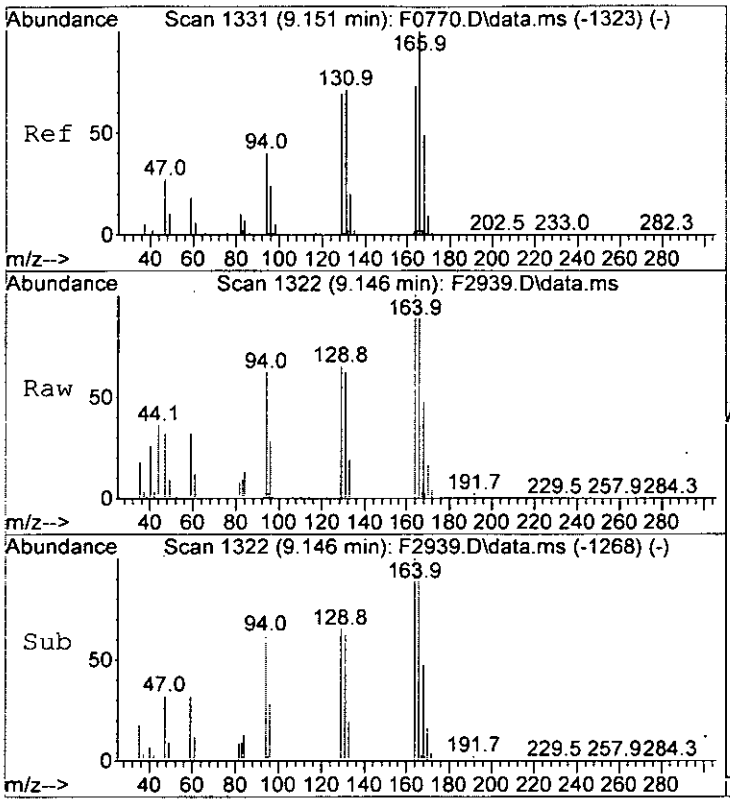


#25
Methyl-t-Butyl Ether
Concen: 0.27 ug/L
RT: 3.184 min Scan# 344
Delta R.T. 0.000 min
Lab File: F2939.D
Acq: 8 Oct 2015 9:23 pm

Tgt Ion: 73 Resp: 6445

Ion	Ratio	Lower	Upper
73	100		
57	35.9	8.6	48.6
55	13.8	0.0	25.8

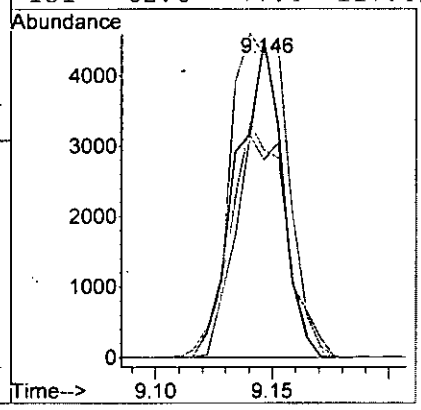




#71
Tetrachloroethene
Concen: 1.08 ug/L
RT: 9.146 min Scan# 1322
Delta R.T. 0.000 min
Lab File: F2939.D
Acq: 8 Oct 2015 9:23 pm

Tgt Ion:164 Resp: 6125

Ion	Ratio	Lower	Upper
164	100		
166	95.2	117.3	157.3#
129	65.3	74.9	114.9#
131	62.6	77.4	117.4#



00145

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2939.D
Acq On : 8 Oct 2015 9:23 pm
Operator : F. Naegler
Sample : R1508244-005|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2939.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.239	20	25	31	rVB3	33616	56065	1.71%	0.307%
2	1.593	72	83	91	rBV4	98219	295413	9.02%	1.618%
3	5.519	716	727	738	rBV2	376949	967994	29.55%	5.302%
4	5.671	742	752	761	rVB	761474	1892612	57.77%	10.367%
5	6.031	800	811	821	rBV2	535850	1181887	36.08%	6.474%
6	6.714	915	923	935	rVB	1211730	2402122	73.33%	13.158%
7	8.488	1208	1214	1222	rBV	2074037	3275952	100.00%	17.944%
8	9.146	1313	1322	1329	rBV5	29747	48829	1.49%	0.267%
9	9.957	1449	1455	1463	rVB	2134644	2868199	87.55%	15.711%
10	11.018	1622	1629	1642	rVB	1782105	2245107	68.53%	12.298%
11	11.359	1680	1685	1689	rBV2	31099	43285	1.32%	0.237%
12	11.987	1782	1788	1795	rBV	2437548	2945154	89.90%	16.132%
13	12.182	1815	1820	1825	rBV5	24765	33437	1.02%	0.183%

Sum of corrected areas: 18256056

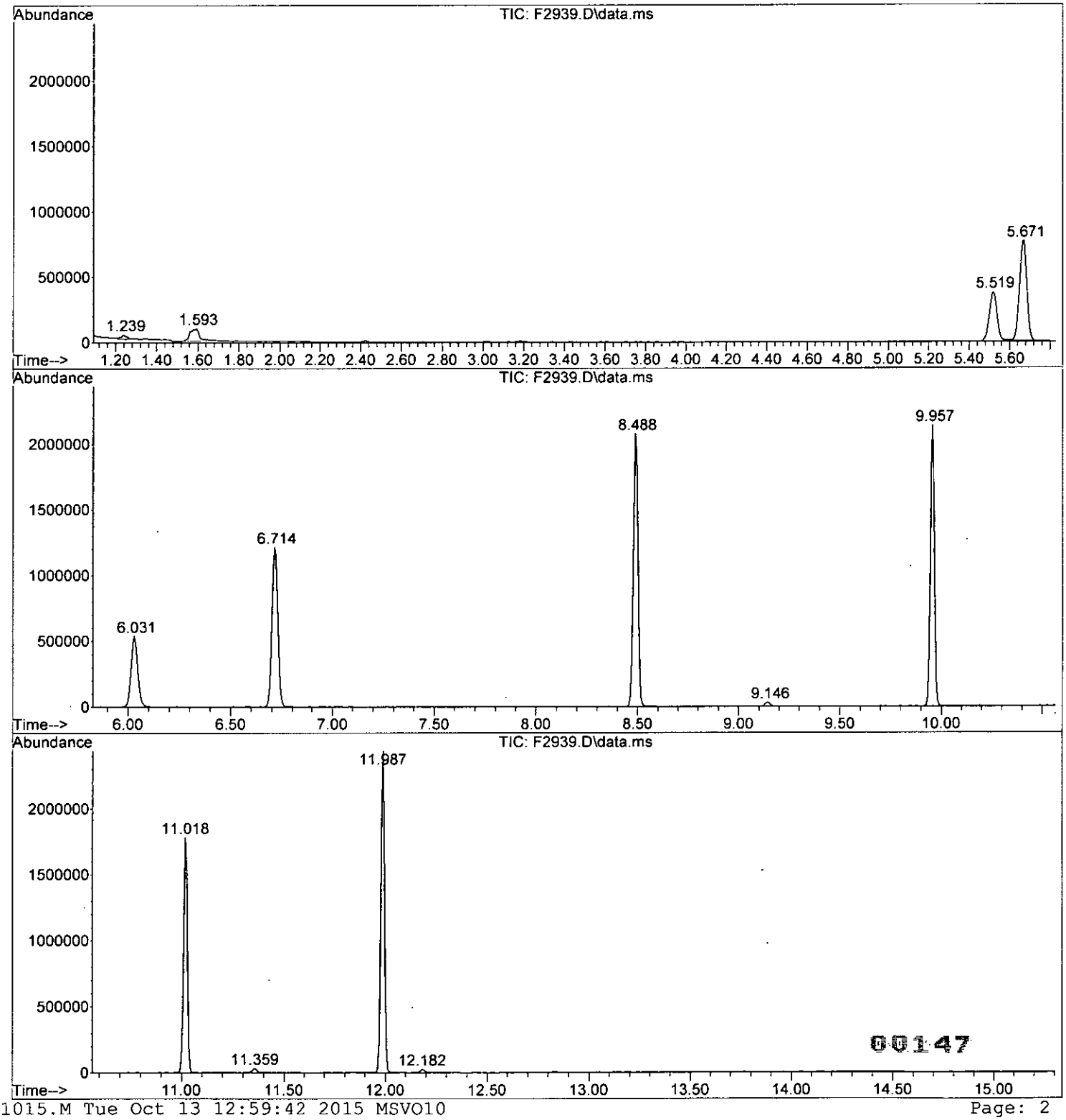
00146

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2939.D
Acq On : 8 Oct 2015 9:23 pm
Operator : F. Naegler
Sample : R1508244-005|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00147

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100815\\
Data File : F2939.D
Acq On : 8 Oct 2015 9:23 pmm
Operator : F. Naeglerr
Sample : R1508244-005|1.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 25 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00148

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0925
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:48
Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1508244-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.4**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00149

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0925
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:48
Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1508244-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	**12**		5.0	1.0	0.25	
74-87-3	Chloromethane	**0.32**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**1.3**	J	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0925
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/8/15 21:48
Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	Percent
Lab Code:	R1508244-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	75-120	10/8/15 21:48	
Dibromofluoromethane	93	85-115	10/8/15 21:48	
Toluene-d8	97	85-120	10/8/15 21:48	

00151

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/8/15 2148

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1508244-006	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.60	5.9	J

Comments:

00152

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2940.D
Acq On : 8 Oct 2015 9:48 pm
Operator : F. Naegler
Sample : R1508244-006|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 13 13:01:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	649233	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	960867	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	838664	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	442715	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	287724	46.41	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.82%			
46) surr1,1,2-dichloroetha...	6.031	65	387240	44.05	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 88.10%			
64) SURR3,Toluene-d8	8.488	98	1094819	48.45	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.90%			
69) SURR2,BFB	11.018	95	413548	44.32	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.64%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	2477	0.32	ug/L	99
15) Acetone	2.422	43	13029	2.35	ug/L	89
39) Chloroform	5.245	83	132196	11.78	ug/L	97
71) Tetrachloroethene	9.146	164	7085	1.31	ug/L #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

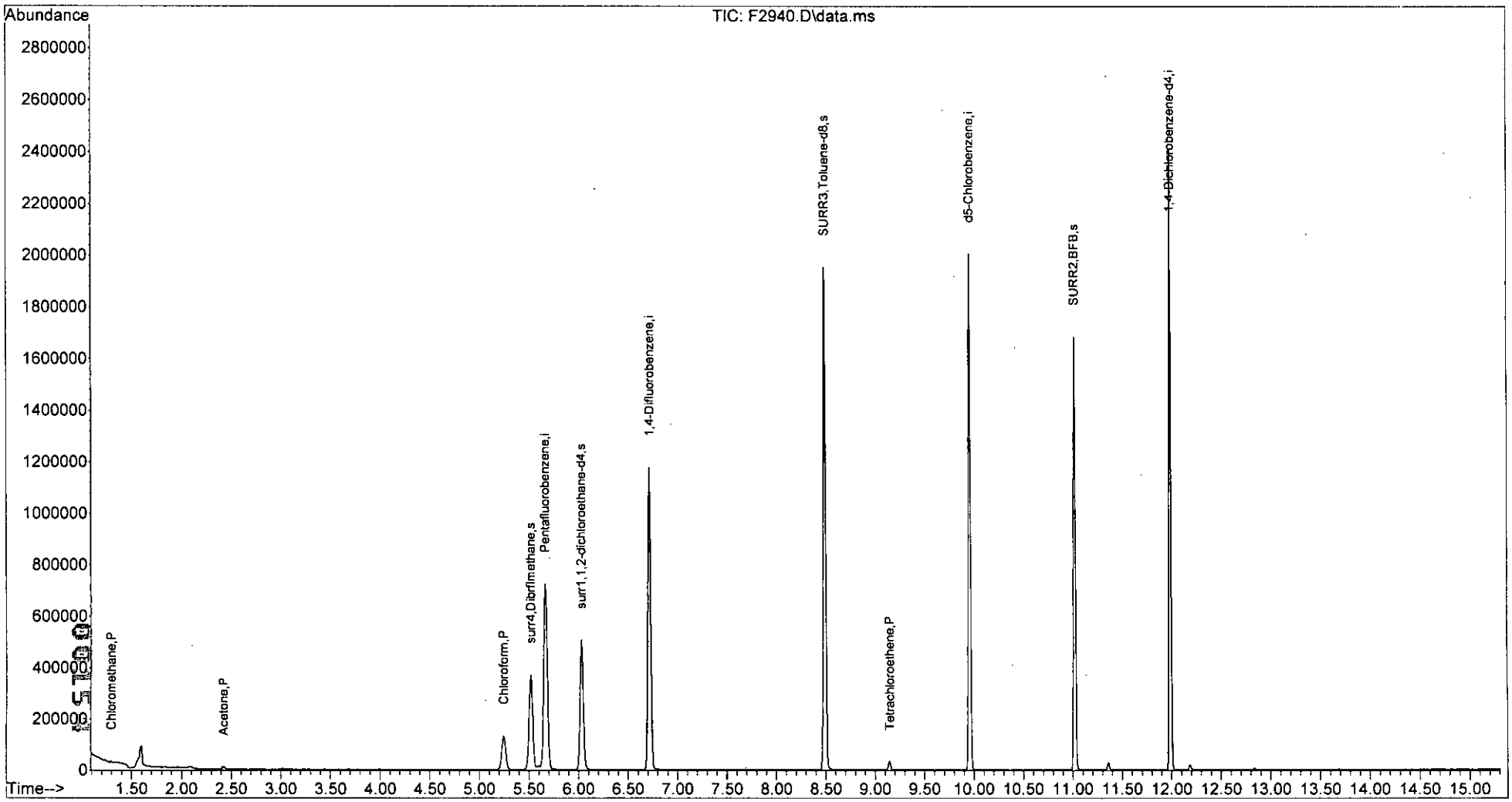
FW 10/13/15

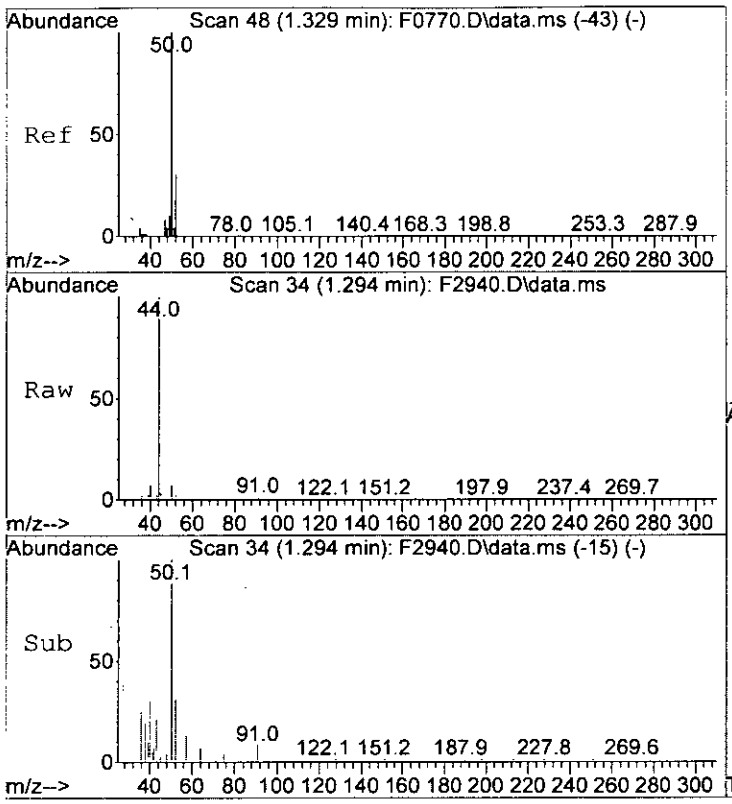
00153

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2940.D
Acq On : 8 Oct 2015 9:48 pm
Operator : F. Naegler
Sample : R1508244-006|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 13 13:01:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

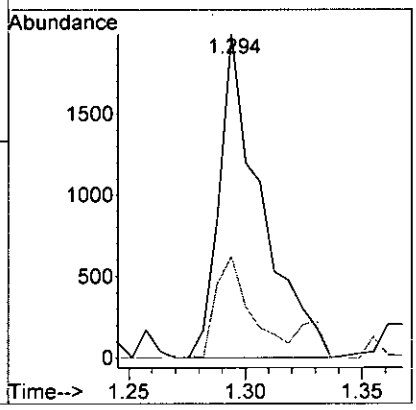


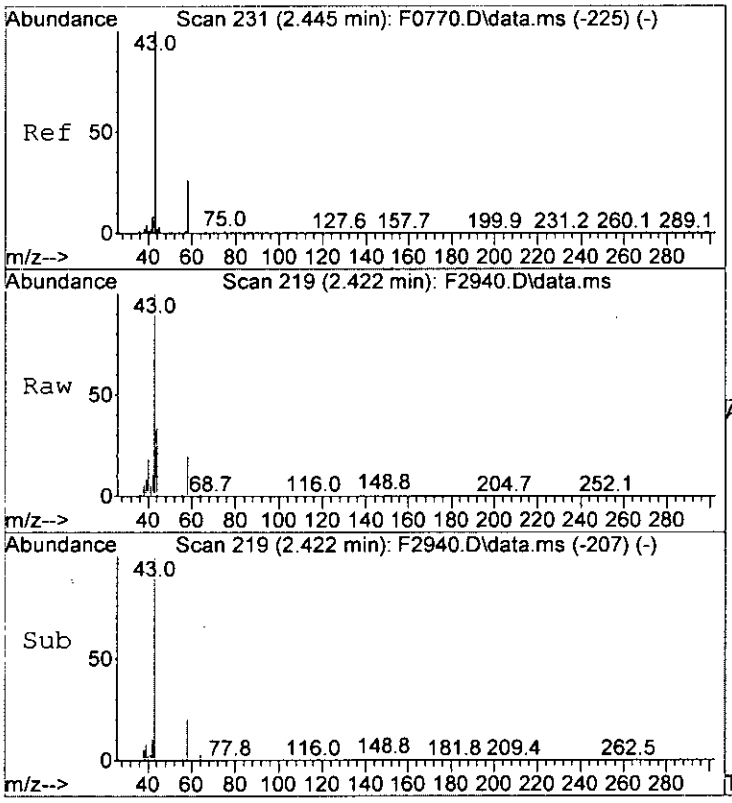


#3
Chloromethane
Concen: 0.32 ug/L
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: F2940.D
Acq: 8 Oct 2015 9:48 pm

Tgt Ion: 50 Resp: 2477

Ion	Ratio	Lower	Upper
50	100		
52	31.3	12.0	52.0

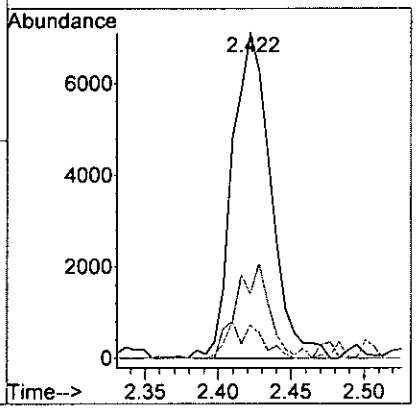




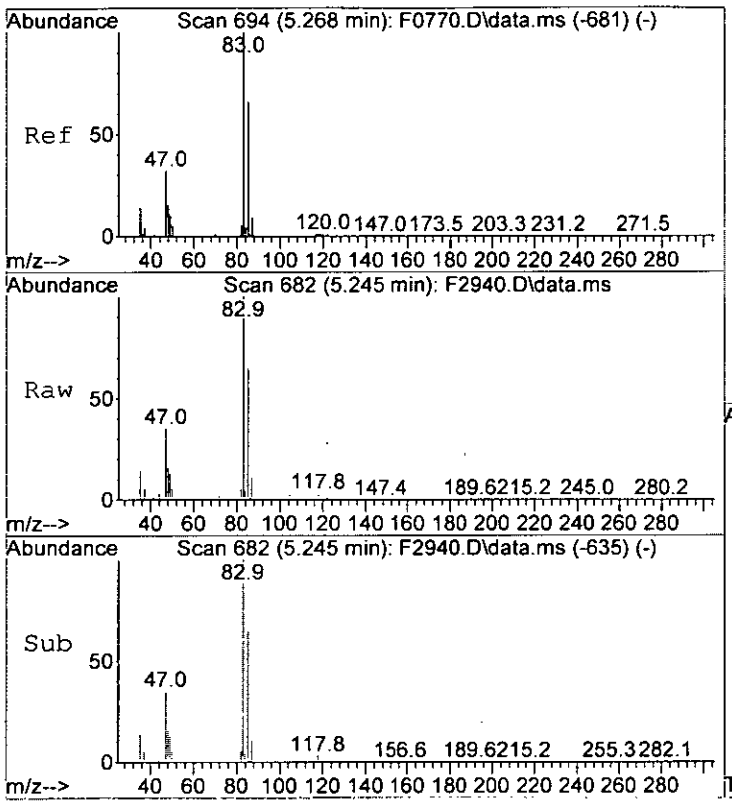
#15
Acetone
Concen: 2.35 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2940.D
Acq: 8 Oct 2015 9:48 pm

Tgt Ion: 43 Resp: 13029

Ion	Ratio	Lower	Upper
43	100		
58	19.7	6.1	46.1
42	10.2	0.0	28.3



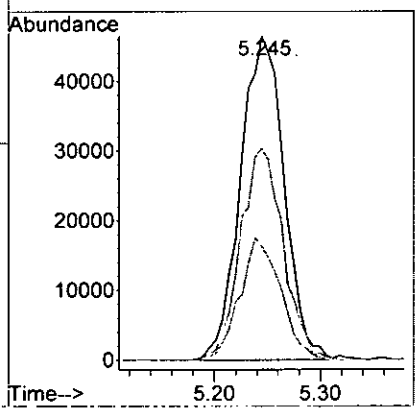
00155

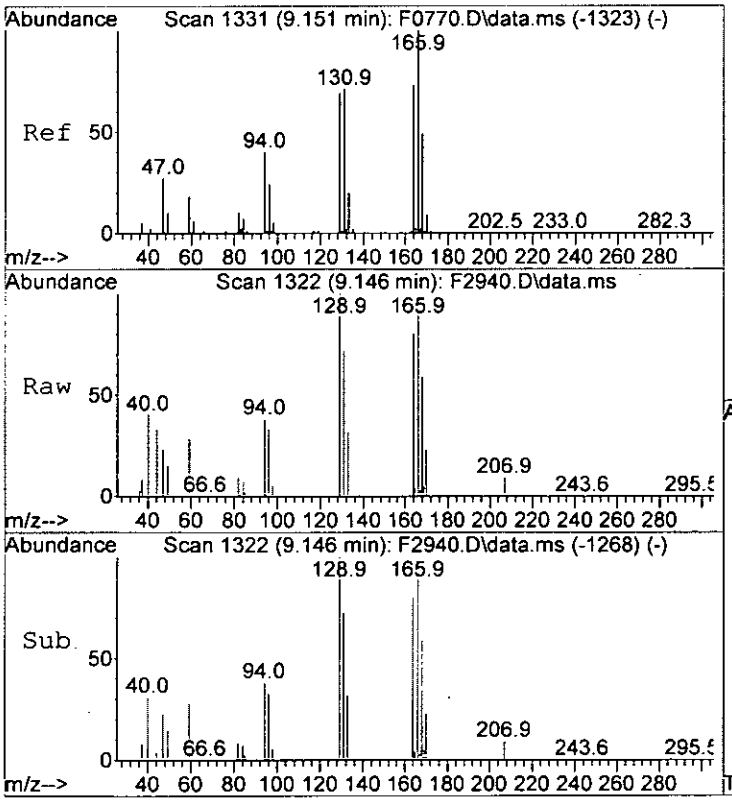


#39
Chloroform
Concen: 11.78 ug/L
RT: 5.245 min Scan# 682
Delta R.T. -0.000 min
Lab File: F2940.D
Acq: 8 Oct 2015 9:48 pm

Tgt Ion: 83 Resp: 132196

Ion	Ratio	Lower	Upper
83	100		
85	65.3	46.1	86.1
47	35.1	11.9	51.9

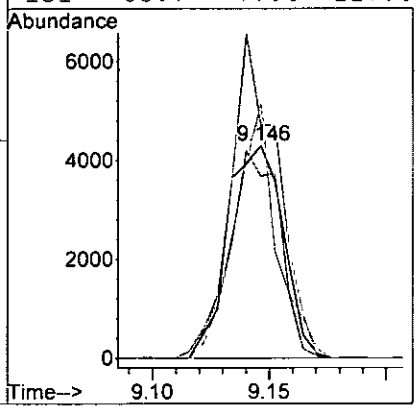




#71
Tetrachloroethene
Concen: 1.31 ug/L
RT: 9.146 min Scan# 1322
Delta R.T. -0.000 min
Lab File: F2940.D
Acq: 8 Oct 2015 9:48 pm

Tgt Ion:164 Resp: 7085

Ion	Ratio	Lower	Upper
164	100		
166	109.5	117.3	157.3#
129	119.5	74.9	114.9#
131	85.7	77.4	117.4



00156

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2940.D
Acq On : 8 Oct 2015 9:48 pm
Operator : F. Naegler
Sample : R1508244-006|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2940.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	71	84	90	rBV3	83883	214349	6.87%	1.215%
2	5.245	672	682	694	rVB2	132873	362714	11.62%	2.057%
3	5.519	715	727	735	rBV	370712	936909	30.01%	5.313%
4	5.665	742	751	765	rVB	723395	1823117	58.39%	10.338%
5	6.031	802	811	823	rBV	505834	1125740	36.06%	6.383%
6	6.720	915	924	933	rBV	1176066	2323516	74.42%	13.175%
7	8.488	1207	1214	1225	rBV	1949368	3122067	100.00%	17.704%
8	9.146	1315	1322	1329	rVB2	35002	56498	1.81%	0.320%
9	9.957	1447	1455	1462	rBV	2003728	2722066	87.19%	15.435%
10	11.018	1624	1629	1635	rBV	1680742	2104890	67.42%	11.936%
11	11.359	1681	1685	1689	rBV5	28325	35886	1.15%	0.203%
12	11.987	1782	1788	1797	rBV	2405050	2807480	89.92%	15.920%

Sum of corrected areas: 17635232

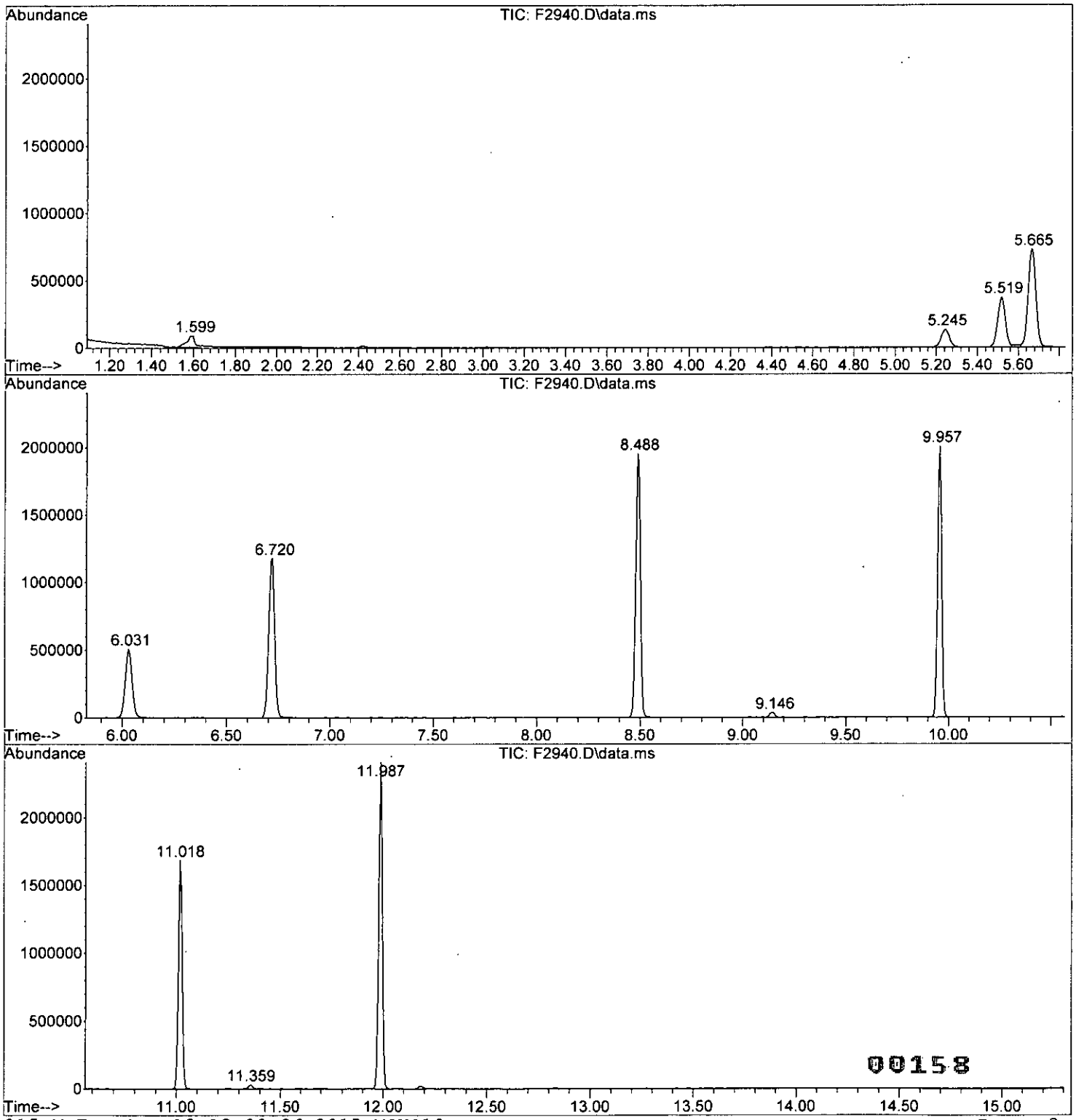
00157

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2940.D
Acq On : 8 Oct 2015 9:48 pm
Operator : F. Naegler
Sample : R1508244-006|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00158

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2940.D
Acq On : 8 Oct 2015 9:48 pm
Operator : F. Naegler
Sample : R1508244-006|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

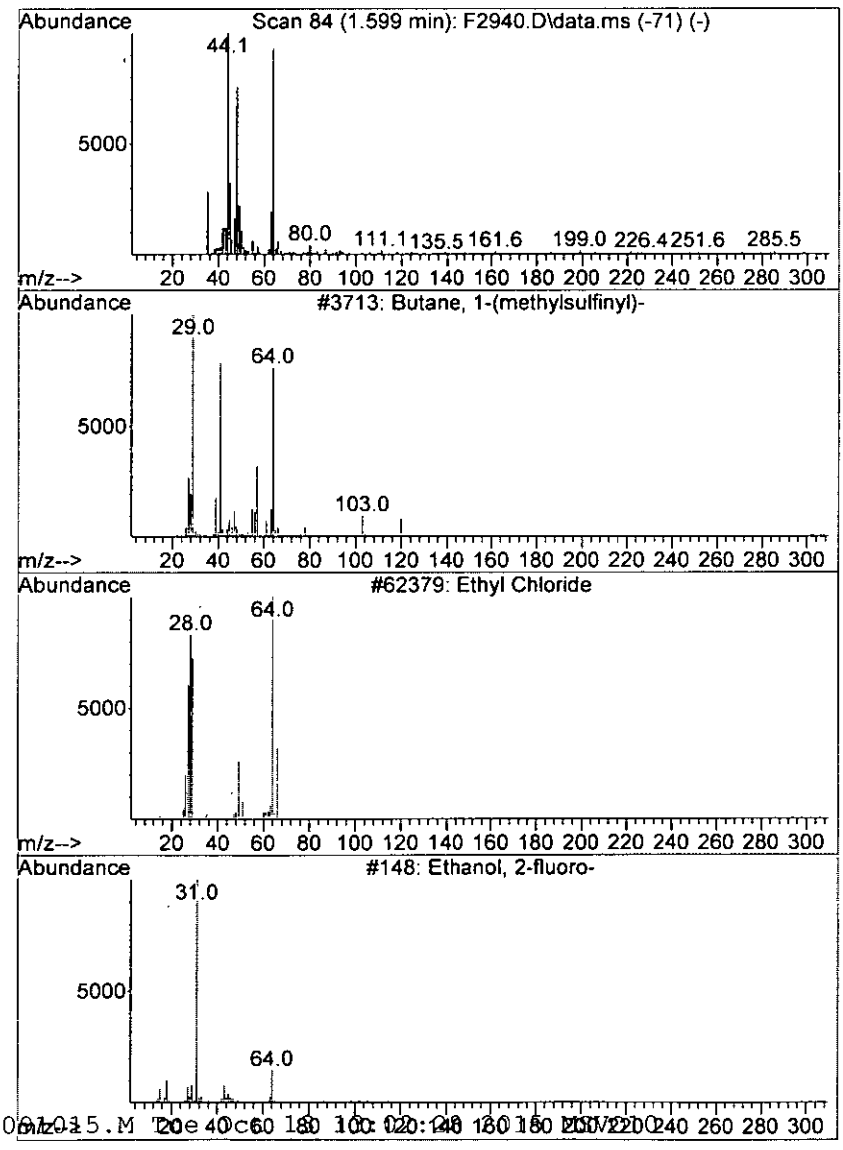
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

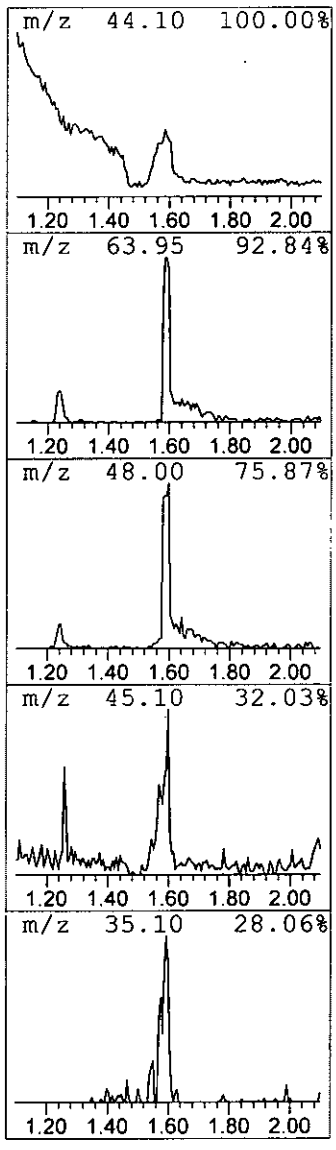
****

Peak Number 1 Butane, 1-(methylsulfinyl)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.599	5.88 ug/L	214349	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 1-(methylsulfinyl)-	120	C5H12OS	002976-98-9	32
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	9
3	Ethanol, 2-fluoro-	64	C2H5FO	000371-62-0	9
4	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	9
5	Ethanesulfonyl chloride	128	C2H5ClO2S	000594-44-5	9





00159

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:01
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1508244-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**32**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**3.7**	J	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	**1.7**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00160

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:01
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1508244-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**37**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**4.6**	**J**	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**5.3**		5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.61**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**46**		10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**4.2**	**J**	5.0	1.0	0.20	
95-47-6	o-Xylene	**2.9**	**J**	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:01
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	Percent
Lab Code:	R1508244-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2978.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	75-120	10/9/15 15:01	
Dibromofluoromethane	93	85-115	10/9/15 15:01	
Toluene-d8	99	85-120	10/9/15 15:01	

00162

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1501

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1508244-007	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.29	**12.7**	JN
	unknown	4.43	**5.6**	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.33	**9.6**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.57	**17.3**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	12.05	**8.3**	JN
	unknown	12.21	**15.9**	J

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 14:27:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	655307	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	944396	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	833355	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	428686	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	282622	46.38	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.76%			
46) surr1,1,2-dichloroetha...	6.031	65	394300	45.64	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.28%			
64) SURR3,Toluene-d8	8.494	98	1104116	49.71	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.42%			
69) SURR2,BFB	11.018	95	419793	45.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.54%			
Target Compounds						Qvalue
15) Acetone	2.422	43	12138	2.17	ug/L	86
47) Benzene	6.110	78	42539	1.68	ug/L	85
65) Toluene	8.561	91	15995	0.61	ug/L	83
81) Ethylbenzene	10.103	106	336355	36.50	ug/L #	86
82) (m+p)Xylene	10.213	106	500805	46.20	ug/L	99
83) o-Xylene	10.567	106	32482	2.88	ug/L	90
87) Isopropylbenzene	10.896	105	128924	4.64	ug/L	98
94) n-Propylbenzene	11.250	91	129033	4.18	ug/L	99
98) 1,3,5-Trimethylbenzene	11.402	105	80310	3.67	ug/L	97
100) 1,2,4-Trimethylbenzene	11.707	105	704289	31.55	ug/L	97
102) sec-Butylbenzene	11.853	105	6677	0.25	ug/L	95
116) Naphthalen	13.773	128	160731	5.32	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

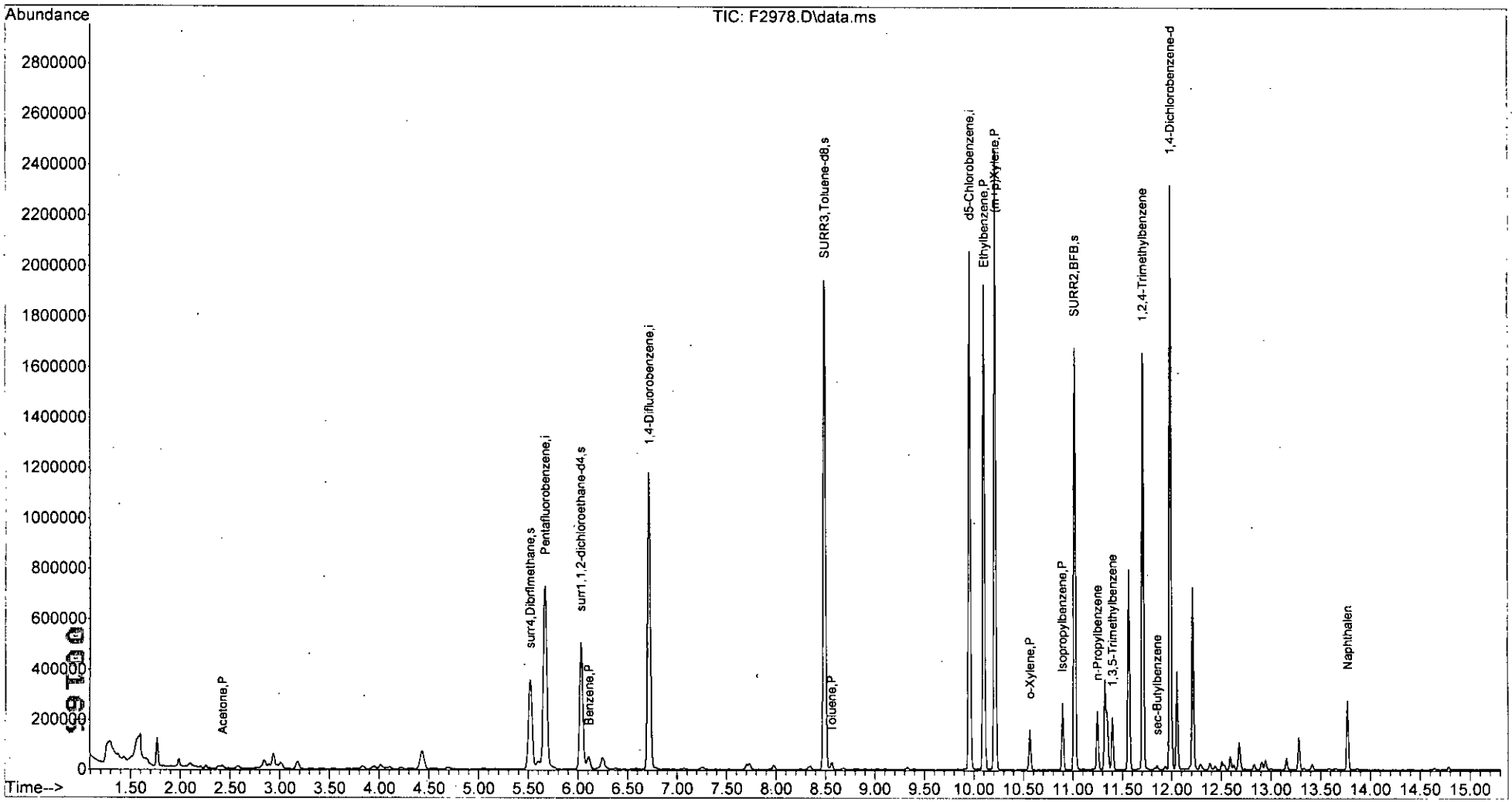
FJ 10/14/15
KR 10/14/15

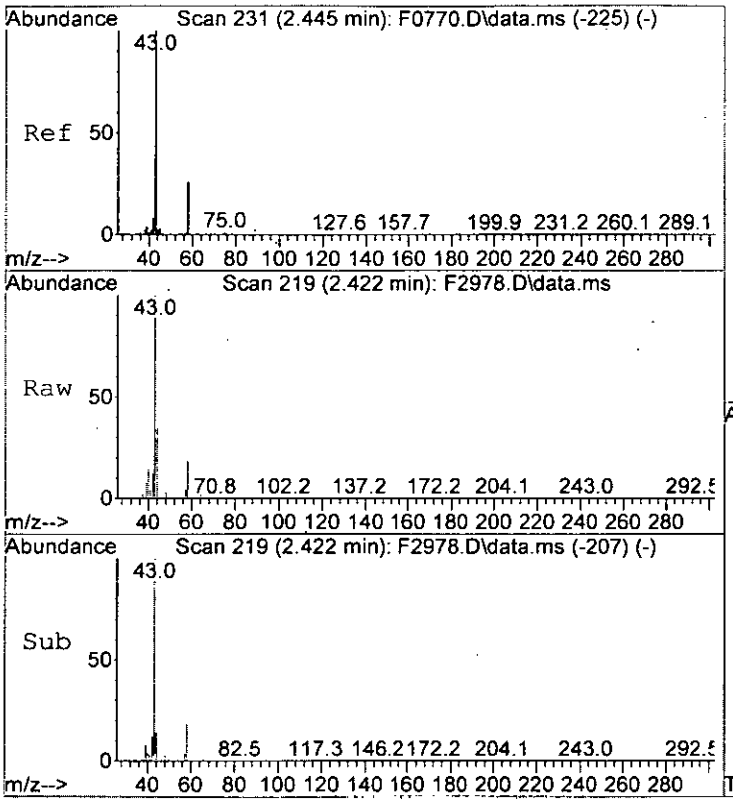
00164

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 14:27:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

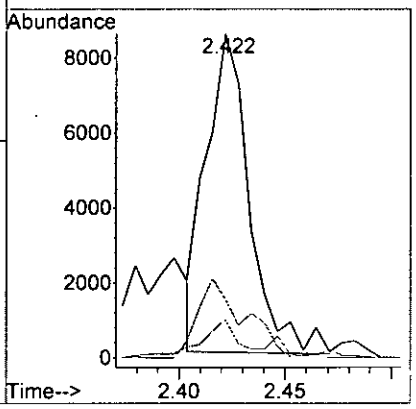


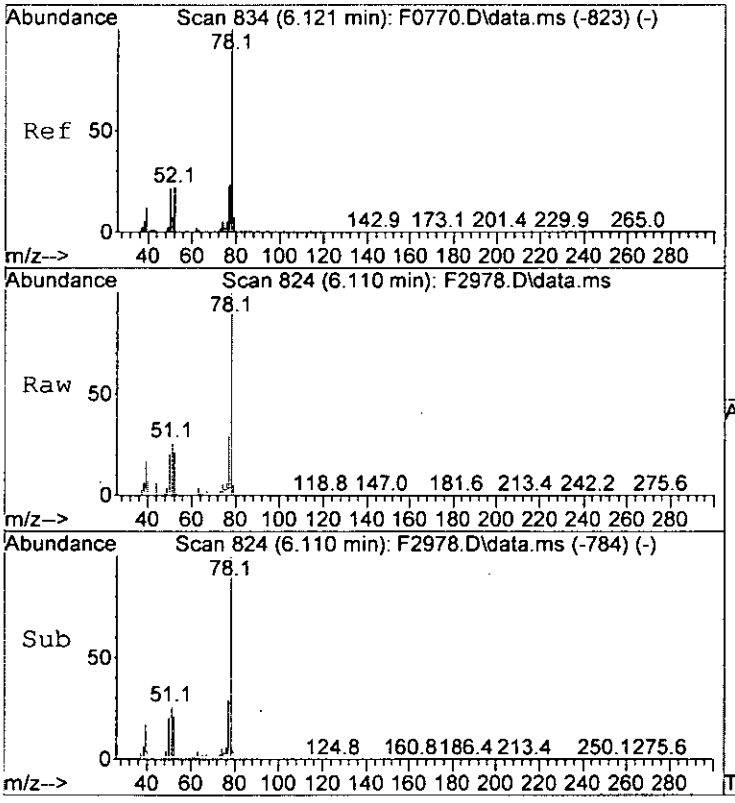


#15
Acetone
Concen: 2.17 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion: 43 Resp: 12138

Ion	Ratio	Lower	Upper
43	100		
58	18.0	6.1	46.1
42	11.6	0.0	28.3

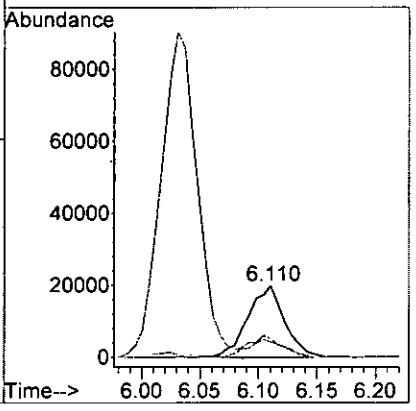


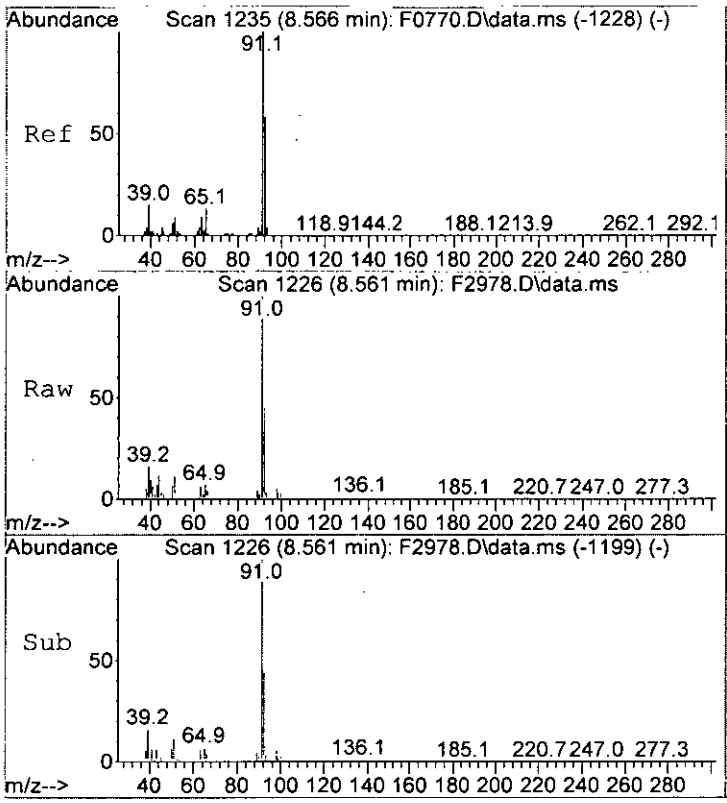


#47
Benzene
Concen: 1.68 ug/L
RT: 6.110 min Scan# 824
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion: 78 Resp: 42539

Ion	Ratio	Lower	Upper
78	100		
51	25.7	0.0	27.4
52	21.2	2.5	42.5

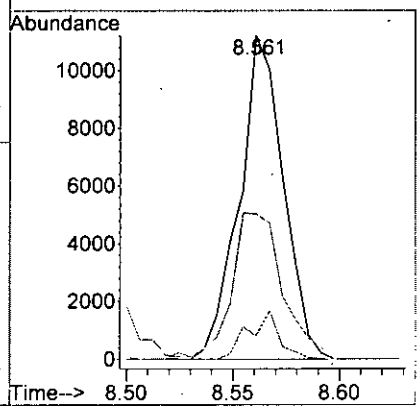


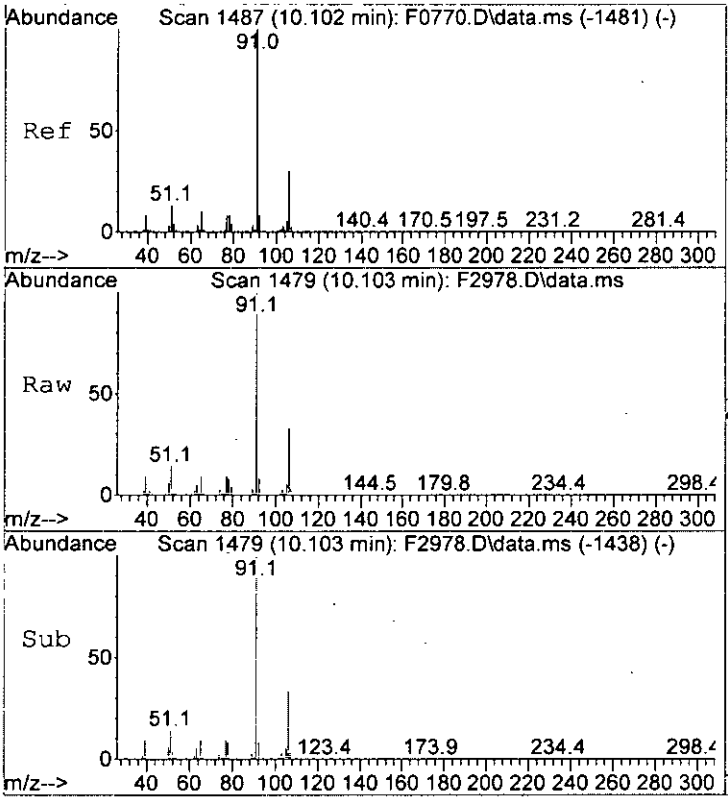


#65
Toluene
Concen: 0.61 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion: 91 Resp: 15995

Ion	Ratio	Lower	Upper
91	100		
92	44.8	38.0	78.0
65	7.2	0.0	33.0

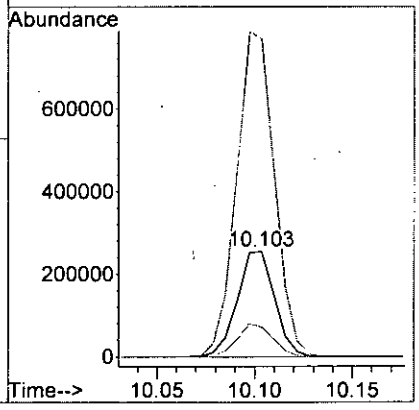




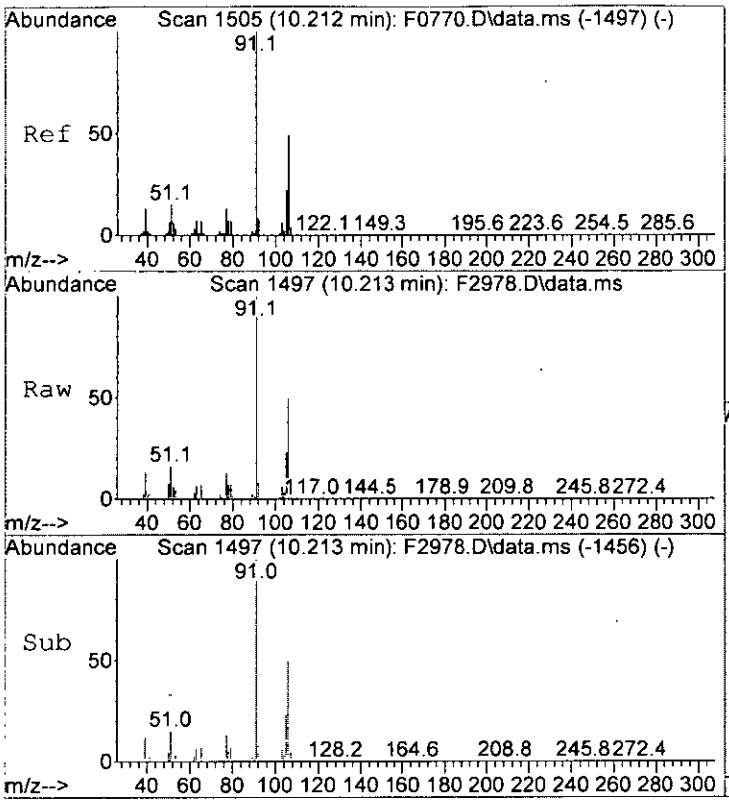
#81
Ethylbenzene
Concen: 36.50 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:106 Resp: 336355

Ion	Ratio	Lower	Upper
106	100		
91	301.6	311.8	351.8#
65	28.1	12.0	52.0



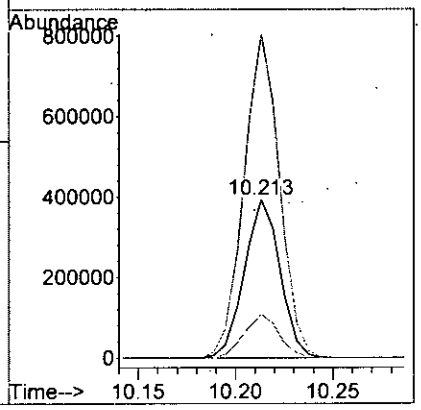
00167

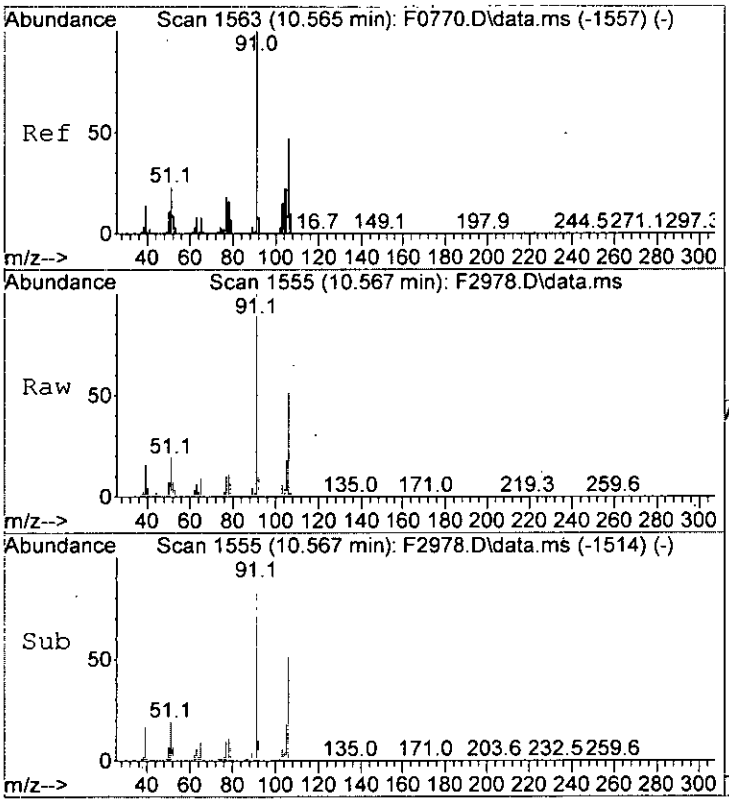


#82
(m+p)Xylene
Concen: 46.20 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:106 Resp: 500805

Ion	Ratio	Lower	Upper
106	100		
91	204.6	183.1	223.1
77	27.5	6.9	46.9

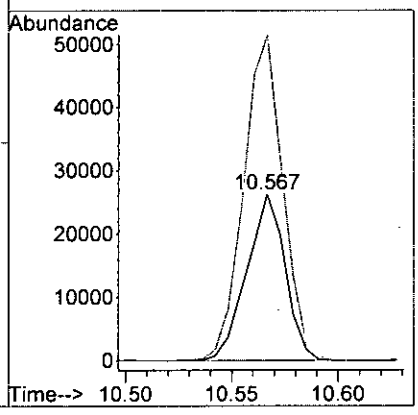


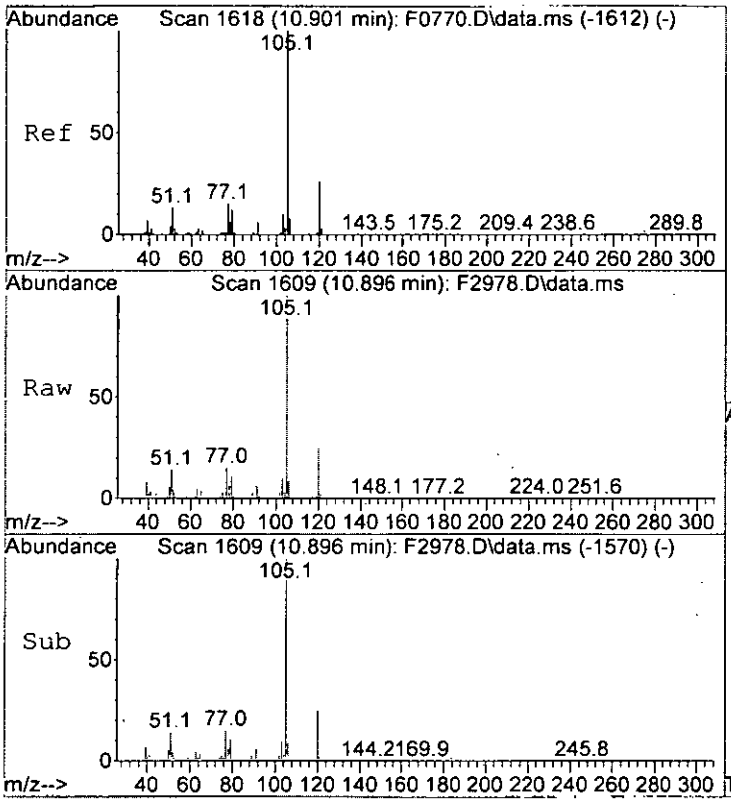


#83
o-Xylene
Concen: 2.88 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:106 Resp: 32482

Ion	Ratio	Lower	Upper
106	100		
91	195.9	192.0	232.0

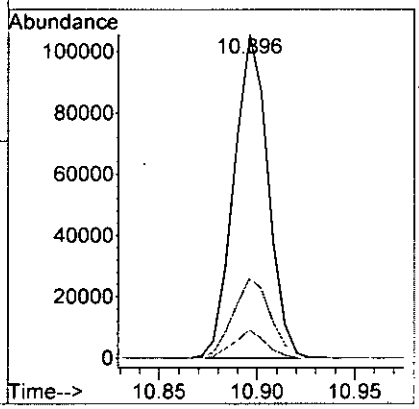


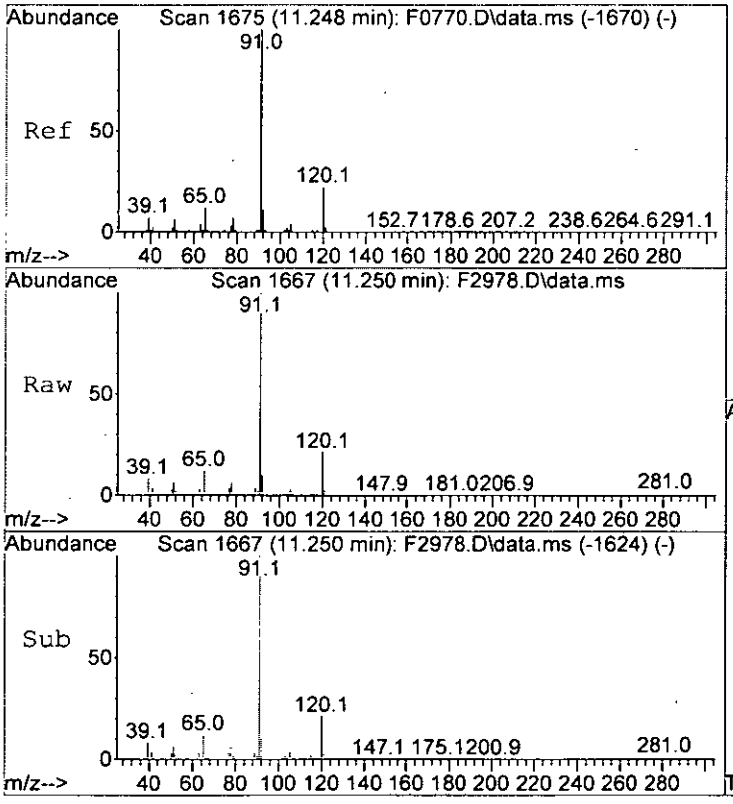


#87
Isopropylbenzene
Concen: 4.64 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:105 Resp: 128924

Ion	Ratio	Lower	Upper
105	100		
120	24.6	5.8	45.8
106	8.6	0.0	28.3

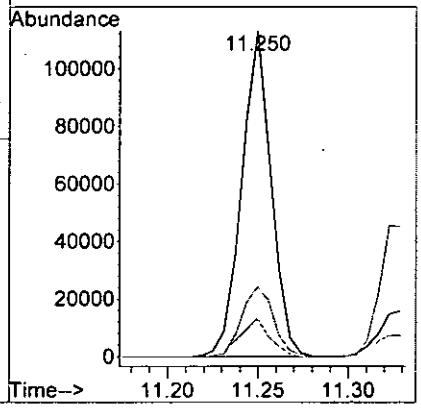


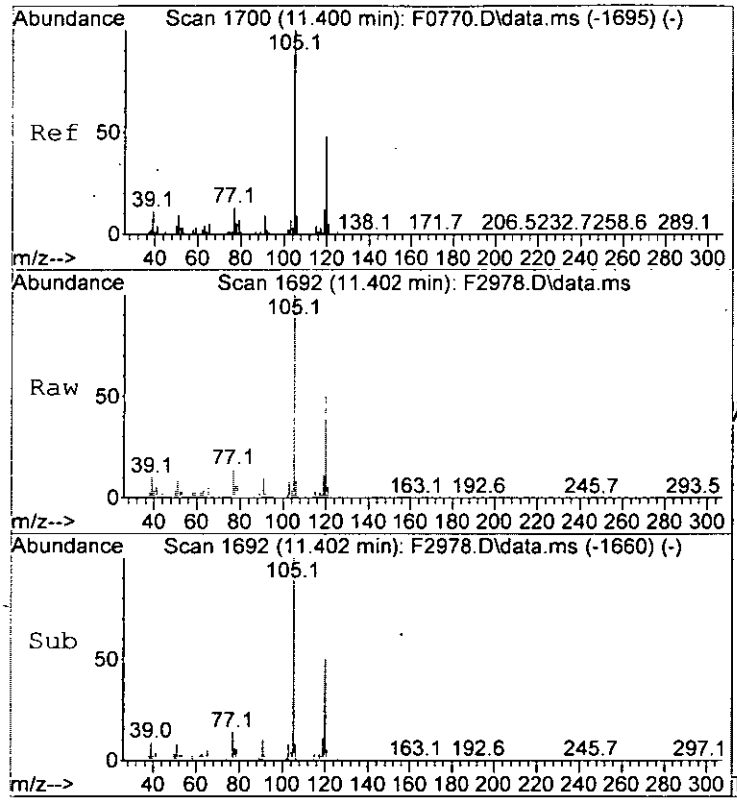


#94
n-Propylbenzene
Concen: 4.18 ug/L
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion: 91 Resp: 129033

Ion	Ratio	Lower	Upper
91	100		
120	21.3	2.1	42.1
65	11.6	0.0	31.7

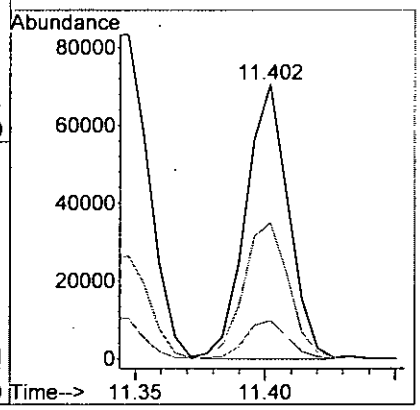


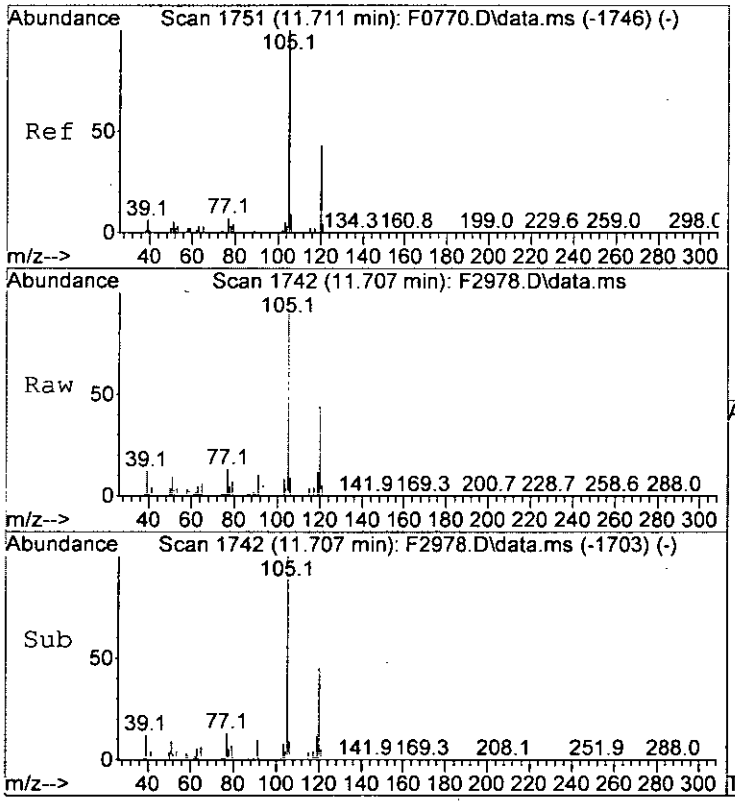


#98
1,3,5-Trimethylbenzene
Concen: 3.67 ug/L
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:105 Resp: 80310

Ion	Ratio	Lower	Upper
105	100		
120	49.6	27.9	67.9
77	13.8	0.0	32.8

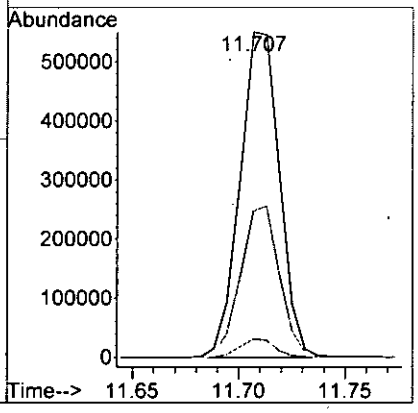




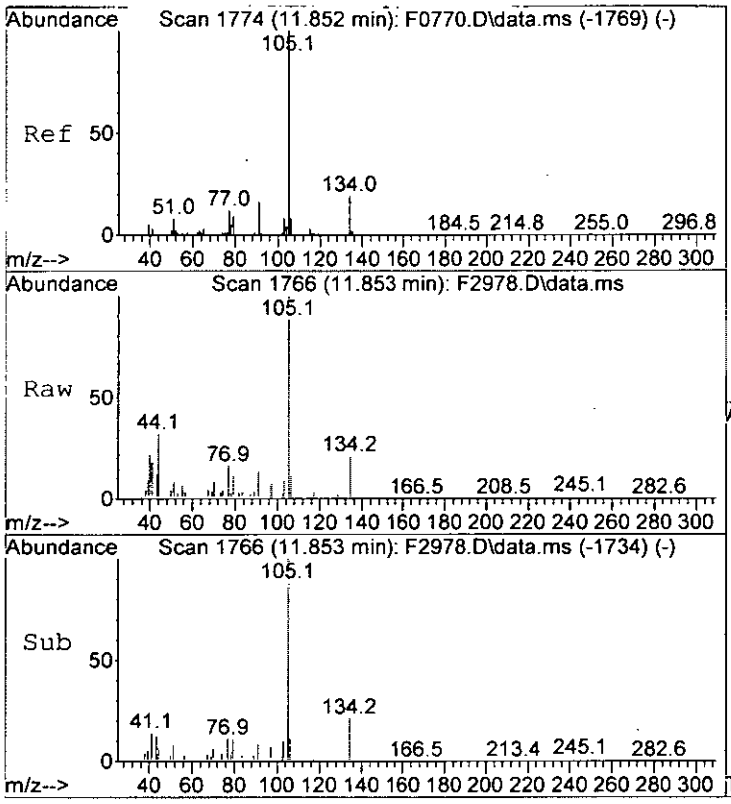
#100
1,2,4-Trimethylbenzene
Concen: 31.55 ug/L
RT: 11.707 min Scan# 1742
Delta R.T. -0.006 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:105 Resp: 704289

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.4	63.4
65	5.5	0.0	22.7



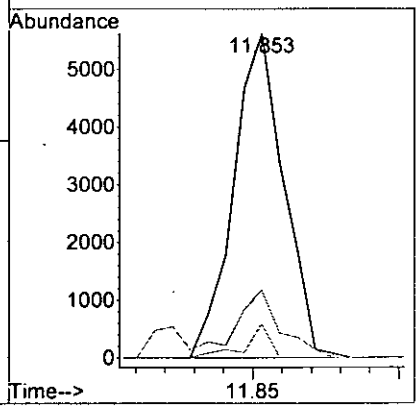
00170

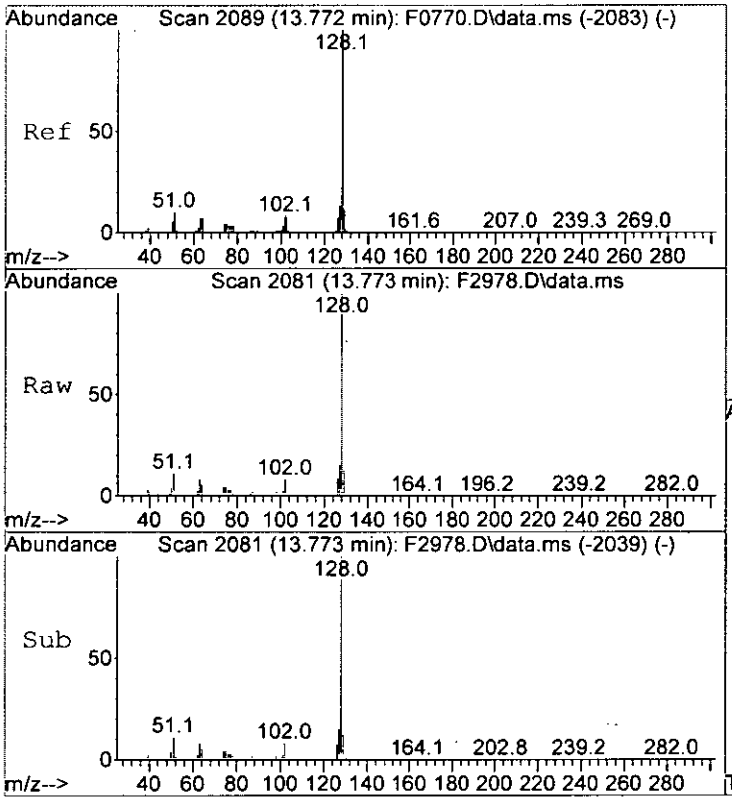


#102
sec-Butylbenzene
Concen: 0.25 ug/L
RT: 11.853 min Scan# 1766
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:105 Resp: 6677

Ion	Ratio	Lower	Upper
105	100		
134	20.7	0.0	39.0
103	10.4	0.0	28.1

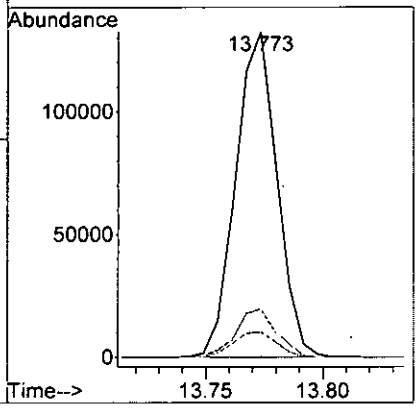




#116
Naphthalen
Concen: 5.32 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. 0.000 min
Lab File: F2978.D
Acq: 9 Oct 2015 3:01 pm

Tgt Ion:128 Resp: 160731

Ion	Ratio	Lower	Upper
128	100		
127	14.8	0.0	32.8
102	7.8	0.0	28.1



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2978.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.288	23	33	46	rBV3	85758	460354	14.64%	1.462%
2	1.562	71	78	79	rBV3	72975	129441	4.12%	0.411%
3	1.764	107	111	117	rVB	112619	141085	4.49%	0.448%
4	1.983	143	147	154	rVB2	30401	40402	1.28%	0.128%
5	2.837	281	287	293	rBV3	28283	63635	2.02%	0.202%
6	2.934	298	303	307	rVV3	60351	113458	3.61%	0.360%
7	3.007	311	315	324	rVB3	25844	57407	1.83%	0.182%
8	3.178	333	343	350	rBV2	29403	65518	2.08%	0.208%
9	4.434	539	549	560	rBV2	70912	203981	6.49%	0.648%
10	5.519	714	727	735	rBV3	358058	942469	29.97%	2.994%
11	5.604	735	741	743	rVV4	27568	64743	2.06%	0.206%
12	5.671	743	752	765	rVB2	724630	1810706	57.58%	5.751%
13	6.031	802	811	819	rBV	505214	1137713	36.18%	3.614%
14	6.110	819	824	831	rVB	49996	105547	3.36%	0.335%
15	6.244	834	846	854	rBV3	46226	118495	3.77%	0.376%
16	6.714	913	923	932	rBV	1181431	2301421	73.18%	7.310%
17	7.701	1079	1085	1087	rBV6	19750	32024	1.02%	0.102%
18	7.732	1087	1090	1097	rVB5	25263	41606	1.32%	0.132%
19	8.348	1182	1191	1195	rBV7	13817	31487	1.00%	0.100%
20	8.488	1205	1214	1222	rBV	1943006	3144772	100.00%	9.989%
21	8.561	1222	1226	1232	rVB2	27795	46227	1.47%	0.147%
22	9.957	1449	1455	1465	rVB	2058560	2743531	87.24%	8.714%
23	10.097	1473	1478	1488	rBV	1926157	2563755	81.52%	8.143%
24	10.213	1491	1497	1503	rVB	2454449	3107017	98.80%	9.869%
25	10.567	1550	1555	1560	rBV	161126	201228	6.40%	0.639%
26	10.896	1602	1609	1614	rBV	267216	331796	10.55%	1.054%
27	11.018	1623	1629	1636	rBV	1677987	2158560	68.64%	6.856%
28	11.250	1662	1667	1673	rVB	232958	282119	8.97%	0.896%
29	11.329	1673	1680	1682	rBV	359598	536323	17.05%	1.704%
30	11.402	1688	1692	1699	rVB	208999	258969	8.23%	0.823%
31	11.567	1709	1719	1727	rVB	799706	967116	30.75%	3.072%
32	11.707	1737	1742	1752	rVB	1658070	2098013	66.71%	6.664%
33	11.987	1783	1788	1794	rBV	2317756	2801615	89.09%	8.899%
34	12.054	1794	1799	1805	rBV	388586	466524	14.83%	1.482%
35	12.213	1820	1825	1833	rVB	727552	888155	28.24%	2.821%

FV 10/14/15

00172

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	12.286	1833	1837	1844	rVB4	22970	38788	1.23%	0.123%
37	12.383	1849	1853	1858	rBV3	26129	38762	1.23%	0.123%
38	12.505	1869	1873	1875	rBV2	32513	39894	1.27%	0.127%
39	12.591	1882	1887	1890	rBV	54851	67379	2.14%	0.214%
40	12.682	1897	1902	1909	rBV2	109950	152695	4.86%	0.485%
41	12.828	1919	1926	1932	rVB5	21132	35214	1.12%	0.112%
42	12.908	1932	1939	1942	rBV3	31754	49156	1.56%	0.156%
43	12.944	1942	1945	1950	rVB	39606	52178	1.66%	0.166%
44	13.158	1973	1980	1985	rBV	45982	53969	1.72%	0.171%
45	13.280	1995	2000	2005	rBV2	129676	159554	5.07%	0.507%
46	13.773	2076	2081	2086	rVB	274481	338522	10.76%	1.075%

Sum of corrected areas: 31483323

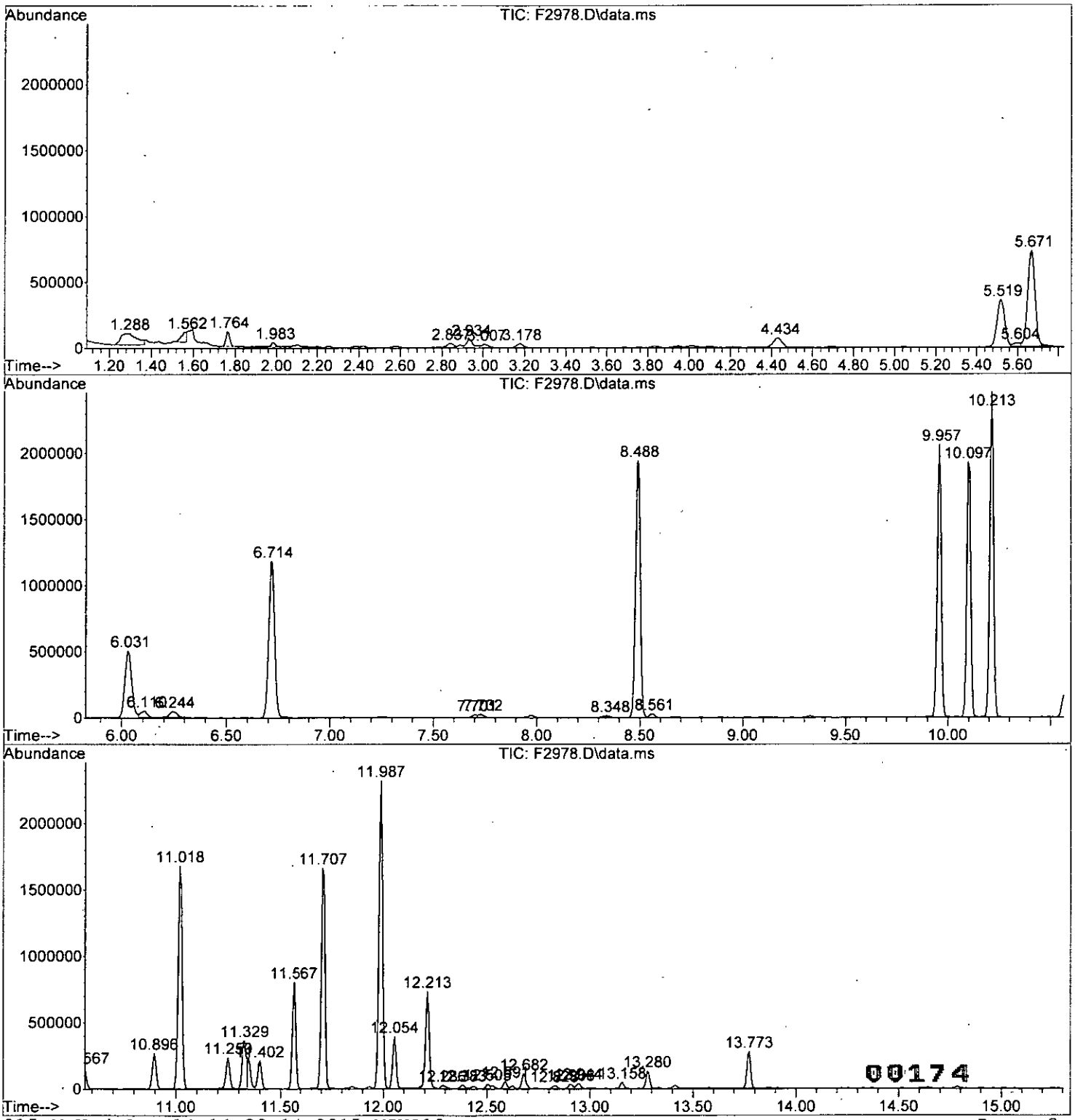
00173

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

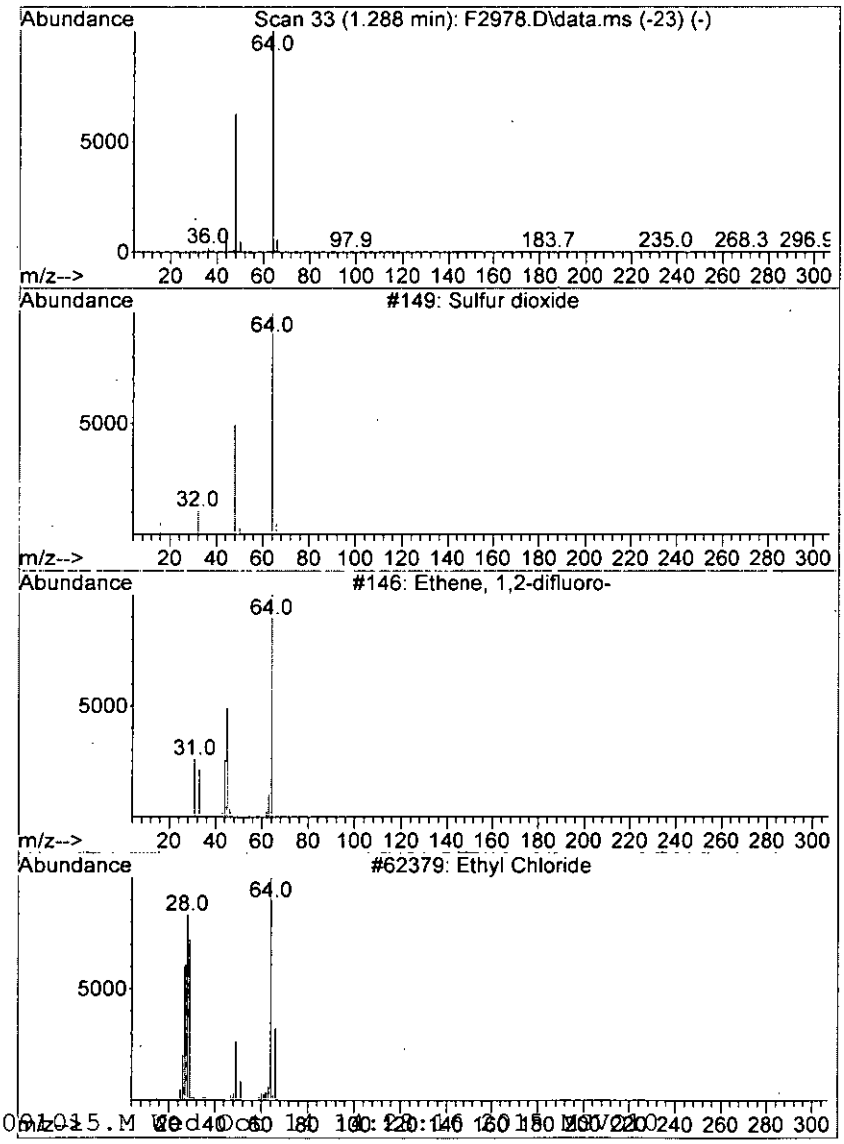
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

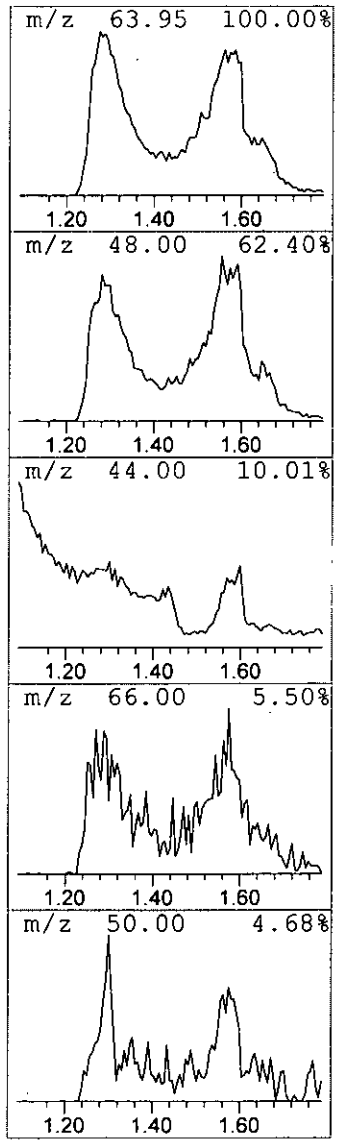
****

Peak Number 1 Sulfur dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.288	12.71 ug/L	460354	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
Q 1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	4
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
4	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	3





00175

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

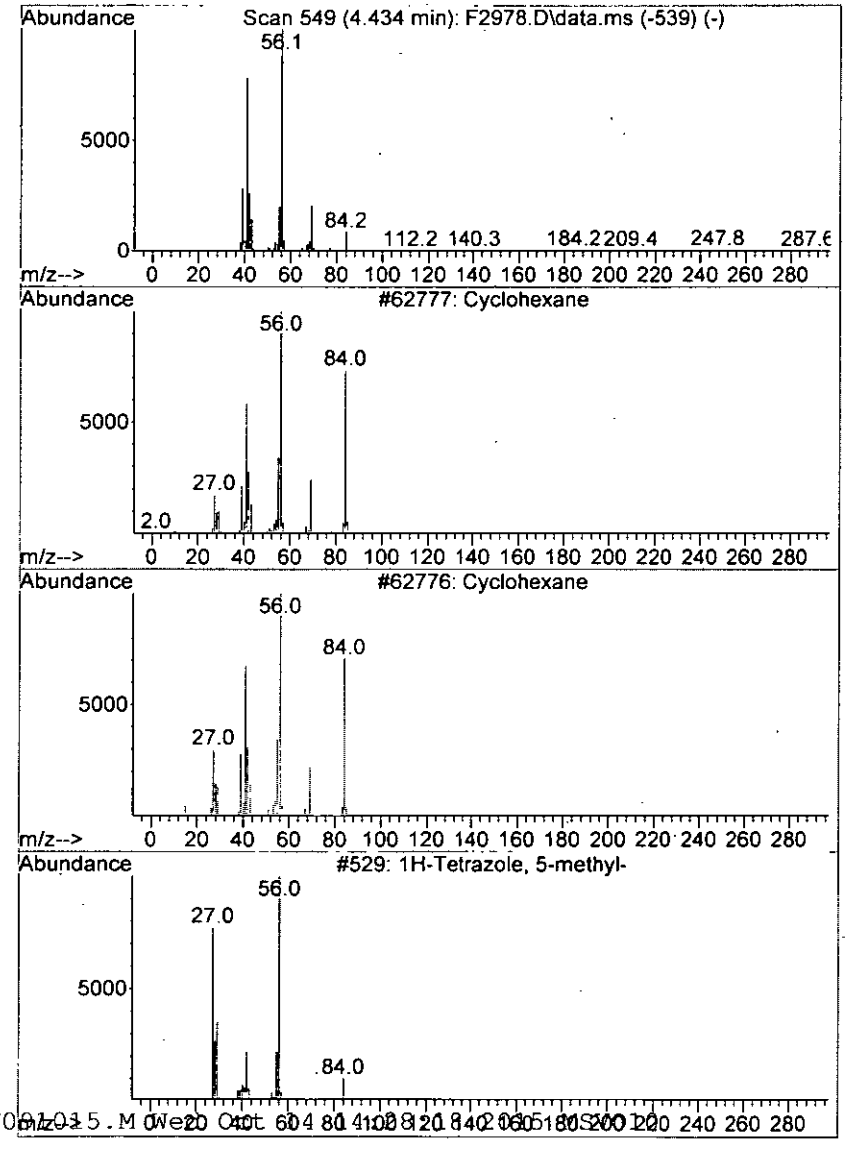
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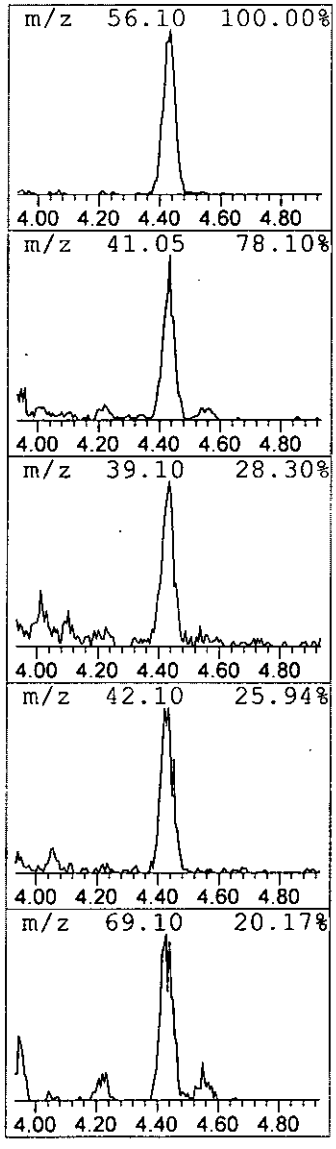
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Peak Number 2 Cyclohexane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.434	5.63 ug/L	203981	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane	84	C6H12	000110-82-7	78
2	Cyclohexane	84	C6H12	000110-82-7	64
3	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	59
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	46
5	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	39





00176

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

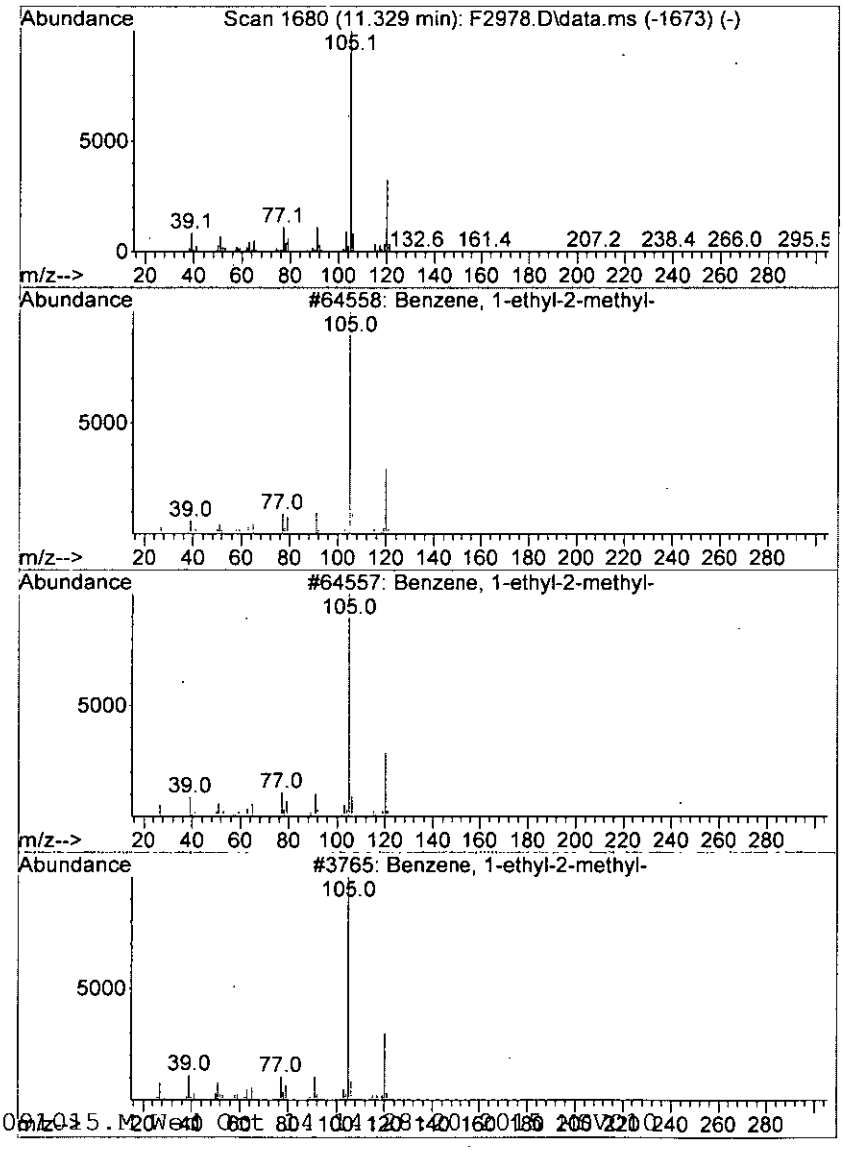
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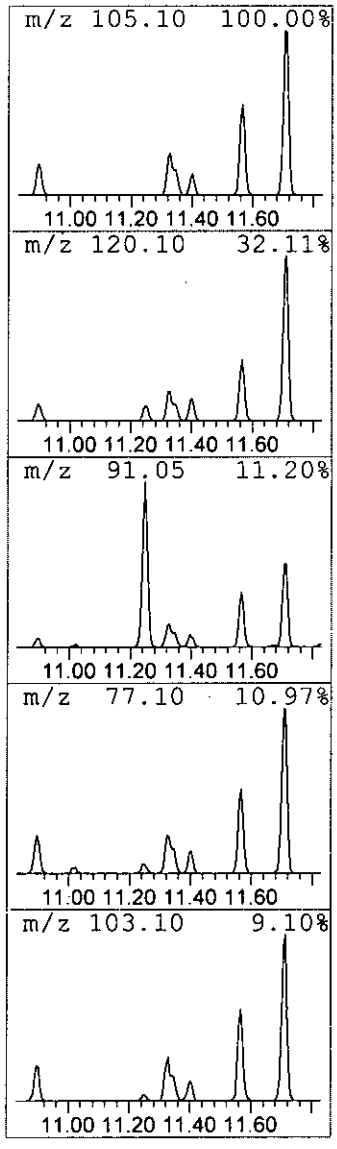
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Peak Number 3 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.329	9.57 ug/L	536323	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	95
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94





00177

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

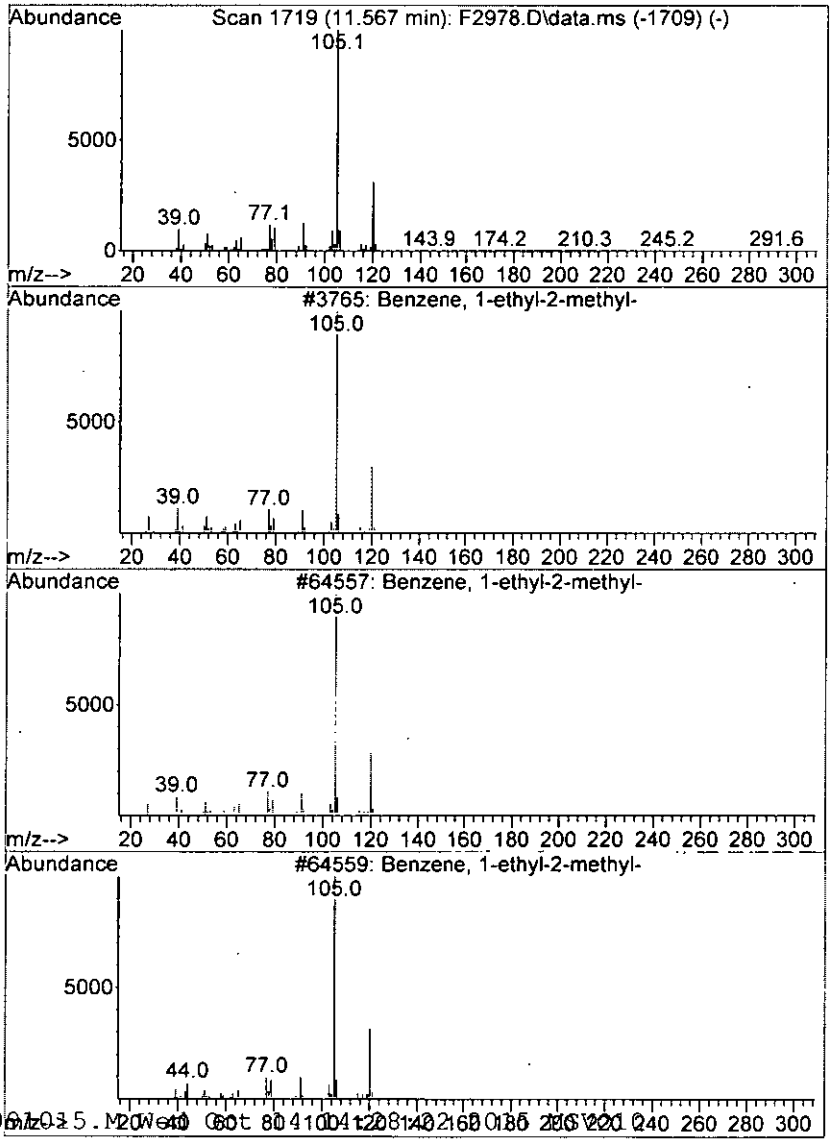
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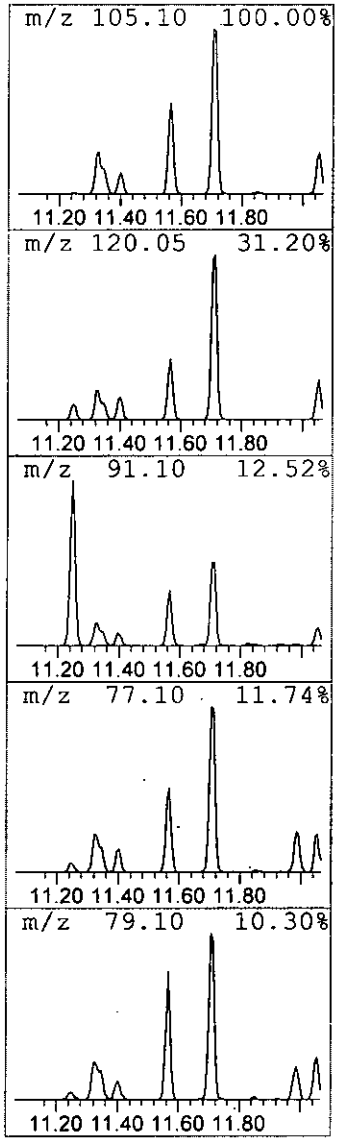
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Peak Number 4 Benzene, 1-ethyl-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.567	17.26 ug/L	967116	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94





00178

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

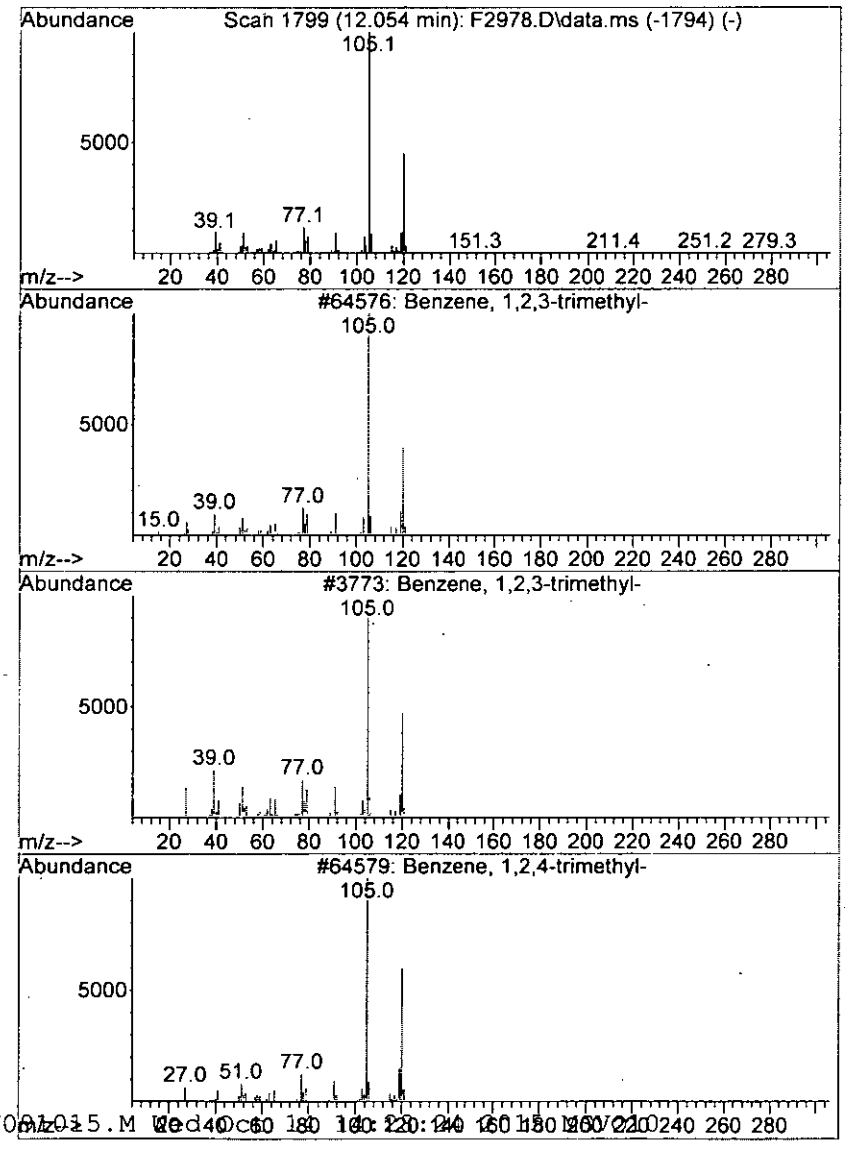
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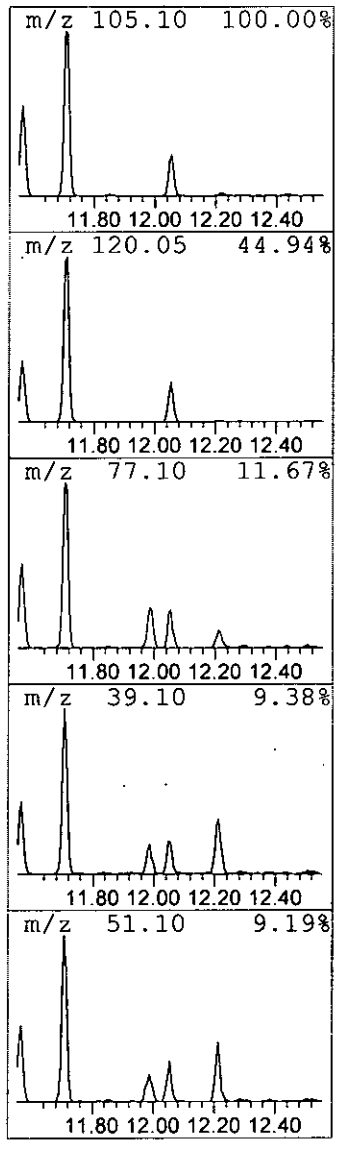
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Peak Number 5 Benzene, 1,2,3-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.054	8.33 ug/L	466524	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	87
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	87
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	87





00179

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2978.D
Acq On : 9 Oct 2015 3:01 pm
Operator : F. Naegler
Sample : R1508244-007|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

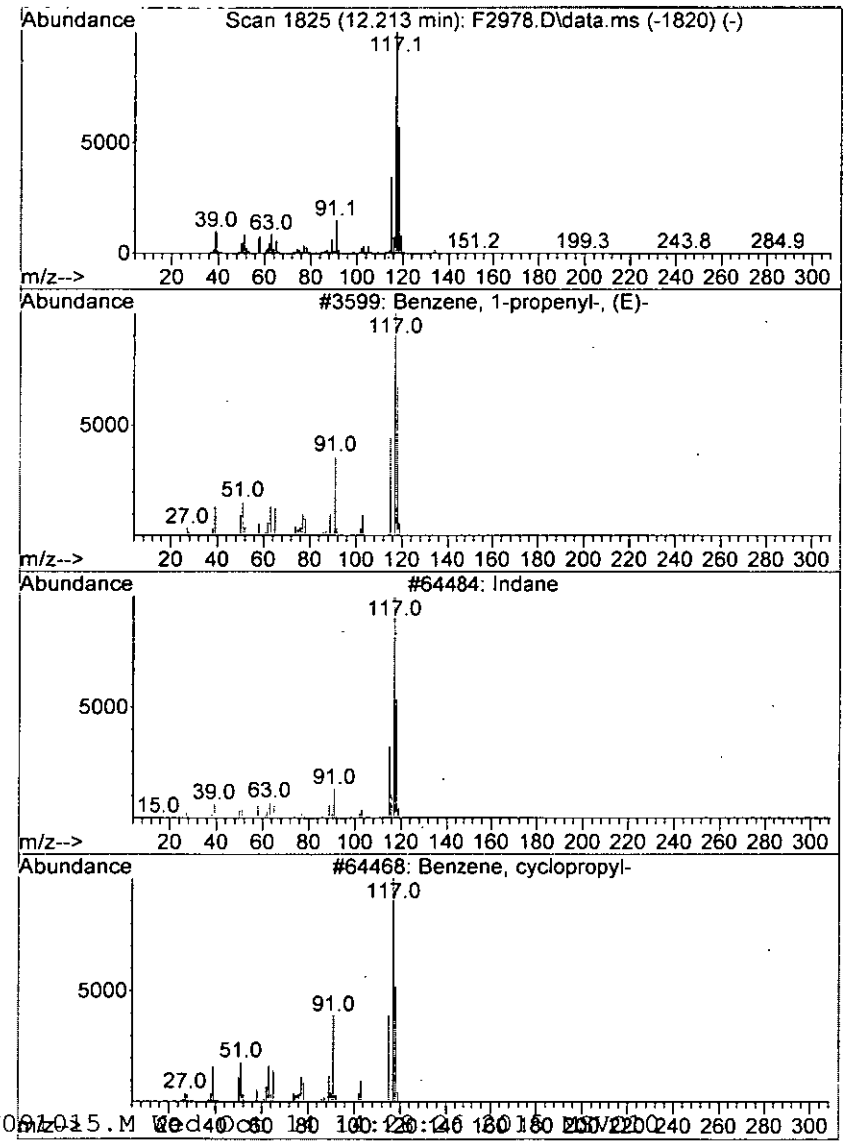
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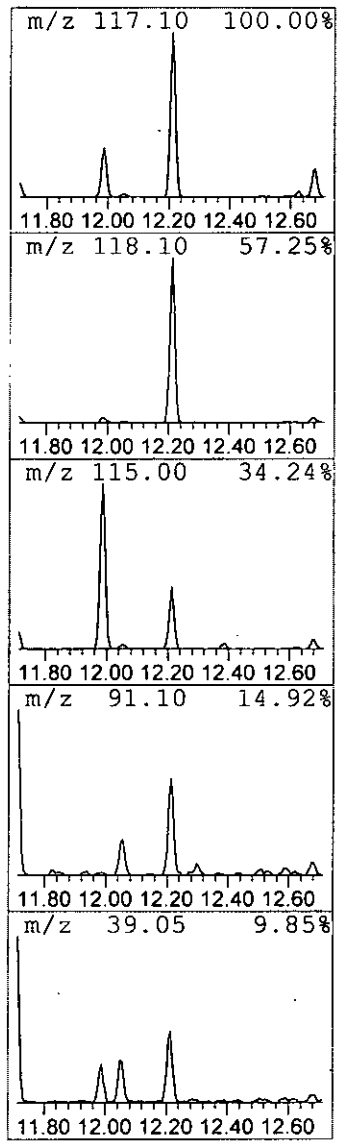
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Peak Number 6 Benzene, 1-propenyl-, (E)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	15.85 ug/L	888155	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-propenyl-, (E)-	118	C9H10	000873-66-5	81
* 2	Indane	118	C9H10	000496-11-7	81
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	74
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	68
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	59





00180

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0935
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:25
Sample Name:	FTMM-53-GW-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1508244-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**7.5**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	J	5.0	5.0	1.3	
71-43-2	Benzene	**2.4**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0935
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:25
Sample Name:	FTMM-53-GW-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1508244-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**13**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**1.0**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**2.5**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.90**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**0.36**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**1.6**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**4.2**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00182

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0935
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:25
Sample Name:	FTMM-53-GW-699MW04-8.0	**Units:**	Percent
Lab Code:	R1508244-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2979.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	75-120	10/9/15 15:25	
Dibromofluoromethane	97	85-115	10/9/15 15:25	
Toluene-d8	100	85-120	10/9/15 15:25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1525

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1508244-008	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.27	**8.1**	JN
	unknown	1.59	**10.0**	J
000078-78-4	Butane, 2-methyl-	1.77	**10.8**	JN
000496-11-7	Indane	12.21	**35.7**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	13.28	**6.1**	JN

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 14:36:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	596480	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	864437	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	763502	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	400479	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	270397	48.48	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.96%				
46) surr1,1,2-dichloroetha...	6.031	65	366821	46.39	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 92.78%				
64) SURR3,Toluene-d8	8.494	98	1016558	50.01	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.02%				
69) SURR2,BFB	11.018	95	395113	47.06	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.12%				
Target Compounds							Qvalue
15) Acetone	2.416	43	10463	2.05	ug/L		92
47) Benzene	6.104	78	55241	2.39	ug/L		85
65) Toluene	8.567	91	21732	0.90	ug/L		97
81) Ethylbenzene	10.103	106	107376	12.72	ug/L	#	84
82) (m+p)Xylene	10.213	106	3586	0.36	ug/L	#	86
83) o-Xylene	10.567	106	43056	4.16	ug/L		98
87) Isopropylbenzene	10.896	105	25376	1.00	ug/L		92
94) n-Propylbenzene	11.250	91	46186	1.60	ug/L		99
100) 1,2,4-Trimethylbenzene	11.707	105	155649	7.46	ug/L		93
116) Naphthalen	13.773	128	70070	2.48	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

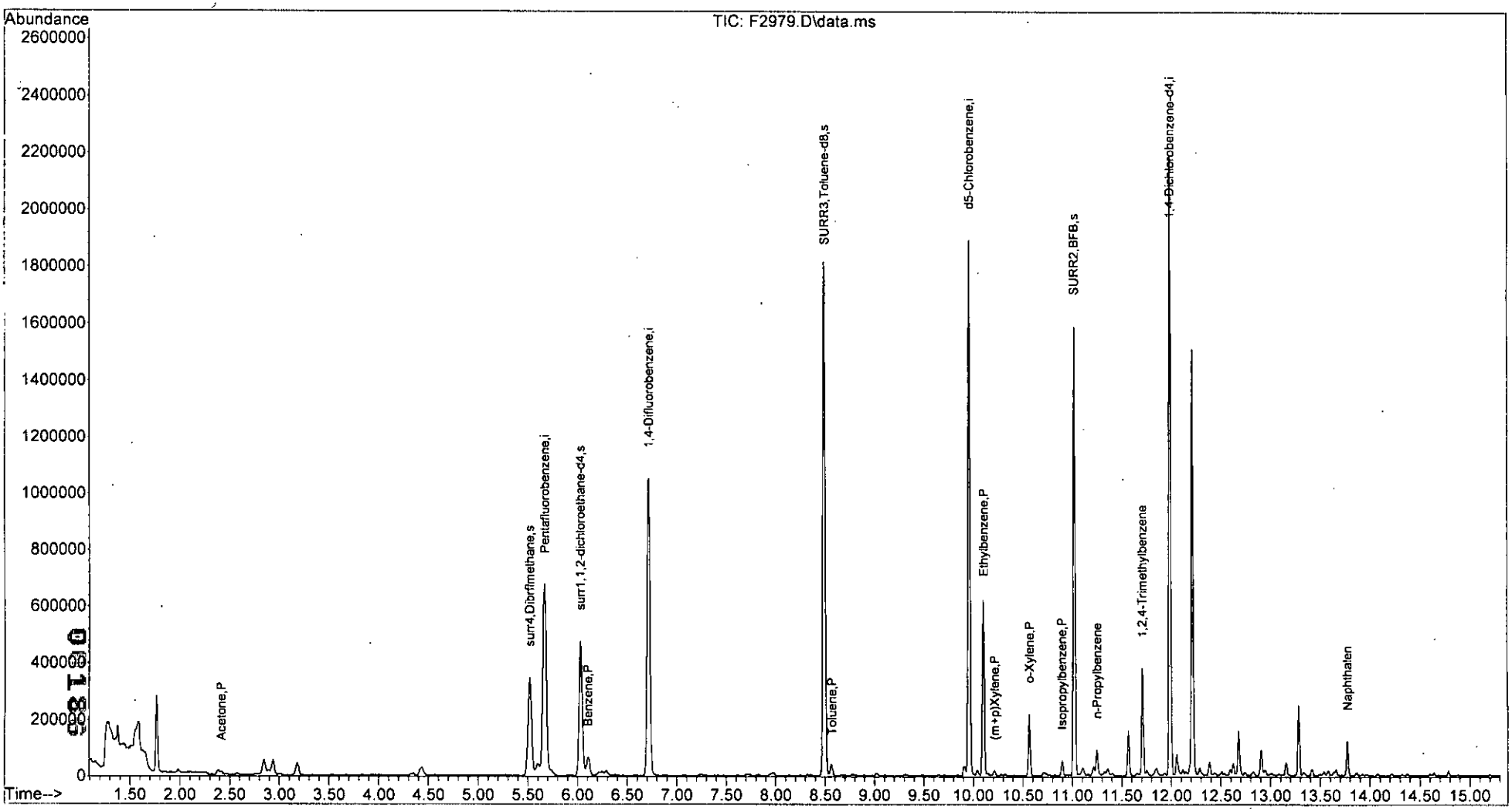
FV
10/14/15

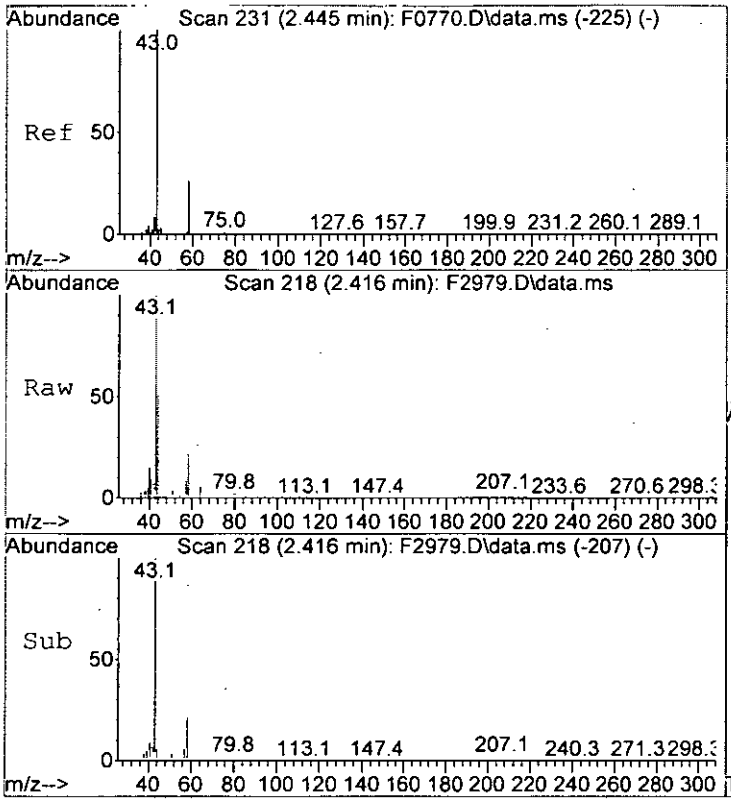
00185

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 14:36:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

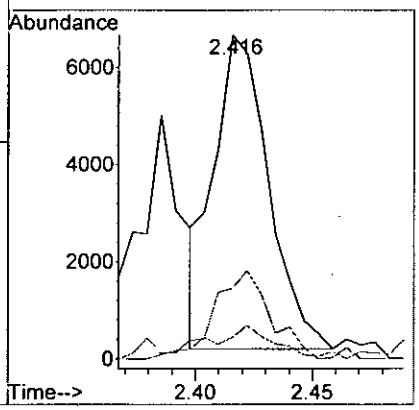


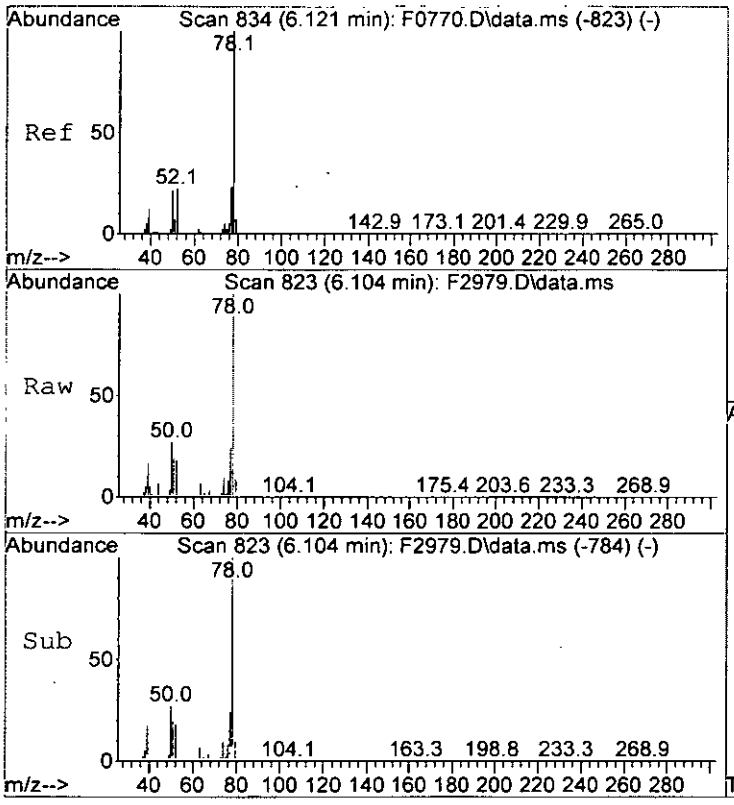


#15
Acetone
Concen: 2.05 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion: 43 Resp: 10463

Ion	Ratio	Lower	Upper
43	100		
58	21.7	6.1	46.1
42	6.6	0.0	28.3

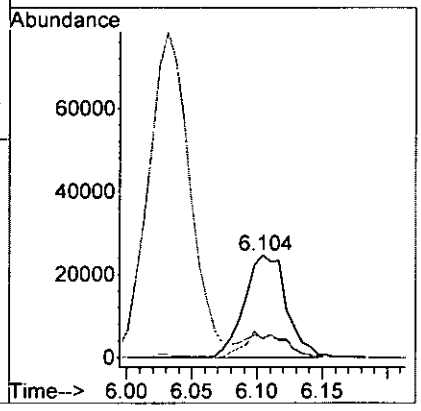


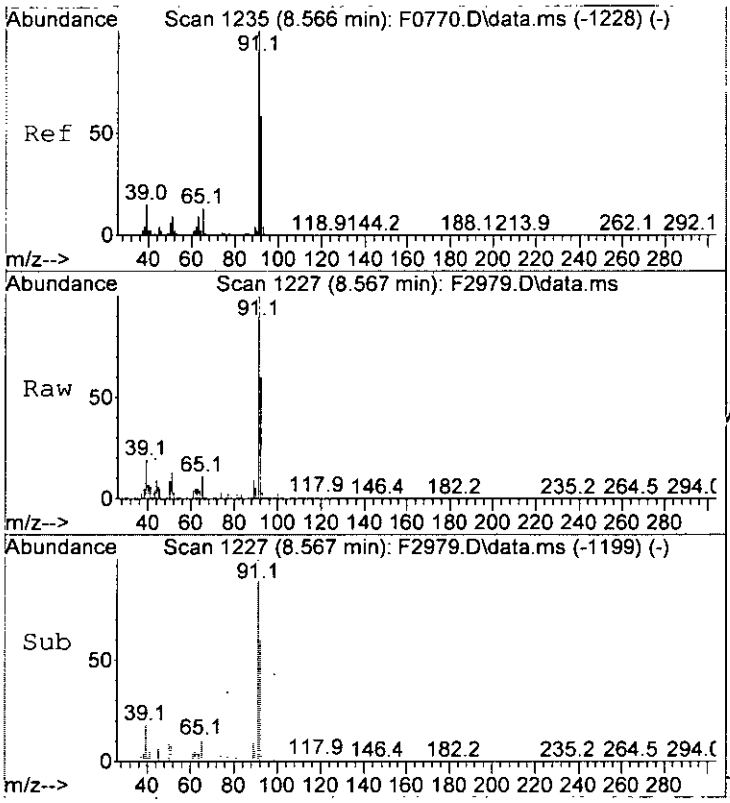


#47
Benzene
Concen: 2.39 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.006 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion: 78 Resp: 55241

Ion	Ratio	Lower	Upper
78	100		
51	18.7	0.0	27.4
52	18.2	2.5	42.5

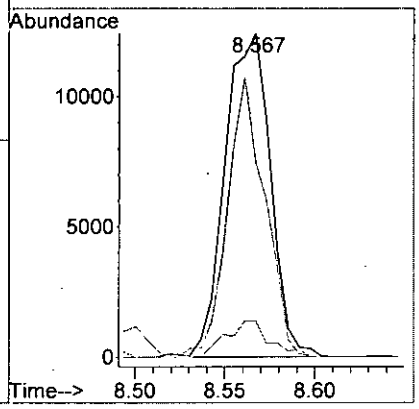


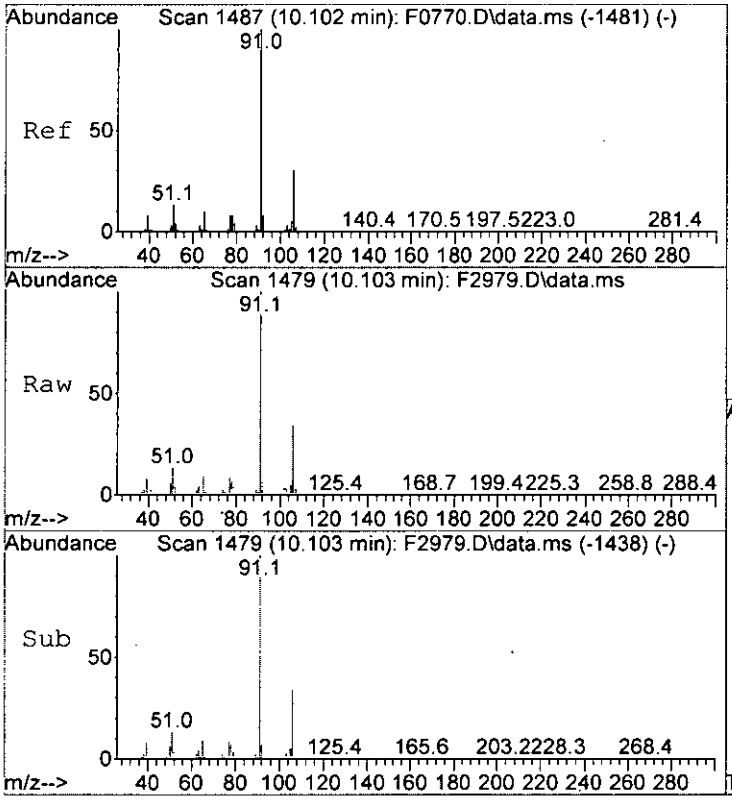


#65
Toluene
Concen: 0.90 ug/L
RT: 8.567 min Scan# 1227
Delta R.T. 0.000 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion: 91 Resp: 21732

Ion	Ratio	Lower	Upper
91	100		
92	60.2	38.0	78.0
65	11.0	0.0	33.0

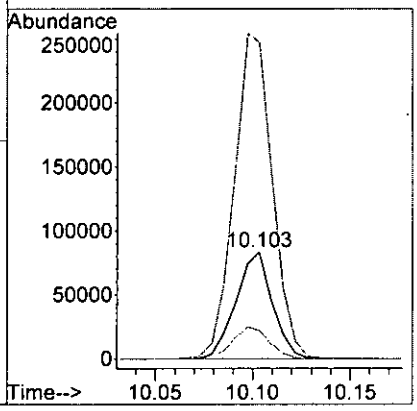




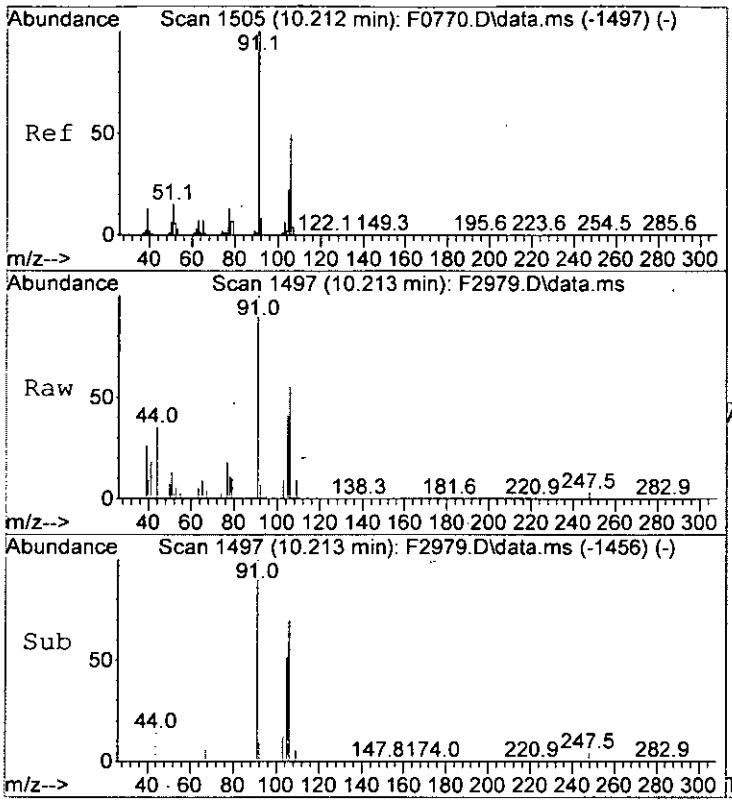
#81
Ethylbenzene
Concen: 12.72 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. 0.000 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion:106 Resp: 107376

Ion	Ratio	Lower	Upper
106	100		
91	296.5	311.8	351.8#
65	26.3	12.0	52.0



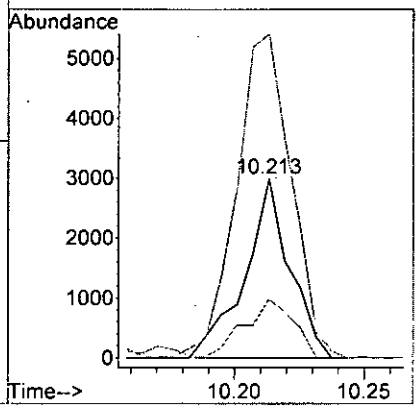
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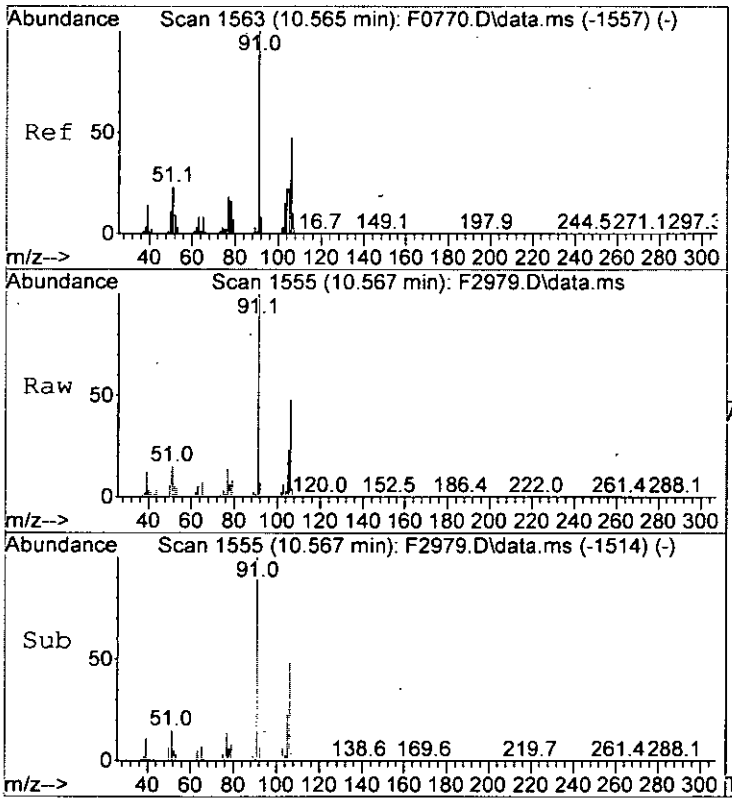


#82
(m+p)Xylene
Concen: 0.36 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. 0.000 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion:106 Resp: 3586

Ion	Ratio	Lower	Upper
106	100		
91	180.7	183.1	223.1#
77	32.6	6.9	46.9

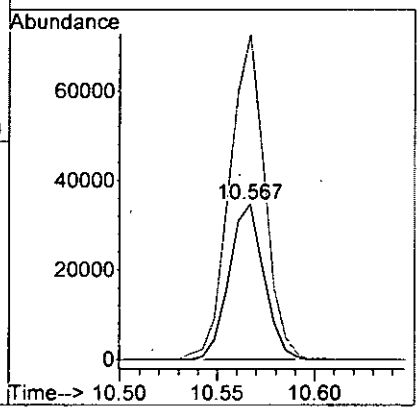




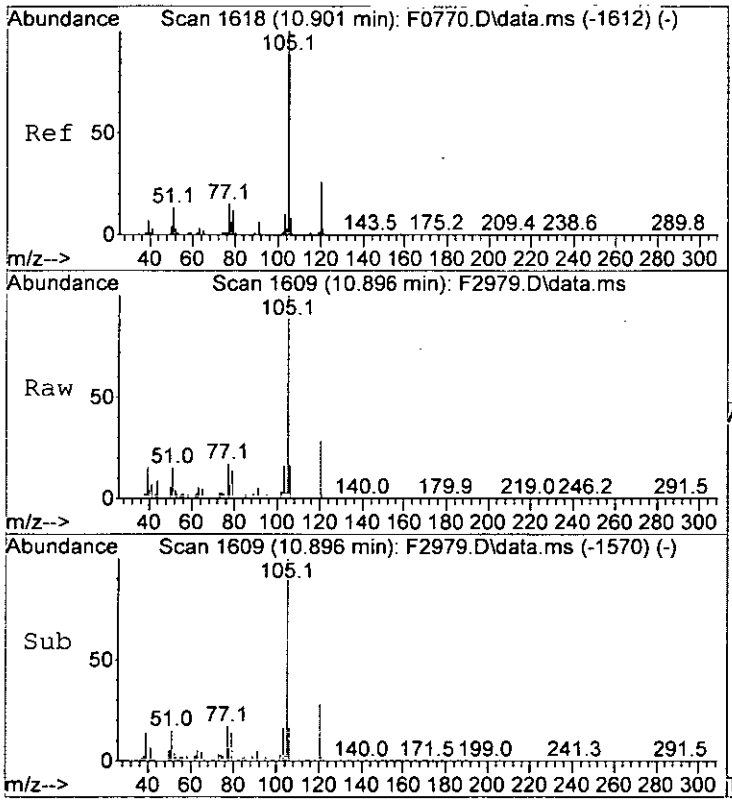
#83
o-Xylene
Concen: 4.16 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. 0.000 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion:106 Resp: 43056

Ion	Ratio	Lower	Upper
106	100		
91	209.4	192.0	232.0



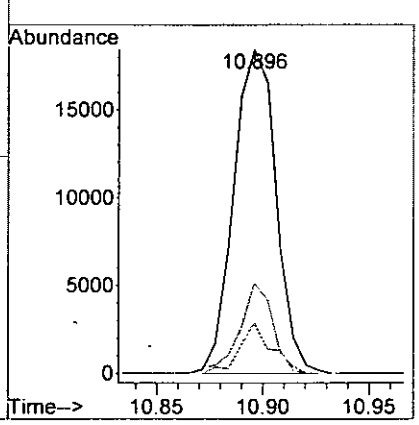
00189

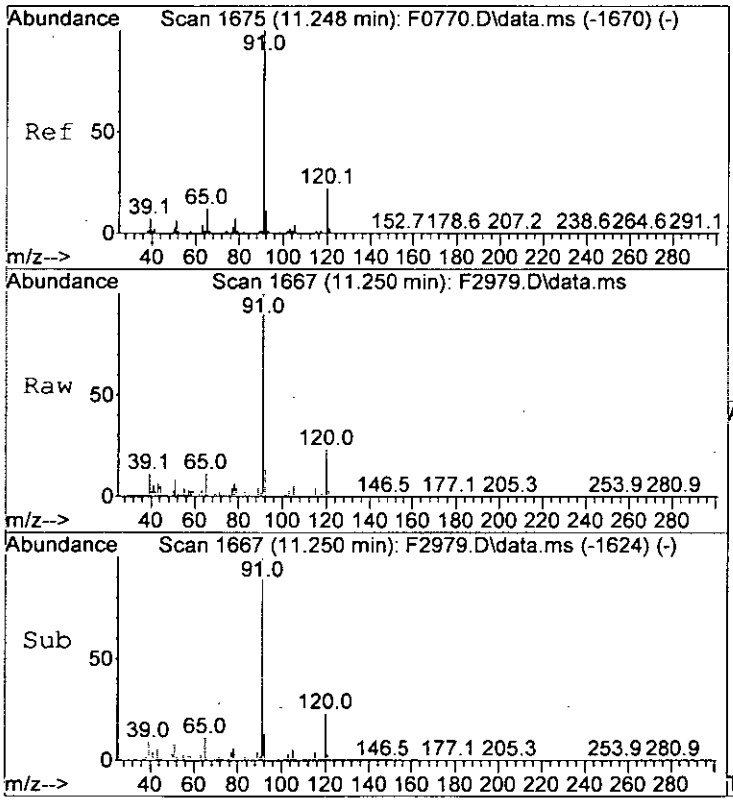


#87
Isopropylbenzene
Concen: 1.00 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion:105 Resp: 25376

Ion	Ratio	Lower	Upper
105	100		
120	27.7	5.8	45.8
106	15.6	0.0	28.3

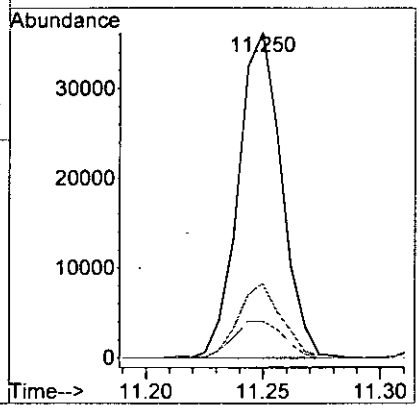


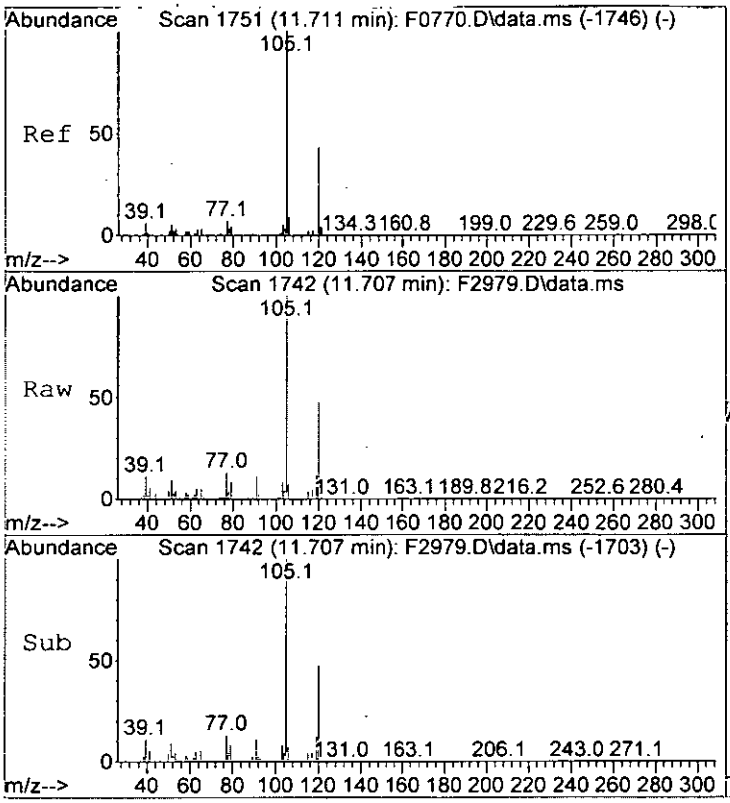


#94
n-Propylbenzene
Concen: 1.60 ug/L
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion: 91 Resp: 46186

Ion	Ratio	Lower	Upper
91	100		
120	22.9	2.1	42.1
65	11.3	0.0	31.7

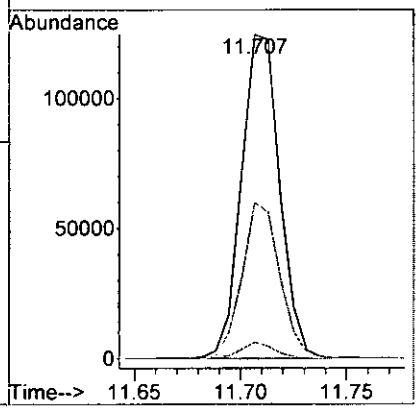


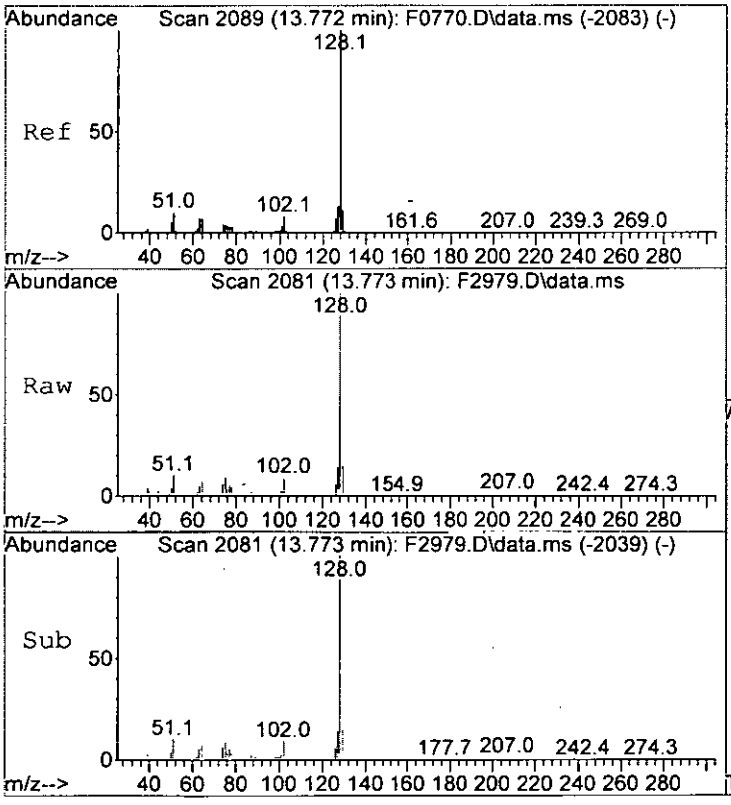


#100
1,2,4-Trimethylbenzene
Concen: 7.46 ug/L
RT: 11.707 min Scan# 1742
Delta R.T. -0.006 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion:105 Resp: 155649

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.4	63.4
65	5.0	0.0	22.7

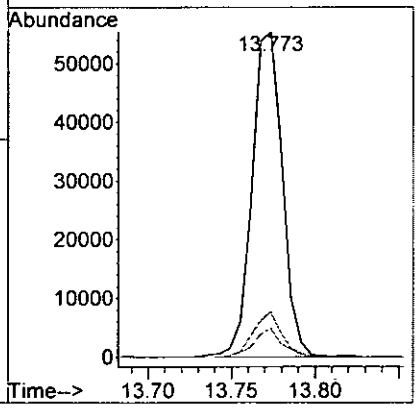




#116
Naphthalen
Concen: 2.48 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. 0.000 min
Lab File: F2979.D
Acq: 9 Oct 2015 3:25 pm

Tgt Ion:128 Resp: 70070

Ion	Ratio	Lower	Upper
128	100		
127	13.7	0.0	32.8
102	8.8	0.0	28.1



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	25	30	31	rBV3	157621	259926	8.88%	1.150%
2	1.380	45	48	51	rVB2	69726	73861	2.52%	0.327%
3	1.587	72	82	87	rVB4	103519	320902	10.96%	1.419%
4	1.770	107	112	118	rVB	270165	347808	11.88%	1.538%
5	2.385	208	213	217	rBV4	18091	38194	1.30%	0.169%
6	2.843	278	288	294	rBV	52845	116559	3.98%	0.516%
7	2.934	298	303	311	rVB	53601	104847	3.58%	0.464%
8	3.178	333	343	350	rBV2	44427	95265	3.25%	0.421%
9	4.434	540	549	559	rVB5	28051	78178	2.67%	0.346%
10	5.519	716	727	735	rBV	346498	879697	30.05%	3.891%
11	5.604	735	741	743	rVV4	32809	71336	2.44%	0.316%
12	5.671	743	752	761	rVB	659240	1613198	55.11%	7.135%
13	6.031	800	811	819	rBV	475186	1050600	35.89%	4.647%
14	6.104	819	823	832	rVB3	64819	146086	4.99%	0.646%
15	6.287	850	853	860	rVB4	16738	29885	1.02%	0.132%
16	6.720	915	924	942	rBV	1051028	2135397	72.96%	9.445%
17	8.488	1205	1214	1222	rBV	1815500	2926993	100.00%	12.946%
18	8.561	1222	1226	1235	rVB3	40912	67645	2.31%	0.299%
19	9.908	1441	1447	1450	rBV2	32350	58858	2.01%	0.260%
20	9.957	1450	1455	1464	rVB	1889766	2509531	85.74%	11.100%
21	10.097	1473	1478	1484	rBV	619758	830566	28.38%	3.674%
22	10.567	1548	1555	1560	rBV	219424	279331	9.54%	1.236%
23	10.896	1603	1609	1614	rBV	54356	73461	2.51%	0.325%
24	11.018	1624	1629	1635	rBV	1585799	1985682	67.84%	8.783%
25	11.103	1638	1643	1649	rVB4	24678	43034	1.47%	0.190%
26	11.213	1655	1661	1663	rBV3	29908	41412	1.41%	0.183%
27	11.250	1663	1667	1673	rVB	89959	120509	4.12%	0.533%
28	11.567	1714	1719	1726	rVB	161269	194099	6.63%	0.859%
29	11.707	1737	1742	1747	rBV	375613	460855	15.74%	2.038%
30	11.847	1757	1765	1771	rBV7	25053	53444	1.83%	0.236%
31	11.987	1782	1788	1794	rBV	2187026	2588977	88.45%	11.451%
32	12.054	1794	1799	1806	rBV	73938	110918	3.79%	0.491%
33	12.213	1817	1825	1833	rVV	1506124	1849325	63.18%	8.180%
34	12.286	1833	1837	1844	rVB3	27183	41914	1.43%	0.185%
35	12.383	1849	1853	1857	rBV2	46918	61842	2.11%	0.274%

FV 10/14/15

00192

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	12.621	1889	1892	1896	rVV	43538	56302	1.92%	0.249%
37	12.676	1897	1901	1909	rVB	157508	202144	6.91%	0.894%
38	12.902	1933	1938	1943	rVV	89796	126567	4.32%	0.560%
39	13.158	1976	1980	1984	rBV	43813	56925	1.94%	0.252%
40	13.280	1995	2000	2005	rVB	247705	316052	10.80%	1.398%
41	13.414	2018	2022	2026	rBV2	22878	31108	1.06%	0.138%
42	13.773	2073	2081	2087	rBV	122644	159149	5.44%	0.704%

Sum of corrected areas: 22608382

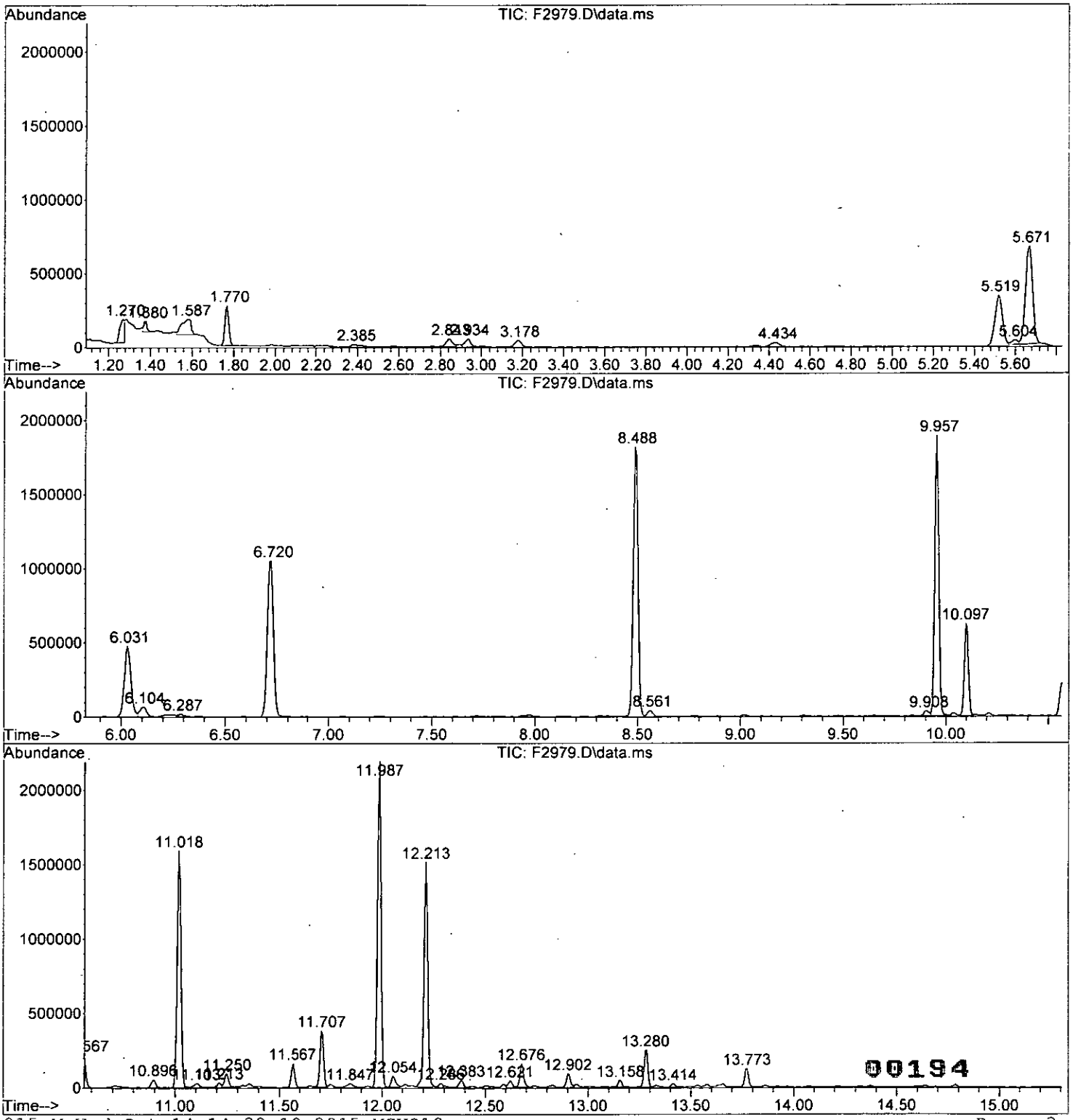
00193

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00194

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

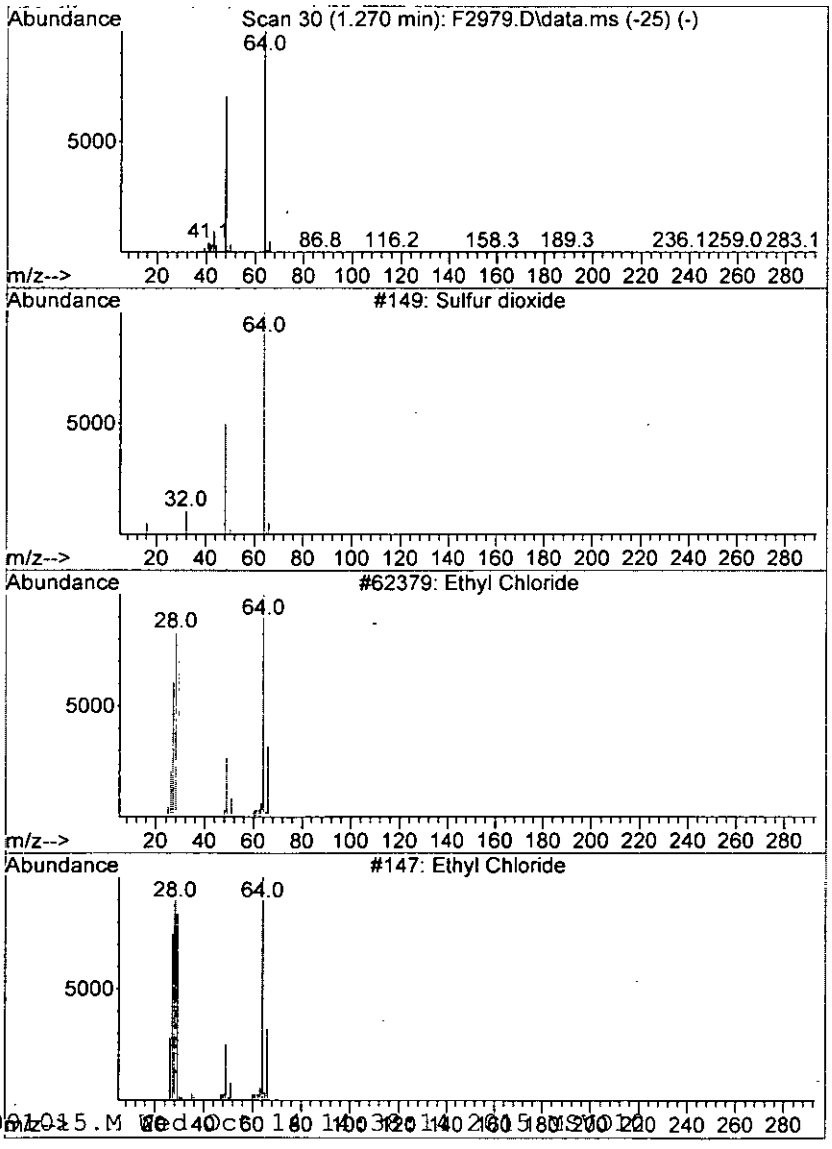
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TIC Integration Parameters: LSCINT.P

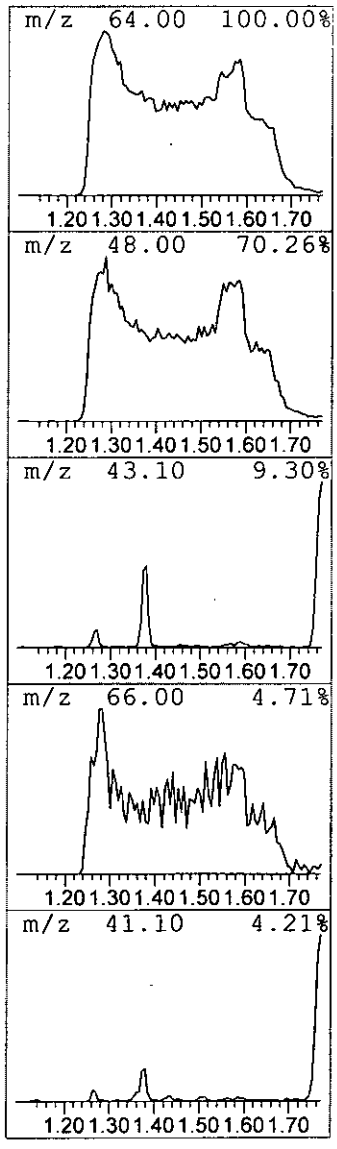
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Peak Number 1 Sulfur dioxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.270	8.06 ug/L	259926	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
4	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	3
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	3





00195

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

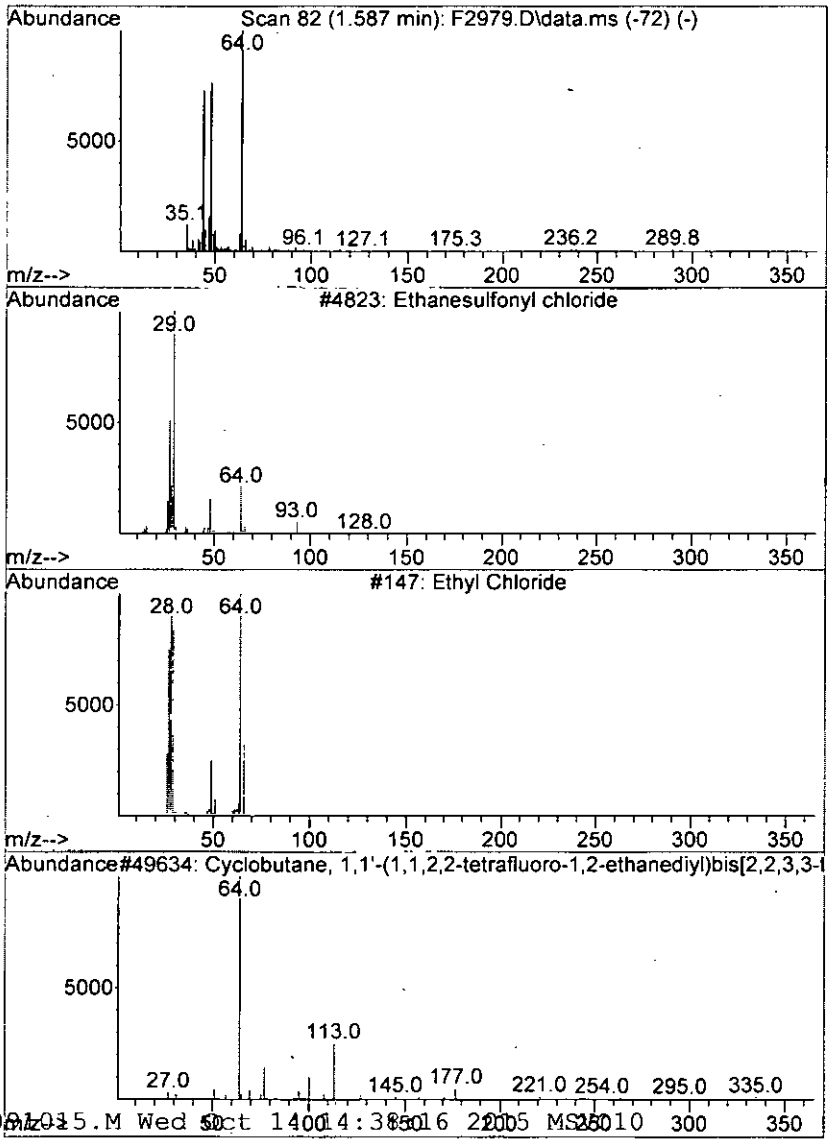
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

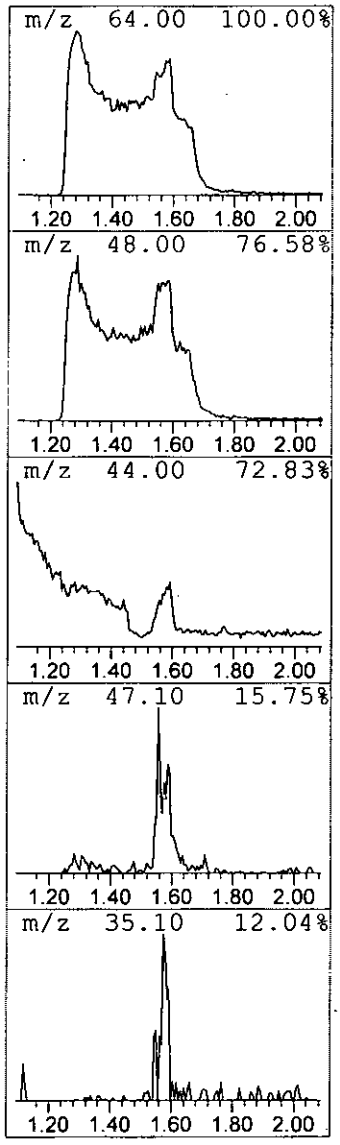
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Peak Number 2 Ethanesulfonyl chloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.587	9.95 ug/L	320902	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanesulfonyl chloride	128	C2H5ClO2S	000594-44-5	40
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	9
3	Cyclobutane, 1,1'-(1,1,2,2-tetra...	354	C10H6F12	035207-94-4	9
4	Ethanol, 2-fluoro-	64	C2H5FO	000371-62-0	5
5	Sulfur dioxide	64	O2S	007446-09-5	4





00196

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

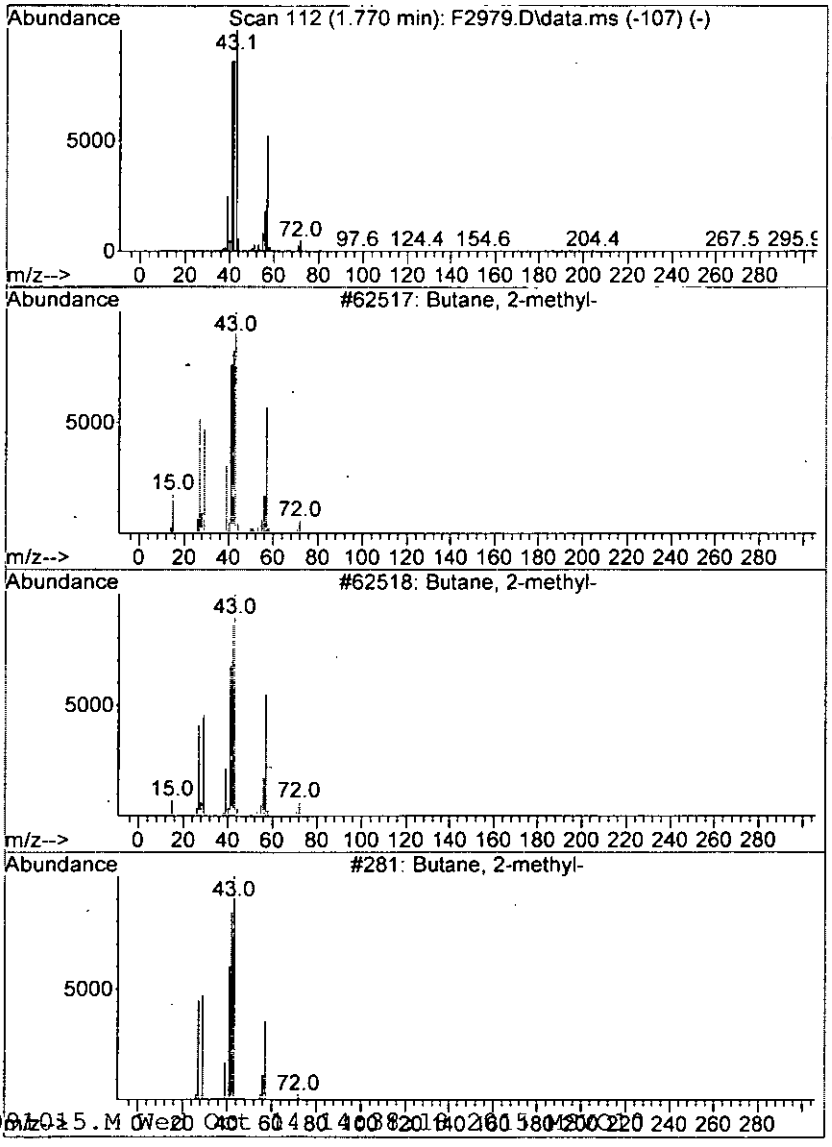
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

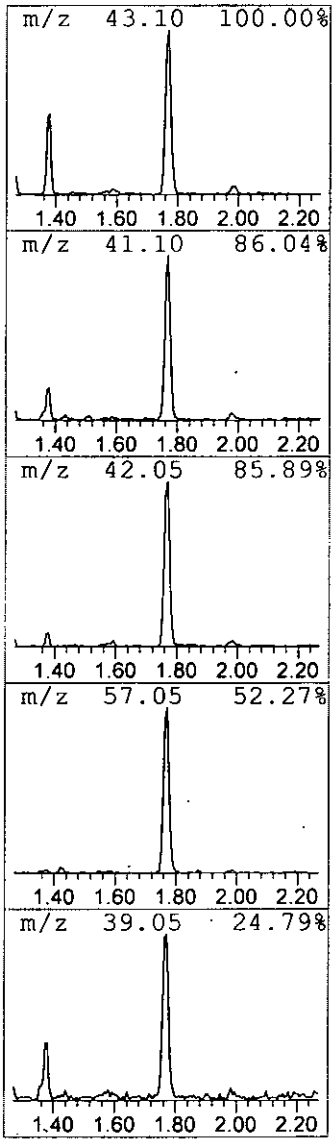
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Peak Number 3 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.770	10.78 ug/L	347808	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	Butane, 2-methyl-	72	C5H12	000078-78-4	72
4	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	9
5	Bicyclo[3.3.1]nonan-2-one, 9-iso...	178	C12H18O	018346-78-6	9





00197

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

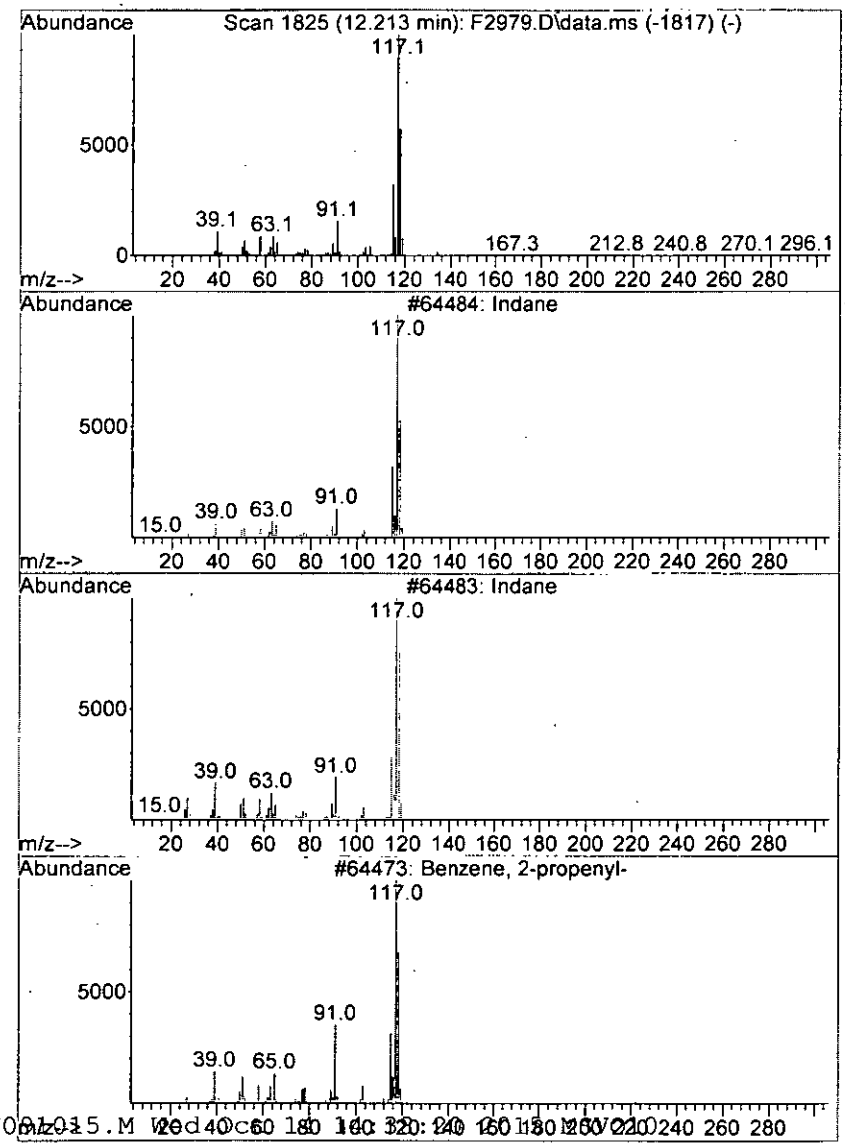
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

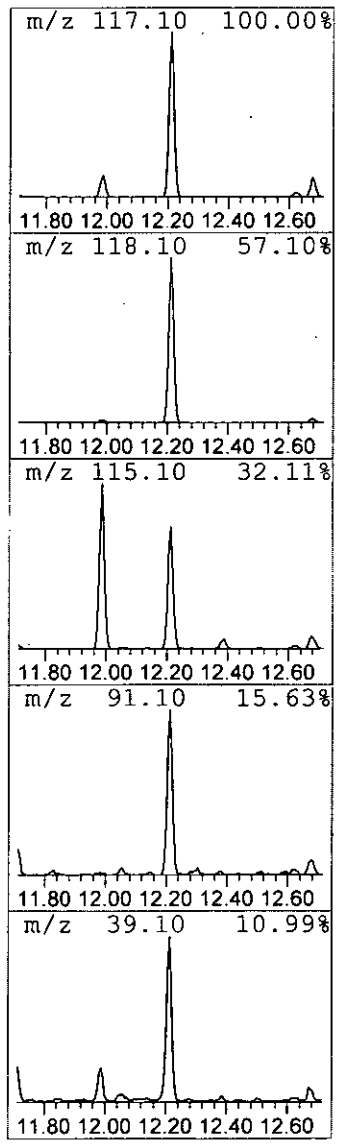
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Peak Number 4 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	35.72 ug/L	1849330	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Indane	118	C9H10	000496-11-7	90
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	81
4	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	64
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	60





00198

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2979.D
Acq On : 9 Oct 2015 3:25 pm
Operator : F. Naegler
Sample : R1508244-008|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

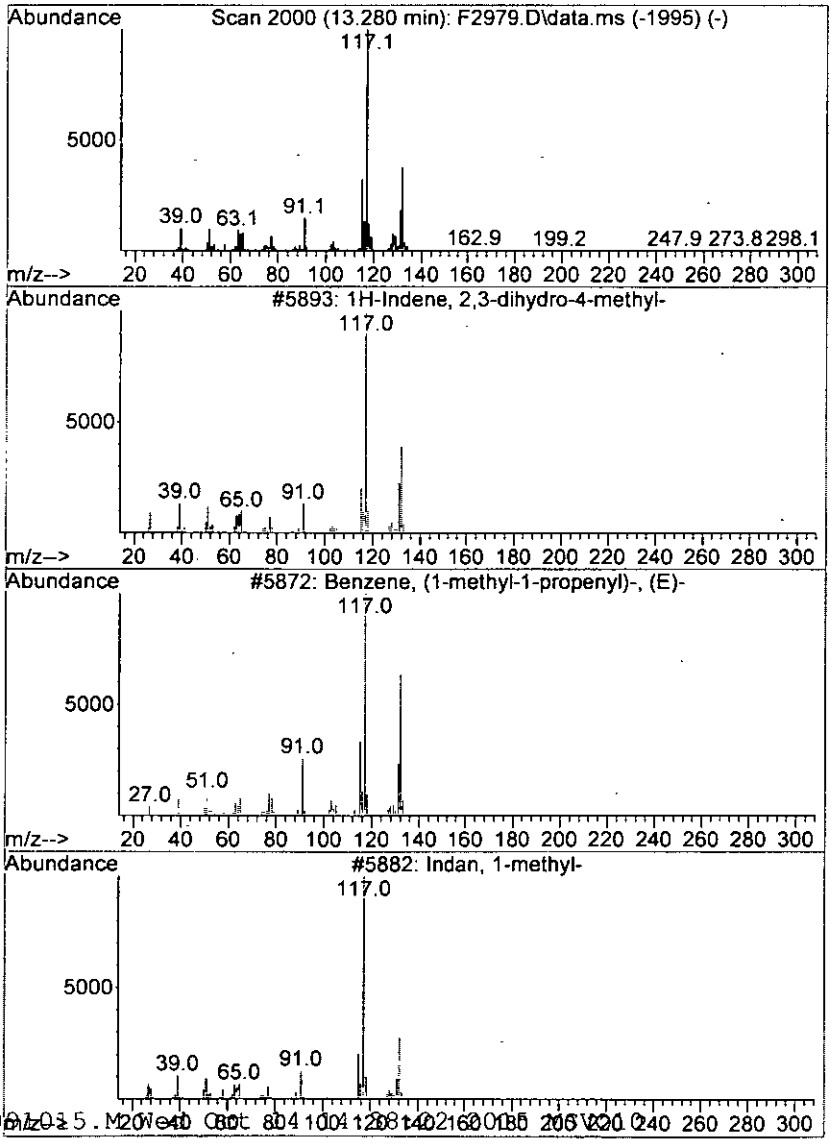
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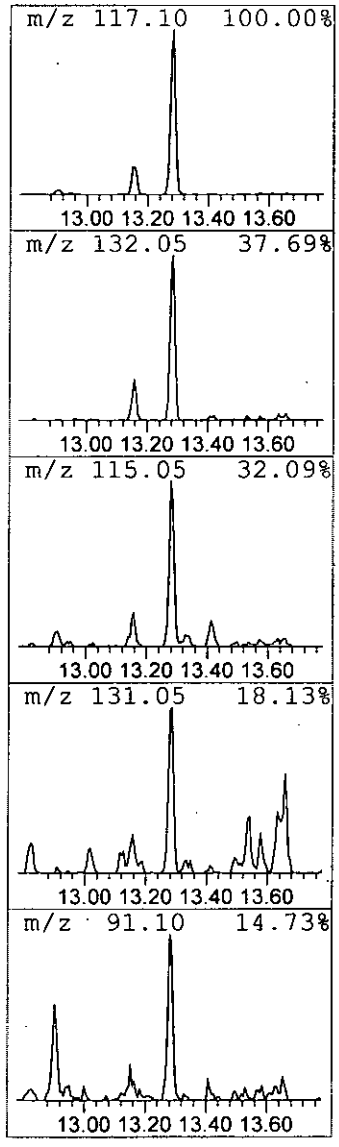
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Peak Number 5 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.280	6.10 ug/L	316052	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	94
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	94
3	Indan, 1-methyl-	132	C10H12	000767-58-8	90
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	90
5	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	90





00139

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0940
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:49
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1508244-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	**3.0**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	**0.37**	J	5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0940
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:49
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1508244-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.42**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**7.1**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.27**	J	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.38**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**0.45**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**2.7**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**1.2**	J	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**0.22**	J	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0940
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 15:49
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	Percent
Lab Code:	R1508244-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2980.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	75-120	10/9/15 15:49	
Dibromofluoromethane	95	85-115	10/9/15 15:49	
Toluene-d8	99	85-120	10/9/15 15:49	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1549

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1508244-009	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.76	**19.2**	J
000079-29-8	Butane, 2,3-dimethyl-	2.84	**16.8**	JN
	unknown	2.89	**7.8**	J
000096-14-0	Pentane, 3-methyl-	3.18	**13.0**	JN
	unknown	4.43	**16.0**	J
000110-82-7	Cyclohexane	5.60	**6.0**	JN
	unknown	12.21	**10.1**	J
000767-58-8	Indan, 1-methyl-	12.68	**10.6**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	13.16	**9.1**	JN
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	13.29	**22.4**	JN

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 14:52:13 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	660285	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	950948	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	853993	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	439428	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	290508	47.35	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.70%			
46) surr1,1,2-dichloroetha...	6.031	65	402568	46.28	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 92.56%			
64) SURR3,Toluene-d8	8.488	98	1105901	49.45	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.90%			
69) SURR2,BFB	11.018	95	418888	45.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.72%			
Target Compounds						Qvalue
3) Chloromethane	1.300	50	3325	0.42	ug/L	92
5) Bromomethane	1.617	94	2037	0.37	ug/L	82
15) Acetone	2.416	43	7272m	1.29	ug/L	
47) Benzene	6.110	78	75962	2.98	ug/L	84
65) Toluene	8.561	91	10106	0.38	ug/L	87
82) (m+p)Xylene	10.207	106	4973	0.45	ug/L	94
87) Isopropylbenzene	10.896	105	202322	7.11	ug/L	100
94) n-Propylbenzene	11.249	91	85730	2.71	ug/L	98
99) tert-Butylbenzene	11.670	119	4208	0.22	ug/L	75
102) sec-Butylbenzene	11.853	105	31973	1.15	ug/L	96
116) Naphthalen	13.773	128	8336	0.27	ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

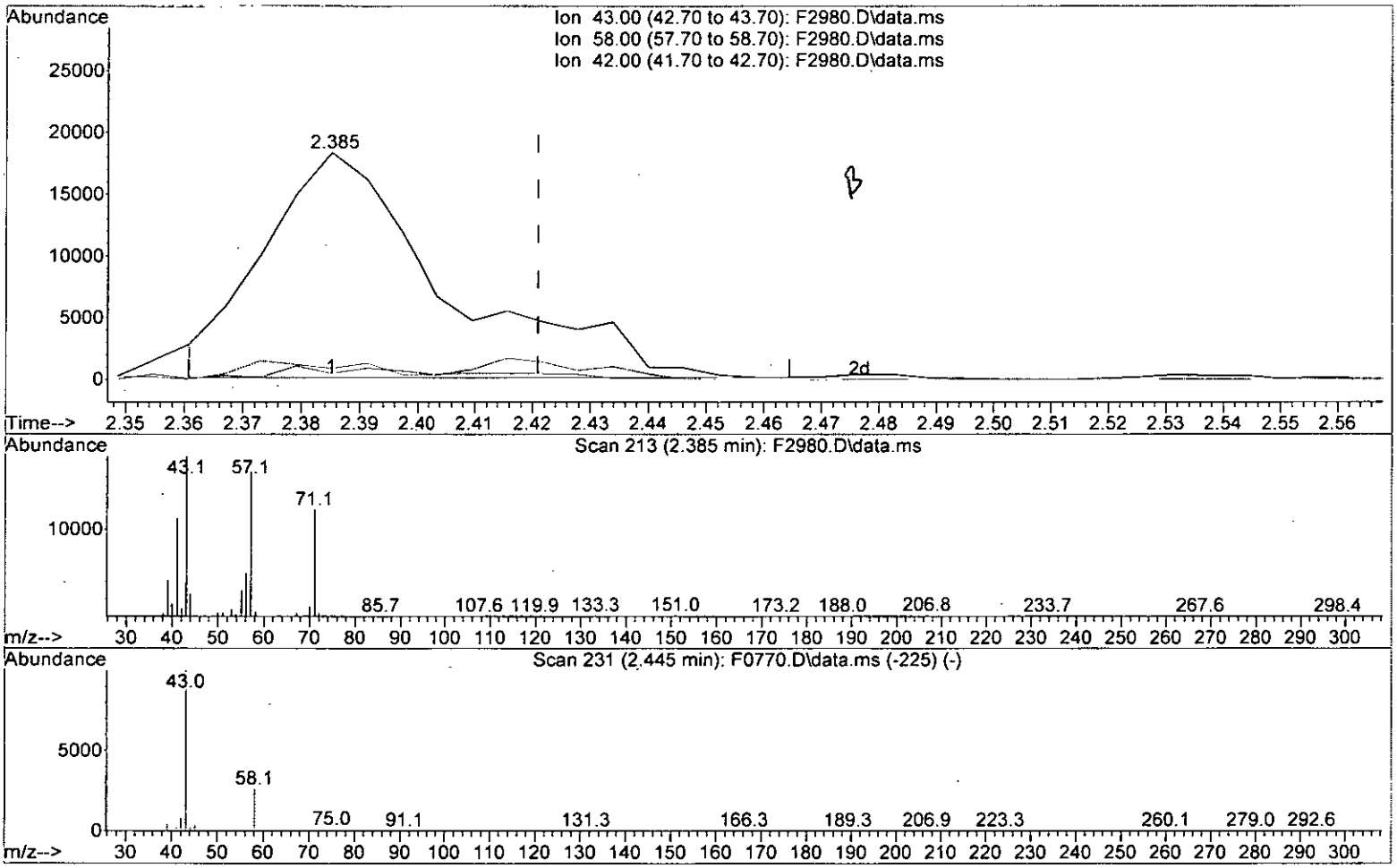
FW 10/14/15

00204

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 09 16:04:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2980.D\data.ms

(15) Acetone (P)

2.385min (-0.036) 6.96 ug/L

response 39300

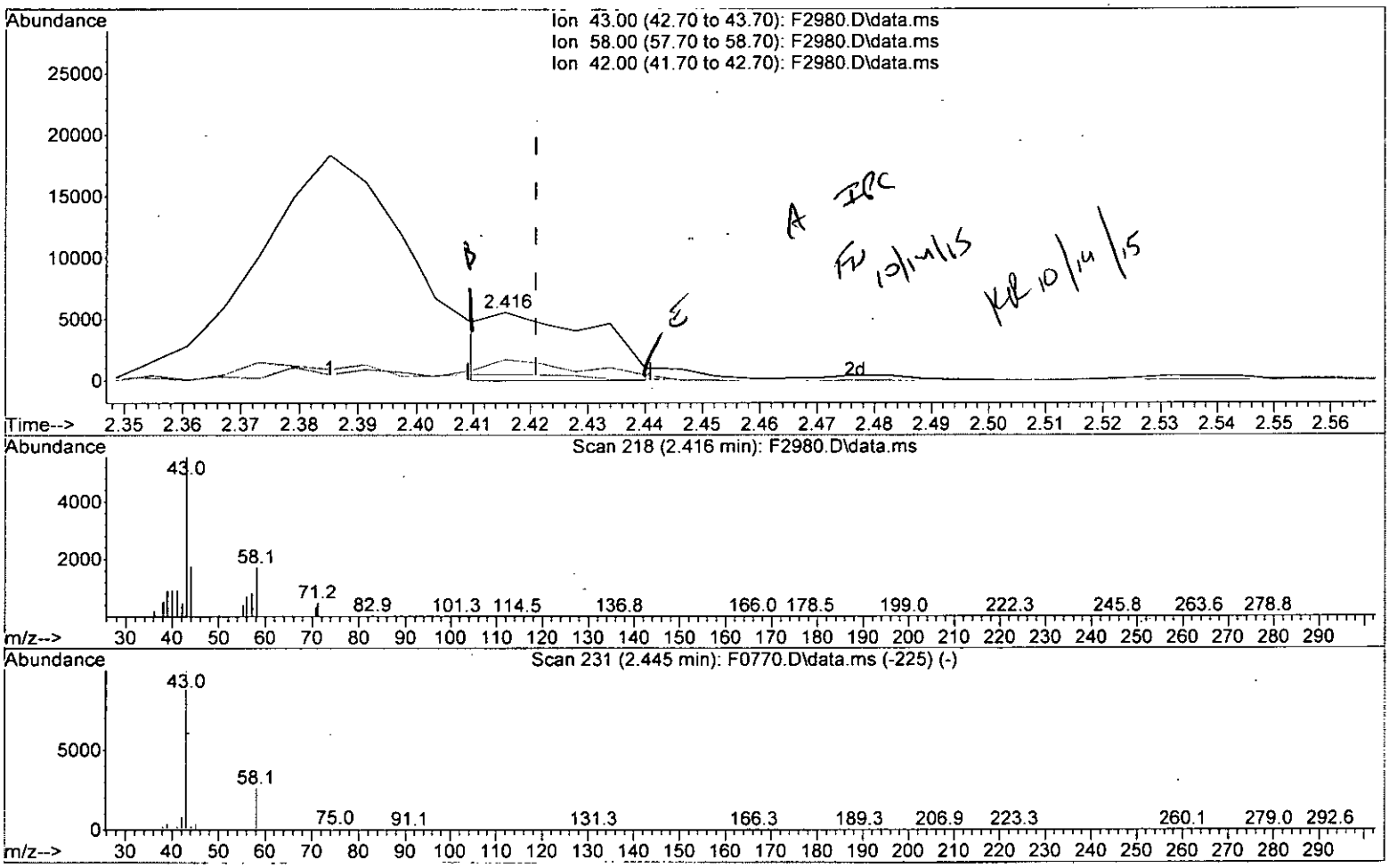
Ion	Exp%	Act%
43.00	100	100
58.00	26.10	2.58#
42.00	8.30	4.88
0.00	0.00	0.00

00205

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 09 16:04:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2980.D\data.ms

(15) Acetone (P)

2.416min (-0.005) 1.29 ug/L m

response 7272

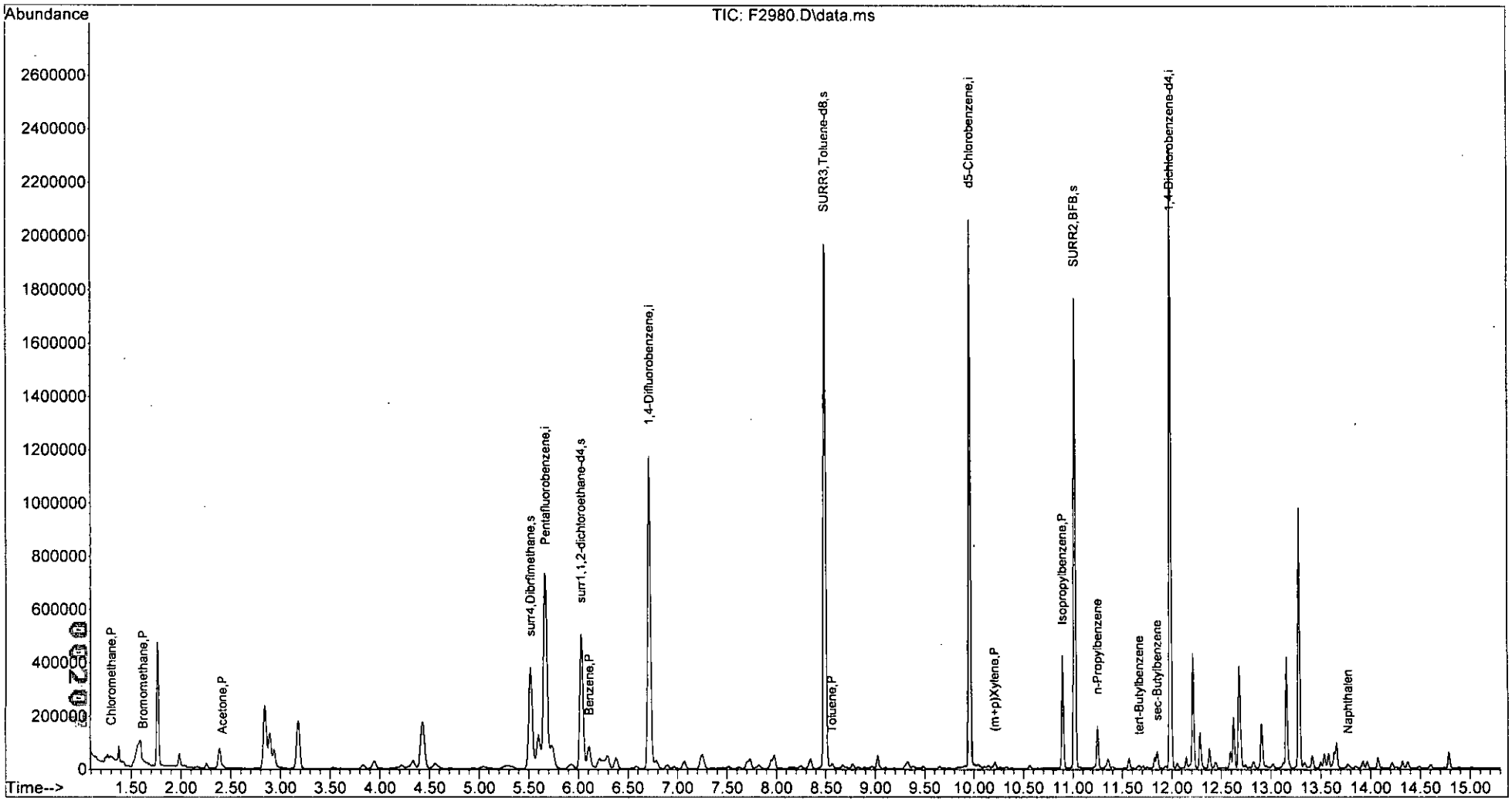
Ion	Exp%	Act%
43.00	100	100
58.00	26.10	30.85
42.00	8.30	8.53
0.00	0.00	0.00

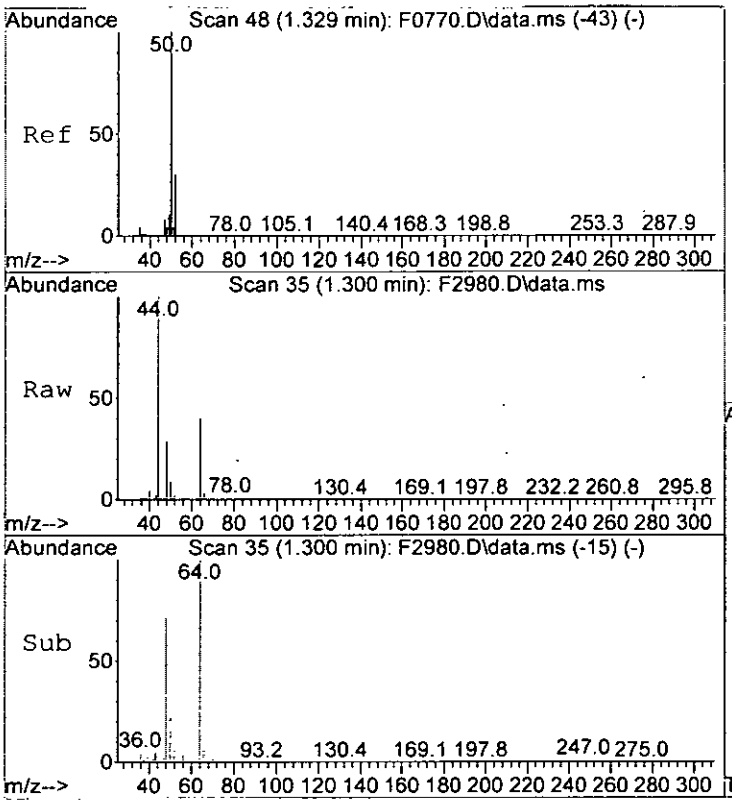
00206

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 14:52:13 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

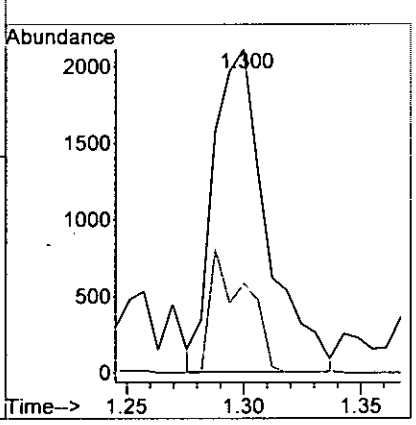


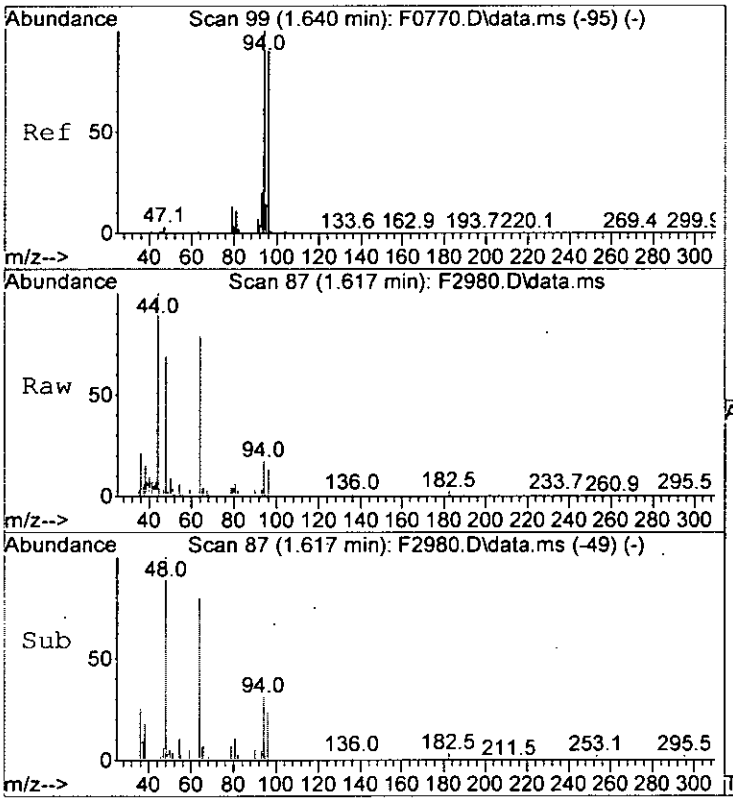


#3
Chloromethane
Concen: 0.42 ug/L
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion: 50 Resp: 3325

Ion	Ratio	Lower	Upper
50	100		
52	27.5	12.0	52.0

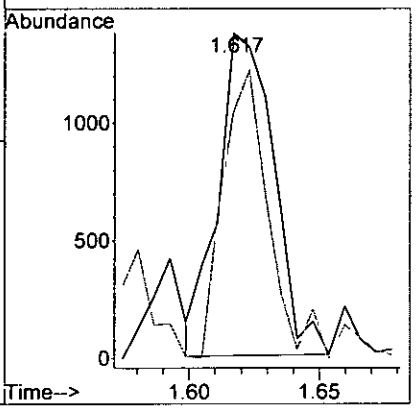




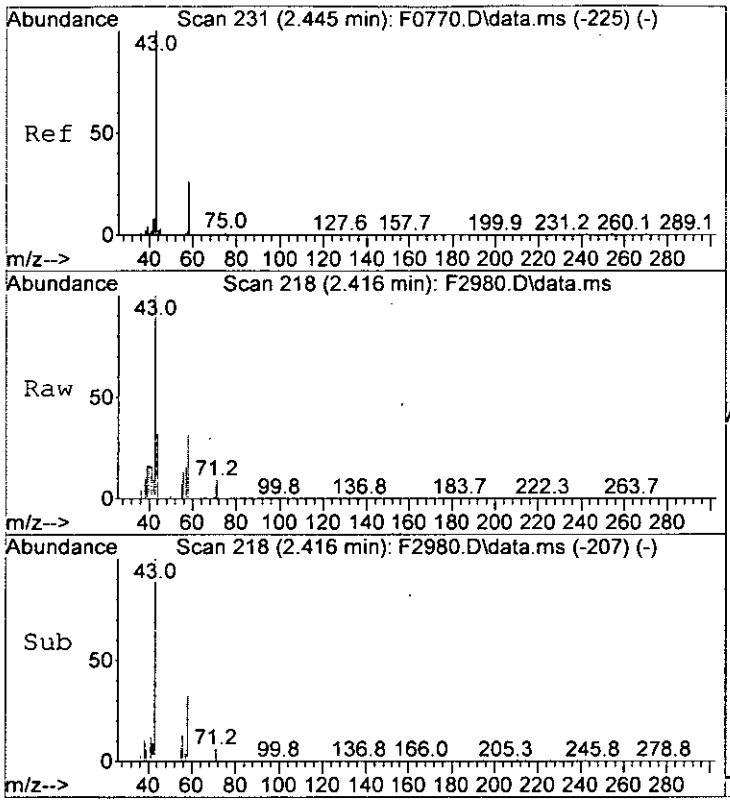
#5
Bromomethane
Concen: 0.37 ug/L
RT: 1.617 min Scan# 87
Delta R.T. 0.006 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion: 94 Resp: 2037

Ion	Ratio	Lower	Upper
94	100		
96	76.1	73.0	113.0



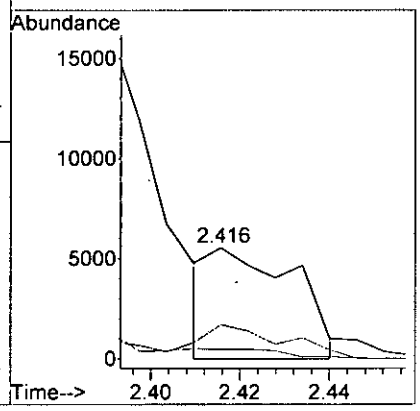
00208

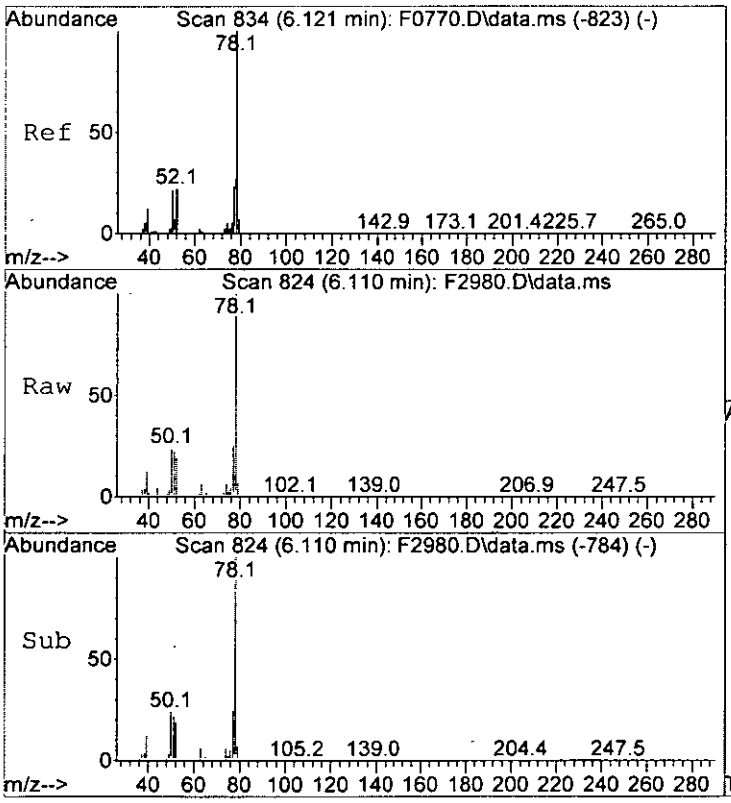


#15
Acetone
Concen: 1.29 ug/L m
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion: 43 Resp: 7272

Ion	Ratio	Lower	Upper
43	100		
58	30.8	6.1	46.1
42	8.5	0.0	28.3

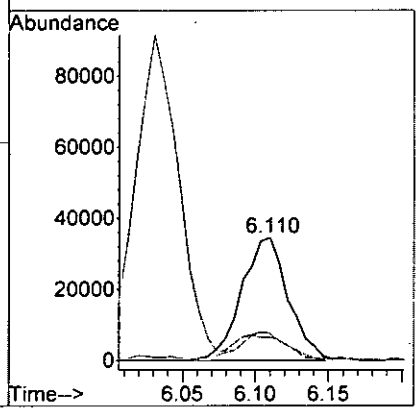


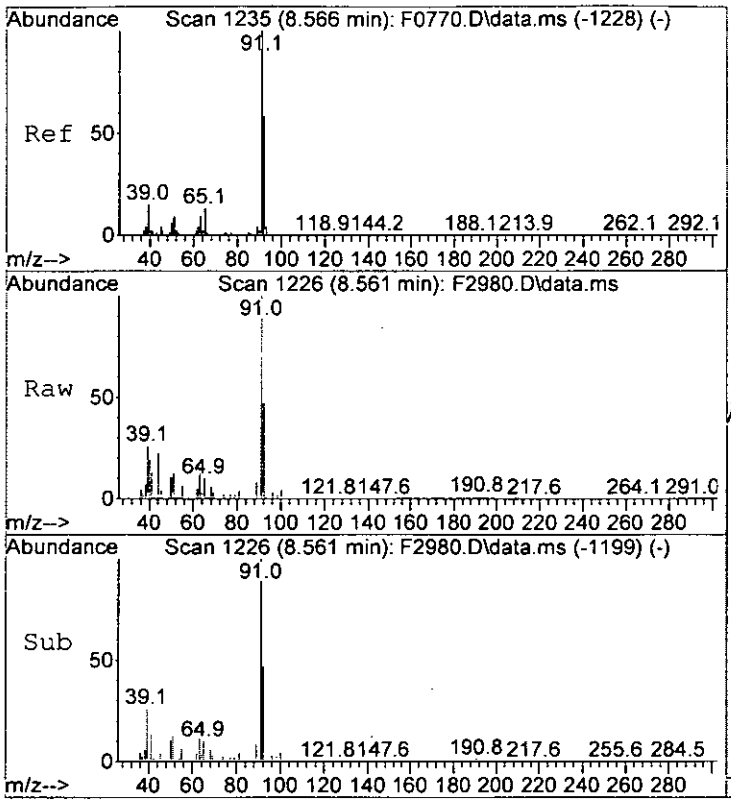


#47
Benzene
Concen: 2.98 ug/L
RT: 6.110 min Scan# 824
Delta R.T. -0.000 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion: 78 Resp: 75962

Ion	Ratio	Lower	Upper
78	100		
51	21.8	0.0	27.4
52	18.9	2.5	42.5

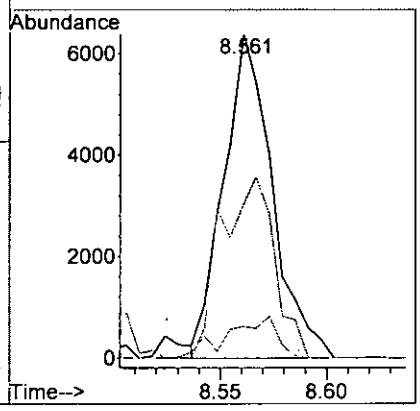


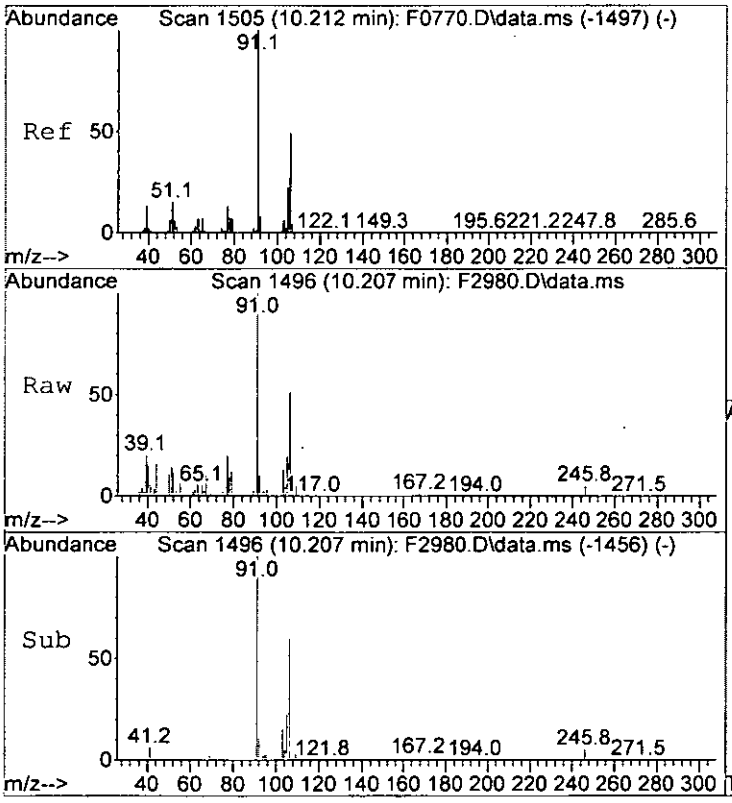


#65
Toluene
Concen: 0.38 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion: 91 Resp: 10106

Ion	Ratio	Lower	Upper
91	100		
92	47.5	38.0	78.0
65	9.8	0.0	33.0

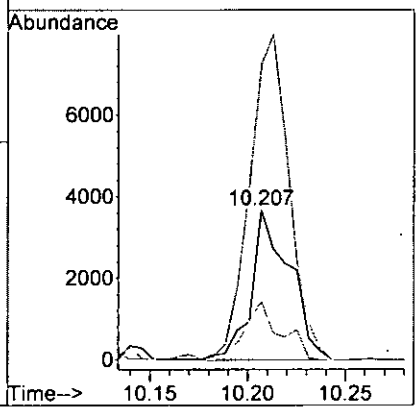


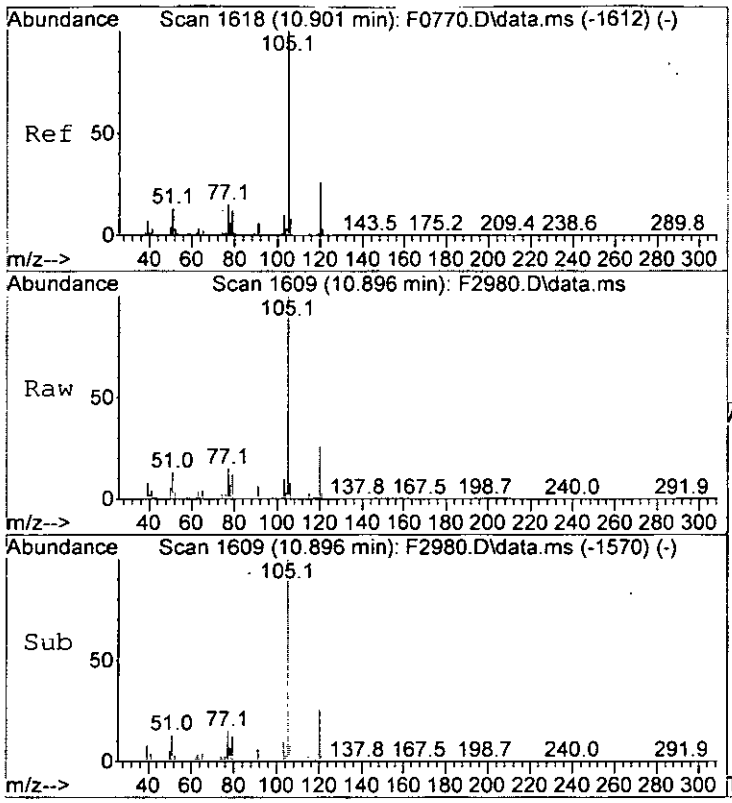


#82
(m+p)Xylene
Concen: 0.45 ug/L
RT: 10.207 min Scan# 1496
Delta R.T. -0.006 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion:106 Resp: 4973

Ion	Ratio	Lower	Upper
106	100		
91	197.3	183.1	223.1
77	38.8	6.9	46.9

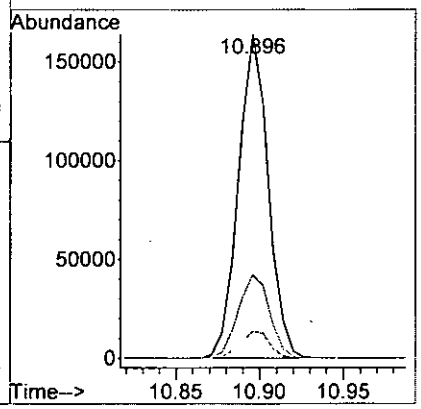


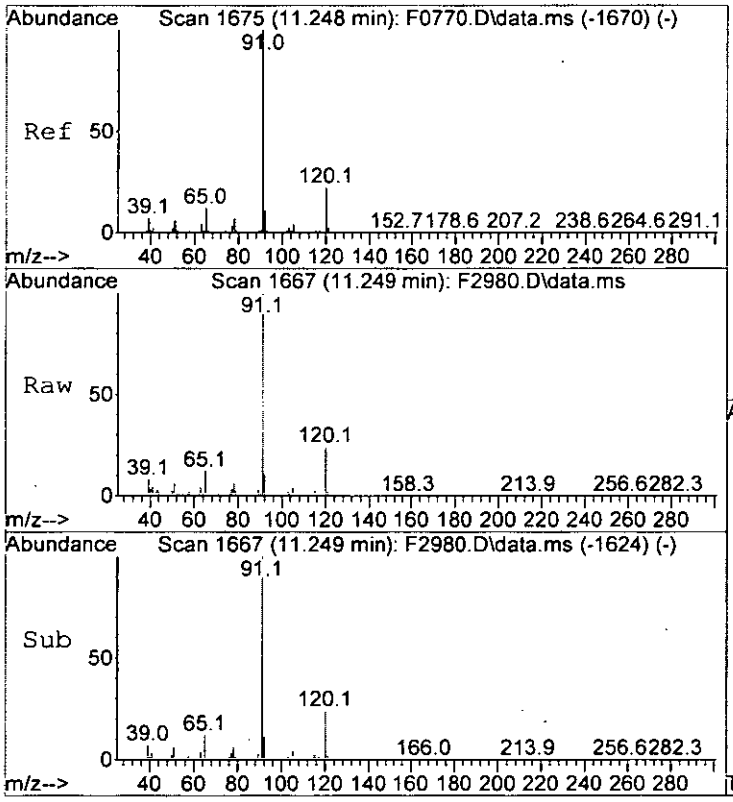


#87
Isopropylbenzene
Concen: 7.11 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion:105 Resp: 202322

Ion	Ratio	Lower	Upper
105	100		
120	25.7	5.8	45.8
106	8.3	0.0	28.3

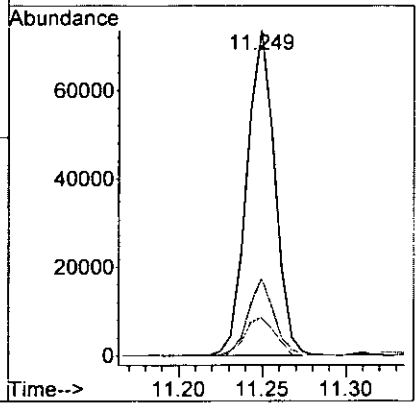


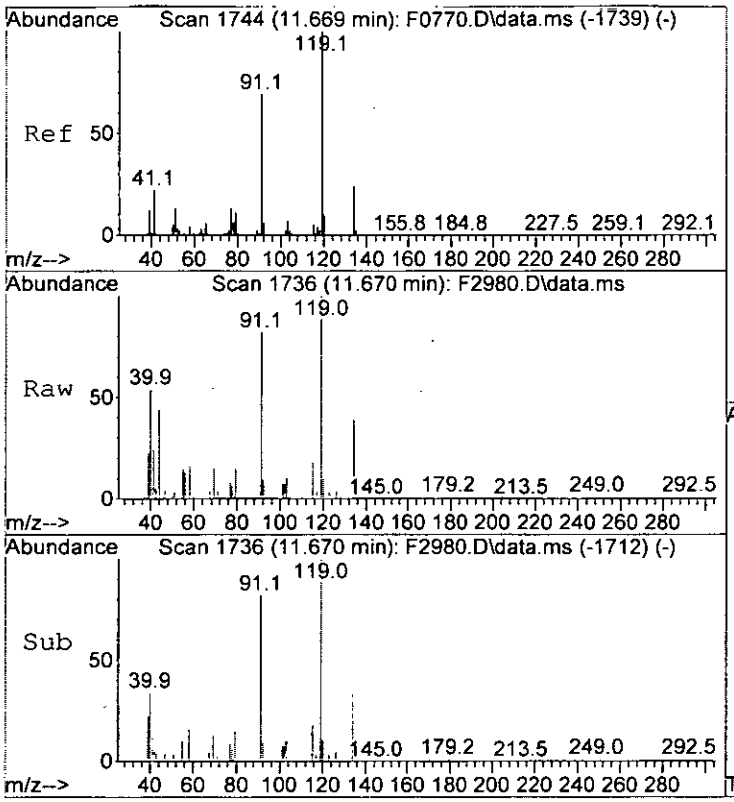


#94
n-Propylbenzene
Concen: 2.71 ug/L
RT: 11.249 min Scan# 1667
Delta R.T. -0.000 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion: 91 Resp: 85730

Ion	Ratio	Lower	Upper
91	100		
120	23.8	2.1	42.1
65	11.7	0.0	31.7

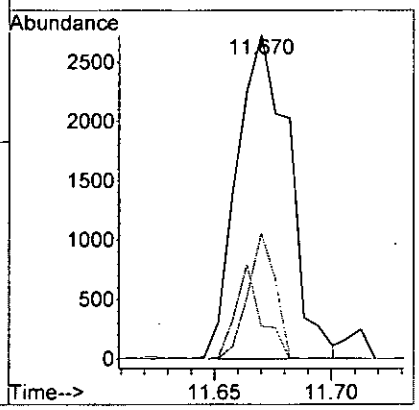


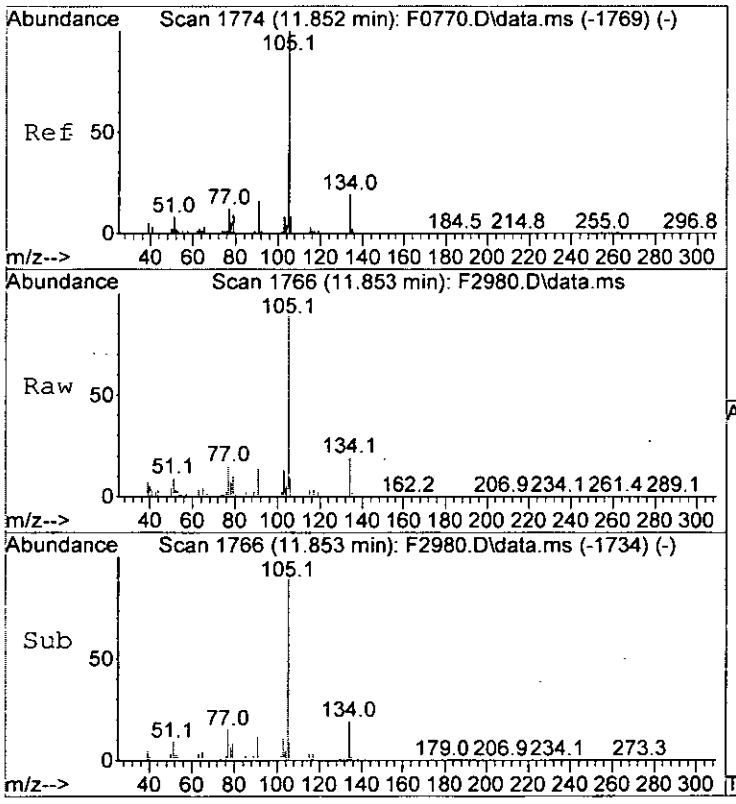


#99
tert-Butylbenzene
Concen: 0.22 ug/L
RT: 11.670 min Scan# 1736
Delta R.T. -0.006 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion:119 Resp: 4208

Ion	Ratio	Lower	Upper
119	100		
134	38.7	4.4	44.4
103	10.0	0.0	26.7

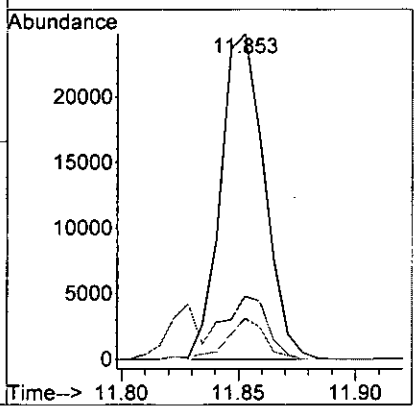




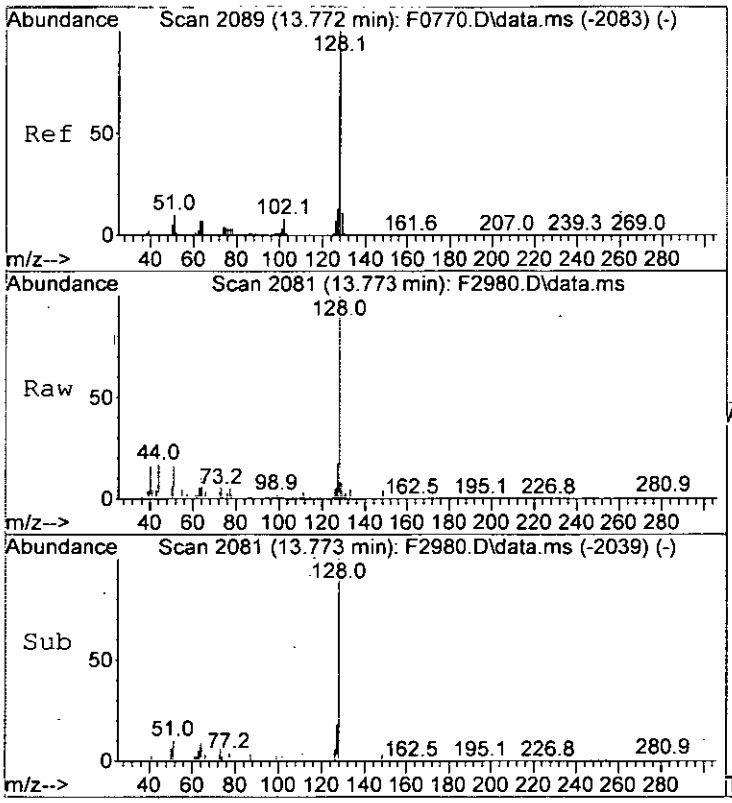
#102
sec-Butylbenzene
Concen: 1.15 ug/L
RT: 11.853 min Scan# 1766
Delta R.T. -0.000 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion:105 Resp: 31973

Ion	Ratio	Lower	Upper
105	100		
134	19.3	0.0	39.0
103	12.5	0.0	28.1



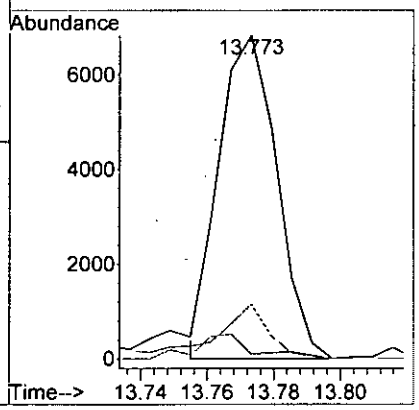
09212



#116
Naphthalen
Concen: 0.27 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. -0.000 min
Lab File: F2980.D
Acq: 9 Oct 2015 3:49 pm

Tgt Ion:128 Resp: 8336

Ion	Ratio	Lower	Upper
128	100		
127	16.8	0.0	32.8
102	1.5	0.0	28.1



00213

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2980.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.294	32	34	43	rVV3	15798	40030	1.25%	0.146%
2	1.373	44	47	53	rVV	67776	77686	2.43%	0.283%
3	1.593	68	83	92	rBV3	99951	394830	12.34%	1.439%
4	1.763	106	111	117	rBV	465659	602883	18.84%	2.198%
5	1.983	142	147	152	rBV	48317	62514	1.95%	0.228%
6	2.385	205	213	227	rBV2	76885	161765	5.05%	0.590%
7	2.842	278	288	293	rBV	235878	528799	16.52%	1.928%
8	2.891	293	296	300	rVV2	133297	244882	7.65%	0.893%
9	2.934	300	303	314	rVB2	69734	129083	4.03%	0.471%
10	3.178	335	343	353	rVB	179676	410114	12.81%	1.495%
11	3.830	443	450	458	rVB5	14788	34699	1.08%	0.126%
12	3.946	462	469	476	rVV3	27926	67054	2.10%	0.244%
13	4.336	521	533	540	rVV3	27116	74120	2.32%	0.270%
14	4.428	540	548	559	rVB4	174680	502830	15.71%	1.833%
15	4.556	559	569	577	rBV9	18640	56214	1.76%	0.205%
16	5.519	716	727	735	rBV	381038	981909	30.68%	3.580%
17	5.598	735	740	744	rVV2	92549	188772	5.90%	0.688%
18	5.665	744	751	759	rVV	667150	1572939	49.14%	5.734%
19	5.927	782	794	802	rBV7	16850	56347	1.76%	0.205%
20	6.031	802	811	819	rBV	503867	1153048	36.03%	4.203%
21	6.110	819	824	834	rVB2	78463	174806	5.46%	0.637%
22	6.214	834	841	845	rBV6	33847	85138	2.66%	0.310%
23	6.299	850	855	862	rVV5	48357	114859	3.59%	0.419%
24	6.378	862	868	876	rVB5	41783	94713	2.96%	0.345%
25	6.720	912	924	932	rBV	1174996	2359380	73.72%	8.601%
26	6.787	932	935	942	rVV6	31594	60325	1.88%	0.220%
27	7.067	973	981	989	rBV4	29356	61823	1.93%	0.225%
28	7.250	1002	1011	1019	rBV5	54817	150539	4.70%	0.549%
29	7.732	1079	1090	1096	rVB7	35908	112472	3.51%	0.410%
30	7.951	1117	1126	1127	rBV3	34509	60041	1.88%	0.219%
31	7.976	1127	1130	1136	rVB2	51407	81398	2.54%	0.297%
32	8.347	1183	1191	1197	rVB4	36714	71436	2.23%	0.260%
33	8.488	1203	1214	1222	rBV	1968849	3200634	100.00%	11.668%
34	9.024	1296	1302	1310	rVB2	51977	82743	2.59%	0.302%
35	9.329	1343	1352	1357	rBV3	26331	68665	2.15%	0.250%

FJ 10/14/15

00214

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009¦1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	9.957	1449	1455	1461	rBV	2055367	2754447	86.06%	10.041%
37	10.207	1490	1496	1501	rVB	24492	40462	1.26%	0.148%
38	10.896	1602	1609	1615	rBV	424595	524720	16.39%	1.913%
39	11.018	1624	1629	1635	rBV	1762155	2162662	67.57%	7.884%
40	11.249	1659	1667	1673	rVB	161040	206382	6.45%	0.752%
41	11.353	1676	1684	1689	rBV5	34683	59500	1.86%	0.217%
42	11.566	1715	1719	1723	rBV	36878	44981	1.41%	0.164%
43	11.822	1757	1761	1763	rBV2	40634	49161	1.54%	0.179%
44	11.853	1763	1766	1771	rVB	62902	81418	2.54%	0.297%
45	11.987	1783	1788	1795	rVB	2321086	2813573	87.91%	10.257%
46	12.146	1811	1814	1817	rBV	41212	43252	1.35%	0.158%
47	12.213	1817	1825	1831	rVB	433243	570733	17.83%	2.081%
48	12.286	1831	1837	1843	rBV	135753	178252	5.57%	0.650%
49	12.377	1848	1852	1857	rVV	74209	90916	2.84%	0.331%
50	12.438	1857	1862	1869	rVB4	22557	36827	1.15%	0.134%
51	12.591	1883	1887	1889	rBV	61581	73417	2.29%	0.268%
52	12.621	1889	1892	1897	rVB	190347	227005	7.09%	0.828%
53	12.682	1897	1902	1909	rBV2	383100	595121	18.59%	2.170%
54	12.822	1921	1925	1932	rBV4	24519	35984	1.12%	0.131%
55	12.908	1932	1939	1944	rBV	167299	232679	7.27%	0.848%
56	13.158	1976	1980	1988	rVB	417245	510557	15.95%	1.861%
57	13.286	1991	2001	2006	rBV	979119	1260977	39.40%	4.597%
58	13.340	2006	2010	2014	rVV4	19922	32081	1.00%	0.117%
59	13.414	2018	2022	2026	rVB2	46328	63809	1.99%	0.233%
60	13.535	2038	2042	2045	rVV	54785	74810	2.34%	0.273%
61	13.578	2045	2049	2052	rVV2	54890	72991	2.28%	0.266%
62	13.633	2052	2058	2060	rVV3	58754	90744	2.84%	0.331%
63	13.657	2060	2062	2068	rVB2	95949	107152	3.35%	0.391%
64	13.926	2099	2106	2109	rBV4	27699	38817	1.21%	0.142%
65	13.968	2109	2113	2117	rVB	26849	33899	1.06%	0.124%
66	14.072	2126	2130	2135	rBV2	41161	54861	1.71%	0.200%
67	14.322	2167	2171	2176	rBV4	27269	33851	1.06%	0.123%
68	14.371	2176	2179	2185	rVB3	22760	32181	1.01%	0.117%
69	14.785	2243	2247	2253	rBV2	63038	83200	2.60%	0.303%

Sum of corrected areas: 27430912

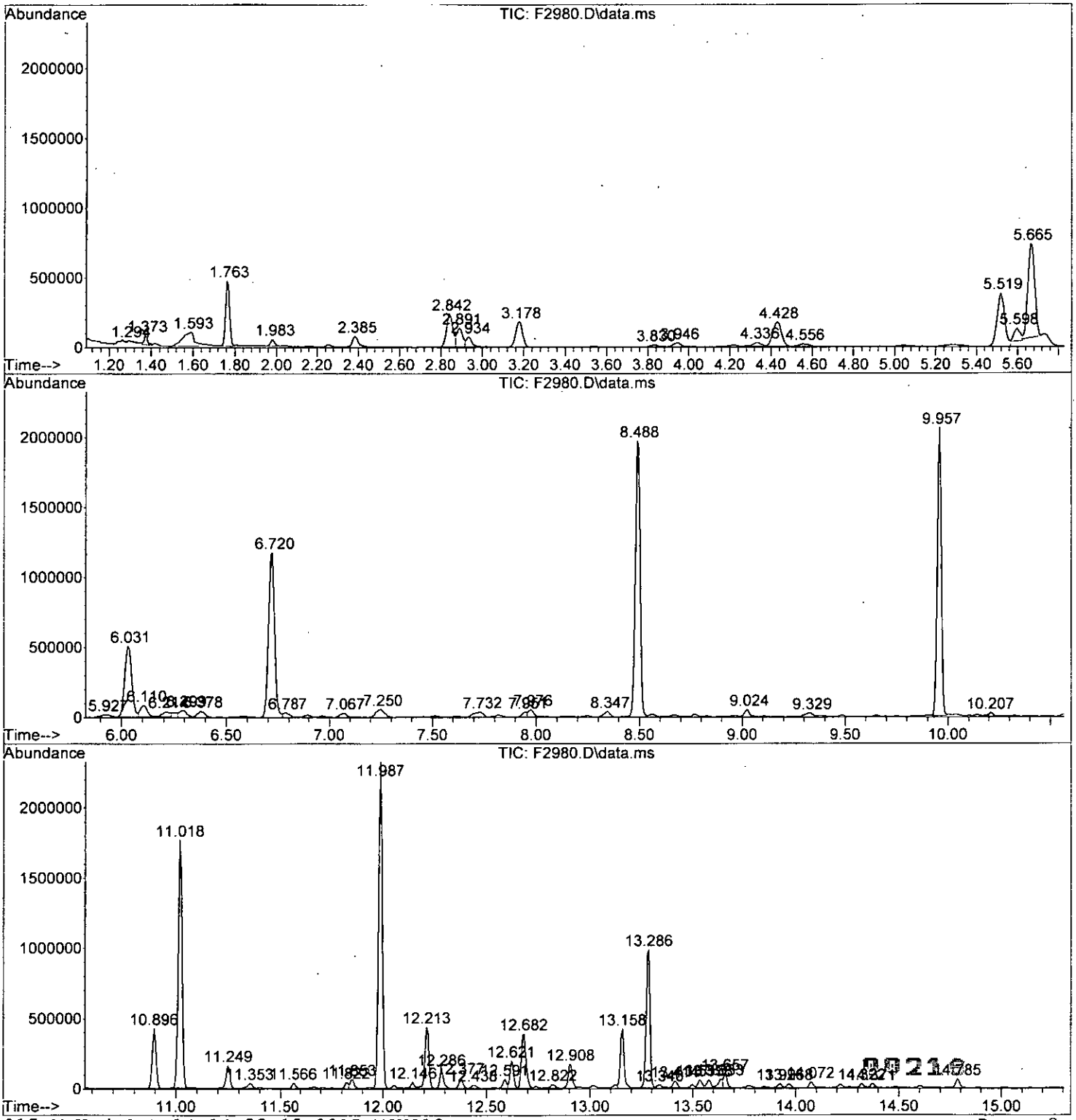
00215

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

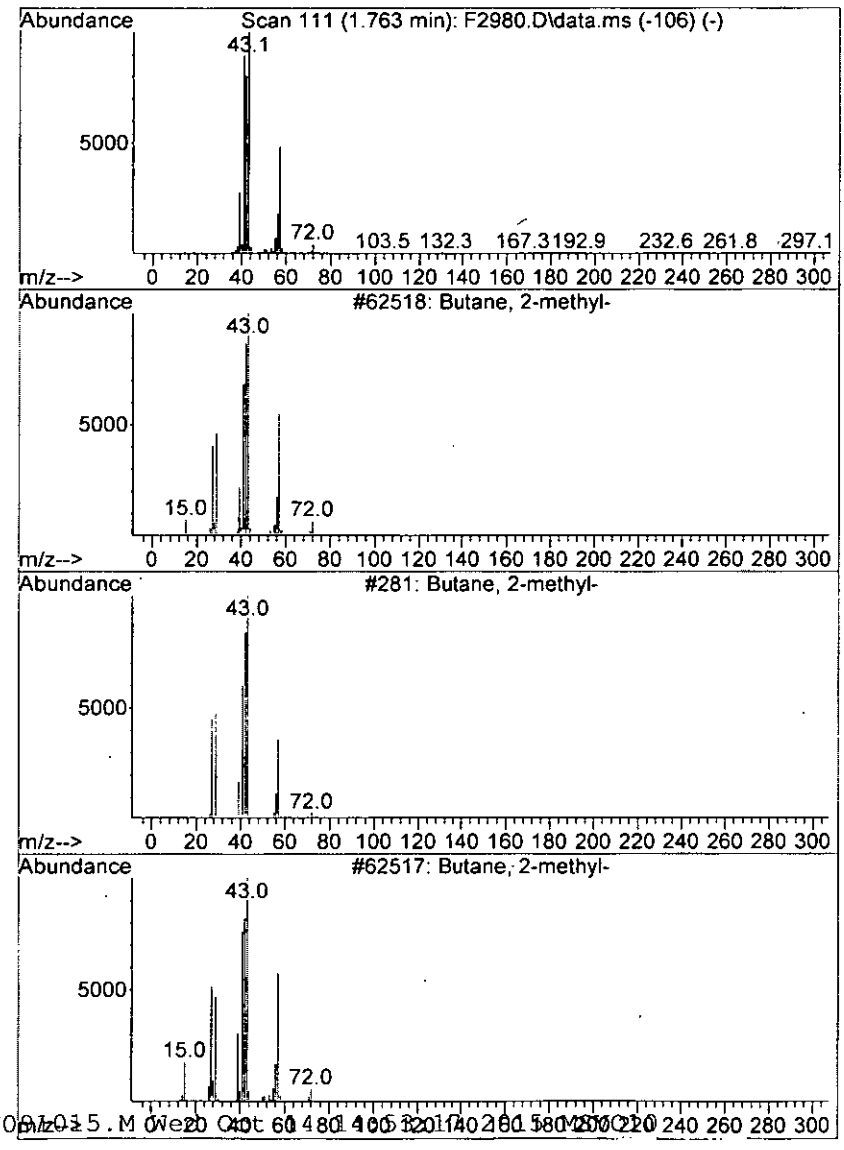
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

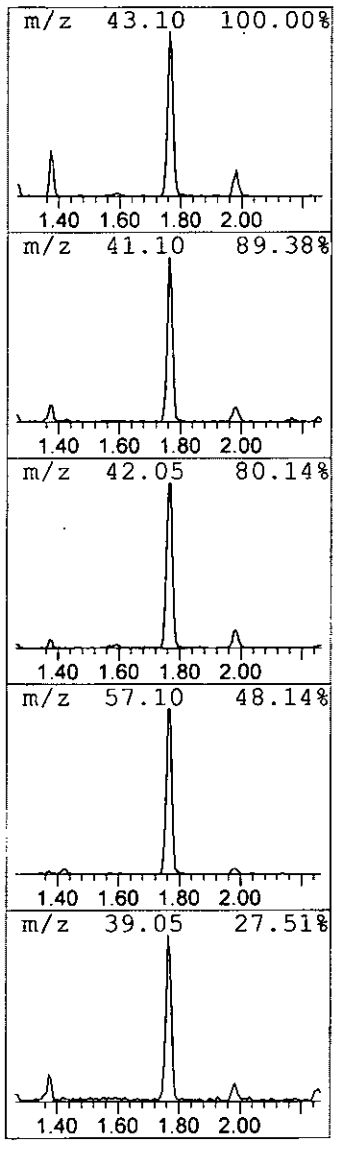
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.763	19.16 ug/L	602883	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	64
2	Butane, 2-methyl-	72	C5H12	000078-78-4	56
3	Butane, 2-methyl-	72	C5H12	000078-78-4	37
4	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	9
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	9





00217

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

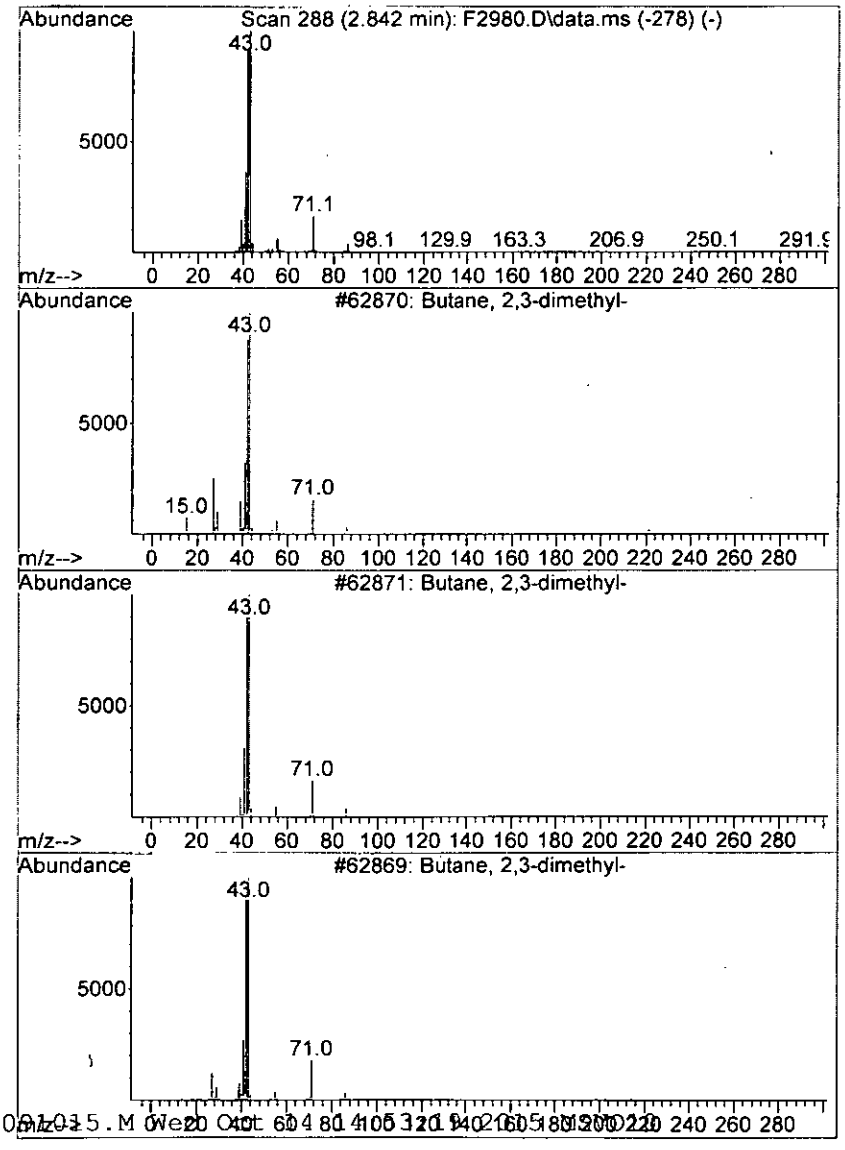
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TIC Integration Parameters: LSCINT.P

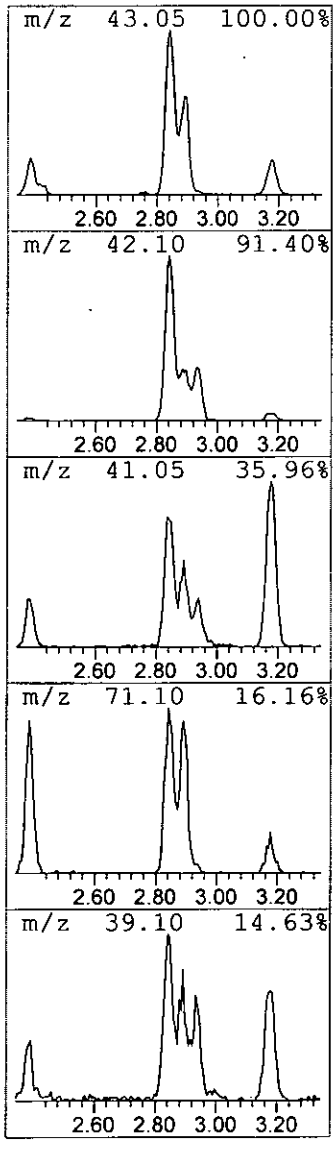
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Peak Number 2 Butane, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.842	16.81 ug/L	528799	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	91
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	91
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	27
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	9





00218

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

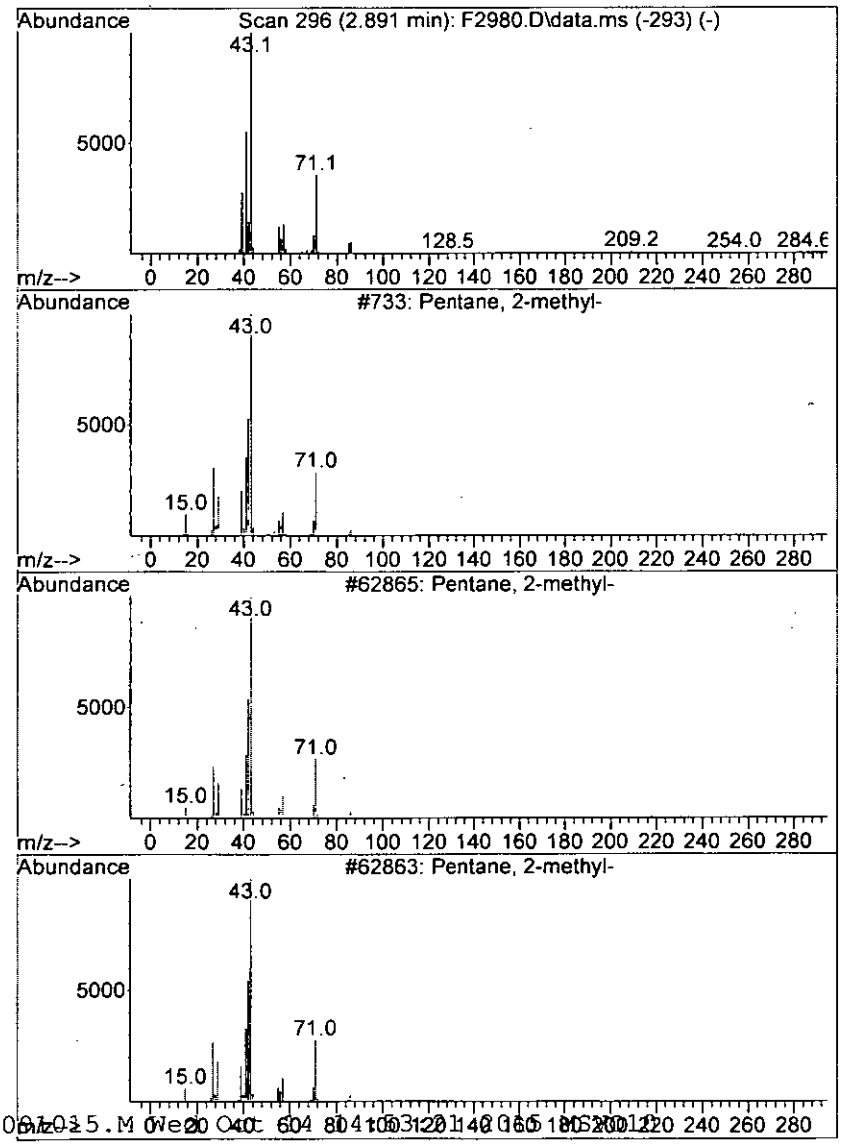
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TIC Integration Parameters: LSCINT.P

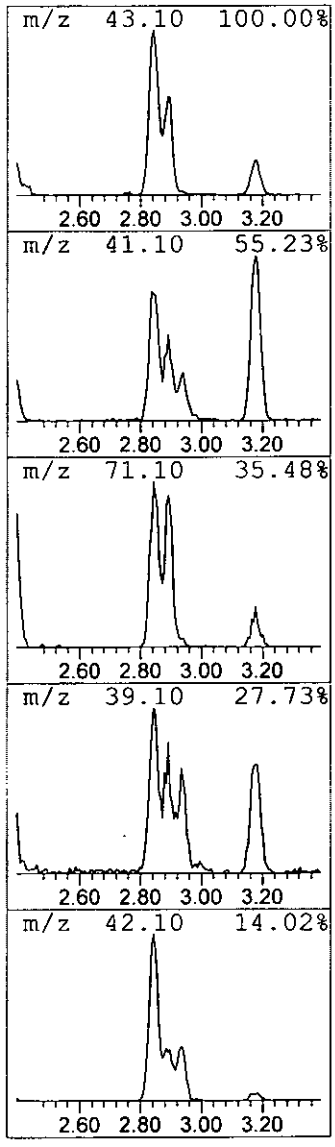
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Peak Number 3 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.891	7.78 ug/L	244882	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	64
* 2	Pentane, 2-methyl-	86	C6H14	000107-83-5	59
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	59
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	50





00219

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

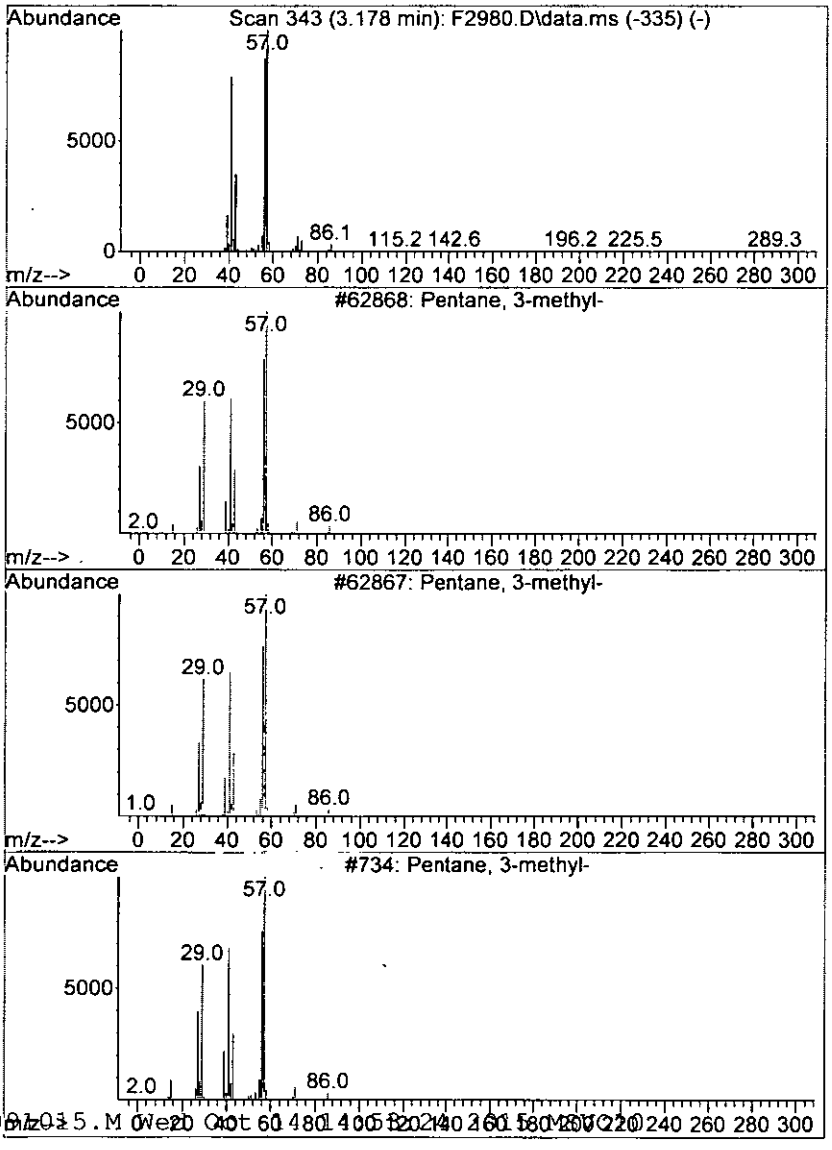
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

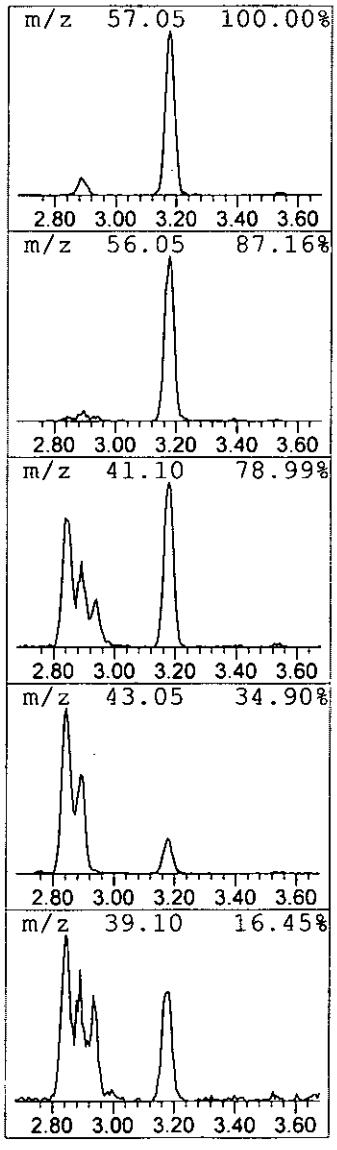
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Peak Number 4 Pentane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.178	13.04 ug/L	410114	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	80
4	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	39
5	1-Butanol, 2-methyl-	88	C5H12O	000137-32-6	39





00220

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

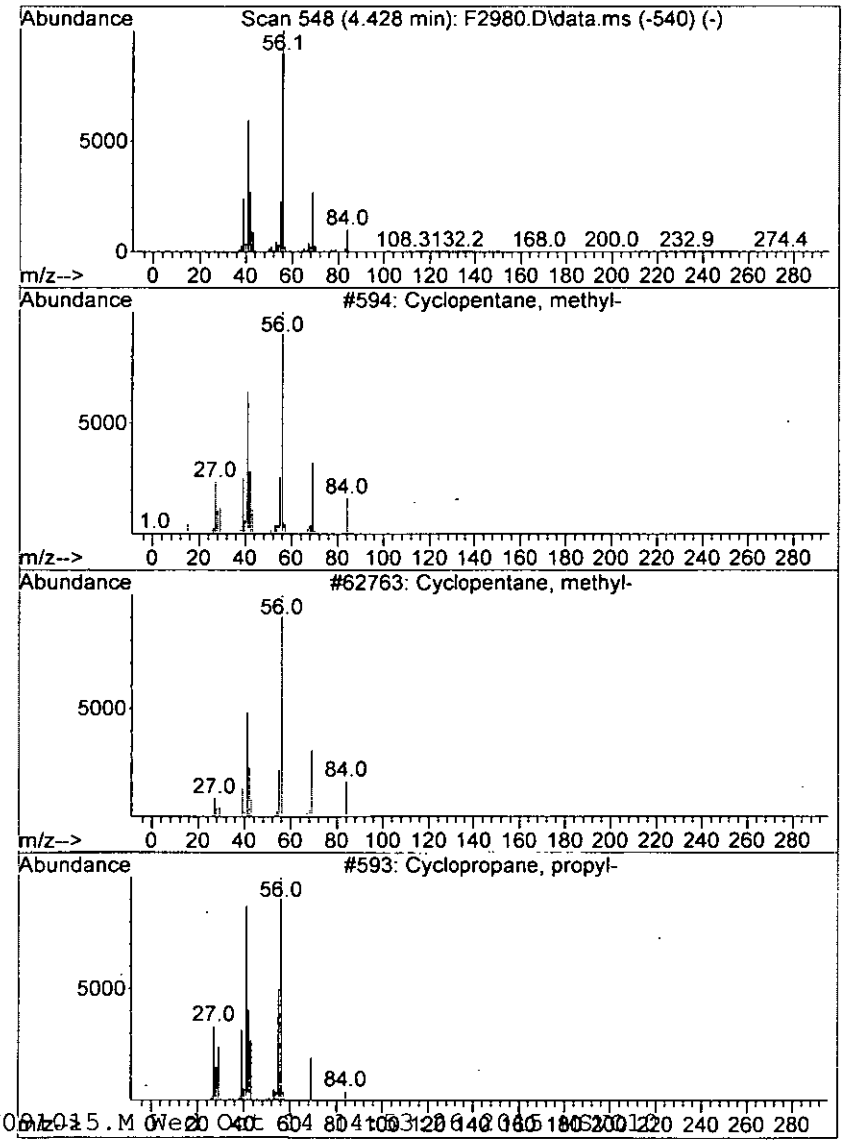
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

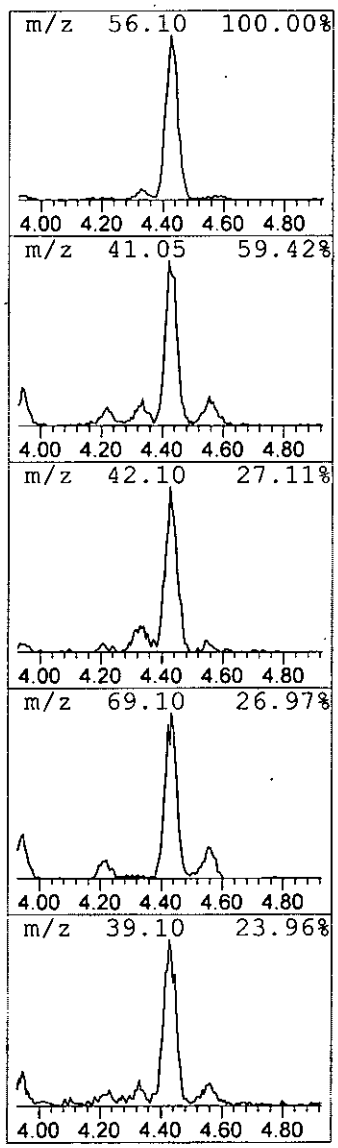
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Peak Number 5 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.428	15.98 ug/L	502830	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	83
* 2	Cyclopentane, methyl-	84	C6H12	000096-37-7	83
3	Cyclopropane, propyl-	84	C6H12	002415-72-7	72
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	56
5	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	56





00221

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

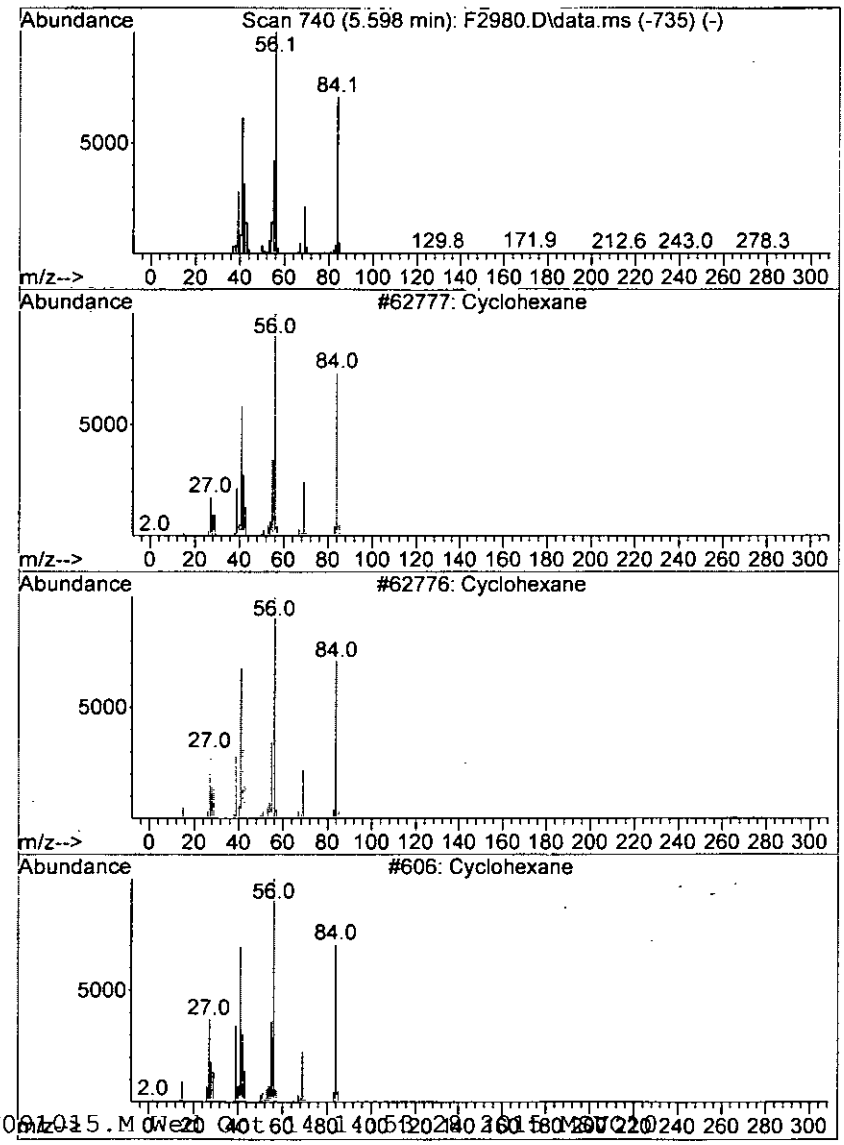
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

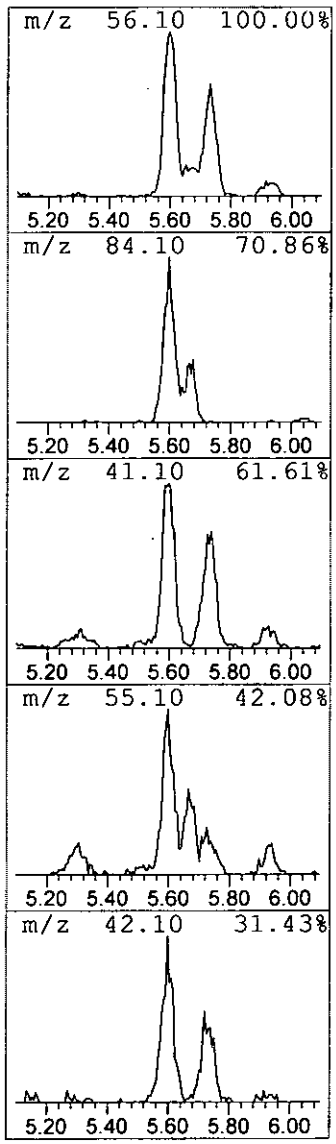
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Peak Number 6 Cyclohexane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.598	6.00 ug/L	188772	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane	84	C6H12	000110-82-7	90
2	Cyclohexane	84	C6H12	000110-82-7	87
3	Cyclohexane	84	C6H12	000110-82-7	87
4	Cyclohexane	84	C6H12	000110-82-7	80
5	Cyclohexane	84	C6H12	000110-82-7	72





00222

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

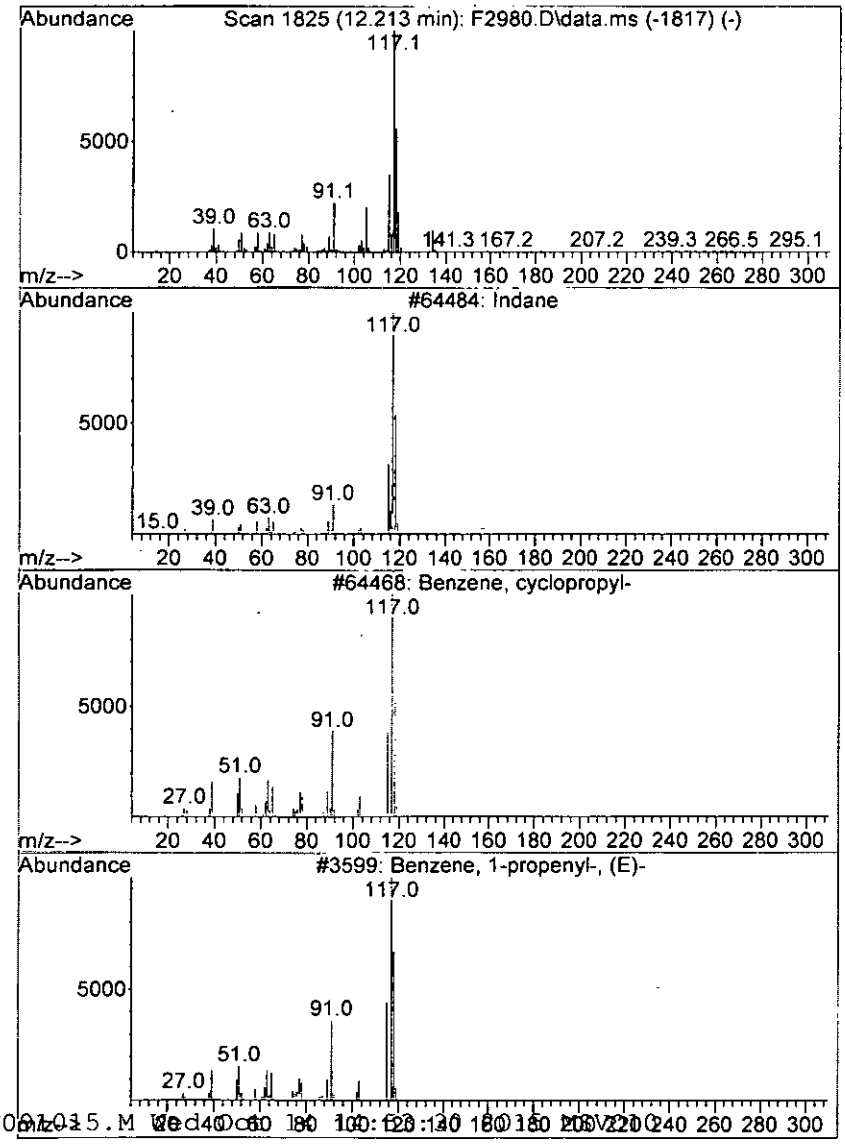
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TIC Integration Parameters: LSCINT.P

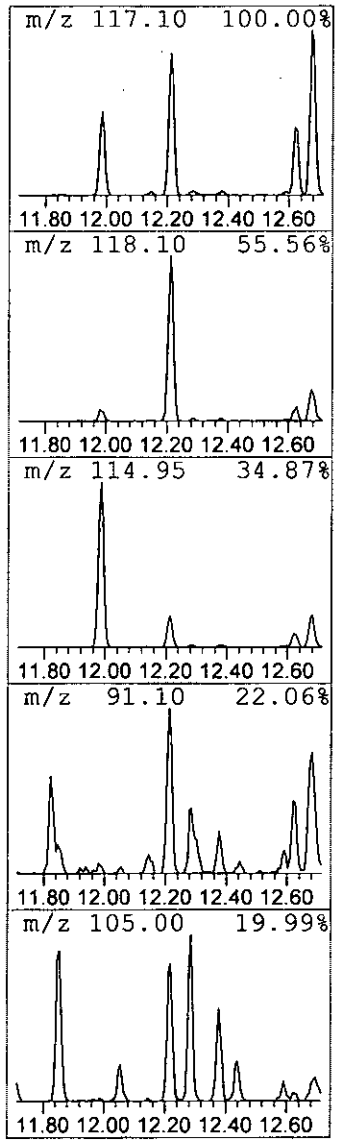
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Peak Number 7 Indane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	10.14 ug/L	570733	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	62
* 2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	58
3	Benzene, 1-propenyl-, (E)-	118	C9H10	000873-66-5	58
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	53
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	52





00223

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

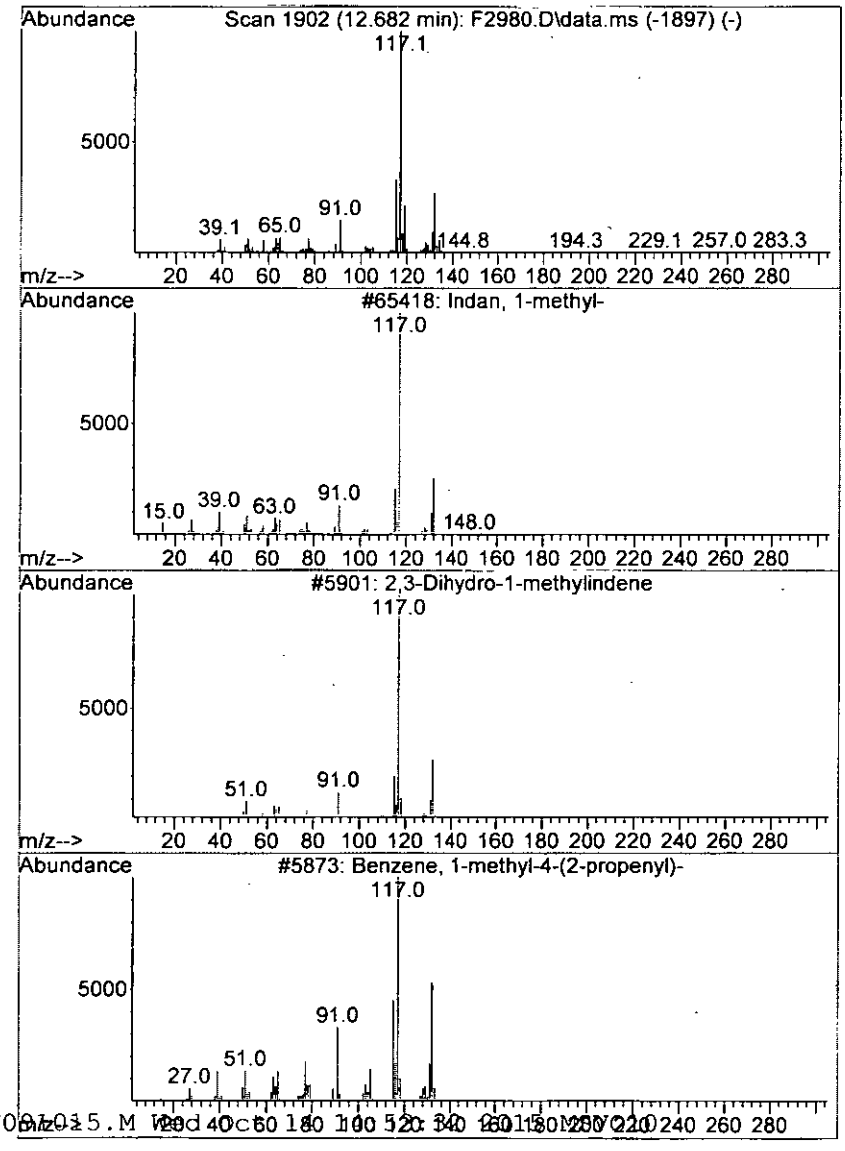
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TIC Integration Parameters: LSCINT.P

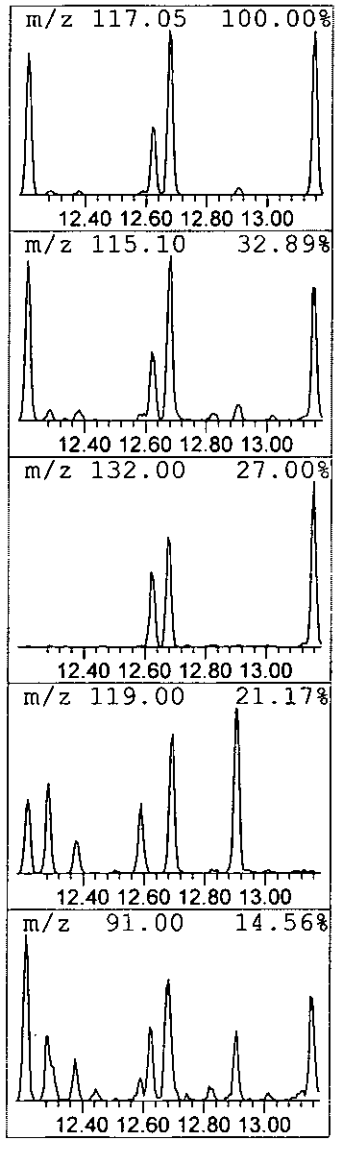
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Peak Number 8 Indan, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.682	10.58 ug/L	595121	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	93
2	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	76
3	Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	72
4	Indan, 1-methyl-	132	C10H12	000767-58-8	72
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	68





00224

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

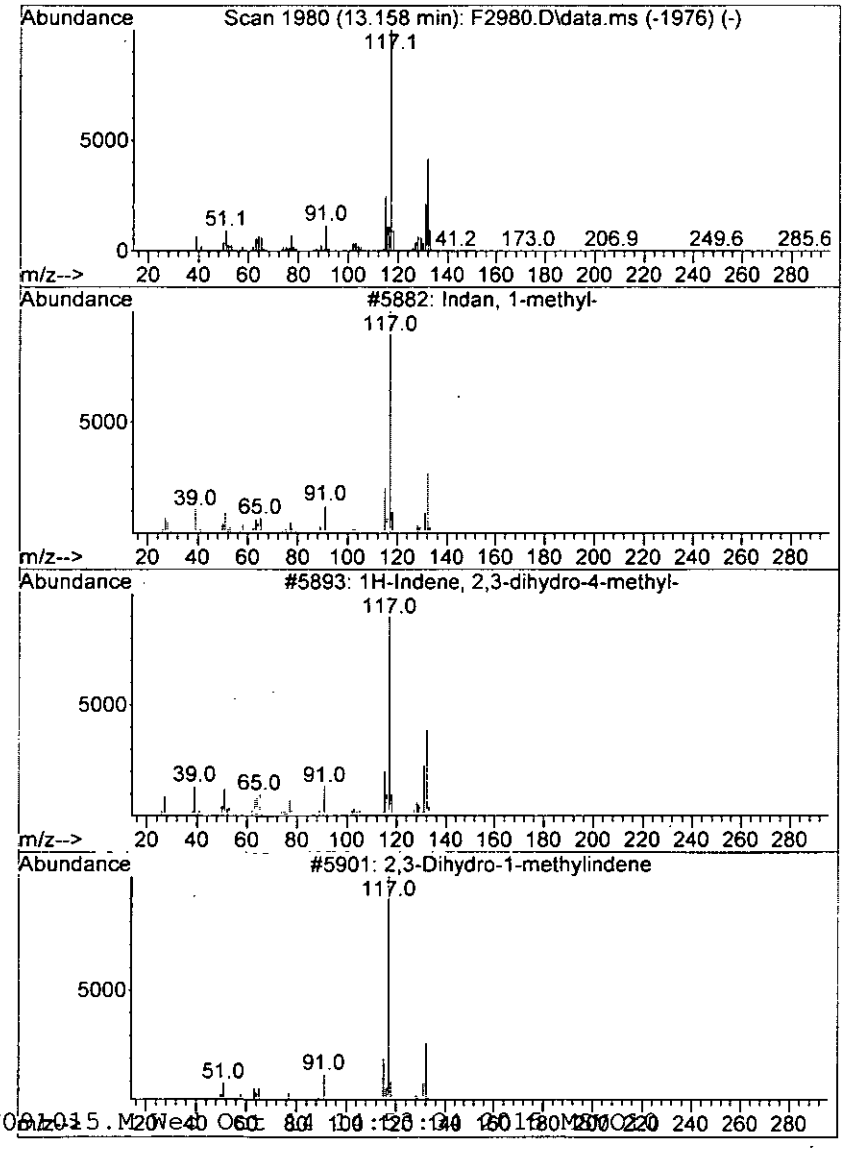
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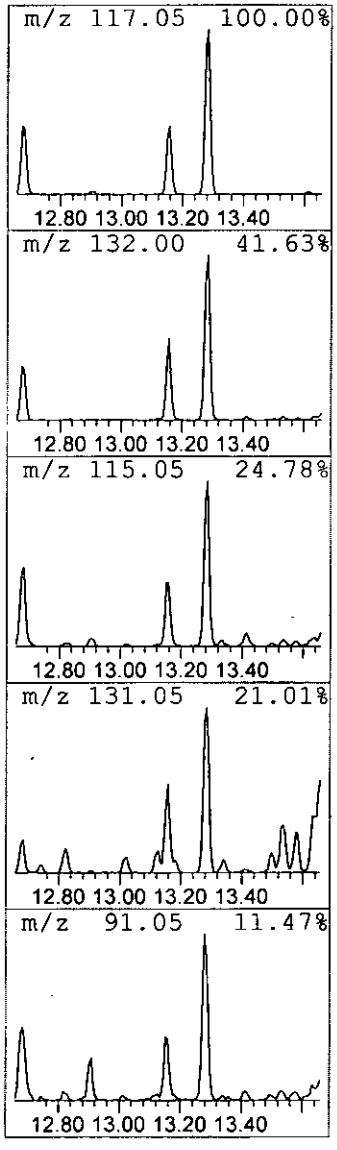
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Peak Number 9 Indan, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.158	9.07 ug/L	510557	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	90
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	90
3	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	87
4	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87
5	Indan, 1-methyl-	132	C10H12	000767-58-8	74





00225

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2980.D
Acq On : 9 Oct 2015 3:49 pm
Operator : F. Naegler
Sample : R1508244-009|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

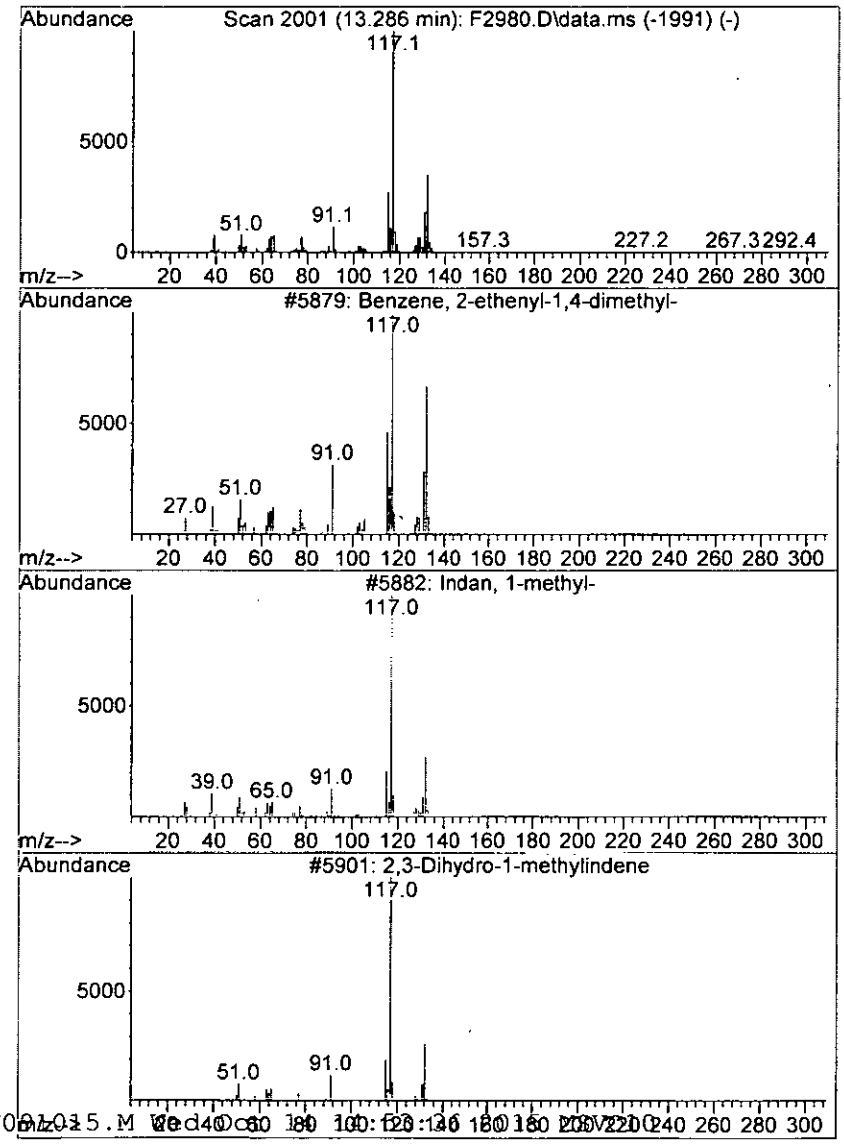
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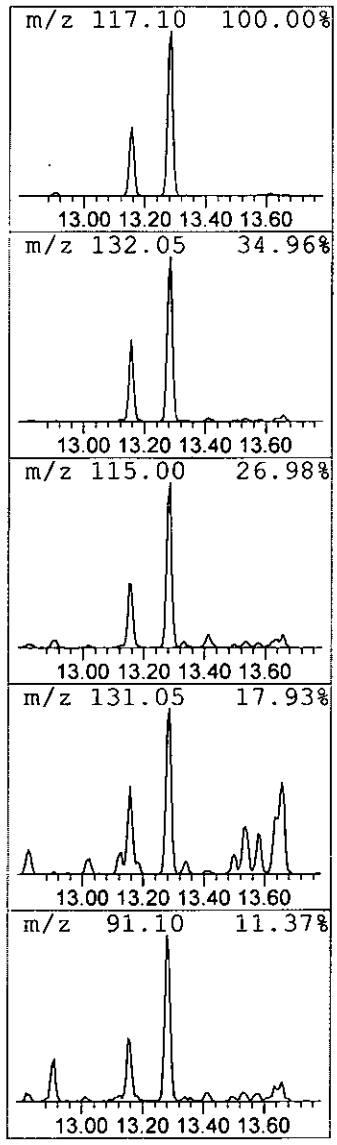
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Peak Number 10 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.286	22.41 ug/L	1260980	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2	Indan, 1-methyl-	132	C10H12	000767-58-8	90
3	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	87
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	86





00226

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1200
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:14
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1508244-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**29**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**3.2**	J	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	**2.3**	J	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00227

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1200
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:14
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1508244-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**31**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**4.9**	J	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**5.4**		5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	**0.54**	J	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**42**		10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**4.5**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**2.4**	J	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00228

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1200
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:14
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	Percent
Lab Code:	R1508244-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2981.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 16:14	
Dibromofluoromethane	93	85-115	10/9/15 16:14	
Toluene-d8	97	85-120	10/9/15 16:14	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1614

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1508244-010	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**10.0**	J
000078-78-4	Butane, 2-methyl-	1.76	**5.0**	JN
	unknown	4.43	**6.3**	J
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.33	**7.4**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.57	**15.8**	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	12.05	**7.7**	JN
000496-11-7	Indane	12.21	**15.4**	JN

Comments:

00230

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 14:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	623067	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	913493	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	816873	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	432411	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.525	113	274467	46.57	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.14%			
46) surr1,1,2-dichloroetha...	6.031	65	378053	45.24	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.48%			
64) SURR3,Toluene-d8	8.494	98	1042846	48.54	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.08%			
69) SURR2,BFB	11.018	95	400816	45.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.36%			
Target Compounds						Qvalue
15) Acetone	2.428	43	6027	1.13	ug/L	82
47) Benzene	6.104	78	56361	2.30	ug/L	91
65) Toluene	8.561	91	13777	0.54	ug/L	91
81) Ethylbenzene	10.103	106	277246	30.70	ug/L	97
82) (m+p)Xylene	10.213	106	443738	41.76	ug/L	96
83) o-Xylene	10.567	106	26803	2.42	ug/L	90
87) Isopropylbenzene	10.896	105	132693	4.87	ug/L	95
94) n-Propylbenzene	11.249	91	140758	4.52	ug/L	99
98) 1,3,5-Trimethylbenzene	11.402	105	69750	3.16	ug/L	95
100) 1,2,4-Trimethylbenzene	11.707	105	651821	28.95	ug/L	96
102) sec-Butylbenzene	11.853	105	6324	0.23	ug/L	80
116) Naphthalen	13.773	128	162940	5.35	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

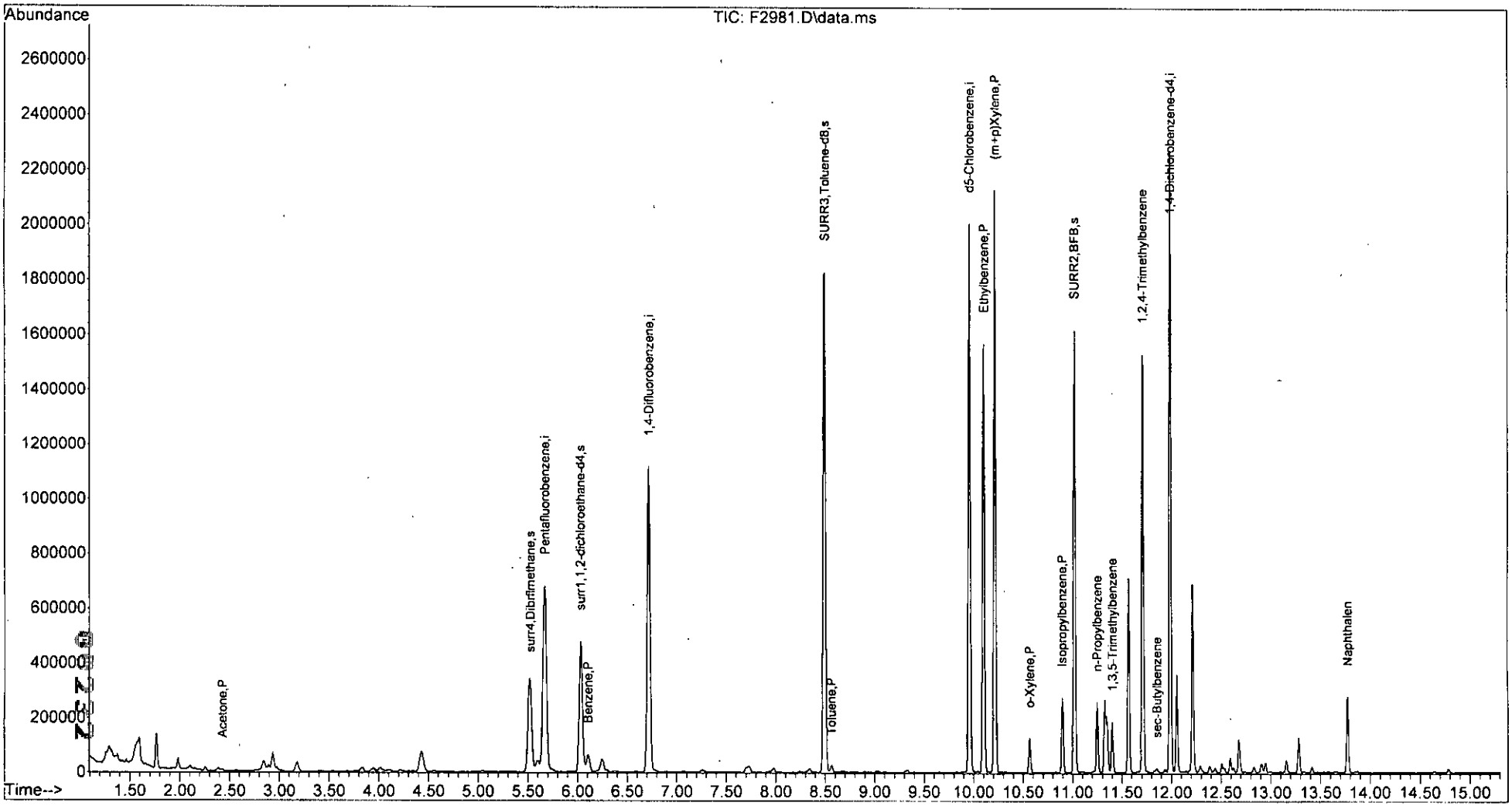
FD
10/14/15

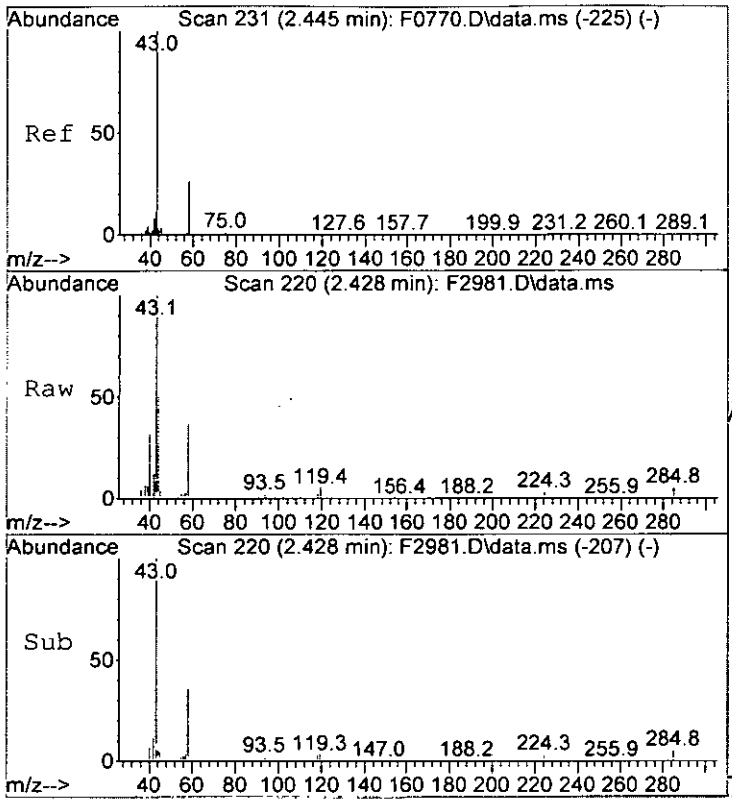
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Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 14:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

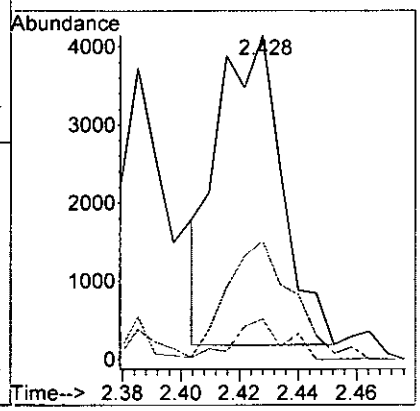


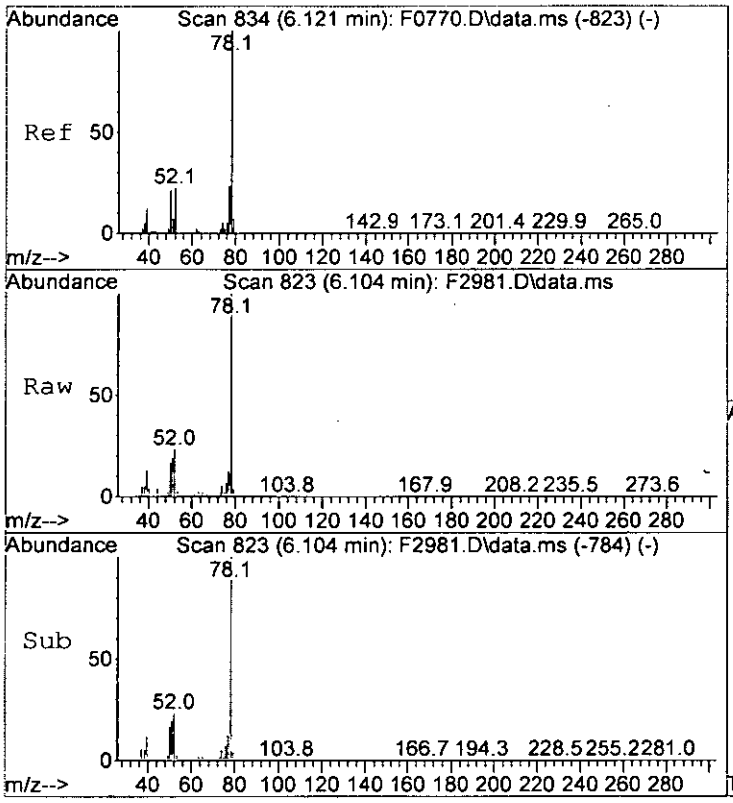


#15
Acetone
Concen: 1.13 ug/L
RT: 2.428 min Scan# 220
Delta R.T. 0.007 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion: 43 Resp: 6027

Ion	Ratio	Lower	Upper
43	100		
58	36.5	6.1	46.1
42	12.4	0.0	28.3

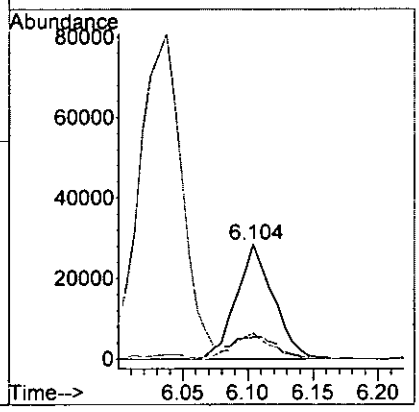


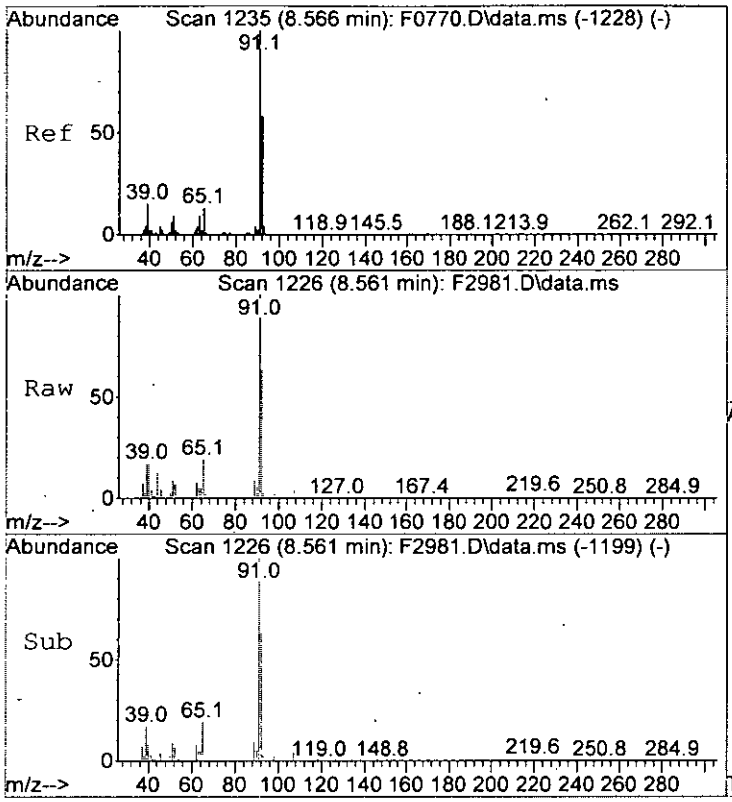


#47
Benzene
Concen: 2.30 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.006 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion: 78 Resp: 56361

Ion	Ratio	Lower	Upper
78	100		
51	18.8	0.0	27.4
52	22.7	2.5	42.5

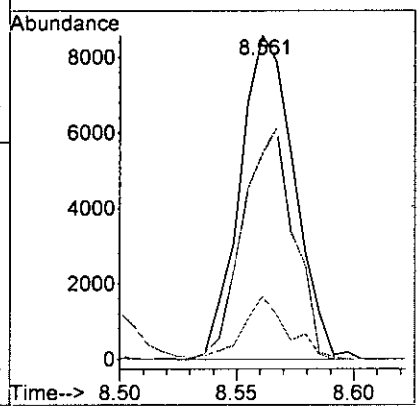


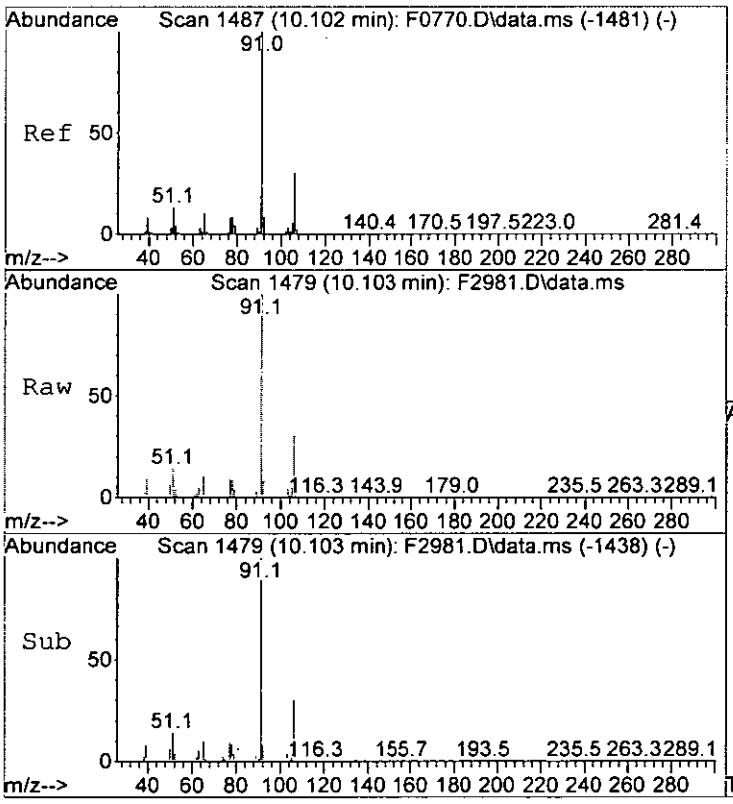


#65
Toluene
Concen: 0.54 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion: 91 Resp: 13777

Ion	Ratio	Lower	Upper
91	100		
92	63.4	38.0	78.0
65	19.3	0.0	33.0

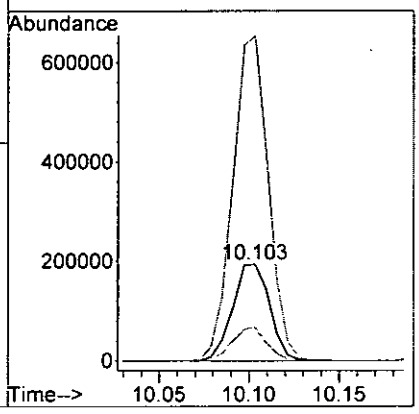




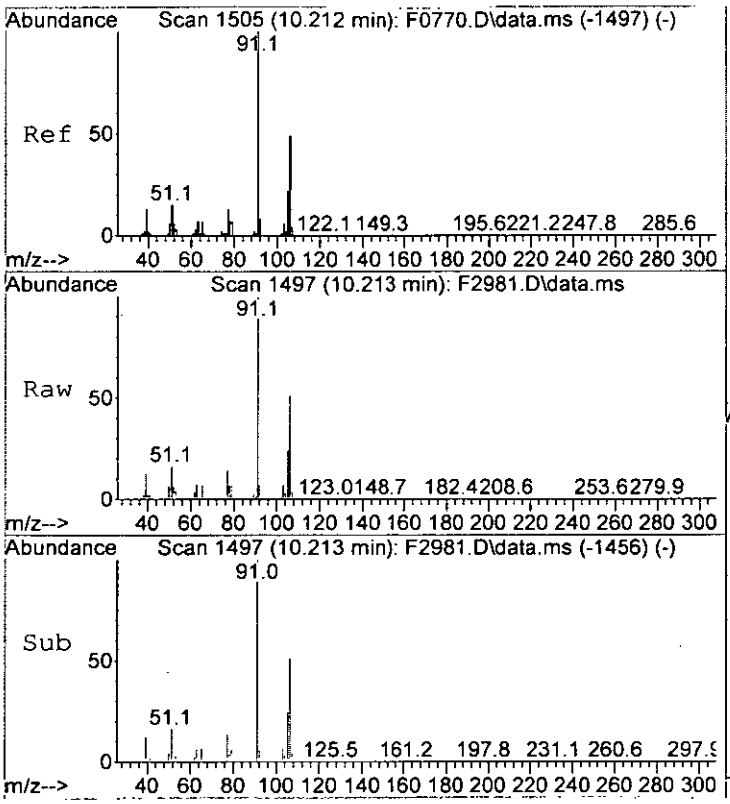
#81
Ethylbenzene
Concen: 30.70 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:106 Resp: 277246

Ion	Ratio	Lower	Upper
106	100		
91	338.1	311.8	351.8
65	34.8	12.0	52.0



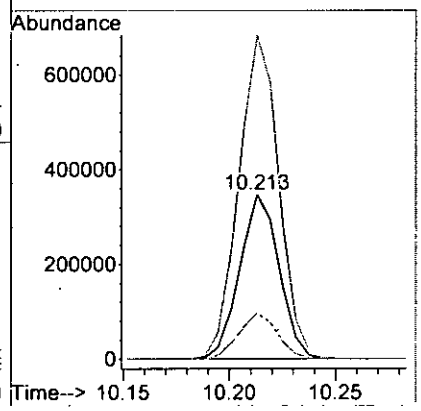
00234

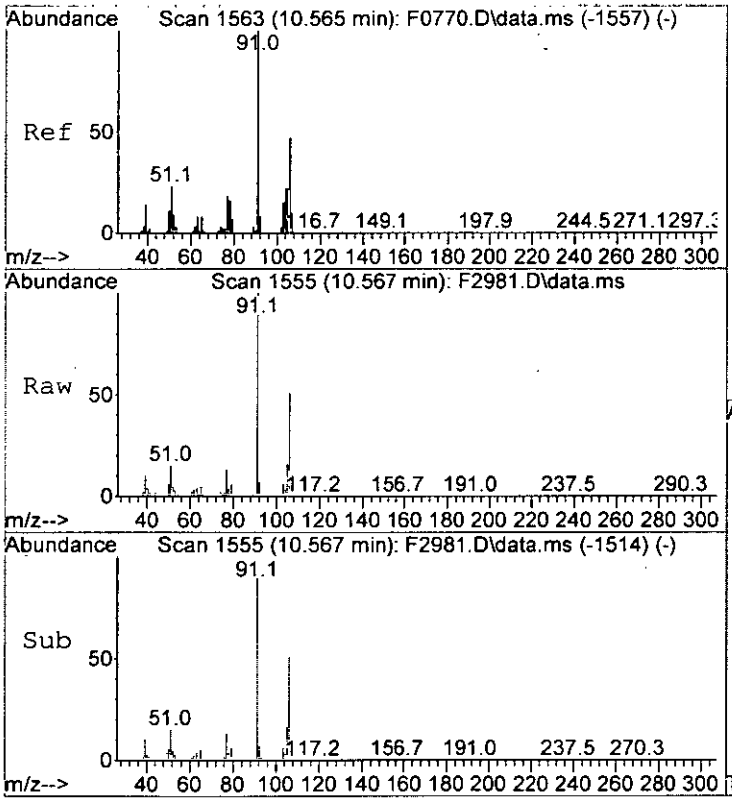


#82
(m+p)Xylene
Concen: 41.76 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. -0.000 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:106 Resp: 443738

Ion	Ratio	Lower	Upper
106	100		
91	196.7	183.1	223.1
77	27.5	6.9	46.9

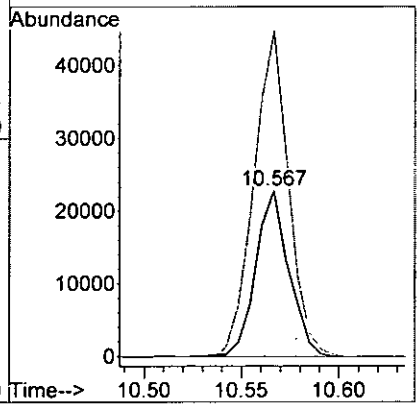


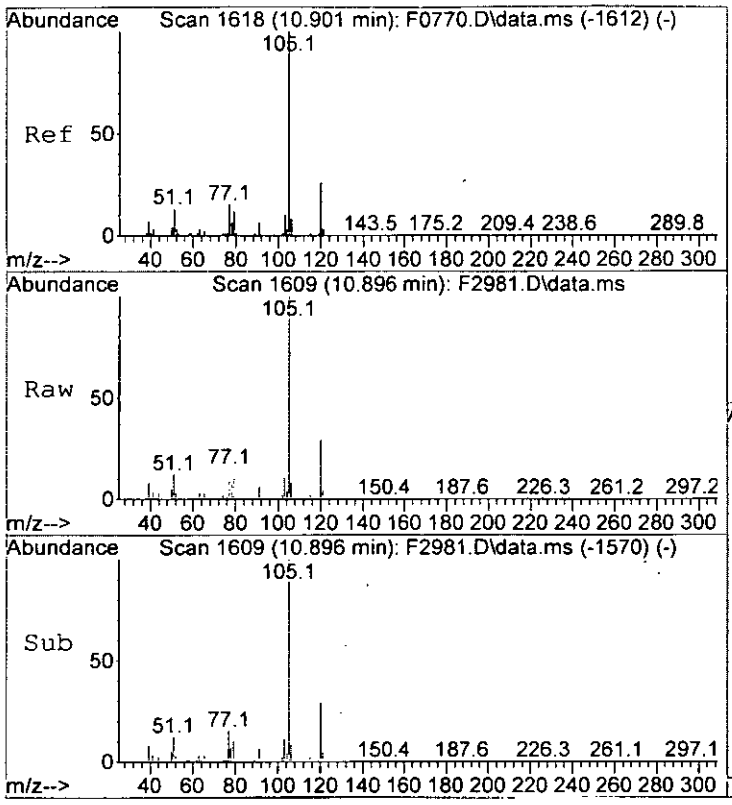


#83
o-Xylene
Concen: 2.42 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:106 Resp: 26803

Ion	Ratio	Lower	Upper
106	100		
91	196.1	192.0	232.0

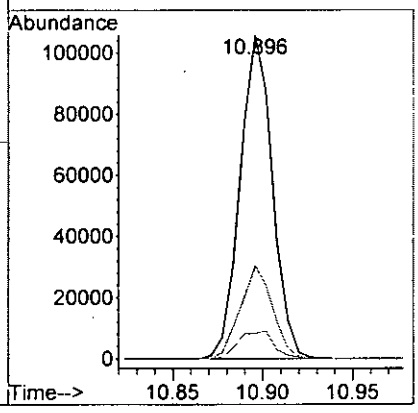


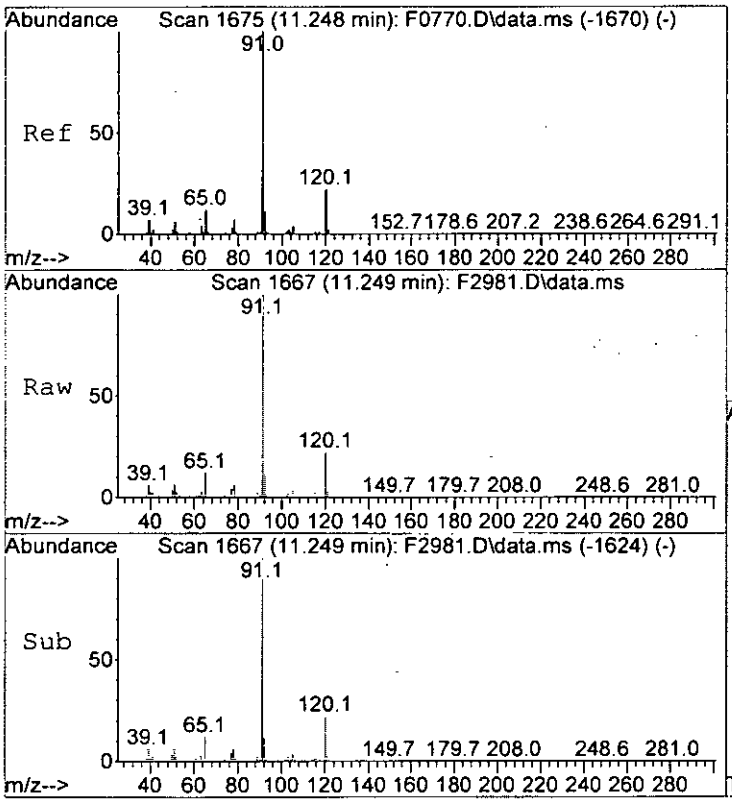


#87
Isopropylbenzene
Concen: 4.87 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:105 Resp: 132693

Ion	Ratio	Lower	Upper
105	100		
120	28.6	5.8	45.8
106	7.8	0.0	28.3

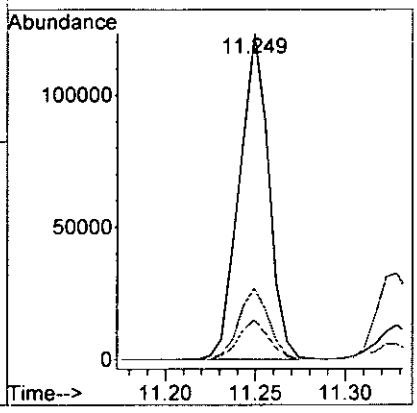




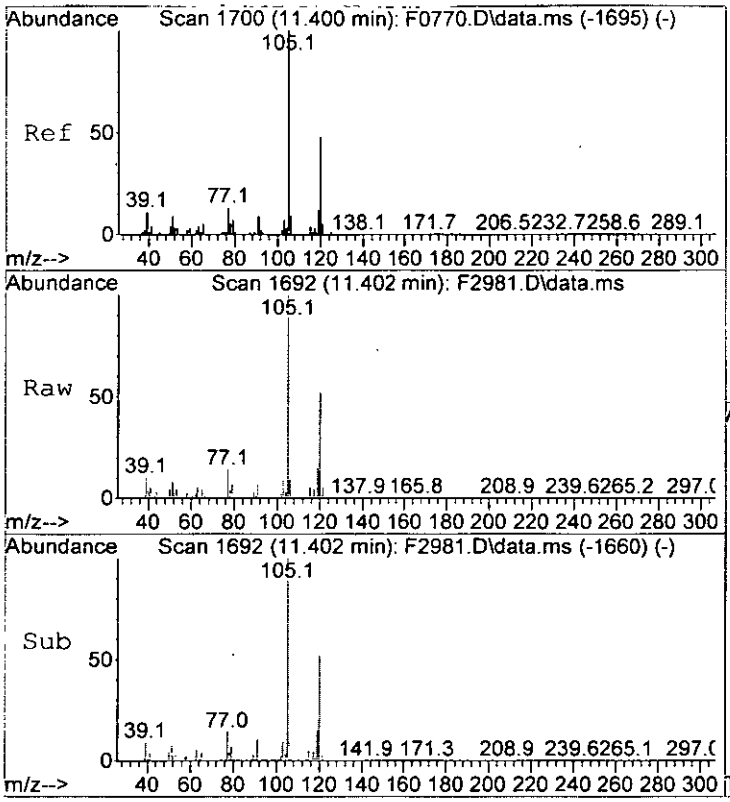
#94
n-Propylbenzene
Concen: 4.52 ug/L
RT: 11.249 min Scan# 1667
Delta R.T. -0.000 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion: 91 Resp: 140758

Ion	Ratio	Lower	Upper
91	100		
120	21.8	2.1	42.1
65	12.1	0.0	31.7



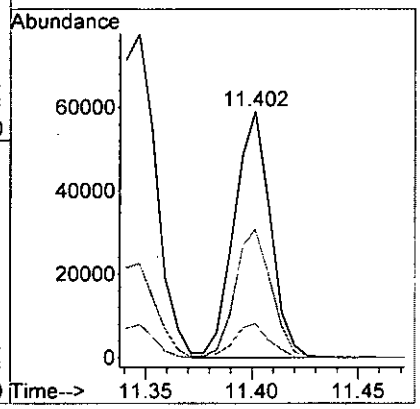
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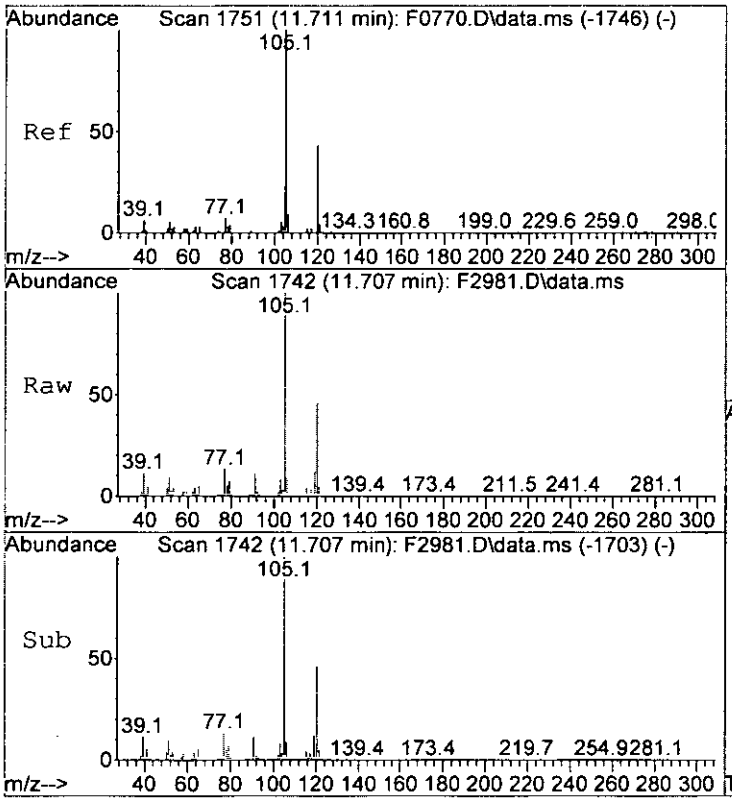


#98
1,3,5-Trimethylbenzene
Concen: 3.16 ug/L
RT: 11.402 min Scan# 1692
Delta R.T. -0.000 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:105 Resp: 69750

Ion	Ratio	Lower	Upper
105	100		
120	51.9	27.9	67.9
77	13.8	0.0	32.8

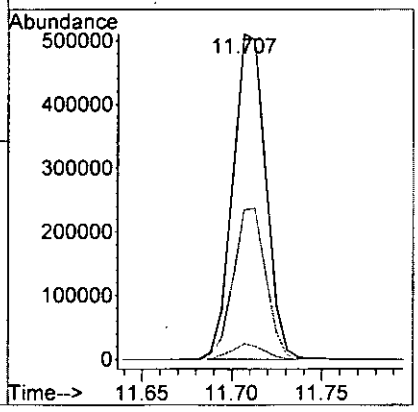


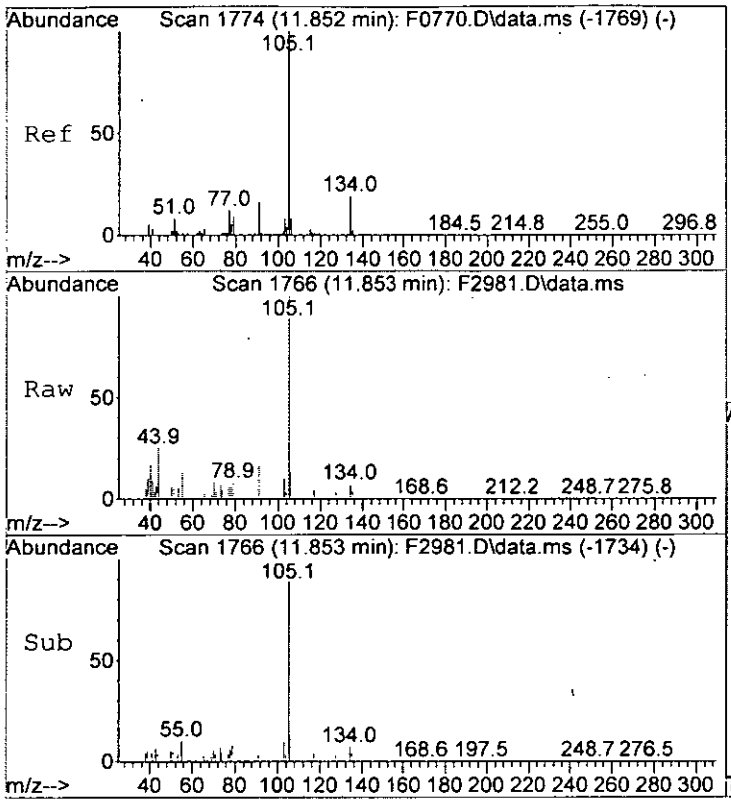


#100
1,2,4-Trimethylbenzene
Concen: 28.95 ug/L
RT: 11.707 min Scan# 1742
Delta R.T. -0.006 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:105 Resp: 651821

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.4	63.4
65	4.7	0.0	22.7

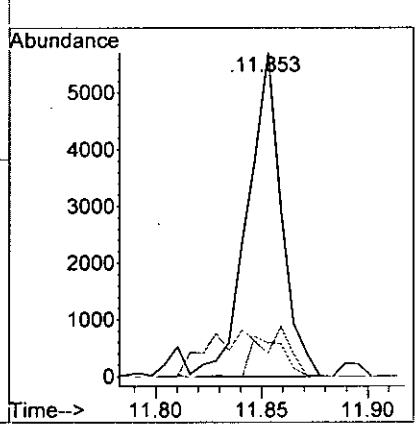


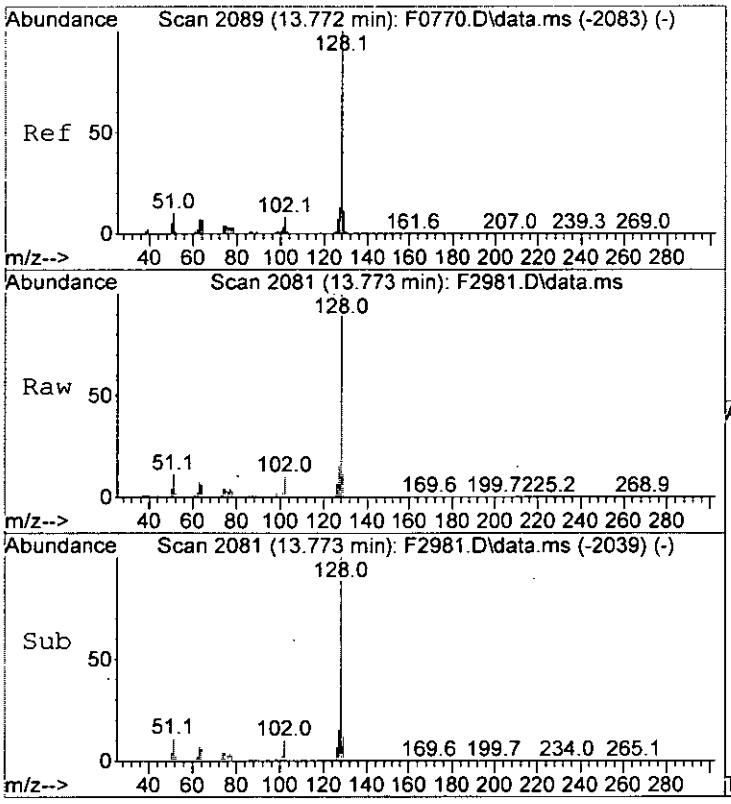


#102
sec-Butylbenzene
Concen: 0.23 ug/L
RT: 11.853 min Scan# 1766
Delta R.T. -0.000 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:105 Resp: 6324

Ion	Ratio	Lower	Upper
105	100		
134	7.2	0.0	39.0
103	10.4	0.0	28.1

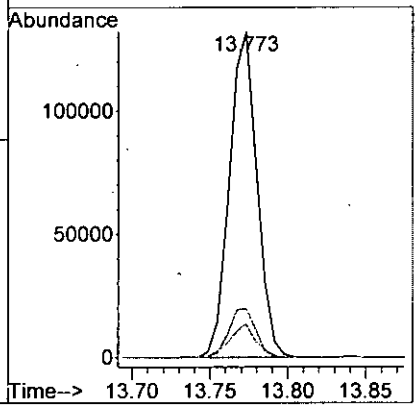




#116
Naphthalen
Concen: 5.35 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. -0.000 min
Lab File: F2981.D
Acq: 9 Oct 2015 4:14 pm

Tgt Ion:128 Resp: 162940

Ion	Ratio	Lower	Upper
128	100		
127	15.0	0.0	32.8
102	10.2	0.0	28.1



00238

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2981.D\data.ms

FN 10/14/15

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.257	22	28	30	rBV2	43533	70416	2.35%	0.238%
2	1.294	30	34	36	rVV2	25011	45427	1.51%	0.153%
3	1.593	71	83	91	rVB5	100798	354527	11.81%	1.198%
4	1.763	107	111	119	rVB	128404	177310	5.91%	0.599%
5	1.983	142	147	153	rVB	41175	53152	1.77%	0.180%
6	2.842	279	288	292	rBV3	32863	69886	2.33%	0.236%
7	2.934	299	303	308	rVB2	56215	83716	2.79%	0.283%
8	3.178	333	343	350	rBV4	34532	77435	2.58%	0.262%
9	3.836	444	451	460	rVB5	14401	35792	1.19%	0.121%
10	3.946	460	469	475	rBV6	13545	35400	1.18%	0.120%
11	4.019	475	481	487	rBV4	13021	30046	1.00%	0.102%
12	4.434	539	549	560	rVB3	75846	224251	7.47%	0.758%
13	5.519	717	727	735	rBV2	341931	911840	30.39%	3.081%
14	5.592	735	739	743	rVV3	39921	93507	3.12%	0.316%
15	5.671	743	752	770	rVB2	679613	1772217	59.06%	5.988%
16	6.031	801	811	819	rBV	478566	1098685	36.61%	3.712%
17	6.104	819	823	831	rVB3	62402	132635	4.42%	0.448%
18	6.244	834	846	852	rBV5	44981	117254	3.91%	0.396%
19	6.720	915	924	932	rBV	1117748	2218590	73.94%	7.497%
20	7.707	1078	1086	1087	rBV3	19897	35130	1.17%	0.119%
21	7.726	1087	1089	1096	rVB3	23022	39089	1.30%	0.132%
22	8.494	1207	1215	1222	rBV	1825104	3000729	100.00%	10.139%
23	8.567	1222	1227	1230	rVB	24511	38101	1.27%	0.129%
24	9.957	1449	1455	1465	rVB	2002619	2640949	88.01%	8.924%
25	10.103	1473	1479	1485	rBV	1566262	2164501	72.13%	7.314%
26	10.213	1490	1497	1503	rBV	2124961	2732425	91.06%	9.233%
27	10.567	1550	1555	1560	rVB	124977	163606	5.45%	0.553%
28	10.896	1604	1609	1615	rBV	275562	351537	11.72%	1.188%
29	11.018	1622	1629	1635	rBV	1618601	2065480	68.83%	6.979%
30	11.249	1659	1667	1672	rVB	256354	307326	10.24%	1.038%
31	11.329	1674	1680	1682	rBV	266059	406048	13.53%	1.372%
32	11.402	1688	1692	1700	rVB	184992	223898	7.46%	0.757%
33	11.566	1714	1719	1730	rVB	712856	864615	28.81%	2.921%
34	11.707	1737	1742	1748	rBV	1527735	1922770	64.08%	6.497%
35	11.987	1782	1788	1794	rBV	2266057	2732264	91.05%	9.232%

00239

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	12.054	1794	1799	1807	rVB	356796	420276	14.01%	1.420%
37	12.213	1820	1825	1833	rVB	689773	838934	27.96%	2.835%
38	12.286	1833	1837	1844	rVB3	25143	39537	1.32%	0.134%
39	12.383	1849	1853	1857	rBV3	24139	36445	1.21%	0.123%
40	12.505	1868	1873	1875	rBV2	34402	38582	1.29%	0.130%
41	12.591	1881	1887	1890	rBV	51959	62205	2.07%	0.210%
42	12.676	1896	1901	1908	rVB2	121189	164581	5.48%	0.556%
43	12.828	1920	1926	1930	rBV2	21816	32378	1.08%	0.109%
44	12.908	1935	1939	1942	rVV3	31993	45562	1.52%	0.154%
45	12.944	1942	1945	1949	rVB	33898	40446	1.35%	0.137%
46	13.158	1974	1980	1986	rBV	43783	59304	1.98%	0.200%
47	13.279	1996	2000	2005	rVB2	125825	168504	5.62%	0.569%
48	13.773	2075	2081	2089	rBV	277859	357613	11.92%	1.208%

Sum of corrected areas: 29594921

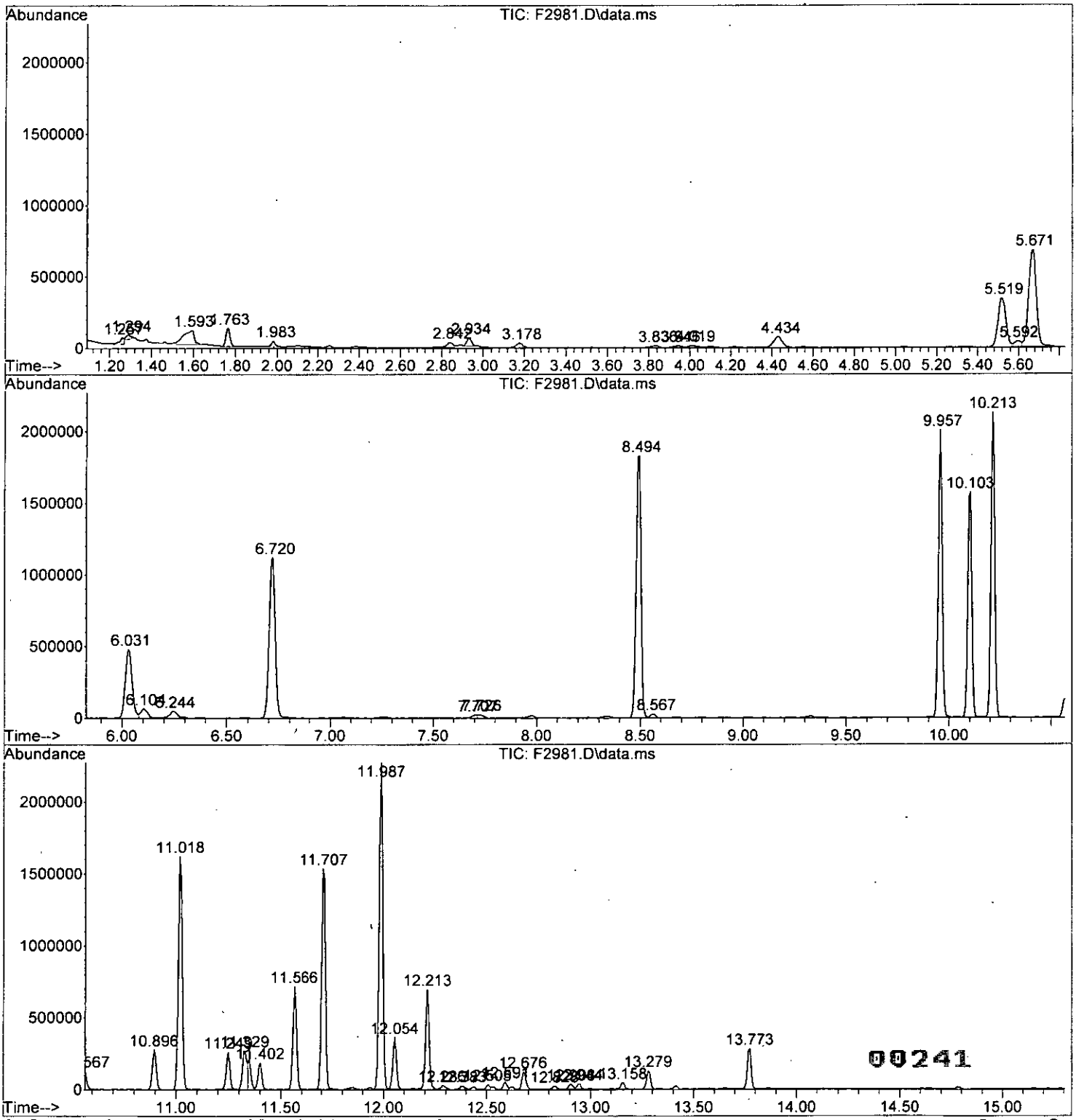
00240

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

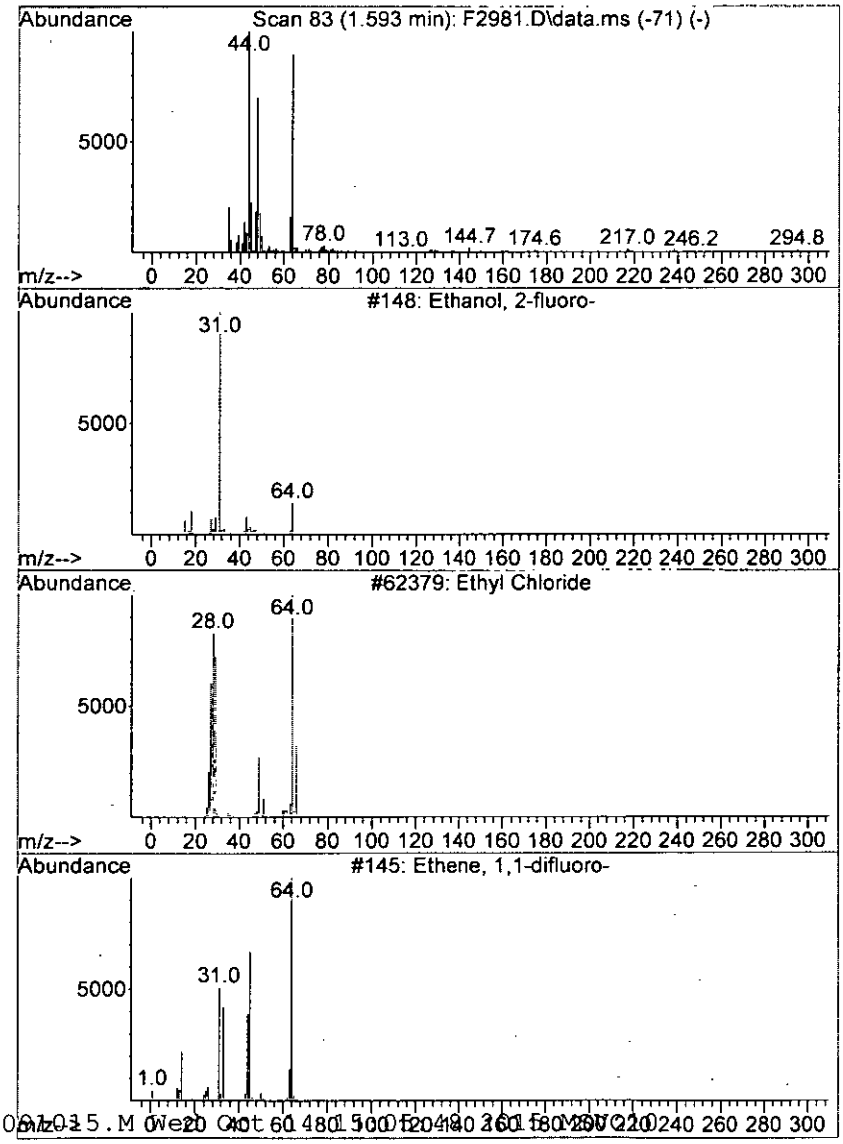
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

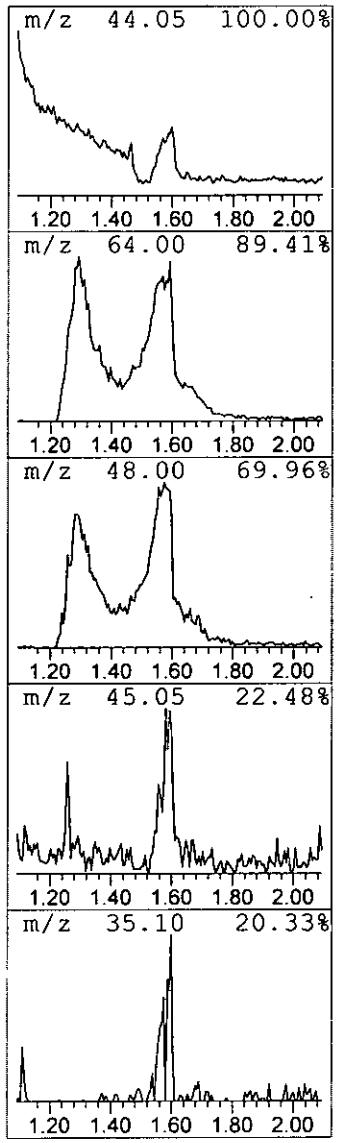
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Peak Number 1 Ethanol, 2-fluoro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.593	10.00 ug/L	354527	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-fluoro-	64	C2H5FO	000371-62-0	9
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	7
3	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	7
4	Ethyl Chloride	64	C2H5Cl	000075-00-3	7
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	5





00242

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

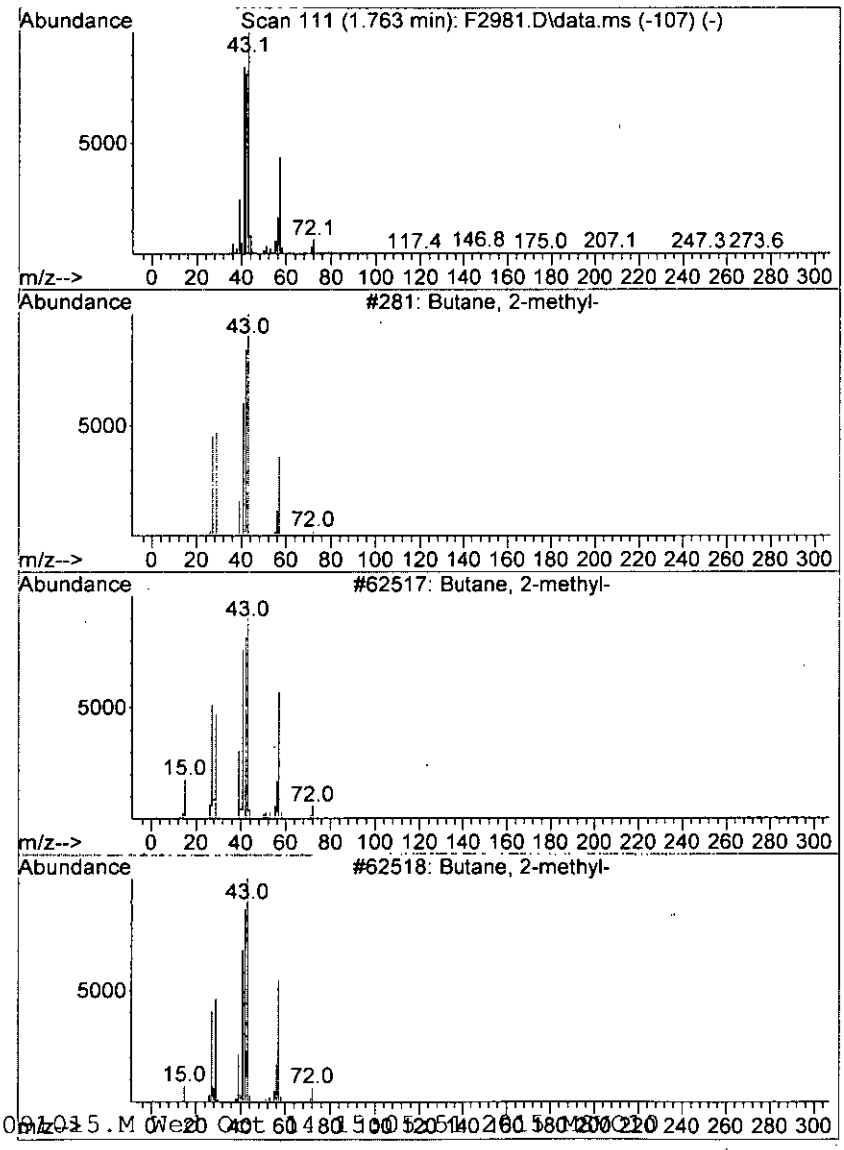
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TIC Integration Parameters: LSCINT.P

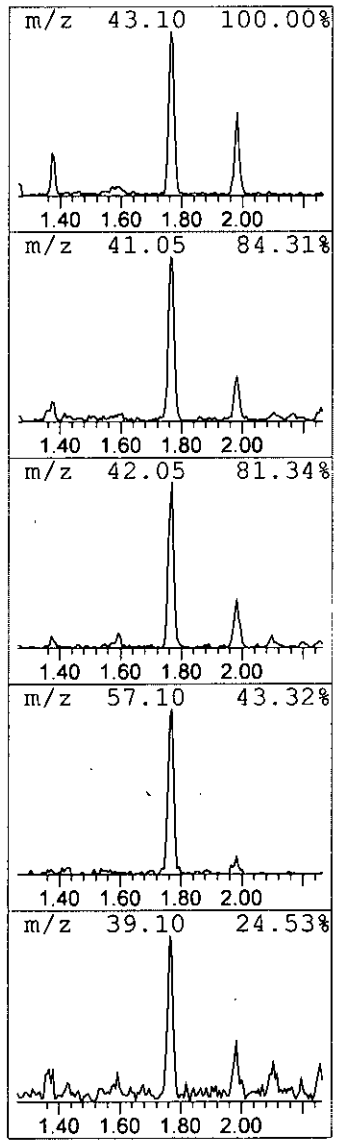
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Peak Number 2 Butane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.763	5.00 ug/L	177310	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	Butane, 2-methyl-	72	C5H12	000078-78-4	80
4	3-Buten-1-ol	72	C4H8O	000627-27-0	47
5	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	40





00243

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

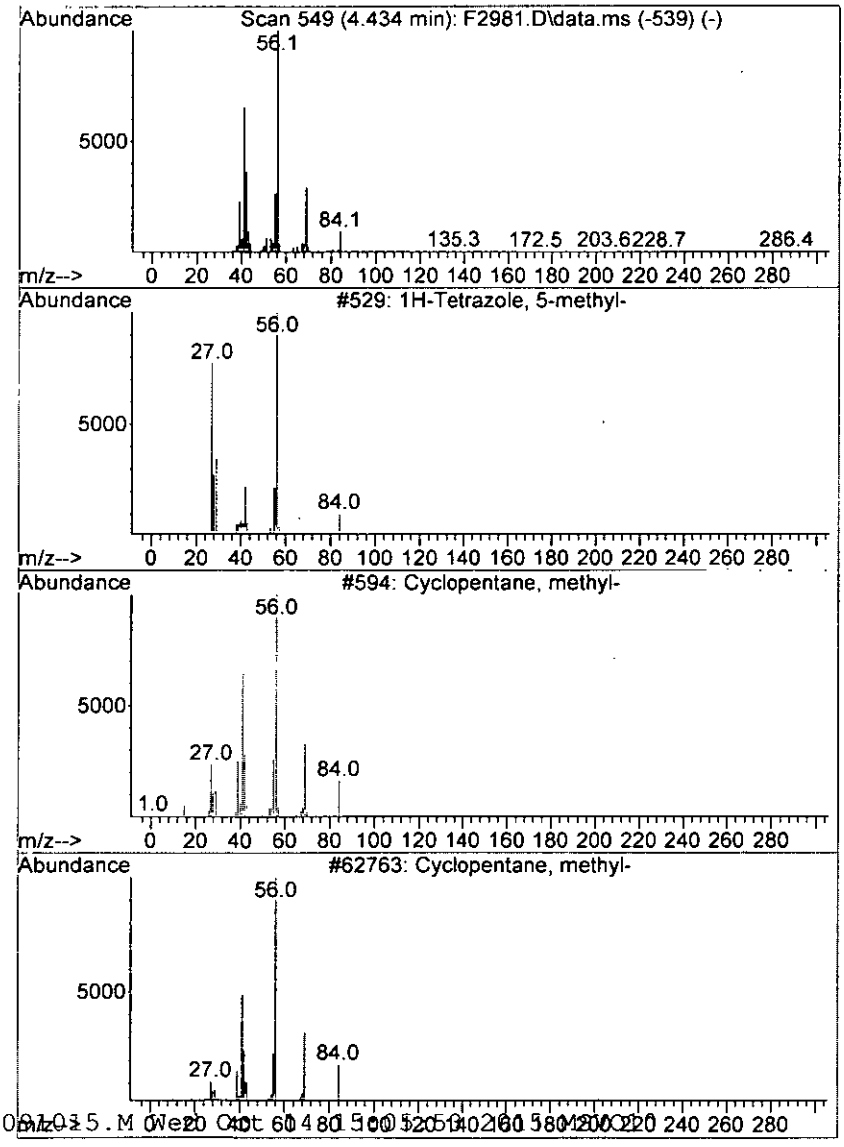
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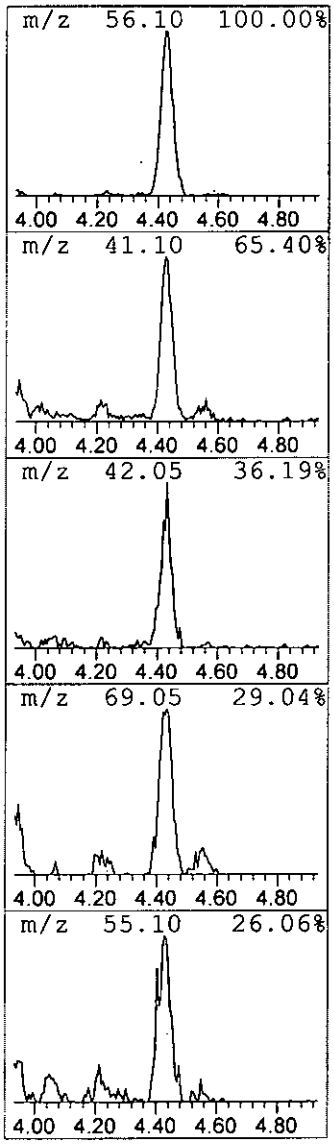
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Peak Number 3 1H-Tetrazole, 5-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.434	6.33 ug/L	224251	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	78
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
4	Cyclopropane, propyl-	84	C6H12	002415-72-7	72
5	Cyclobutane, ethyl-	84	C6H12	004806-61-5	56





00244

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

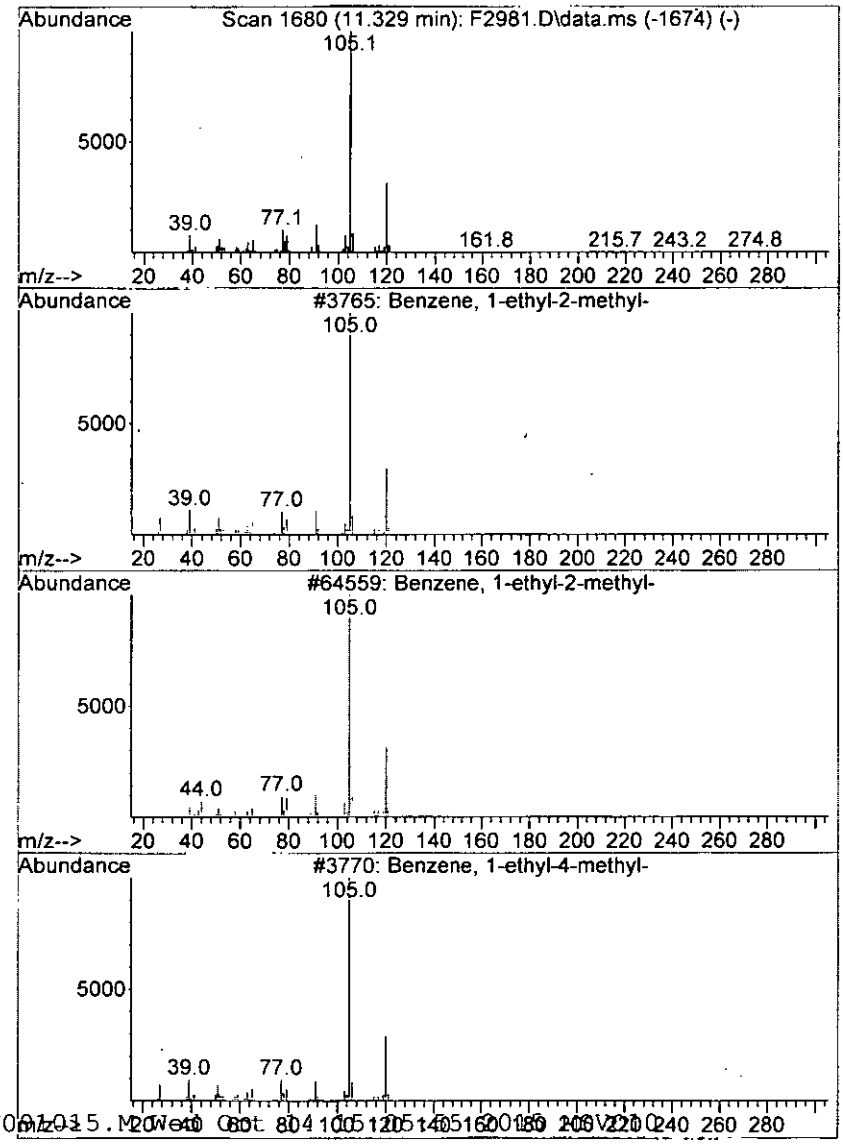
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TIC Integration Parameters: LSCINT.P

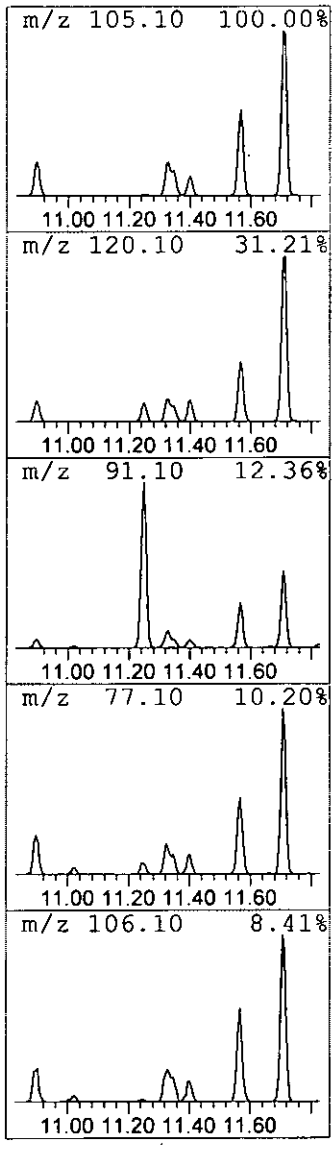
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Peak Number 4 Benzene, 1-ethyl-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.329	7.43 ug/L	406048	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	95
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94





00245

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

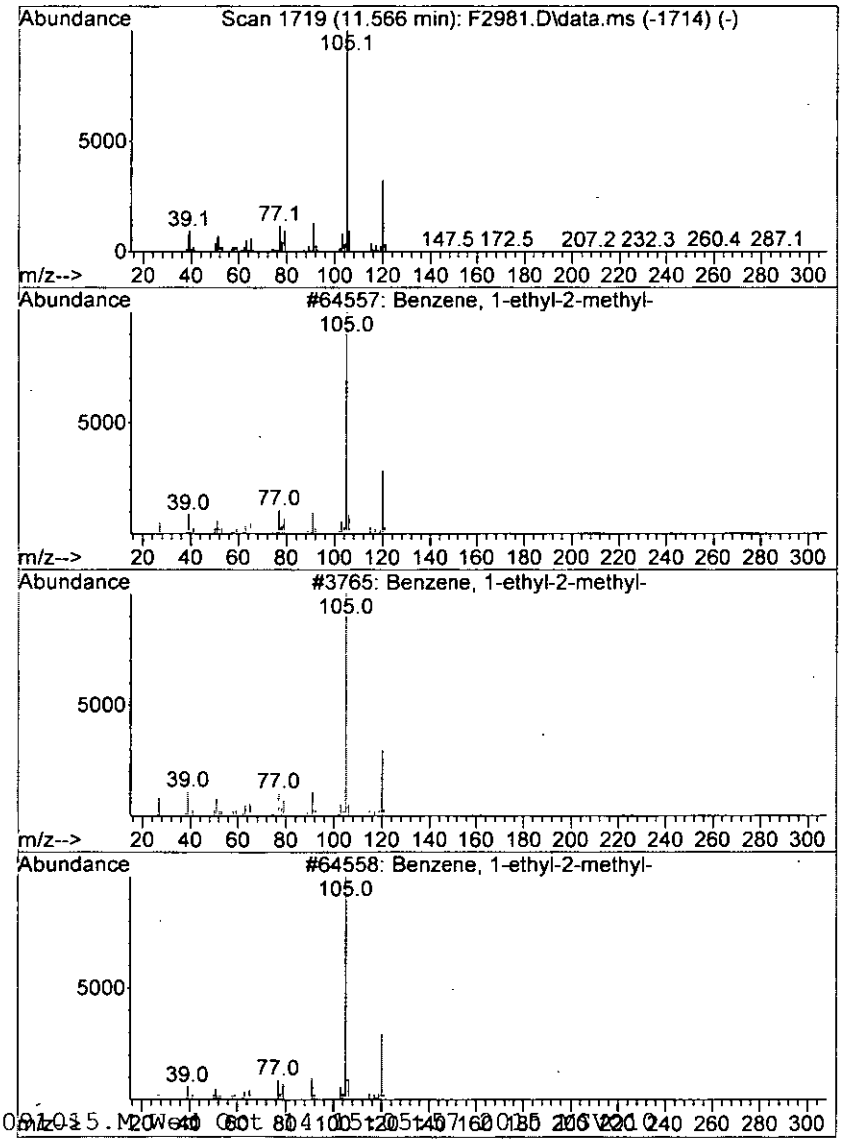
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

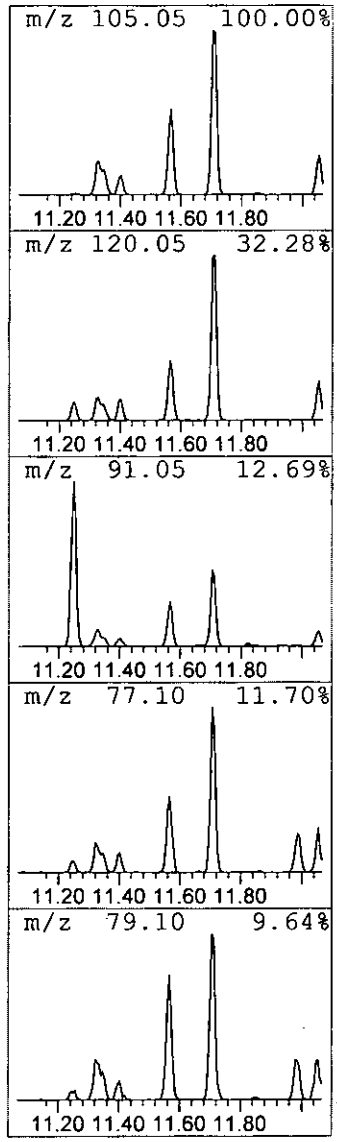
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.566	15.82 ug/L	864615	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94





00246

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

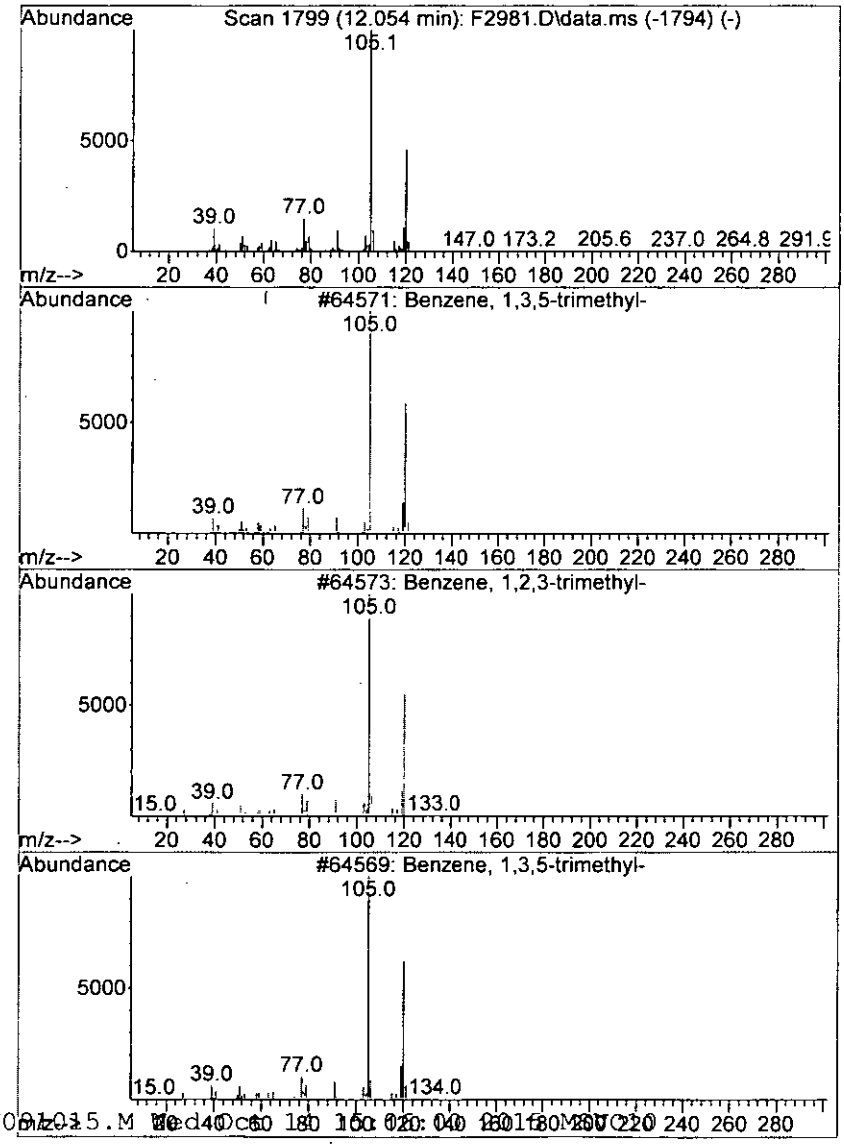
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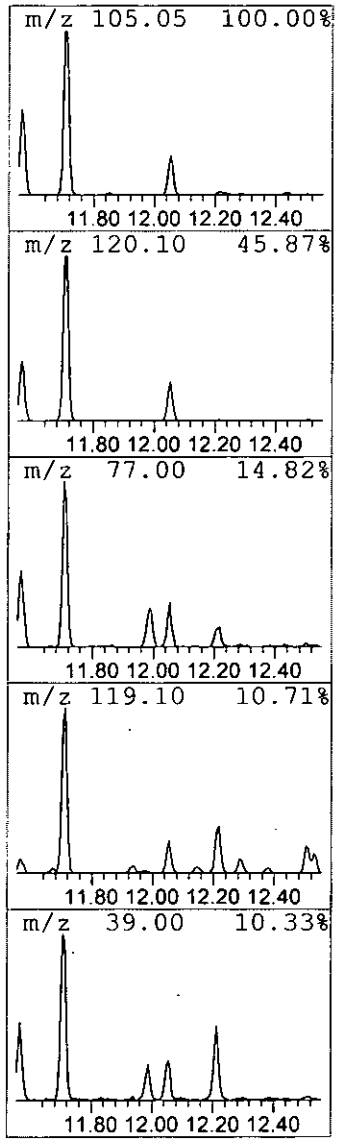
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Peak Number 6 Benzene, 1,3,5-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.054	7.69 ug/L	420276	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	97
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95





00247

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2981.D
Acq On : 9 Oct 2015 4:14 pm
Operator : F. Naegler
Sample : R1508244-010|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

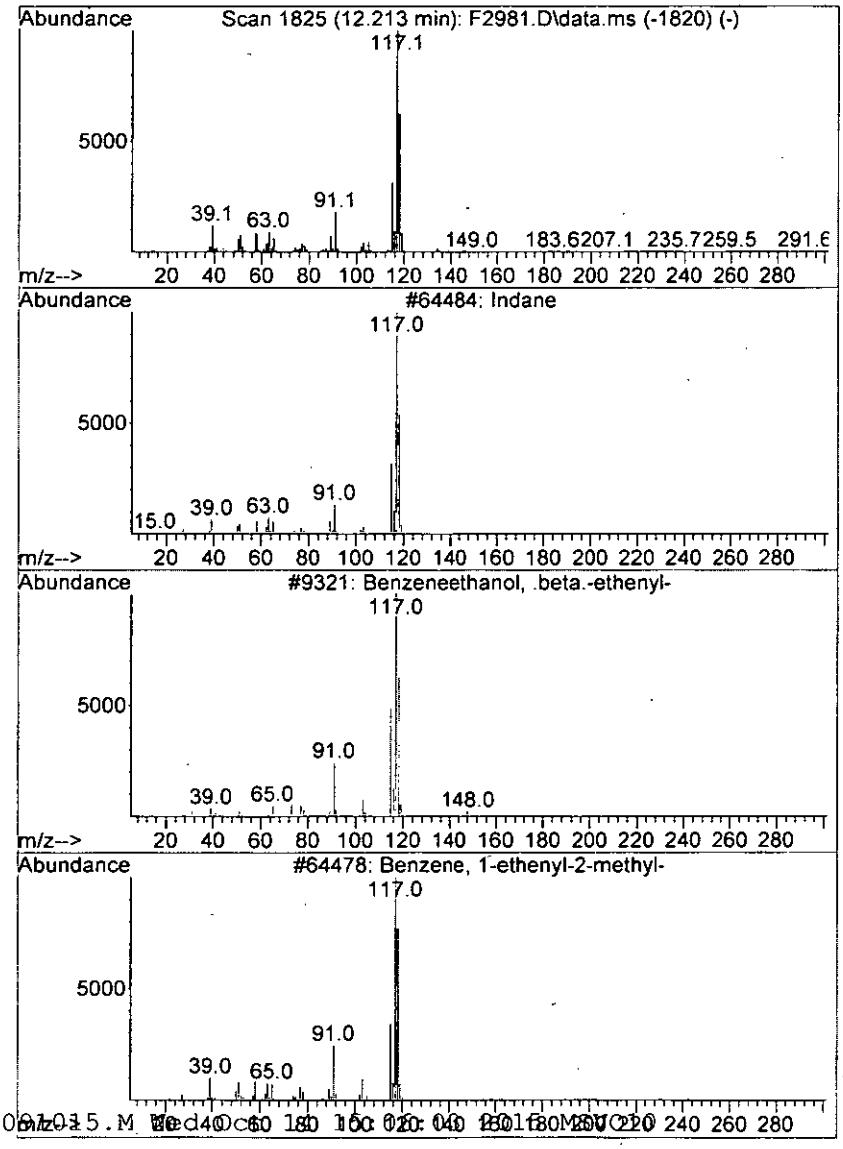
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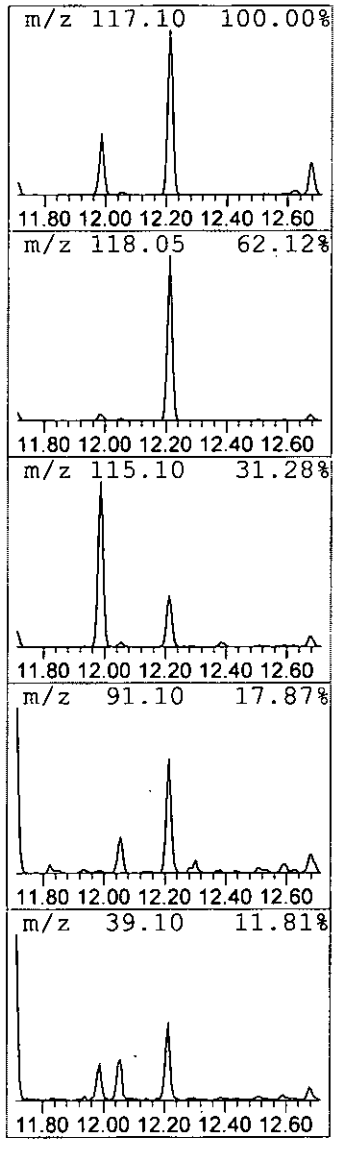
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Peak Number 7 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	15.35 ug/L	838934	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	87
2	Benzeneethanol, .beta.-ethenyl-	148	C10H12O	006052-63-7	83
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	81
4	Indane	118	C9H10	000496-11-7	81
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72





00248

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1240
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:38
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1508244-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	1.9	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00249

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1240
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:38
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1508244-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.26**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**22**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**2.9**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**20**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**2.8**	J	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00250

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1240
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 16:38
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	Percent
Lab Code:	R1508244-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2982.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 16:38	
Dibromofluoromethane	90	85-115	10/9/15 16:38	
Toluene-d8	96	85-120	10/9/15 16:38	

00251

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1638

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1508244-011	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2982.D
Acq On : 9 Oct 2015 4:38 pm
Operator : F. Naegler
Sample : R1508244-011|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 15:10:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	640632	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	950965	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	834329	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	450823	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	276614	45.08	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 90.16%			
46) surr1,1,2-dichloroetha...	6.031	65	387126	44.50	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 89.00%			
64) SURR3,Toluene-d8	8.488	98	1076267	48.13	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.26%			
69) SURR2,BFB	11.018	95	413587	44.78	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.56%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	2045	0.26	ug/L	65
4) Vinyl Chloride	1.379	62	19483	2.91	ug/L	94
15) Acetone	2.416	43	10403	1.90	ug/L	81
17) Iodomethane	2.507	142	958	1.77	ug/L	96
26) trans-1,2-Dichloroethene	3.166	96	15892	2.76	ug/L	90
33) cis-1,2-Dichloroethene	4.617	96	133244m	19.87	ug/L	
53) Trichloroethene	7.031	130	166819	22.08	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

FW 10/14/15

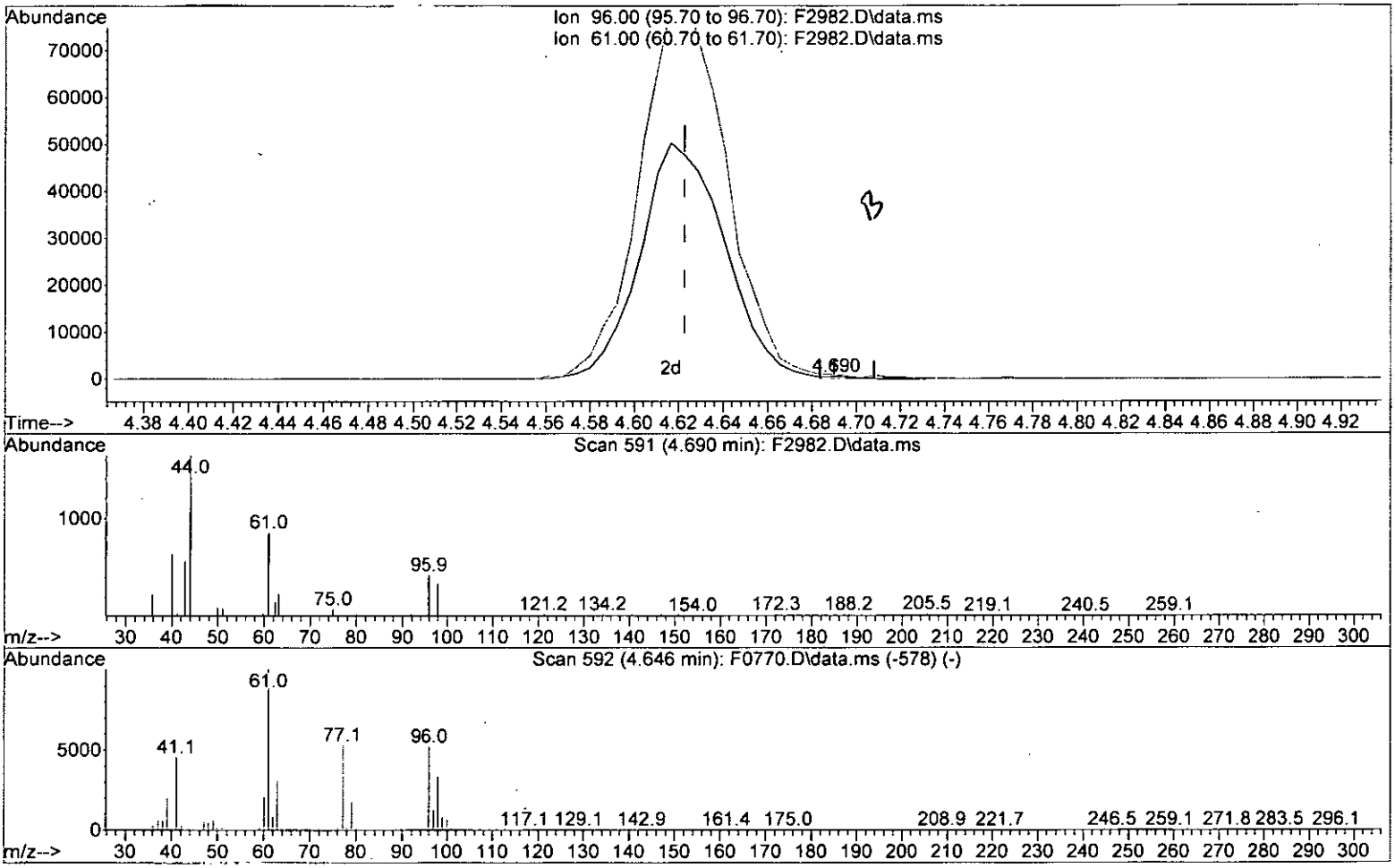
KR 10/14/15

00253

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2982.D
Acq On : 9 Oct 2015 4:38 pm
Operator : F. Naegler
Sample : R1508244-011|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 09 16:52:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2982.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.690min (+0.067) 0.04 ug/L

response 269

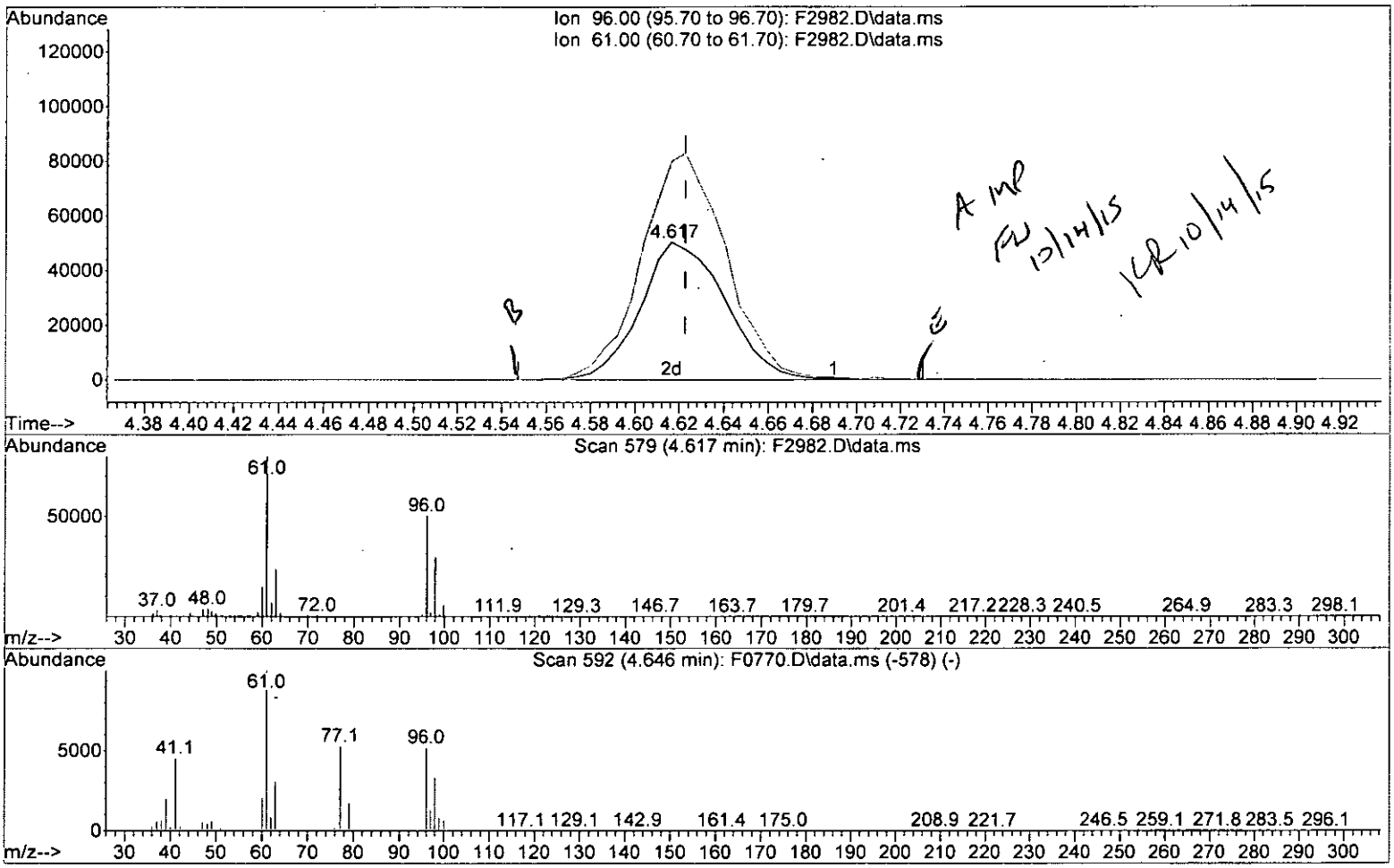
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	202.61
0.00	0.00	0.00
0.00	0.00	0.00

00254

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2982.D
Acq On : 9 Oct 2015 4:38 pm
Operator : F. Naegler
Sample : R1508244-011|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 09 16:52:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2982.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (-0.006) 19.87 ug/L m

response 133244

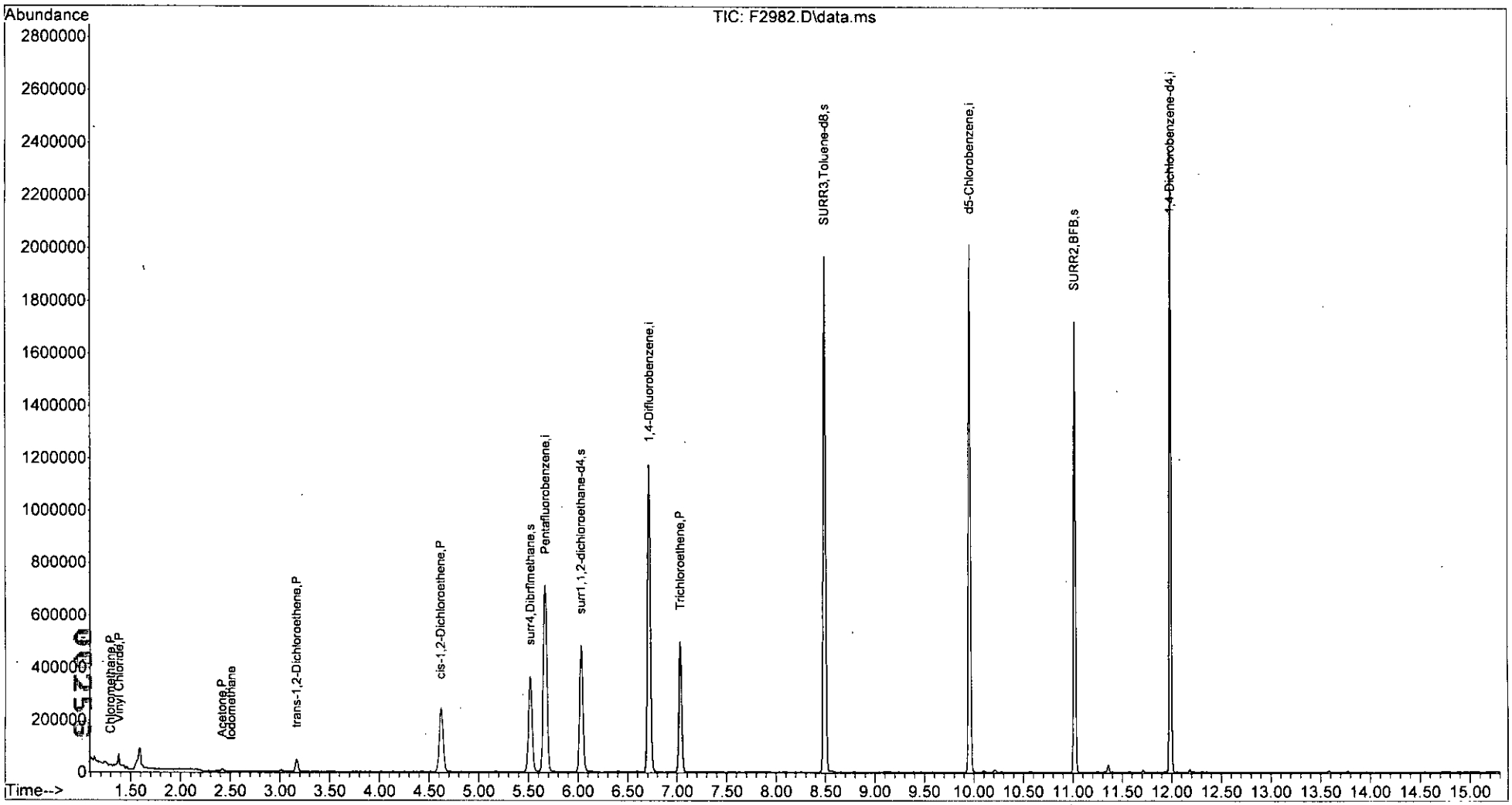
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	158.64#
0.00	0.00	0.00
0.00	0.00	0.00

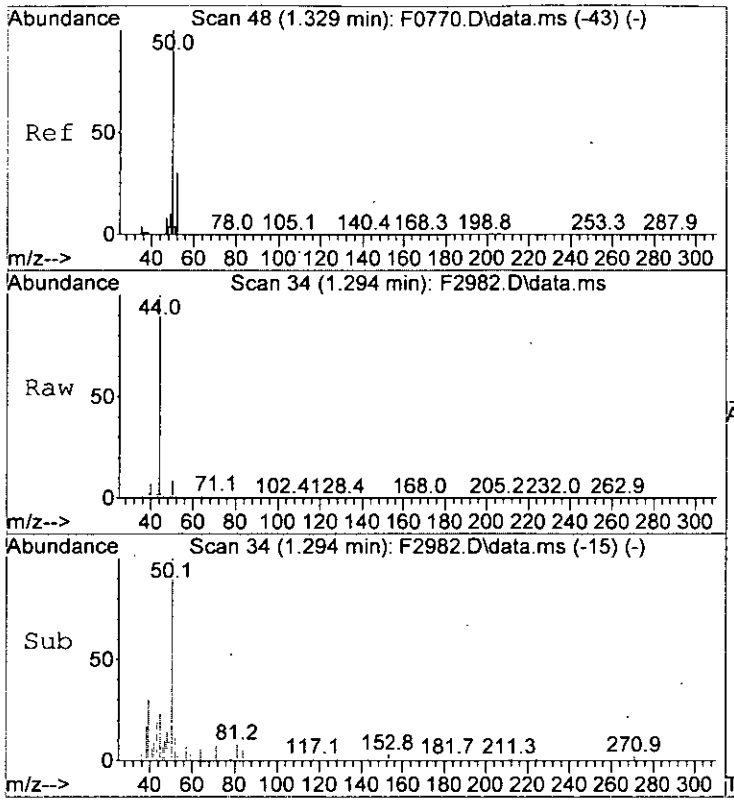
00255

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2982.D
Acq On : 9 Oct 2015 4:38 pm
Operator : F. Naegler
Sample : R1508244-011|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 15:10:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

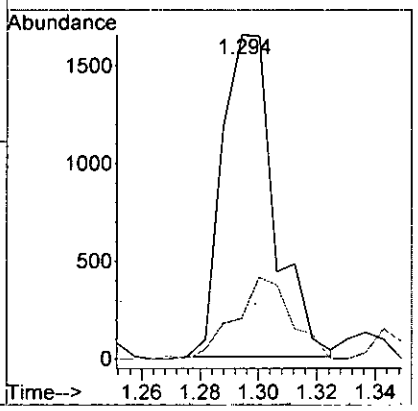


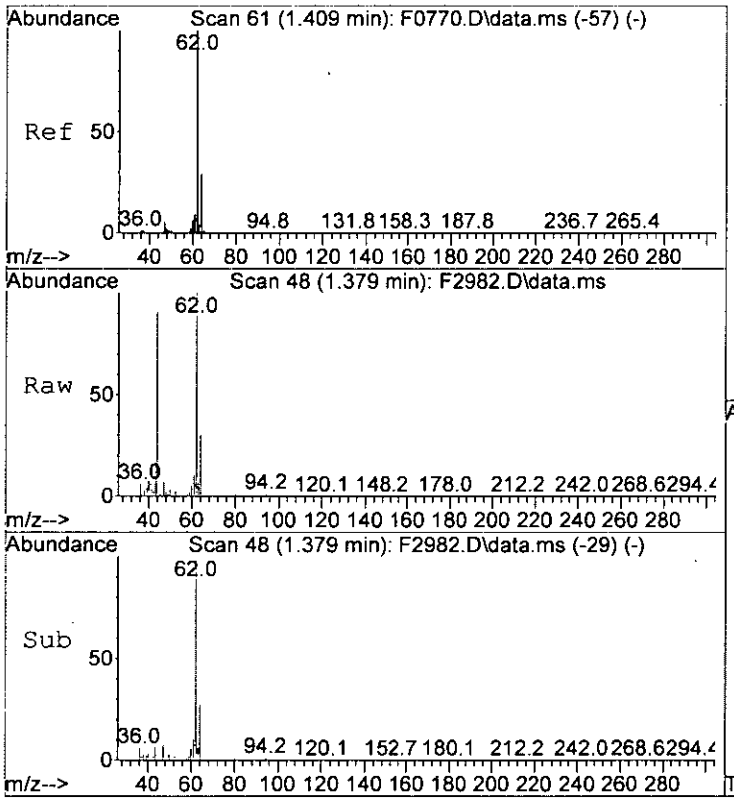


#3
Chloromethane
Concen: 0.26 ug/L
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: F2982.D
Acq: 9 Oct 2015 4:38 pm

Tgt Ion: 50 Resp: 2045

Ion	Ratio	Lower	Upper
50	100		
52	12.4	12.0	52.0

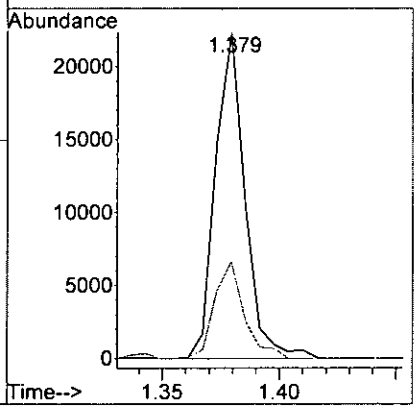




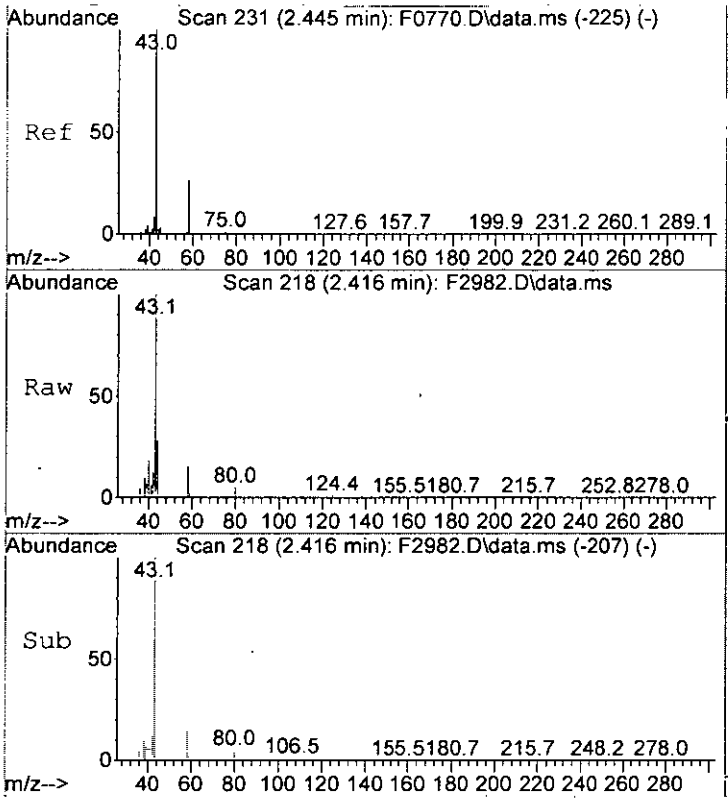
#4
Vinyl Chloride
Concen: 2.91 ug/L
RT: 1.379 min Scan# 48
Delta R.T. -0.000 min
Lab File: F2982.D
Acq: 9 Oct 2015 4:38 pm

Tgt Ion: 62 Resp: 19483

Ion	Ratio	Lower	Upper
62	100		
64	29.6	13.1	53.1



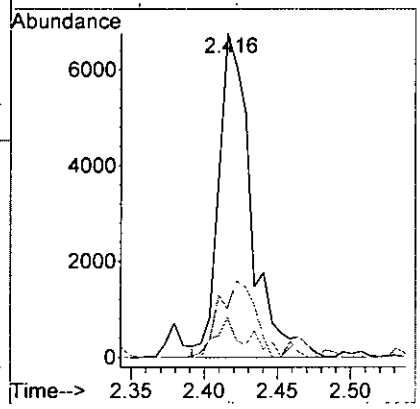
00257

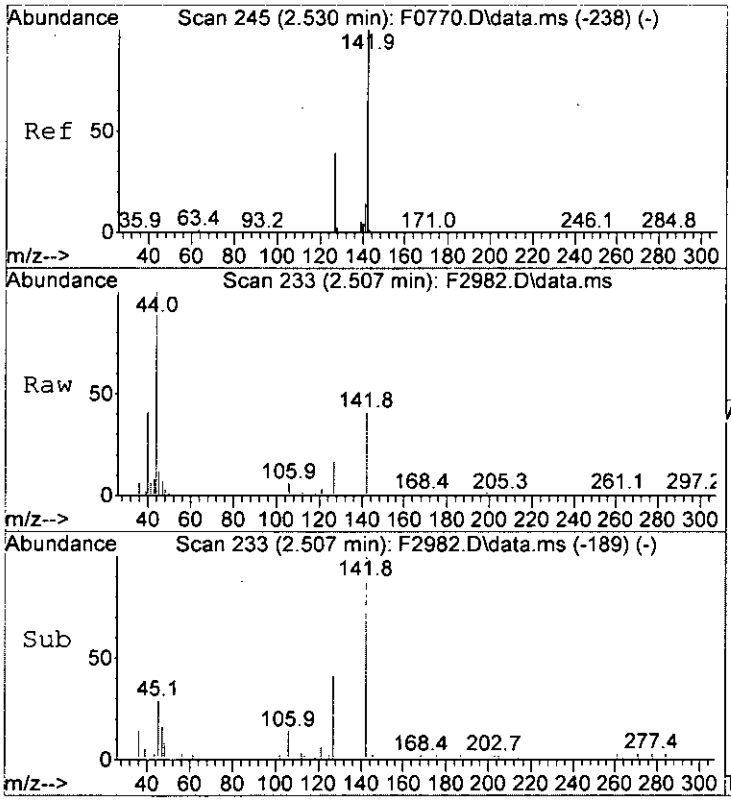


#15
Acetone
Concen: 1.90 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2982.D
Acq: 9 Oct 2015 4:38 pm

Tgt Ion: 43 Resp: 10403

Ion	Ratio	Lower	Upper
43	100		
58	15.1	6.1	46.1
42	12.1	0.0	28.3

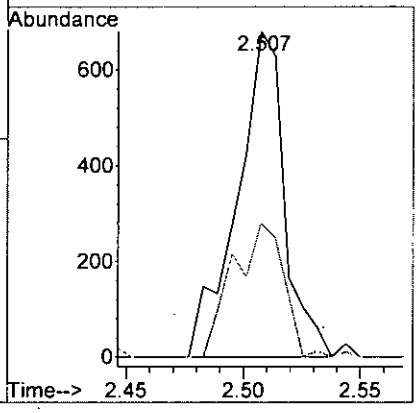




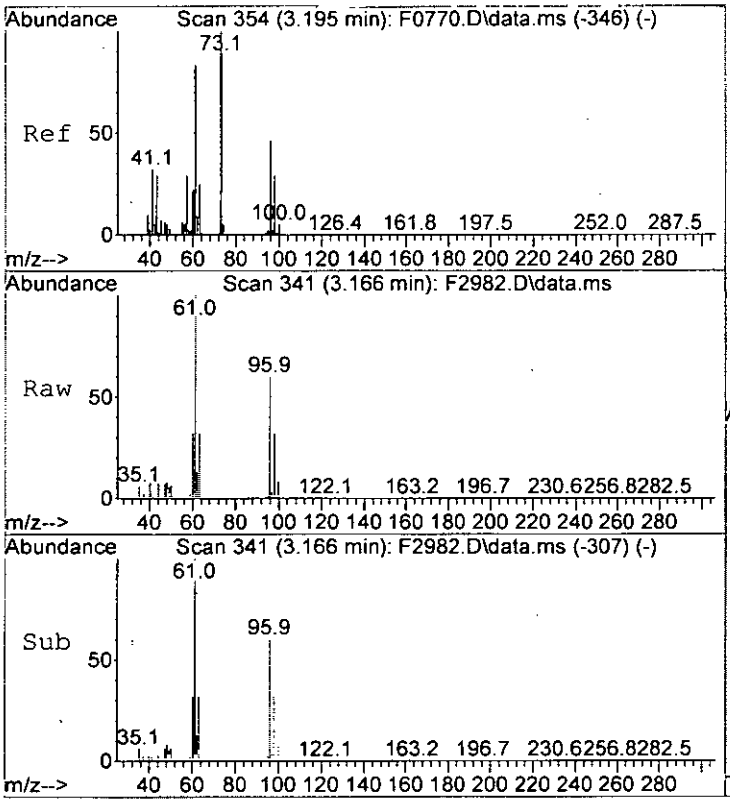
#17
Iodomethane
Concen: 1.77 ug/L
RT: 2.507 min Scan# 233
Delta R.T. 0.006 min
Lab File: F2982.D
Acq: 9 Oct 2015 4:38 pm

Tgt Ion:142 Resp: 958

Ion	Ratio	Lower	Upper
142	100		
127	41.0	18.6	58.6



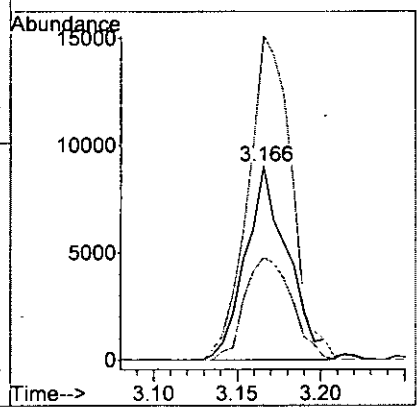
00258

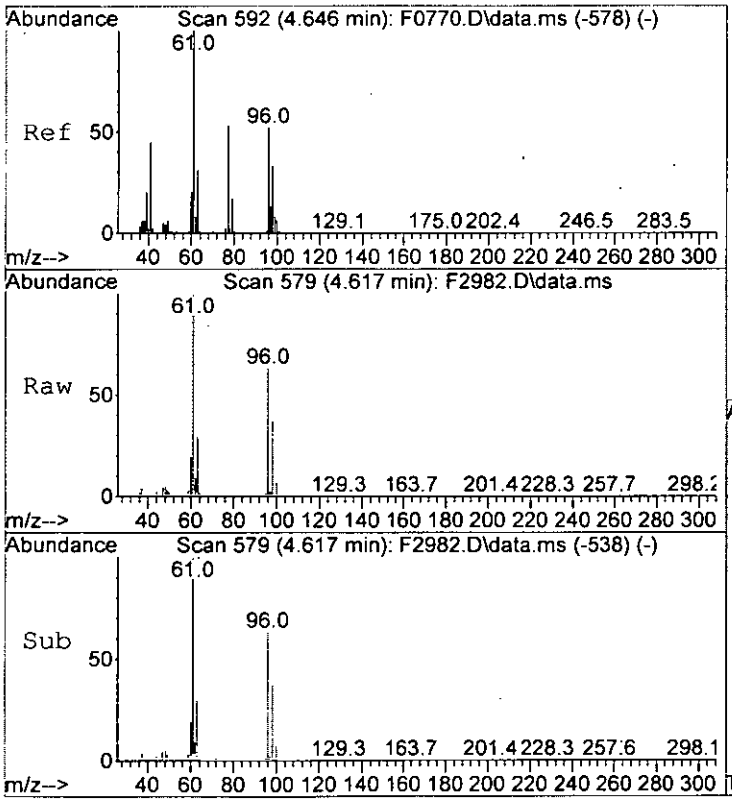


#26
trans-1,2-Dichloroethene
Concen: 2.76 ug/L
RT: 3.166 min Scan# 341
Delta R.T. -0.000 min
Lab File: F2982.D
Acq: 9 Oct 2015 4:38 pm

Tgt Ion: 96 Resp: 15892

Ion	Ratio	Lower	Upper
96	100		
98	52.8	42.9	82.9
61	167.2	160.6	200.6

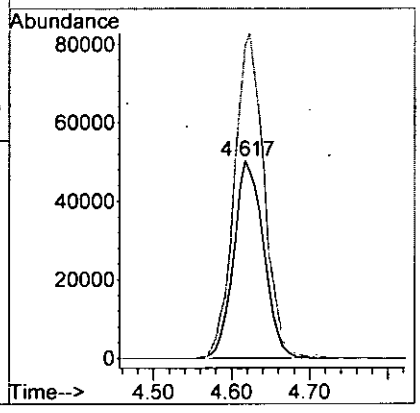




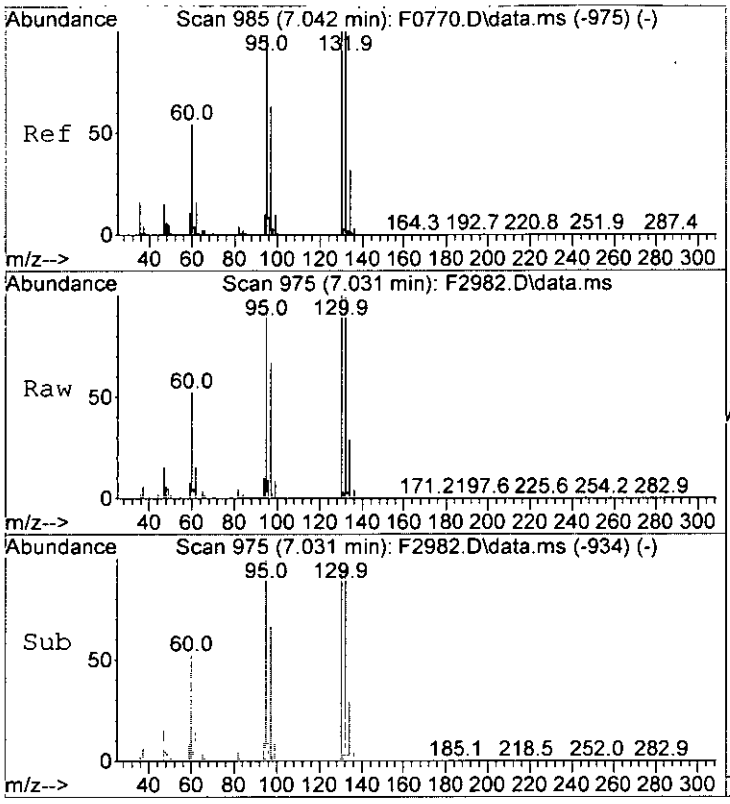
#33
cis-1,2-Dichloroethene
Concen: 19.87 ug/L m
RT: 4.617 min Scan# 579
Delta R.T. -0.006 min
Lab File: F2982.D
Acq: 9 Oct 2015 4:38 pm

Tgt Ion: 96 Resp: 133244

Ion	Ratio	Lower	Upper
96	100		
61	158.6	173.0	213.0#



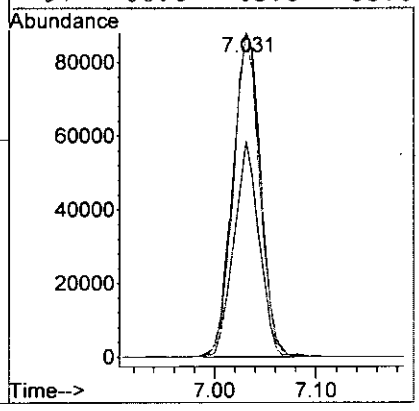
00259



#53
Trichloroethene
Concen: 22.08 ug/L
RT: 7.031 min Scan# 975
Delta R.T. -0.000 min
Lab File: F2982.D
Acq: 9 Oct 2015 4:38 pm

Tgt Ion:130 Resp: 166819

Ion	Ratio	Lower	Upper
130	100		
132	98.8	79.9	119.9
95	99.0	77.5	117.5
97	66.6	43.0	83.0



00260

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2982.D
Acq On : 9 Oct 2015 4:38 pm
Operator : F. Naegler
Sample : R1508244-011|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2982.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.233	22	24	31	rVB4	15700	34079	1.10%	0.181%
2	1.379	43	48	54	rVB2	46034	51542	1.66%	0.273%
3	1.593	79	83	86	rVB3	64915	95536	3.08%	0.506%
4	3.166	333	341	350	rBV	49319	91157	2.93%	0.483%
5	4.623	569	580	590	rBV2	243888	663779	21.37%	3.516%
6	5.519	716	727	736	rBV	364079	918238	29.56%	4.864%
7	5.671	741	752	761	rVV	710574	1806635	58.17%	9.570%
8	6.031	802	811	825	rBV	482779	1118166	36.00%	5.923%
9	6.714	915	923	938	rVB	1174575	2313436	74.48%	12.254%
10	7.031	966	975	984	rVB2	499150	934507	30.09%	4.950%
11	8.488	1207	1214	1223	rBV	1968447	3105910	100.00%	16.452%
12	9.957	1447	1455	1463	rBV	2012195	2759515	88.85%	14.617%
13	11.018	1624	1629	1636	rVB	1718994	2131983	68.64%	11.293%
14	11.359	1680	1685	1690	rVB3	28188	36590	1.18%	0.194%
15	11.987	1783	1788	1796	rVB	2369075	2817497	90.71%	14.924%

Sum of corrected areas: 18878570

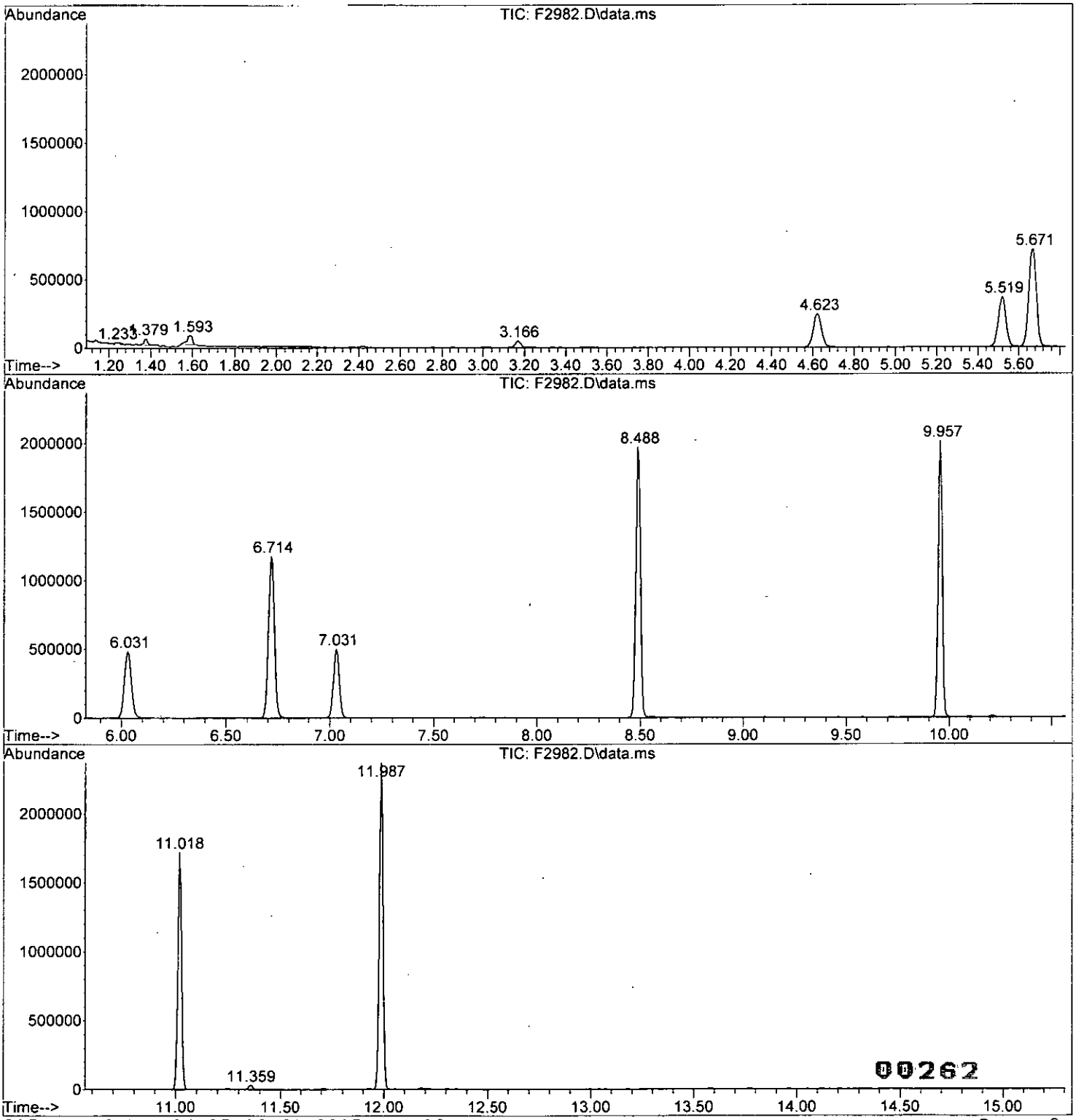
00261

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2982.D
Acq On : 9 Oct 2015 4:38 pm
Operator : F. Naegler
Sample : R1508244-011|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00262

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\\
Data File : F2982.D
Acq On : 9 Oct 2015 4:38 pmm
Operator : F. Naeglerr
Sample : R1508244-011|1.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 11 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00263

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1215
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:02
Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	µg/L
Lab Code:	R1508244-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	
79-00-5	1,1,2-Trichloroethane	ND	U	13	2.5	0.86	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	13	2.5	1.5	
563-58-6	1,1-Dichloropropene	ND	U	13	2.5	0.73	
87-61-6	1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	
96-18-4	1,2,3-Trichloropropane	ND	U	13	2.5	1.8	
120-82-1	1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	
95-63-6	1,2,4-Trimethylbenzene	ND	U	13	2.5	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	
106-93-4	1,2-Dibromoethane	ND	U	13	2.5	0.60	
95-50-1	1,2-Dichlorobenzene	ND	U	13	2.5	0.53	
107-06-2	1,2-Dichloroethane	ND	U	13	2.5	0.90	
78-87-5	1,2-Dichloropropane	ND	U	13	2.5	0.50	
108-67-8	1,3,5-Trimethylbenzene	ND	U	13	2.5	0.50	
541-73-1	1,3-Dichlorobenzene	ND	U	13	2.5	0.50	
142-28-9	1,3-Dichloropropane	ND	U	13	2.5	0.68	
106-46-7	1,4-Dichlorobenzene	ND	U	13	2.5	0.50	
594-20-7	2,2-Dichloropropane	ND	U	13	2.5	0.68	
78-93-3	2-Butanone (MEK)	ND	U	13	2.5	2.1	
95-49-8	2-Chlorotoluene	ND	U	13	2.5	0.50	
591-78-6	2-Hexanone	ND	U	13	13	4.2	
75-65-0	tert-Butyl Alcohol	ND	U	250	50	27	
106-43-4	4-Chlorotoluene	ND	U	13	2.5	0.60	
99-87-6	p-Isopropyltoluene	ND	U	13	2.5	0.50	
108-10-1	4-Methyl-2-pentanone	ND	U	13	2.5	1.7	
67-64-1	Acetone	ND	U	13	13	3.1	
71-43-2	Benzene	ND	U	13	2.5	0.50	
108-86-1	Bromobenzene	ND	U	13	2.5	0.71	
74-97-5	Bromochloromethane	ND	U	13	2.5	0.80	
75-27-4	Bromodichloromethane	ND	U	13	2.5	0.80	
75-25-2	Bromoform	ND	U	13	2.5	1.1	
74-83-9	Bromomethane	ND	U	13	2.5	0.73	

00264

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1215
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:02
Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	µg/L
Lab Code:	R1508244-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	13	2.5	1.2	
108-90-7	Chlorobenzene	ND	U	13	2.5	0.73	
75-00-3	Chloroethane	ND	U	13	2.5	0.60	
67-66-3	Chloroform	ND	U	13	2.5	0.63	
74-87-3	Chloromethane	**0.68**	J	13	2.5	0.53	
124-48-1	Dibromochloromethane	ND	U	13	2.5	0.78	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	
75-09-2	Methylene Chloride	ND	U	13	2.5	1.5	
100-41-4	Ethylbenzene	ND	U	13	2.5	0.50	
87-68-3	Hexachlorobutadiene	ND	U	13	2.5	1.6	
98-82-8	Isopropylbenzene (Cumene)	ND	U	13	2.5	0.50	
1634-04-4	Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	
91-20-3	Naphthalene	ND	U	13	2.5	0.50	
100-42-5	Styrene	ND	U	13	2.5	0.50	
127-18-4	Tetrachloroethene (PCE)	ND	U	13	2.5	0.75	
108-88-3	Toluene	ND	U	13	2.5	0.50	
79-01-6	Trichloroethene (TCE)	**390**		13	2.5	0.55	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	
75-01-4	Vinyl Chloride	**1.9**	J	13	2.5	0.80	
156-59-2	cis-1,2-Dichloroethene	**24**		13	2.5	0.75	
10061-01-5	cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	
179601-23-1	m,p-Xylenes	ND	U	25	5.0	0.83	
104-51-8	n-Butylbenzene	ND	U	13	2.5	0.53	
103-65-1	n-Propylbenzene	ND	U	13	2.5	0.50	
95-47-6	o-Xylene	ND	U	13	2.5	0.50	
135-98-8	sec-Butylbenzene	ND	U	13	2.5	0.68	
98-06-6	tert-Butylbenzene	ND	U	13	2.5	0.50	
156-60-5	trans-1,2-Dichloroethene	ND	U	13	2.5	0.83	
10061-02-6	trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	

00265

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1215
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:02
Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	Percent
Lab Code:	R1508244-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2983.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	2.5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/9/15 17:02	
Dibromofluoromethane	95	85-115	10/9/15 17:02	
Toluene-d8	98	85-120	10/9/15 17:02	

00266

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1702

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW281-33.71	**Units:**	µg/L
Lab Code:	R1508244-012	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.59	**17.0**	J

Comments:

00207

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2983.D
Acq On : 9 Oct 2015 5:02 pm
Operator : F. Naegler
Sample : R1508244-012|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 14 15:12:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	625041	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	907553	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	809781	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	429218	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	277923	47.46	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.92%			
46) surr1,1,2-dichloroetha...	6.031	65	378073	45.54	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.08%			
64) SURR3,Toluene-d8	8.488	98	1042325	48.84	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.68%			
69) SURR2,BFB	11.018	95	410967	46.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.26%			
Target Compounds						Qvalue
3) Chloromethane	1.288	50	2044	0.27	ug/L	92
4) Vinyl Chloride	1.379	62	5030	0.77	ug/L	89
13) 1,1-Diclethene	2.367	96	1683	0.33	ug/L	94
15) Acetone	2.416	43	5677	1.06	ug/L	80
33) cis-1,2-Dichloroethene	4.623	96	63853	9.76	ug/L #	77
53) Trichloroethene	7.031	130	1118554	155.12	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

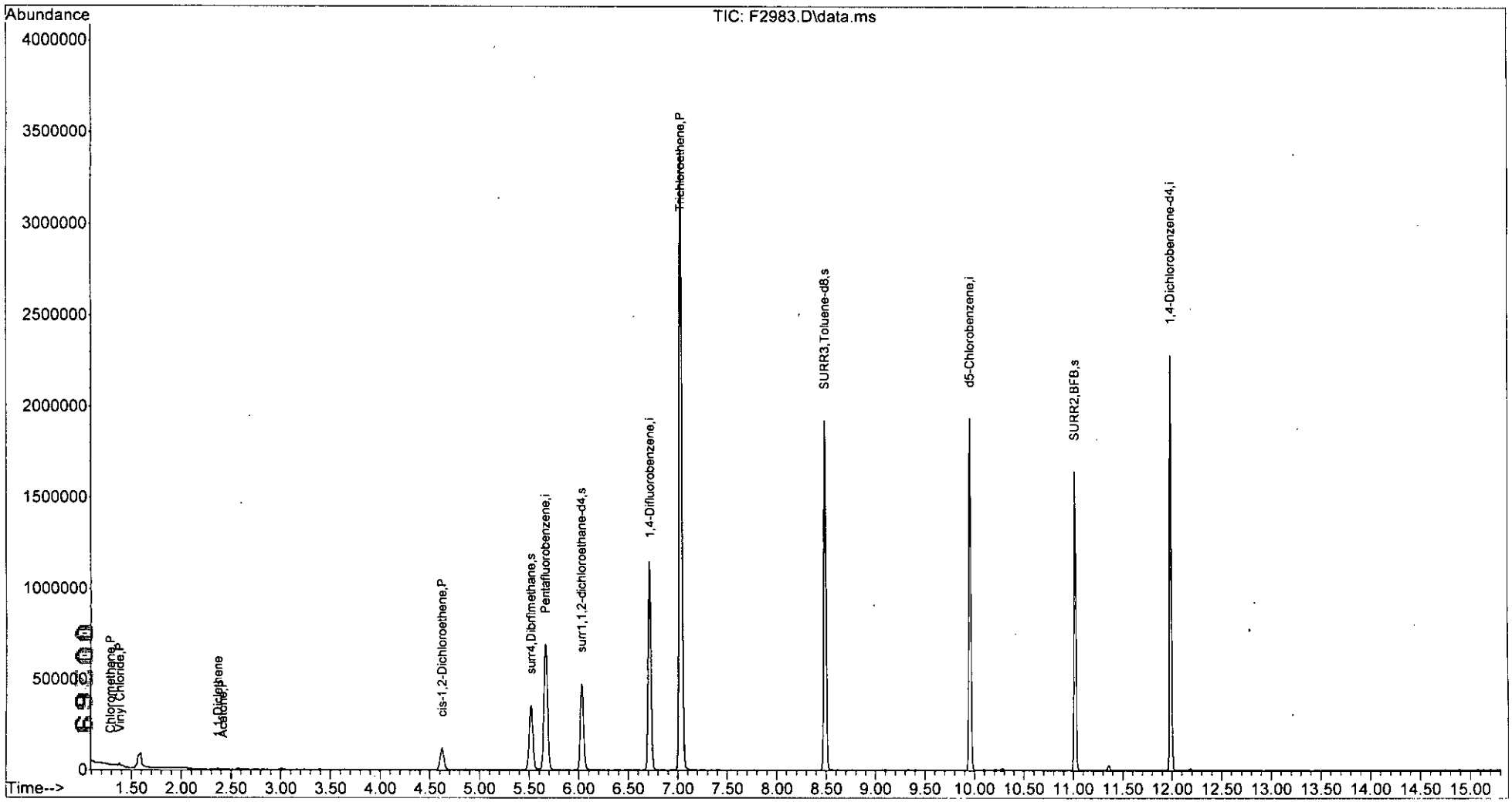
FJ 10/14/15

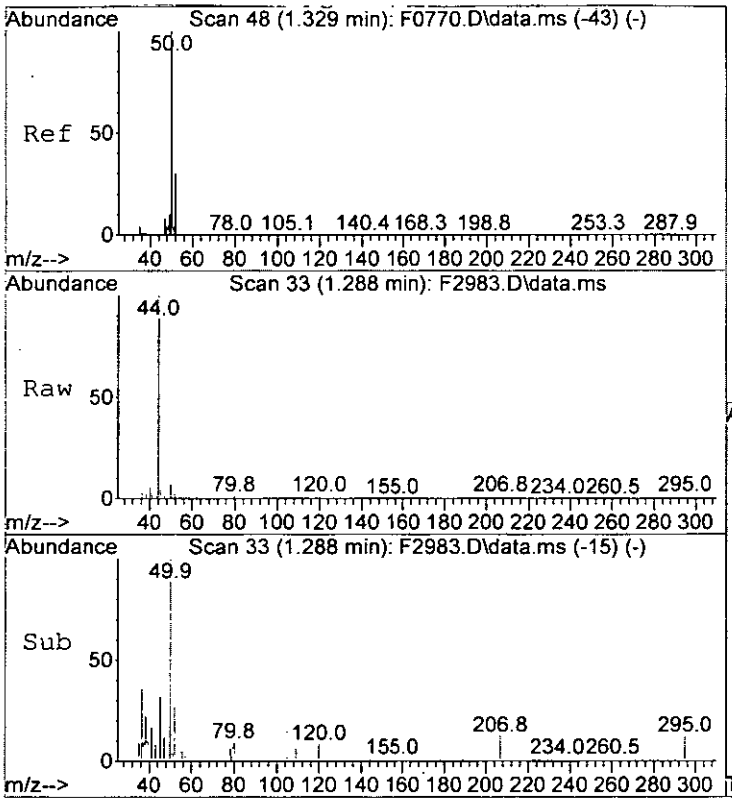
00268

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2983.D
Acq On : 9 Oct 2015 5:02 pm
Operator : F. Naegler
Sample : R1508244-012|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 14 15:12:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

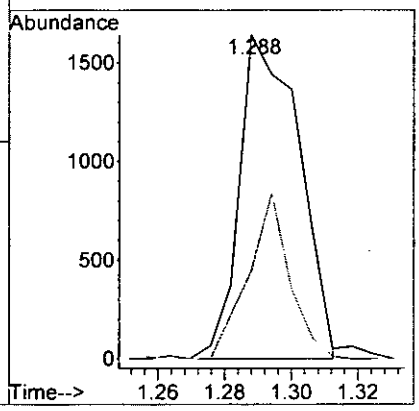


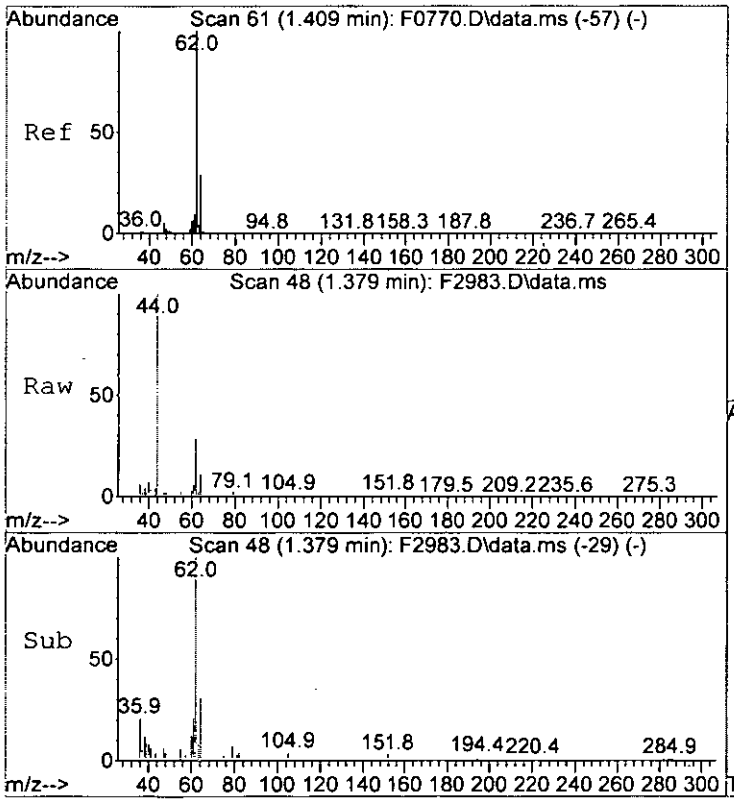


#3
Chloromethane
Concen: 0.27 ug/L
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: F2983.D
Acq: 9 Oct 2015 5:02 pm

Tgt Ion: 50 Resp: 2044

Ion	Ratio	Lower	Upper
50	100		
52	27.3	12.0	52.0

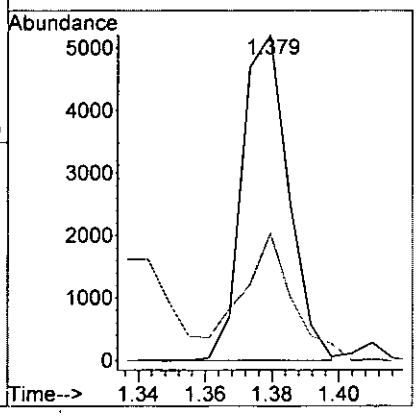




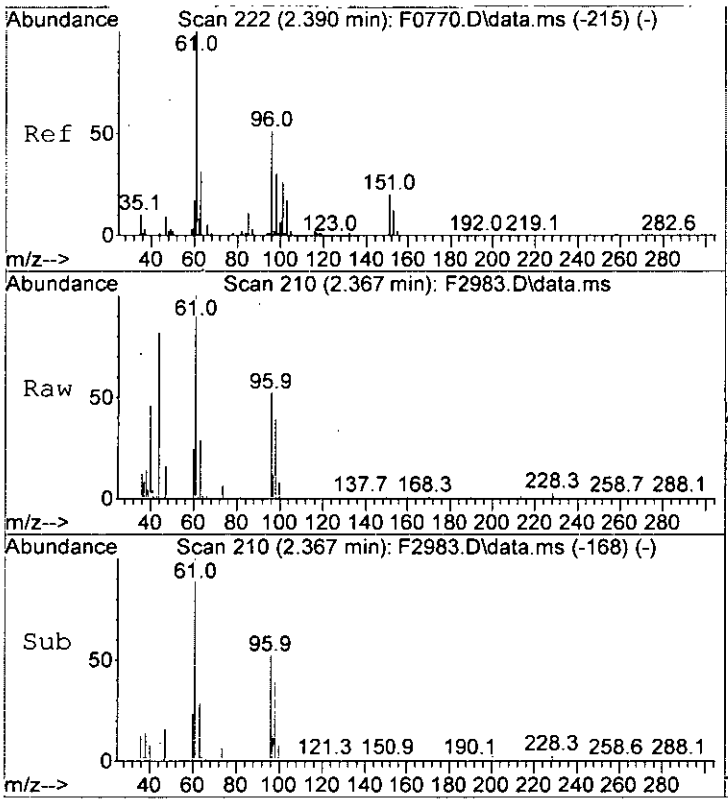
#4
Vinyl Chloride
Concen: 0.77 ug/L
RT: 1.379 min Scan# 48
Delta R.T. -0.000 min
Lab File: F2983.D
Acq: 9 Oct 2015 5:02 pm

Tgt Ion: 62 Resp: 5030

Ion	Ratio	Lower	Upper
62	100		
64	39.2	13.1	53.1



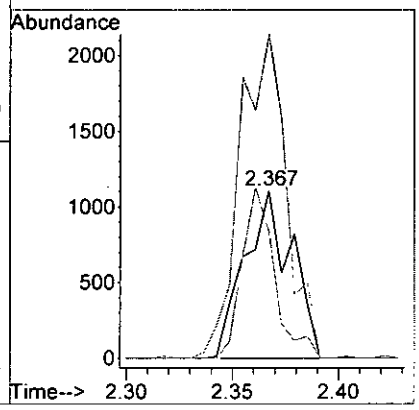
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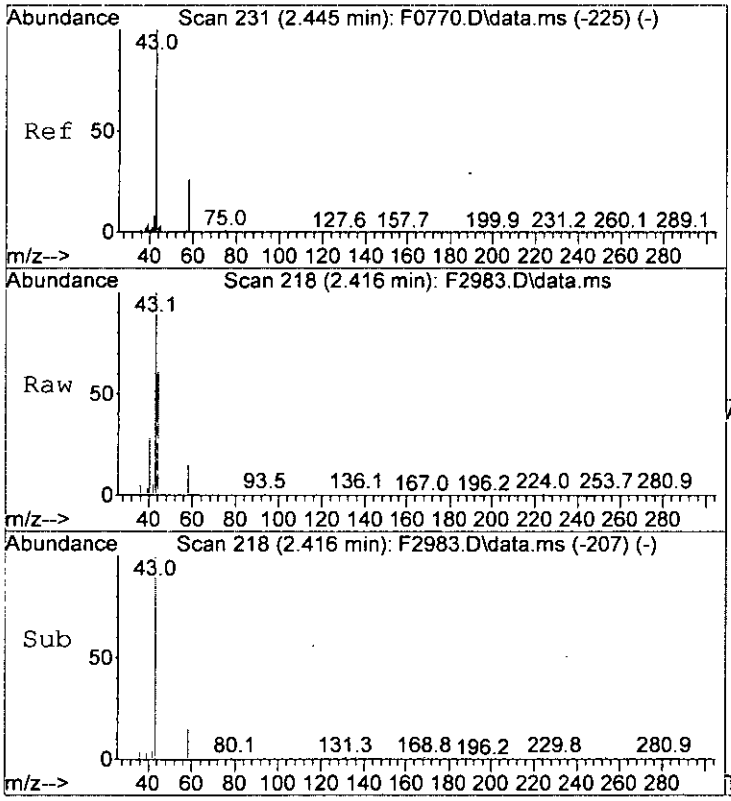


#13
1,1-Diclethene
Concen: 0.33 ug/L
RT: 2.367 min Scan# 210
Delta R.T. 0.006 min
Lab File: F2983.D
Acq: 9 Oct 2015 5:02 pm

Tgt Ion: 96 Resp: 1683

Ion	Ratio	Lower	Upper
96	100		
98	76.0	38.1	78.1
61	193.1	174.4	214.4

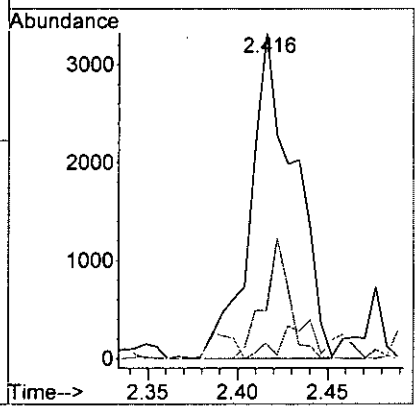




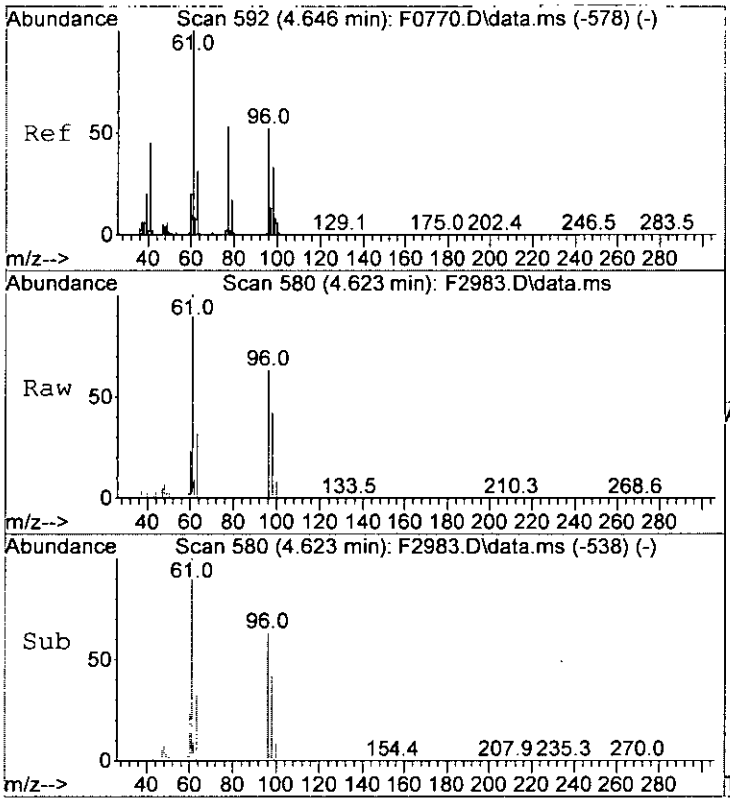
#15
Acetone
Concen: 1.06 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2983.D
Acq: 9 Oct 2015 5:02 pm

Tgt Ion: 43 Resp: 5677

Ion	Ratio	Lower	Upper
43	100		
58	14.5	6.1	46.1
42	4.7	0.0	28.3



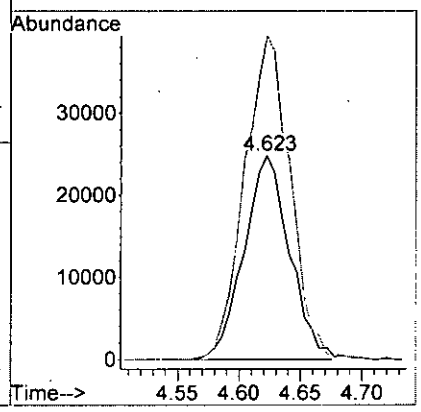
00271

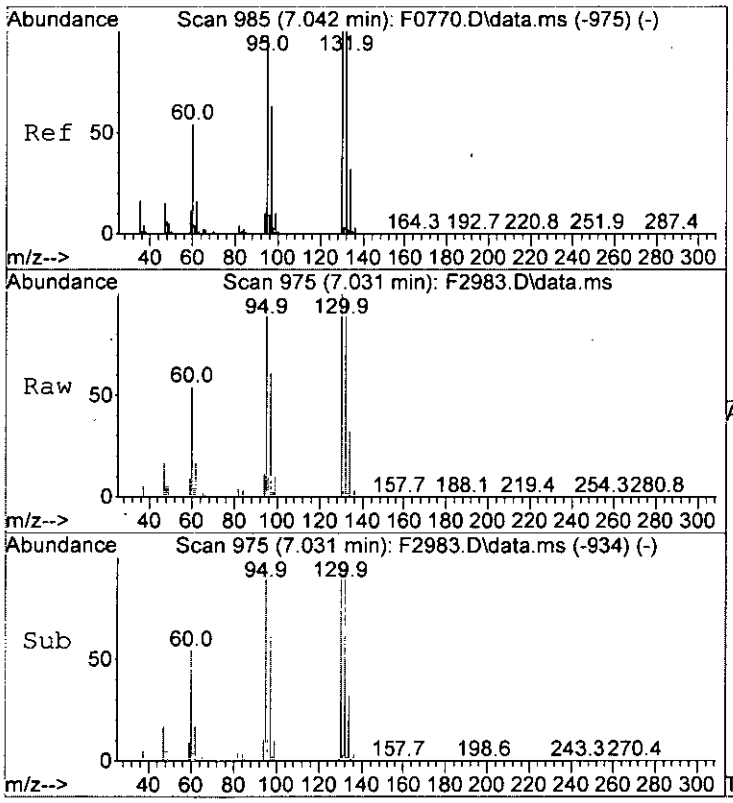


#33
cis-1,2-Dichloroethene
Concen: 9.76 ug/L
RT: 4.623 min Scan# 580
Delta R.T. -0.000 min
Lab File: F2983.D
Acq: 9 Oct 2015 5:02 pm

Tgt Ion: 96 Resp: 63853

Ion	Ratio	Lower	Upper
96	100		
61	158.9	173.0	213.0#

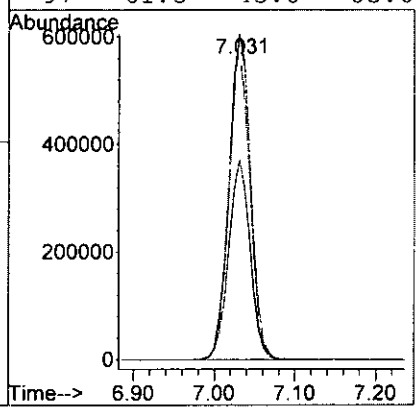




#53
Trichloroethene
Concen: 155.12 ug/L
RT: 7.031 min Scan# 975
Delta R.T. -0.000 min
Lab File: F2983.D
Acq: 9 Oct 2015 5:02 pm

Tgt Ion:130 Resp: 1118554

Ion	Ratio	Lower	Upper
130	100		
132	96.7	79.9	119.9
95	94.5	77.5	117.5
97	61.3	43.0	83.0



00272

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2983.D
Acq On : 9 Oct 2015 5:02 pm
Operator : F. Naegler
Sample : R1508244-012|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2983.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.593	71	83	92	rBV3	85214	237487	3.81%	1.018%
2	4.623	570	580	592	rBV2	121966	324103	5.20%	1.389%
3	5.519	715	727	738	rBV2	355600	915248	14.69%	3.923%
4	5.665	740	751	763	rVB	689197	1747010	28.04%	7.489%
5	6.031	800	811	823	rBV	474886	1093535	17.55%	4.688%
6	6.714	914	923	937	rVB	1147788	2235123	35.88%	9.581%
7	7.031	966	975	994	rBV	3403776	6229718	100.00%	26.704%
8	8.488	1206	1214	1223	rBV	1923632	3043352	48.85%	13.046%
9	9.957	1448	1455	1463	rBV	1936653	2664531	42.77%	11.422%
10	11.018	1623	1629	1636	rBV	1644165	2079024	33.37%	8.912%
11	11.987	1782	1788	1796	rVB	2283890	2759405	44.29%	11.828%

Sum of corrected areas: 23328536

FN 10/14/15

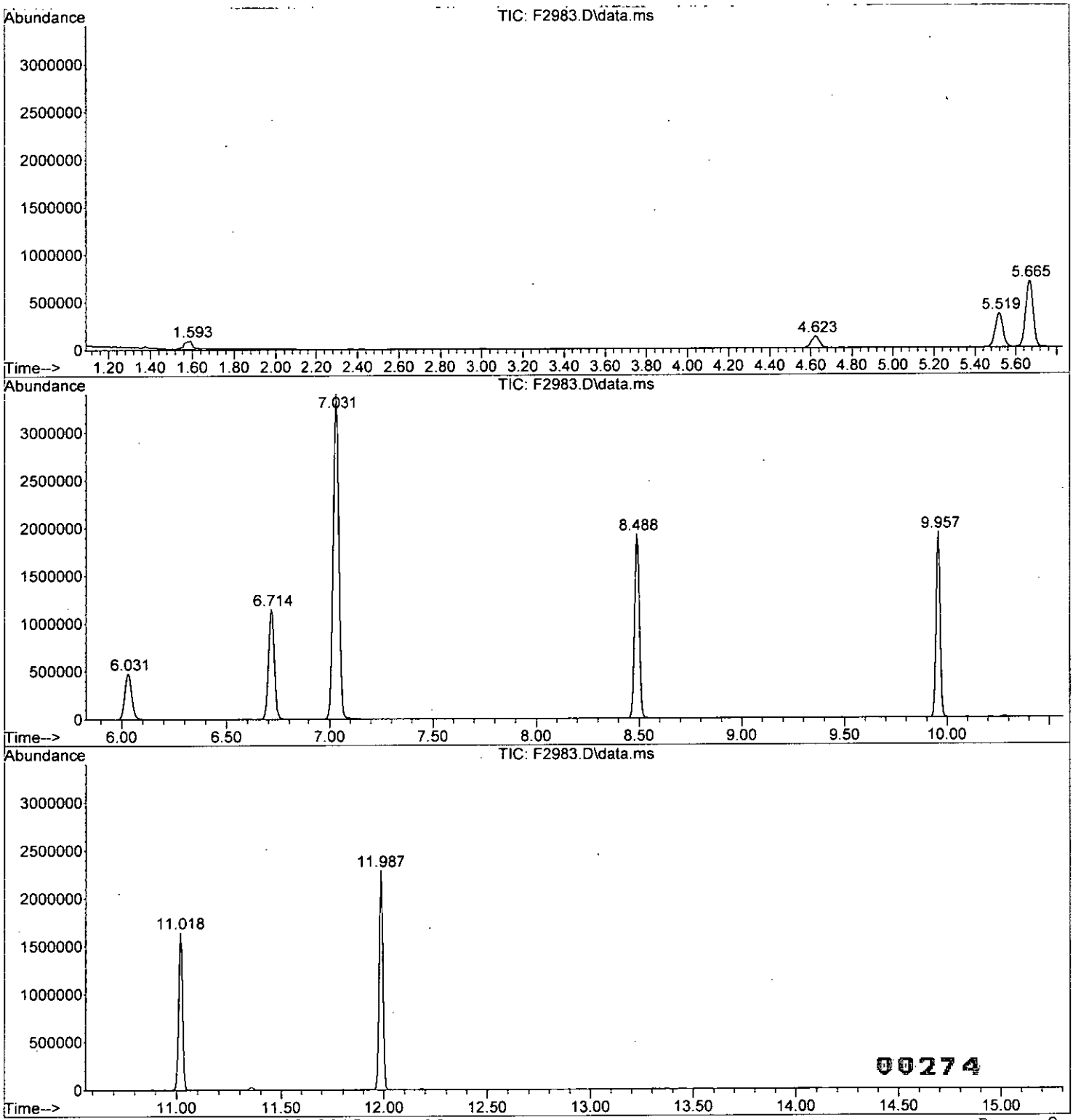
00273

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2983.D
Acq On : 9 Oct 2015 5:02 pm
Operator : F. Naegler
Sample : R1508244-012|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2983.D
Acq On : 9 Oct 2015 5:02 pm
Operator : F. Naegler
Sample : R1508244-012|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

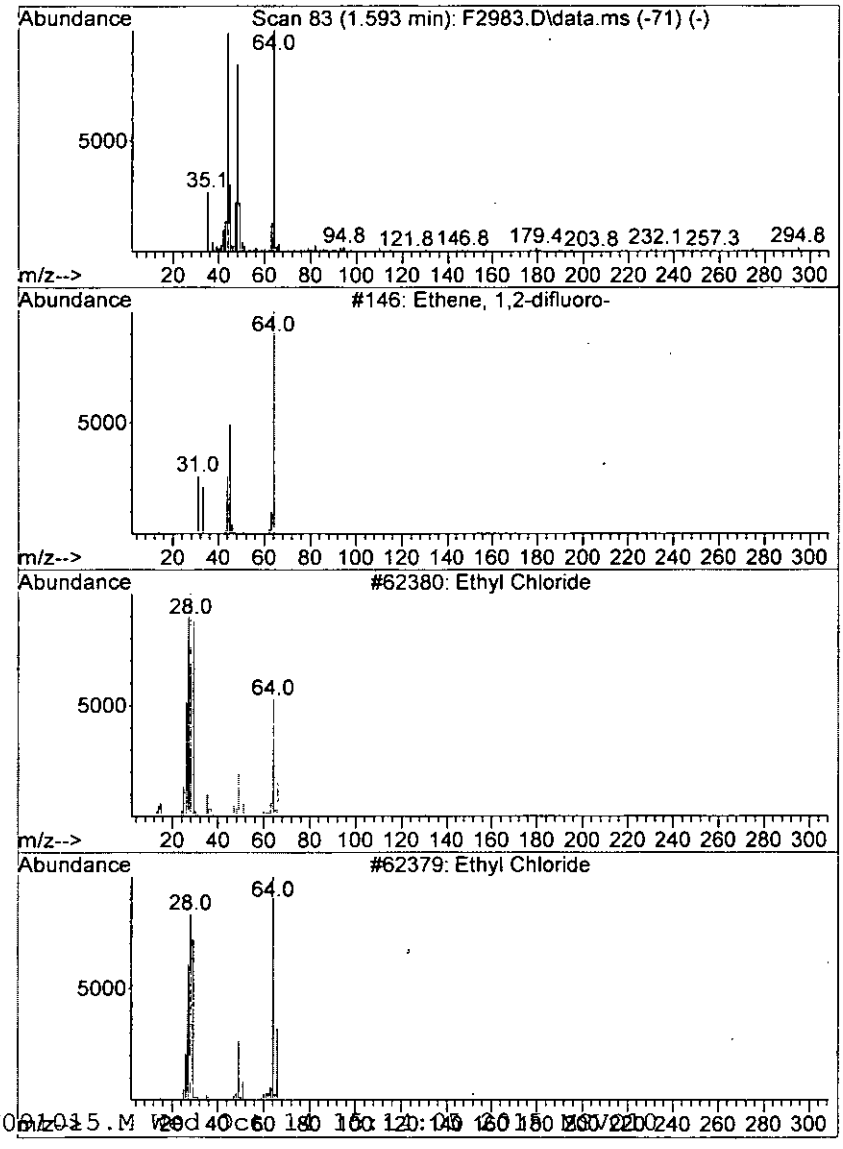
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TIC Integration Parameters: LSCINT.P

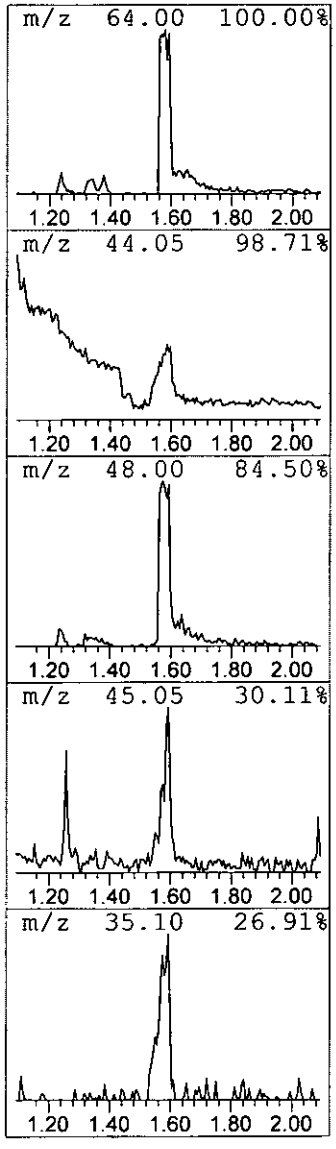
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Peak Number 1 Ethene, 1,2-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.593	6.80 ug/L	237487	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	9
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	9
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	7
4	Ethyl Chloride	64	C2H5Cl	000075-00-3	7
5	Ethanol, 2-fluoro-	64	C2H5FO	000371-62-0	5





00275

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1508244
Date Collected: 9/30/15 1220
Date Received: 10/ 1/15
Date Analyzed: 10/12/15 14:39

Sample Name: FTMM-22-GW-CW1MW28-11.21
Lab Code: R1508244-013

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\msvoa10\data\101215\F3030.D\

Analysis Lot: 466502
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.9**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00276

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1220
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/12/15 14:39
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1508244-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3030.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.22**	**J**	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.53**	**J**	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00277

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1220
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/12/15 14:39
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	Percent
Lab Code:	R1508244-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3030.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/12/15 14:39	
Dibromofluoromethane	96	85-115	10/12/15 14:39	
Toluene-d8	99	85-120	10/12/15 14:39	

00278

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/12/15 1439

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1508244-013	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00273

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3030.D
Acq On : 12 Oct 2015 2:39 pm
Operator : F. Naegler
Sample : R1508244-013|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 14:59:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	702774	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	1026997	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	924112	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	504533	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	318350	48.04	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.08%				
46) surr1,1,2-dichloroetha...	6.031	65	422111	44.93	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 89.86%				
64) SURR3,Toluene-d8	8.488	98	1190892	49.31	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.62%				
69) SURR2,BFB	11.018	95	447997	44.92	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.84%				
Target Compounds							Qvalue
3) Chloromethane	1.294	50	1855	0.22	ug/L		97
15) Acetone	2.416	43	11294	1.88	ug/L		97
53) Trichloroethene	7.031	130	4352	0.53	ug/L	#	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

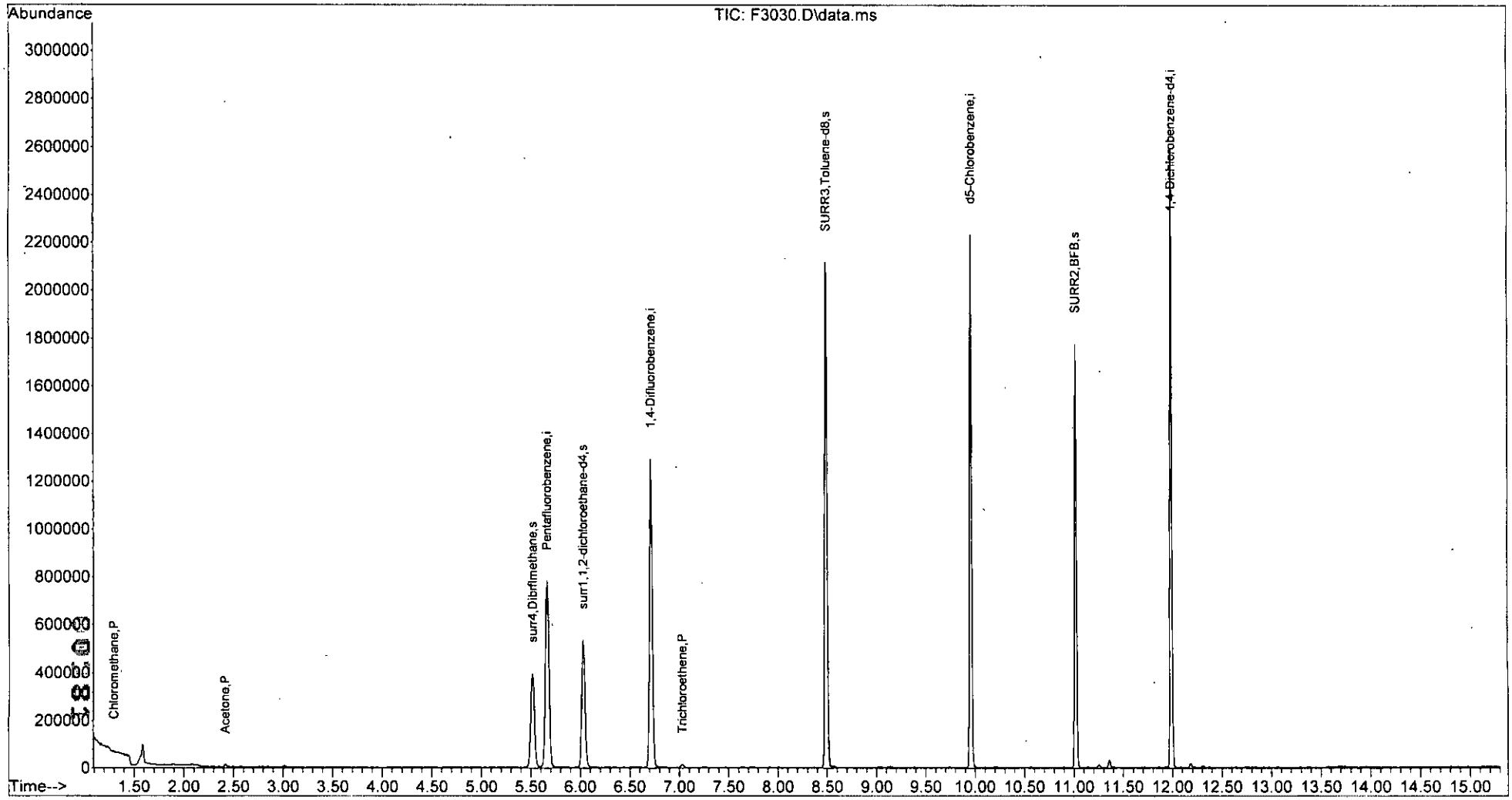
FU
10/15/15

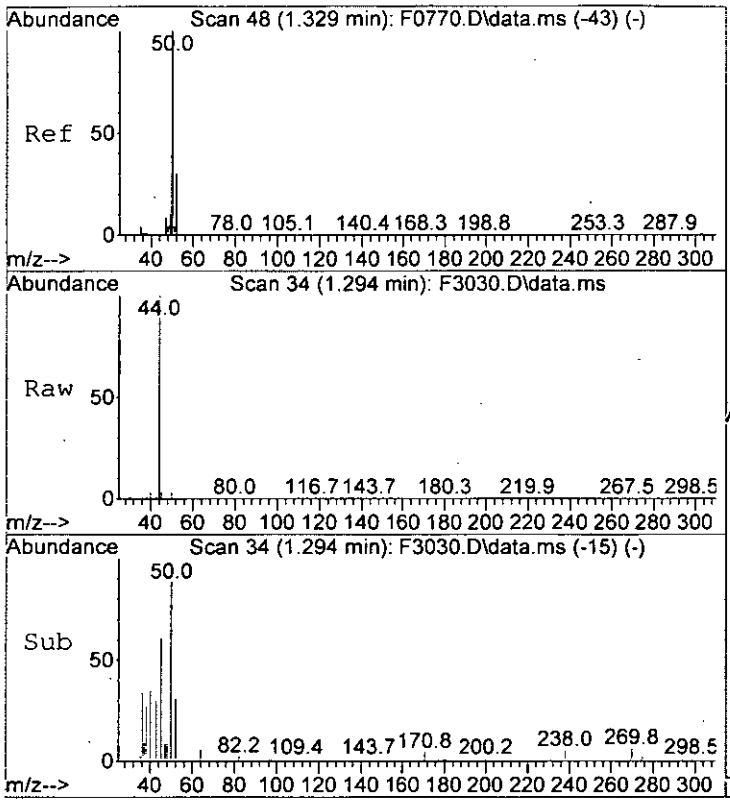
00280

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3030.D
Acq On : 12 Oct 2015 2:39 pm
Operator : F. Naegler
Sample : R1508244-013|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 14:59:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

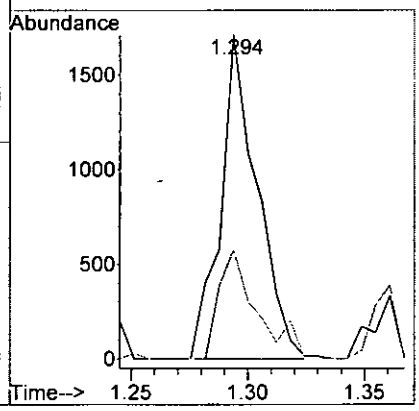


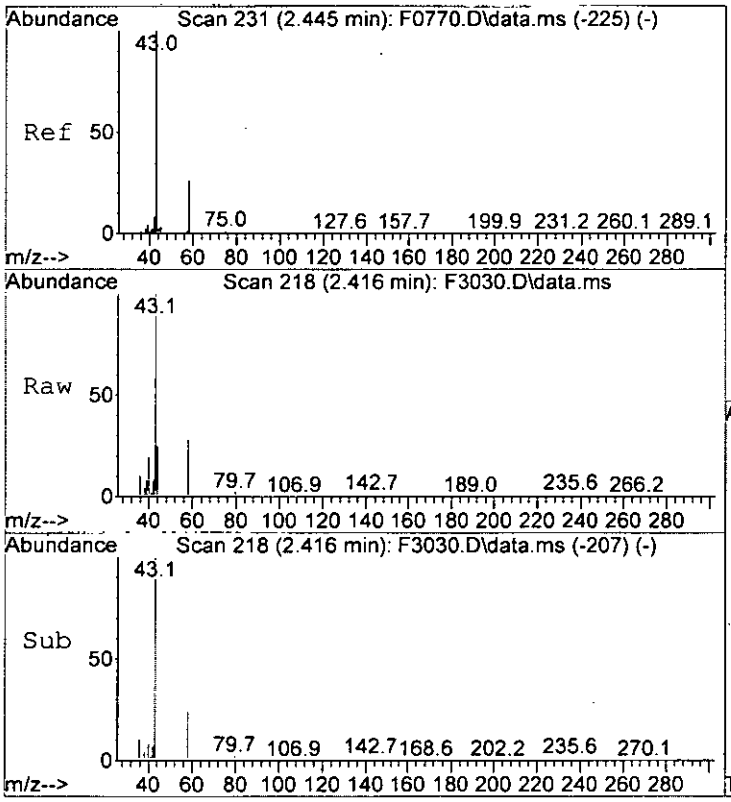


#3
Chloromethane
Concen: 0.22 ug/L
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: F3030.D
Acq: 12 Oct 2015 2:39 pm

Tgt Ion: 50 Resp: 1855

Ion	Ratio	Lower	Upper
50	100		
52	33.7	12.0	52.0

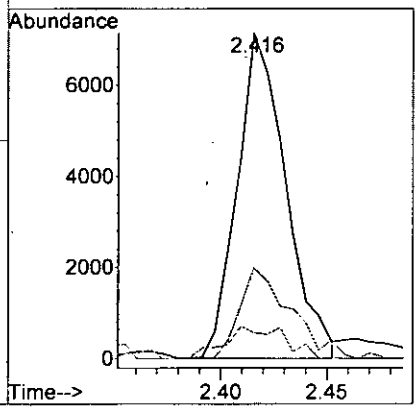




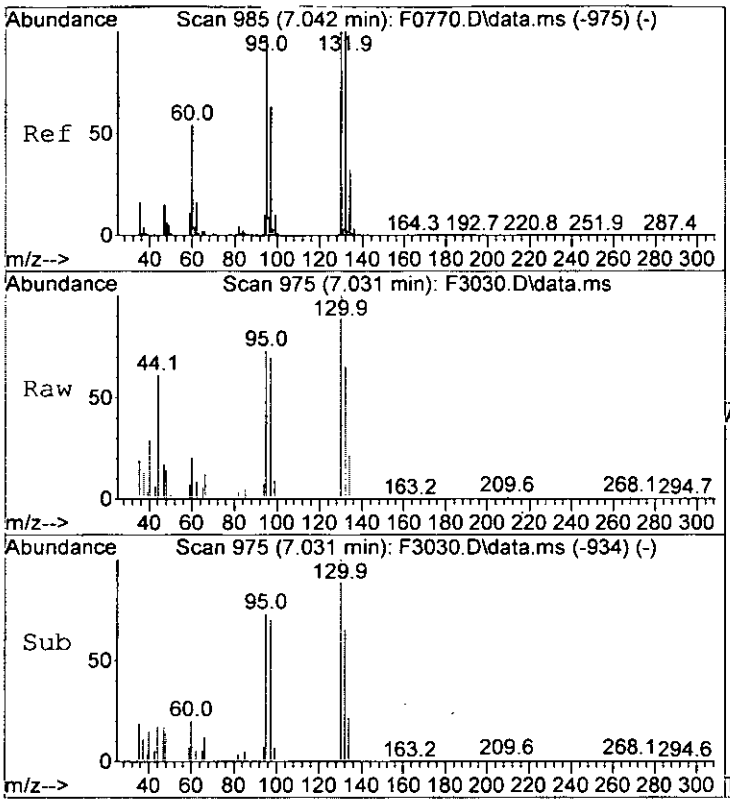
#15
Acetone
Concen: 1.88 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F3030.D
Acq: 12 Oct 2015 2:39 pm

Tgt Ion: 43 Resp: 11294

Ion	Ratio	Lower	Upper
43	100		
58	27.8	6.1	46.1
42	7.9	0.0	28.3



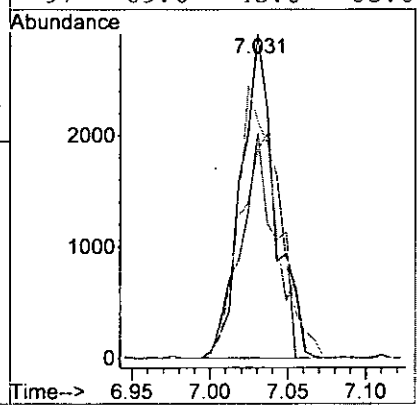
00282



#53
Trichloroethene
Concen: 0.53 ug/L
RT: 7.031 min Scan# 975
Delta R.T. -0.000 min
Lab File: F3030.D
Acq: 12 Oct 2015 2:39 pm

Tgt Ion:130 Resp: 4352

Ion	Ratio	Lower	Upper
130	100		
132	64.6	79.9	119.9#
95	73.4	77.5	117.5#
97	69.6	43.0	83.0



00283

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3030.D
Acq On : 12 Oct 2015 2:39 pm
Operator : F. Naegler
Sample : R1508244-013|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F3030.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.581	70	81	86	rBV3	86577	191655	5.61%	1.022%
2	5.519	715	727	740	rBV2	393543	1022660	29.96%	5.451%
3	5.665	740	751	764	rVB	778750	1946701	57.03%	10.376%
4	6.031	800	811	823	rBV	532624	1211635	35.50%	6.458%
5	6.714	914	923	936	rBV	1292132	2489618	72.94%	13.270%
6	8.488	1205	1214	1222	rBV	2114824	3413343	100.00%	18.194%
7	9.957	1449	1455	1464	rVB	2231499	2984093	87.42%	15.906%
8	11.018	1623	1629	1637	rBV	1773710	2288941	67.06%	12.201%
9	11.359	1681	1685	1690	rVB3	31535	42617	1.25%	0.227%
10	11.987	1782	1788	1795	rBV	2591910	3169771	92.86%	16.896%

Sum of corrected areas: 18761034

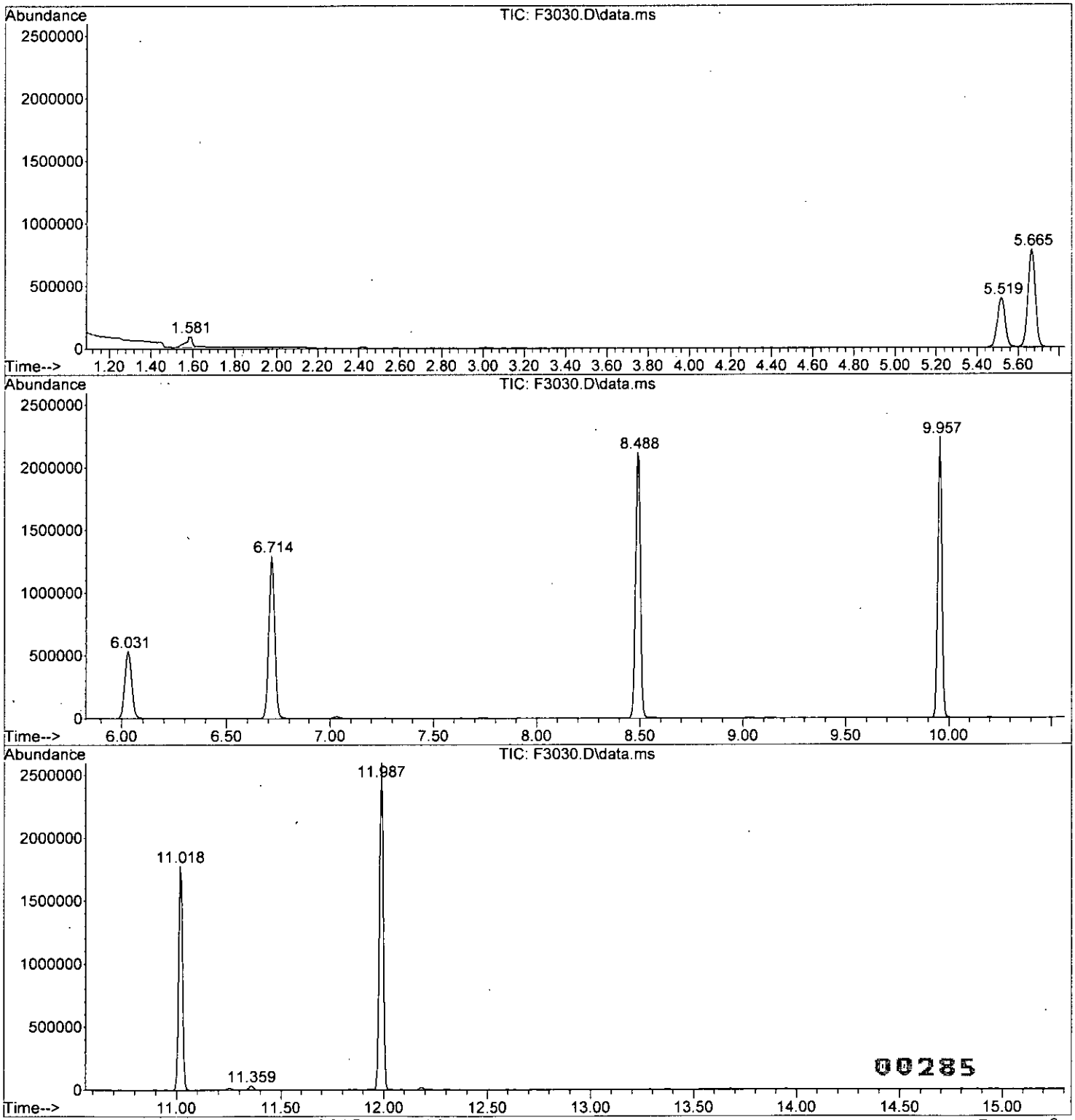
00284

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3030.D
Acq On : 12 Oct 2015 2:39 pm
Operator : F. Naegler
Sample : R1508244-013|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00285

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\101215\\
Data File : F3030.D
Acq On : 12 Oct 2015 2:39 pmm
Operator : F. Naeglerr
Sample : R1508244-013|1.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 6 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

00286

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1225
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:51
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1508244-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.5**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00287

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1225
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:51
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1508244-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.22**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.24**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00288

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1225
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 17:51
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	Percent
Lab Code:	R1508244-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2985.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 17:51	
Dibromofluoromethane	95	85-115	10/9/15 17:51	
Toluene-d8	98	85-120	10/9/15 17:51	

00289

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1751

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1508244-014	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00290

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2985.D
Acq On : 9 Oct 2015 5:51 pm
Operator : F. Naegler
Sample : R1508244-014|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 15:14:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	634485	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	919669	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	816657	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	438423	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	281579	47.45	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.90%			
46) surr1,1,2-dichloroetha...	6.031	65	381565	45.35	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.70%			
64) SURR3,Toluene-d8	8.488	98	1065278	49.25	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.50%			
69) SURR2,BFB	11.018	95	402260	45.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.08%			
Target Compounds						Qvalue
3) Chloromethane	1.300	50	1680	0.22	ug/L	71
15) Acetone	2.416	43	13717	2.53	ug/L	93
53) Trichloroethene	7.043	130	1774	0.24	ug/L #	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed

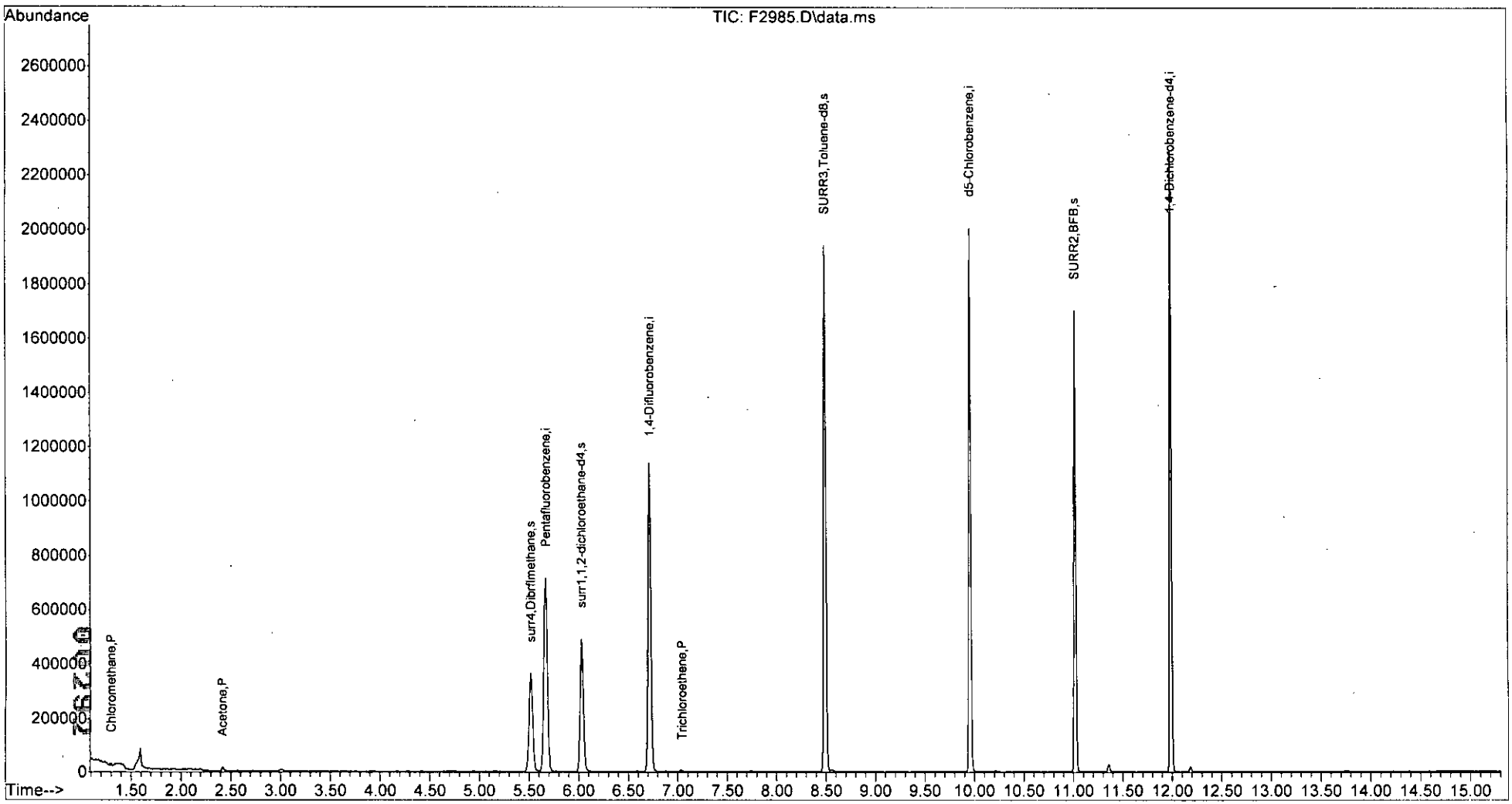
FU 10/14/15

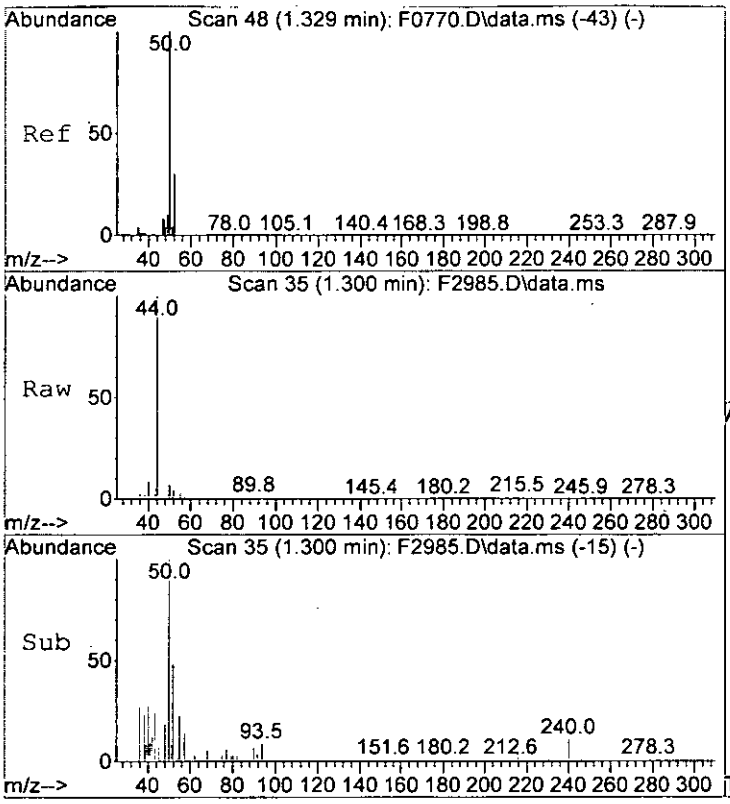
00291

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2985.D
Acq On : 9 Oct 2015 5:51 pm
Operator : F. Naegler
Sample : R1508244-014|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 15:14:52 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

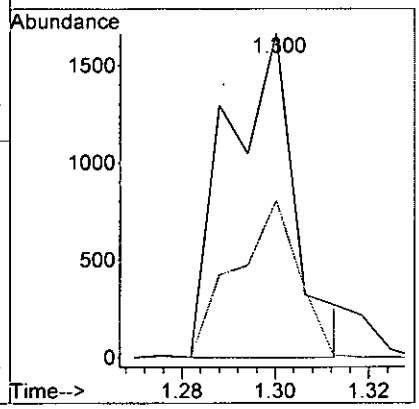


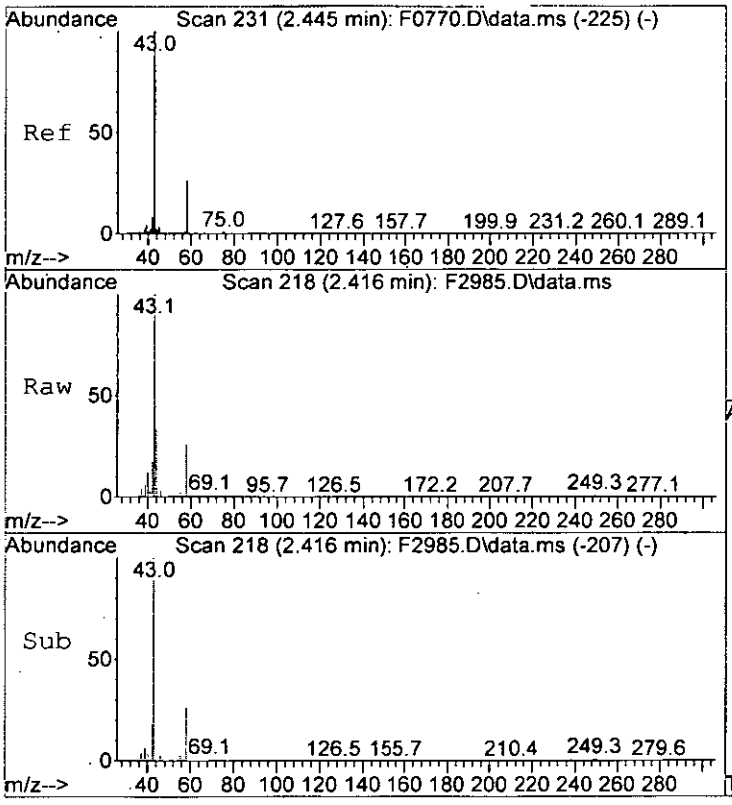


#3
Chloromethane
Concen: 0.22 ug/L
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: F2985.D
Acq: 9 Oct 2015 5:51 pm

Tgt Ion: 50 Resp: 1680

Ion	Ratio	Lower	Upper
50	100		
52	48.4	12.0	52.0

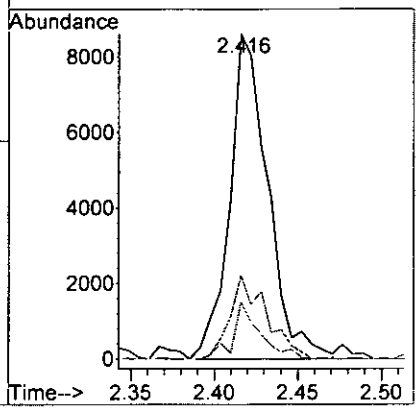




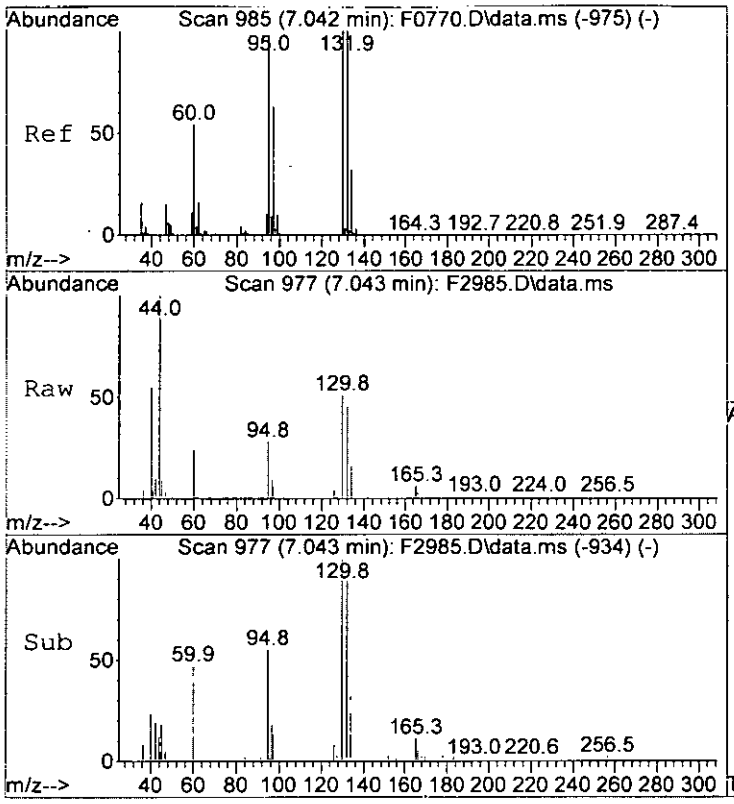
#15
Acetone
Concen: 2.53 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2985.D
Acq: 9 Oct 2015 5:51 pm

Tgt Ion: 43 Resp: 13717

Ion	Ratio	Lower	Upper
43	100		
58	25.6	6.1	46.1
42	17.4	0.0	28.3



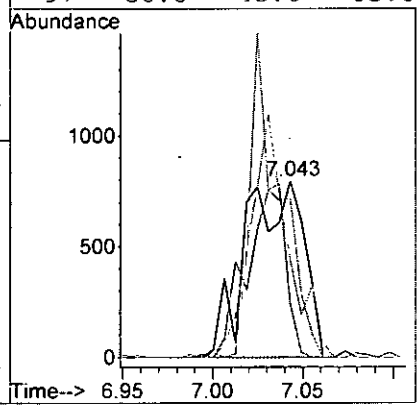
00293



#53
Trichloroethene
Concen: 0.24 ug/L
RT: 7.043 min Scan# 977
Delta R.T. 0.012 min
Lab File: F2985.D
Acq: 9 Oct 2015 5:51 pm

Tgt Ion:130 Resp: 1774

Ion	Ratio	Lower	Upper
130	100		
132	90.0	79.9	119.9
95	55.1	77.5	117.5#
97	30.5	43.0	83.0#



00294

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2985.D
Acq On : 9 Oct 2015 5:51 pm
Operator : F. Naegler
Sample : R1508244-014|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2985.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.593	70	83	86	rBV3	79756	171817	5.57%	1.019%
2	5.519	716	727	740	rBV	363412	932962	30.25%	5.533%
3	5.671	740	752	764	rVV	712915	1770252	57.39%	10.498%
4	6.031	802	811	823	rBV	490356	1107973	35.92%	6.570%
5	6.714	915	923	937	rBV	1140573	2237654	72.55%	13.270%
6	8.488	1206	1214	1222	rBV	1939533	3084463	100.00%	18.291%
7	9.957	1448	1455	1463	rBV	2004652	2677409	86.80%	15.877%
8	11.018	1624	1629	1638	rVB	1701235	2082397	67.51%	12.349%
9	11.359	1680	1685	1690	rBV3	27034	36379	1.18%	0.216%
10	11.987	1783	1788	1795	rBV	2287533	2761773	89.54%	16.378%

Sum of corrected areas: 16863079

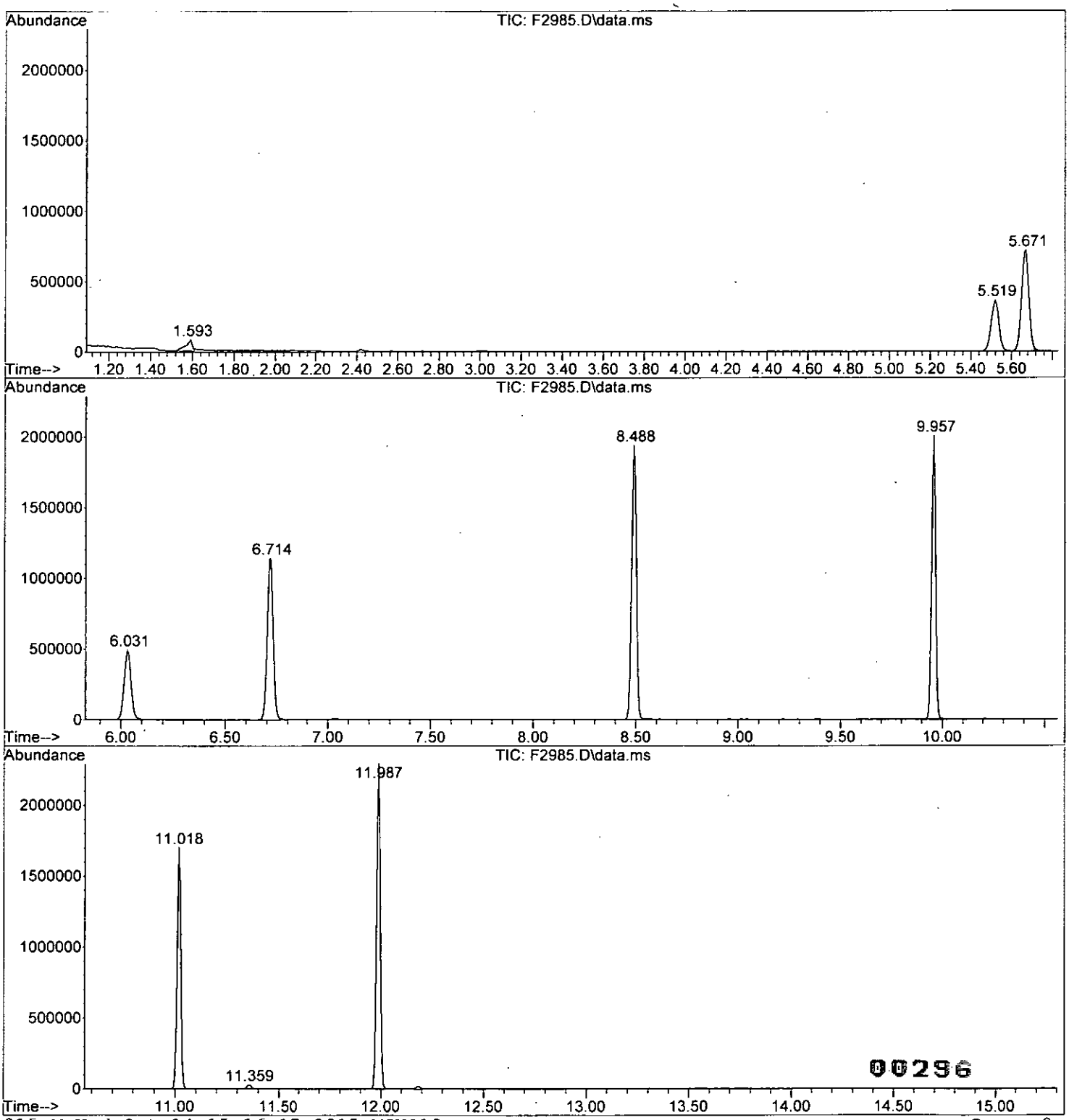
00295

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2985.D
Acq On : 9 Oct 2015 5:51 pm
Operator : F. Naegler
Sample : R1508244-014|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



00296

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\\
Data File : F2985.D
Acq On : 9 Oct 2015 5:51 pmm
Operator : F. Naeglerr
Sample : R1508244-014|1.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 14 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00297

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1230
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:15
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1508244-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**0.20**	J	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**0.91**	J	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00298

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1230
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:15
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1508244-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.23**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.37**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00299

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1230
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:15
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	Percent
Lab Code:	R1508244-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2986.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	75-120	10/9/15 18:15	
Dibromofluoromethane	93	85-115	10/9/15 18:15	
Toluene-d8	98	85-120	10/9/15 18:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1815

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1508244-015	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00301

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2986.D
Acq On : 9 Oct 2015 6:15 pm
Operator : F. Naegler
Sample : R1508244-015|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 15:17:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	652474	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	944793	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	848957	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	450304	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	282577	46.35	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.70%			
46) surr1,1,2-dichloroetha...	6.031	65	390818	45.22	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.44%			
64) SURR3,Toluene-d8	8.488	98	1083885	48.78	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.56%			
69) SURR2,BFB	11.018	95	408978	44.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.14%			
Target Compounds						Qvalue
3) Chloromethane	1.288	50	1797m	0.23	ug/L	
15) Acetone	2.422	43	8717	1.56	ug/L	78
27) 1,1-Diclethane	3.702	63	2526	0.20	ug/L #	64
34) 2-Butanone	4.702	43	6379	0.91	ug/L	79
53) Trichloroethene	7.037	130	2794	0.37	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

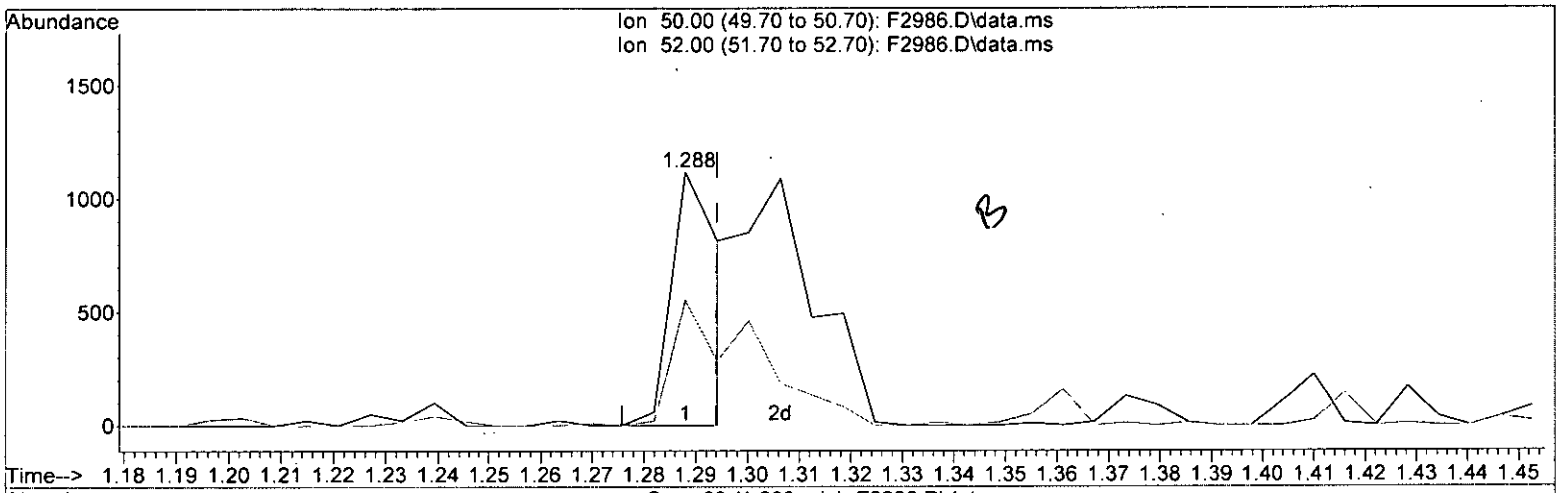
FV 10/14/15

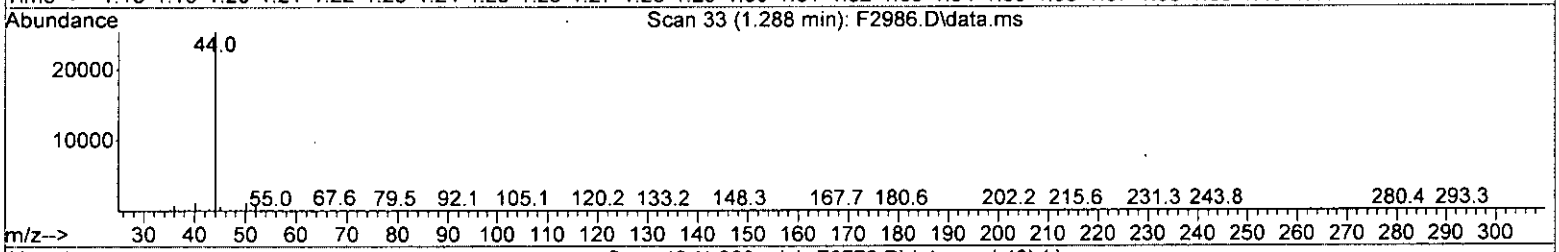
00302

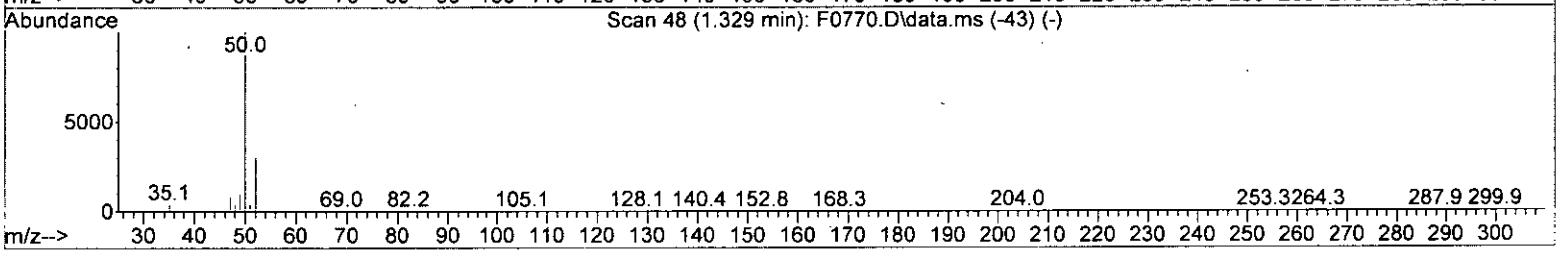
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2986.D
Acq On : 9 Oct 2015 6:15 pm
Operator : F. Naegler
Sample : R1508244-015|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 09 18:30:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2986.D\data.ms

(3) Chloromethane (P)

1.288min (-0.006) 0.09 ug/L

response 728

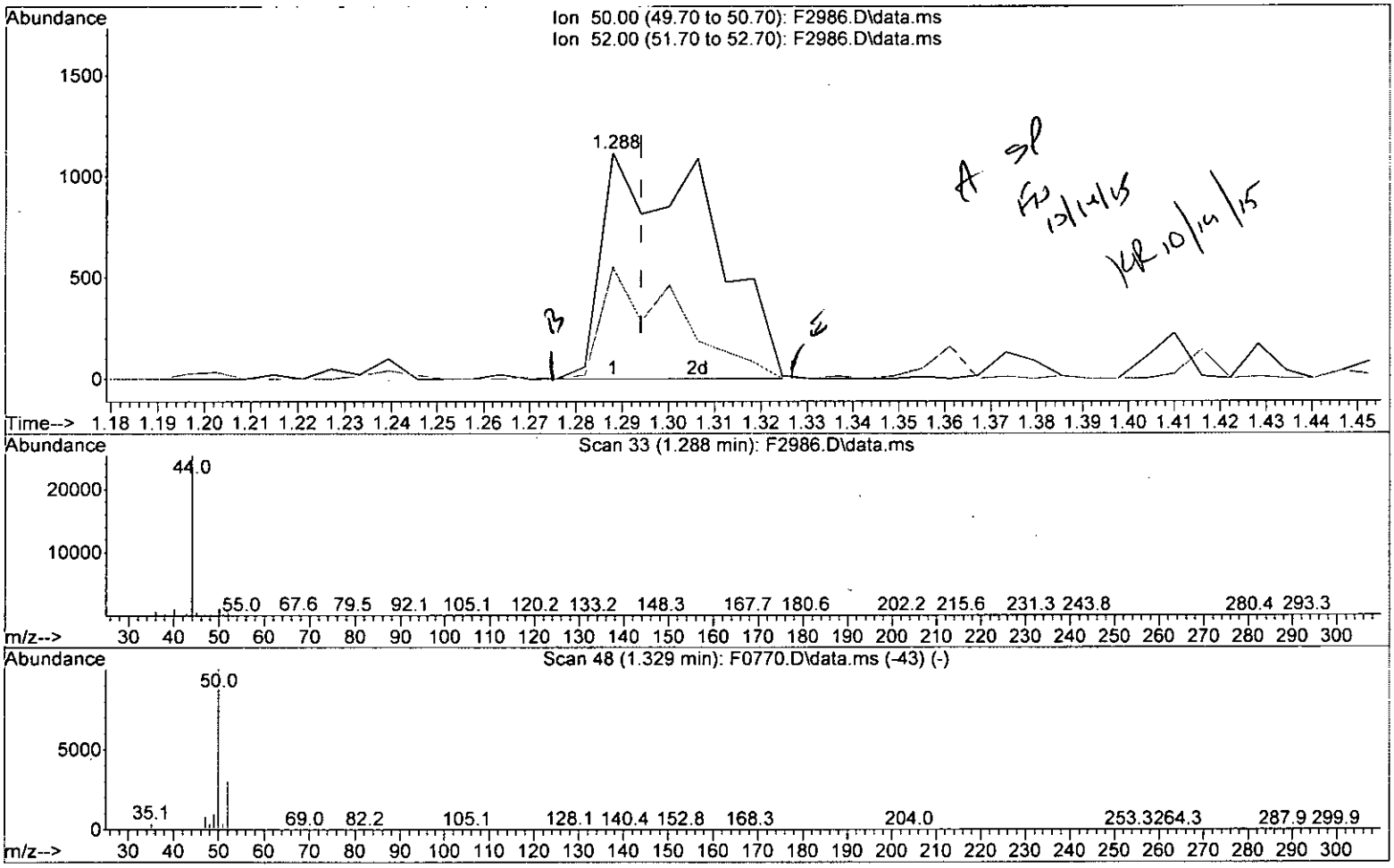
Ion	Exp%	Act%
50.00	100	100
52.00	32.00	49.42
0.00	0.00	0.00
0.00	0.00	0.00

00303

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2986.D
Acq On : 9 Oct 2015 6:15 pm
Operator : F. Naegler
Sample : R1508244-015|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 09 18:30:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2986.D\data.ms

(3) Chloromethane (P)

1.288min (-0.006) 0.23 ug/L m

response 1797

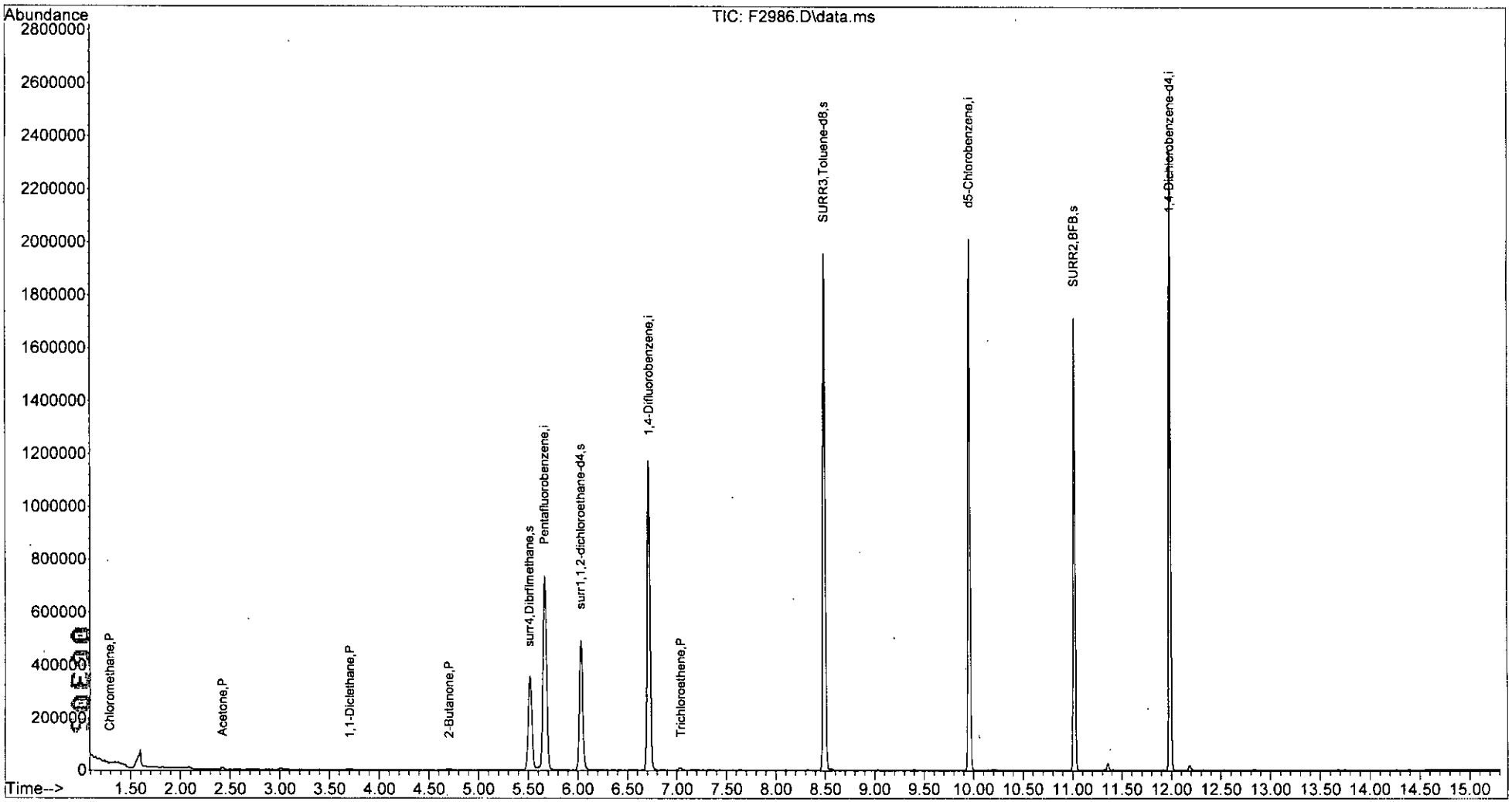
Ion	Exp%	Act%
50.00	100	100
52.00	32.00	49.42
0.00	0.00	0.00
0.00	0.00	0.00

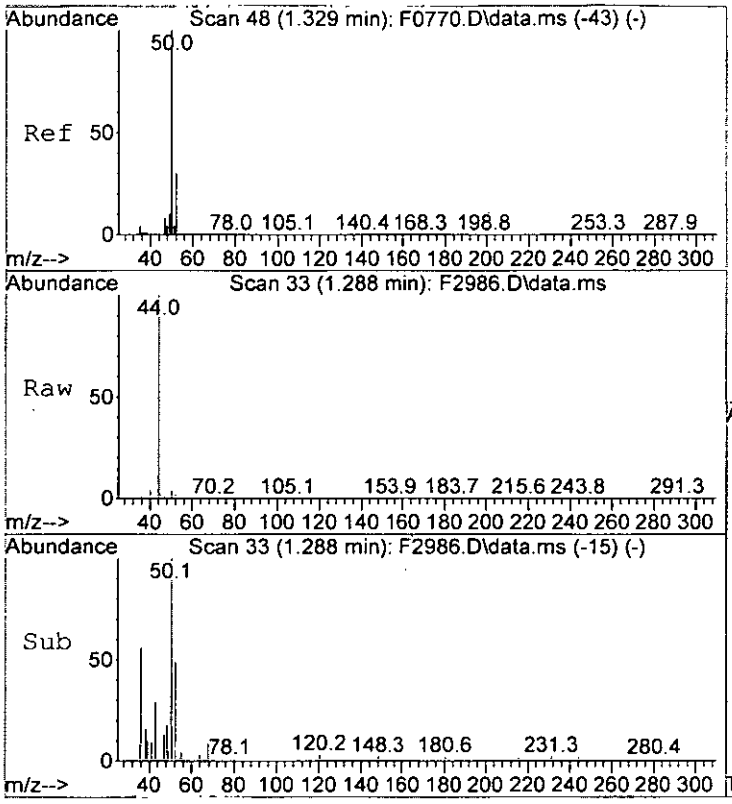
00304

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2986.D
Acq On : 9 Oct 2015 6:15 pm
Operator : F. Naegler
Sample : R1508244-015|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 15:17:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

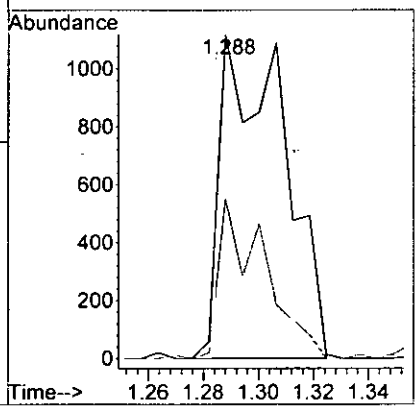


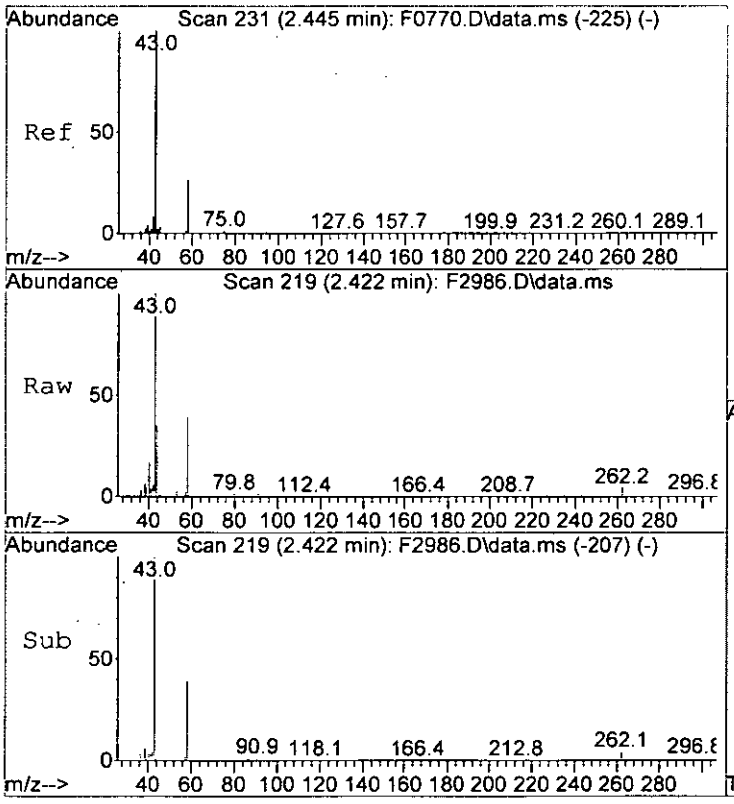


#3
Chloromethane
Concen: 0.23 ug/L m
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: F2986.D
Acq: 9 Oct 2015 6:15 pm

Tgt Ion: 50 Resp: 1797

Ion	Ratio	Lower	Upper
50	100		
52	49.4	12.0	52.0

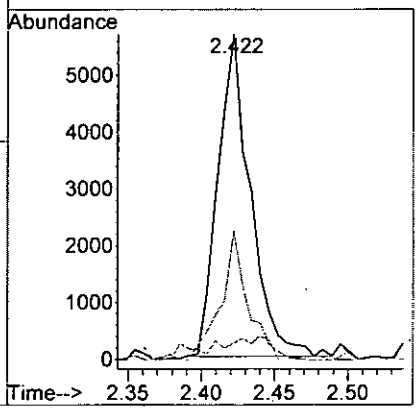




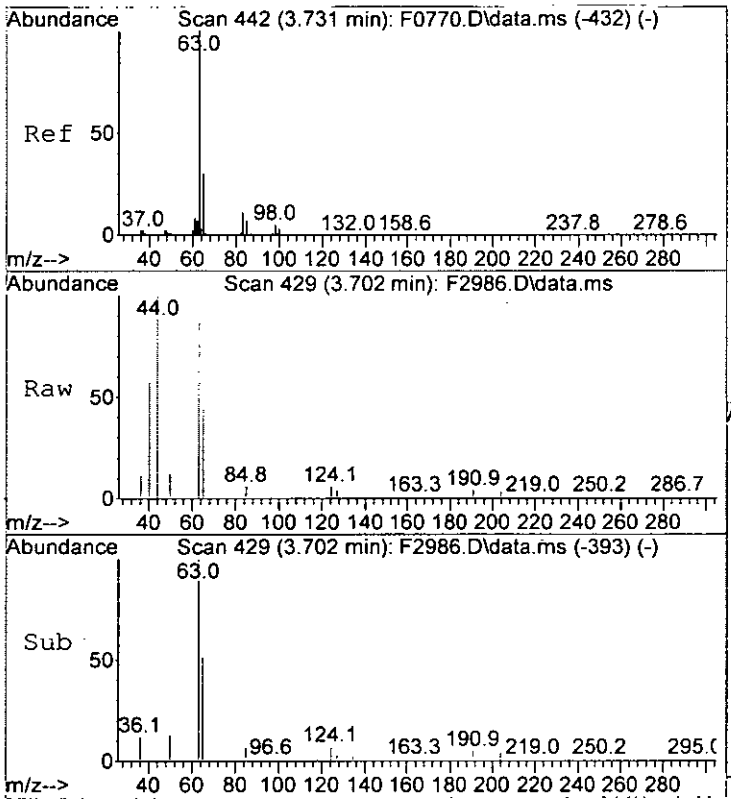
#15
Acetone
Concen: 1.56 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2986.D
Acq: 9 Oct 2015 6:15 pm

Tgt Ion: 43 Resp: 8717

Ion	Ratio	Lower	Upper
43	100		
58	39.3	6.1	46.1
42	4.8	0.0	28.3



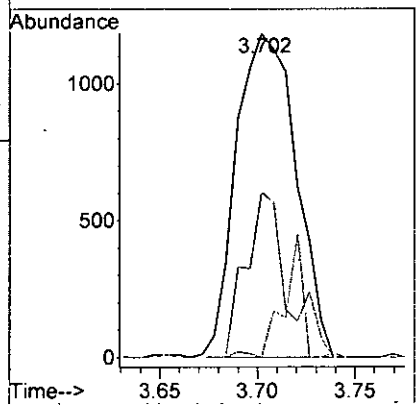
00306

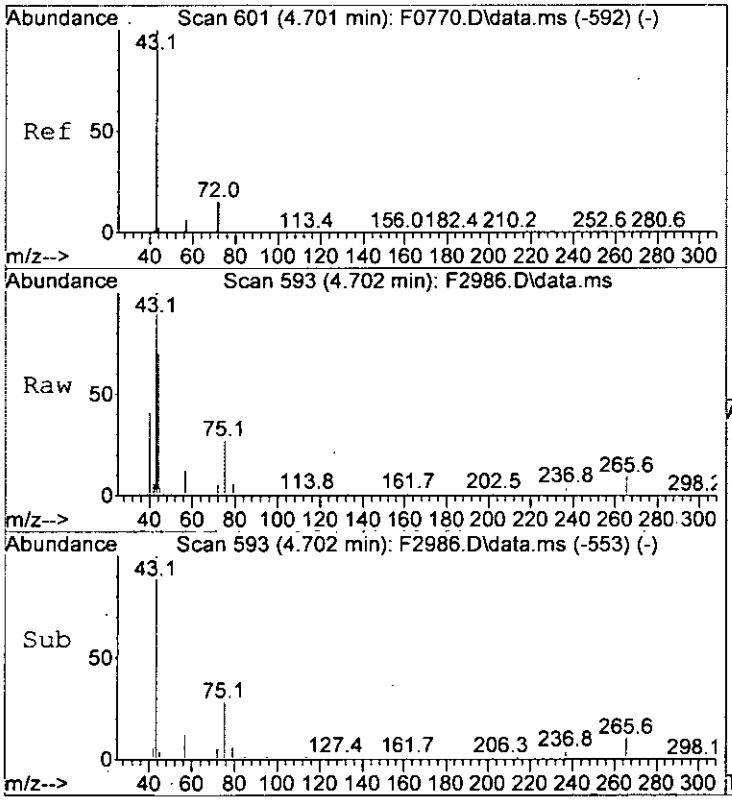


#27
1,1-Diclethane
Concen: 0.20 ug/L
RT: 3.702 min Scan# 429
Delta R.T. -0.006 min
Lab File: F2986.D
Acq: 9 Oct 2015 6:15 pm

Tgt Ion: 63 Resp: 2526

Ion	Ratio	Lower	Upper
63	100		
65	50.9	9.9	49.9#
83	0.0	0.0	31.1

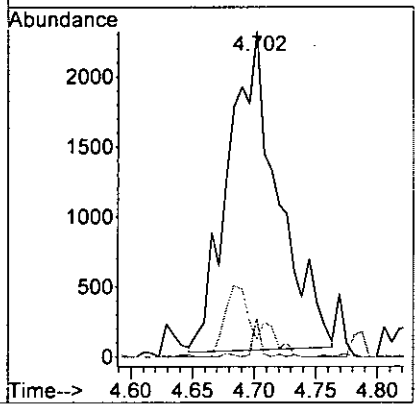


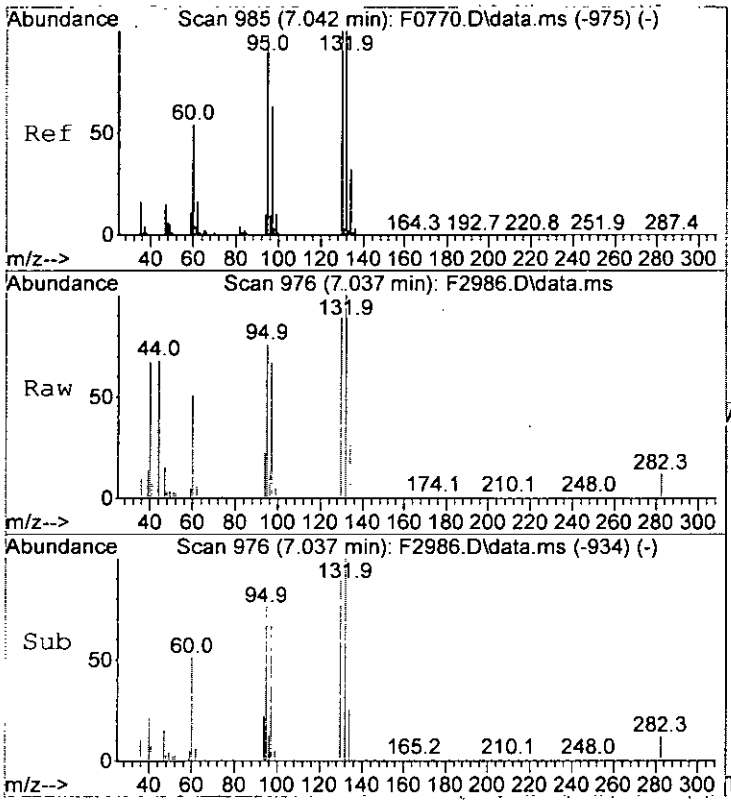


#34
2-Butanone
Concen: 0.91 ug/L
RT: 4.702 min Scan# 593
Delta R.T. 0.018 min
Lab File: F2986.D
Acq: 9 Oct 2015 6:15 pm

Tgt Ion: 43 Resp: 6379

Ion	Ratio	Lower	Upper
43	100		
57	11.8	0.0	25.7
72	5.8	0.0	35.3

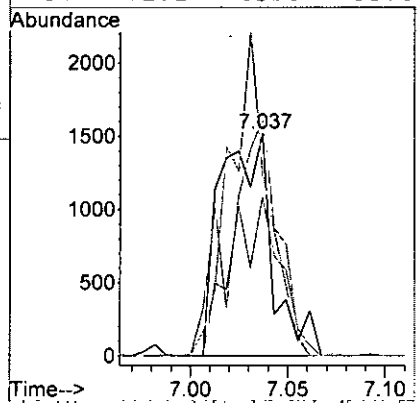




#53
Trichloroethene
Concen: 0.37 ug/L
RT: 7.037 min Scan# 976
Delta R.T. 0.006 min
Lab File: F2986.D
Acq: 9 Oct 2015 6:15 pm

Tgt Ion:130 Resp: 2794

Ion	Ratio	Lower	Upper
130	100		
132	106.5	79.9	119.9
95	81.5	77.5	117.5
97	71.1	43.0	83.0



00308

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2986.D
Acq On : 9 Oct 2015 6:15 pm
Operator : F. Naegler
Sample : R1508244-015|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2986.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.581	71	81	82	rBV2	46655	104652	3.35%	0.604%
2	1.599	82	84	89	rVB	65397	58603	1.87%	0.338%
3	5.519	715	727	736	rBV2	357279	934937	29.91%	5.399%
4	5.665	741	751	765	rVB	735257	1823343	58.32%	10.530%
5	6.031	802	811	824	rBV	493631	1129331	36.12%	6.522%
6	6.714	915	923	934	rBV	1172684	2309503	73.87%	13.338%
7	8.488	1207	1214	1224	rBV	1956715	3126235	100.00%	18.055%
8	9.957	1448	1455	1465	rVB	2011353	2765281	88.45%	15.970%
9	11.018	1623	1629	1635	rBV	1712611	2127772	68.06%	12.288%
10	11.353	1680	1684	1690	rBV3	26741	36464	1.17%	0.211%
11	11.987	1782	1788	1796	rVB	2347216	2866385	91.69%	16.554%
12	12.176	1815	1819	1830	rVB3	18800	32950	1.05%	0.190%

Sum of corrected areas: 17315456

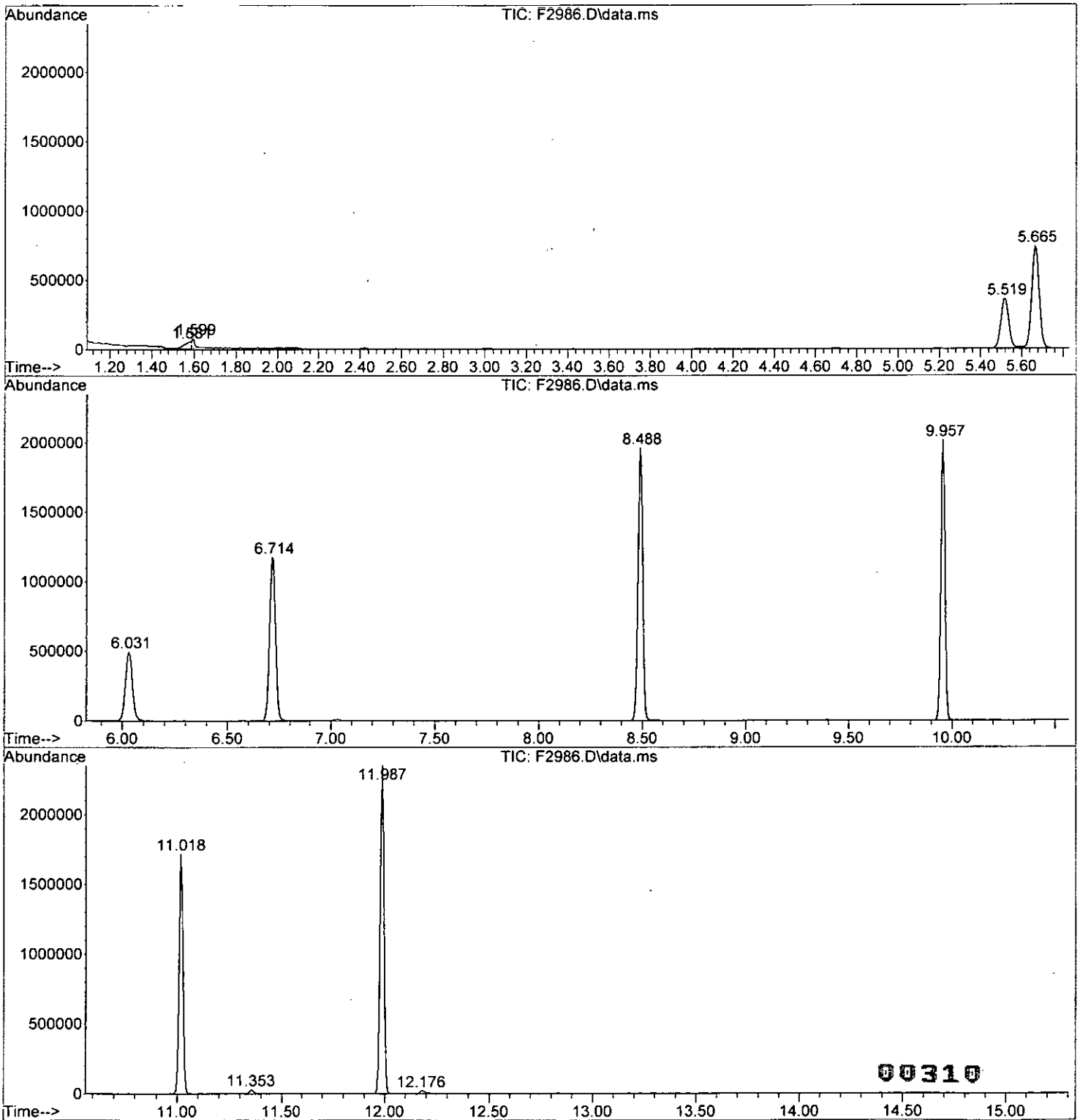
00309

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2986.D
Acq On : 9 Oct 2015 6:15 pm
Operator : F. Naegler
Sample : R1508244-015|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\\
Data File : F2986.D
Acq On : 9 Oct 2015 6:15 pmm
Operator : F. Naeglerr
Sample : R1508244-015|1.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 15 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00311

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1235
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:40
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1508244-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00312

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1235
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:40
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1508244-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.21**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.23**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 1235
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 18:40
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	Percent
Lab Code:	R1508244-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2987.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	75-120	10/9/15 18:40	
Dibromofluoromethane	94	85-115	10/9/15 18:40	
Toluene-d8	97	85-120	10/9/15 18:40	

00314

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1840

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1508244-016	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00315

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2987.D
Acq On : 9 Oct 2015 6:40 pm
Operator : F. Naegler
Sample : R1508244-016|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 14 15:23:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	644660	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	928814	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	821996	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	431150	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	280807	46.86	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 93.72%			
46) surr1,1,2-dichloroetha...	6.031	65	392583	46.20	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 92.40%			
64) SURR3,Toluene-d8	8.488	98	1057271	48.40	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.80%			
69) SURR2,BFB	11.018	95	398113	44.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 88.28%			
Target Compounds						Qvalue
3) Chloromethane	1.300	50	1665	0.21	ug/L	95
15) Acetone	2.428	43	8711	1.58	ug/L	79
53) Trichloroethene	7.031	130	1721	0.23	ug/L #	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

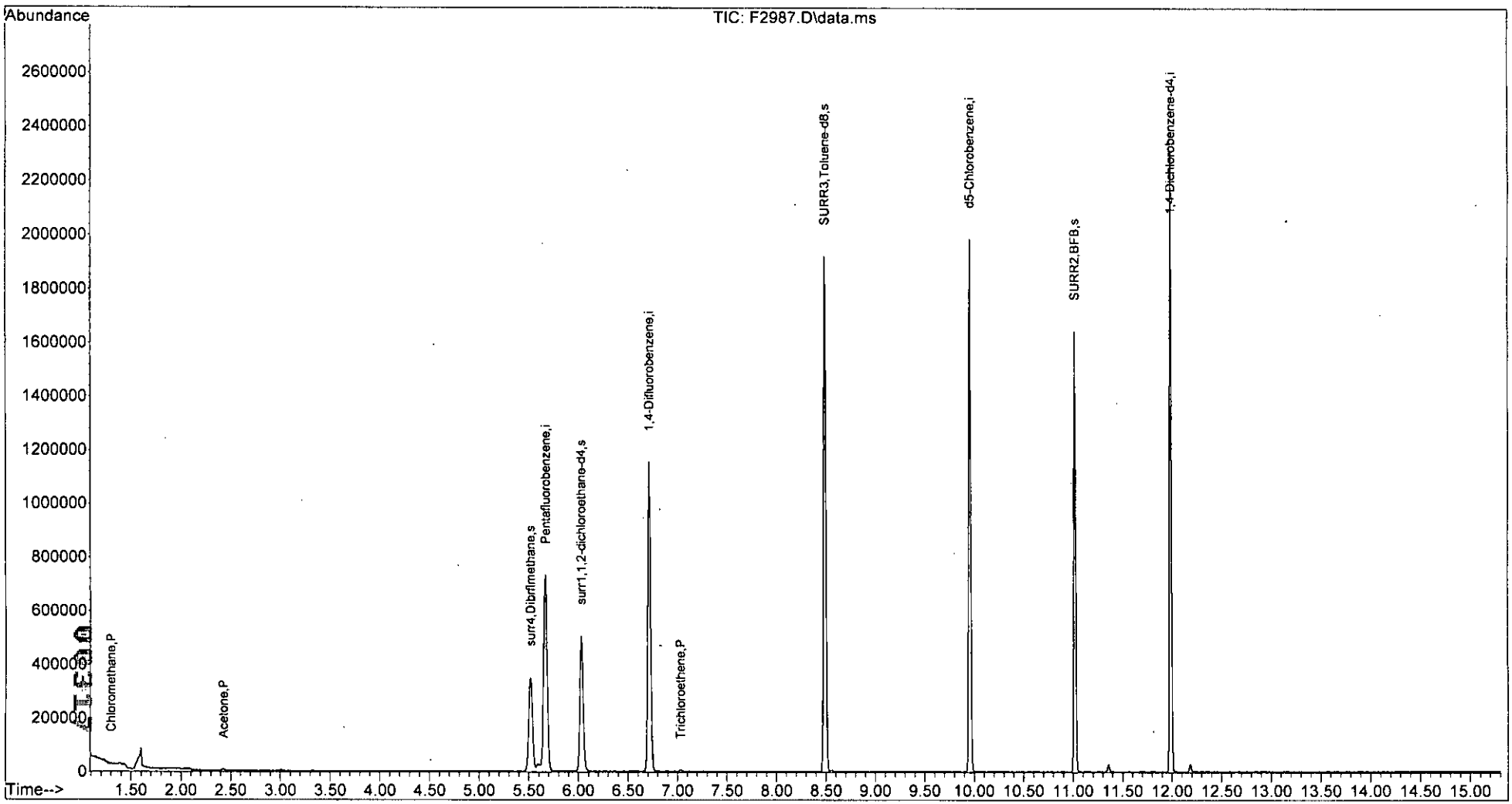
FD
10/14/15

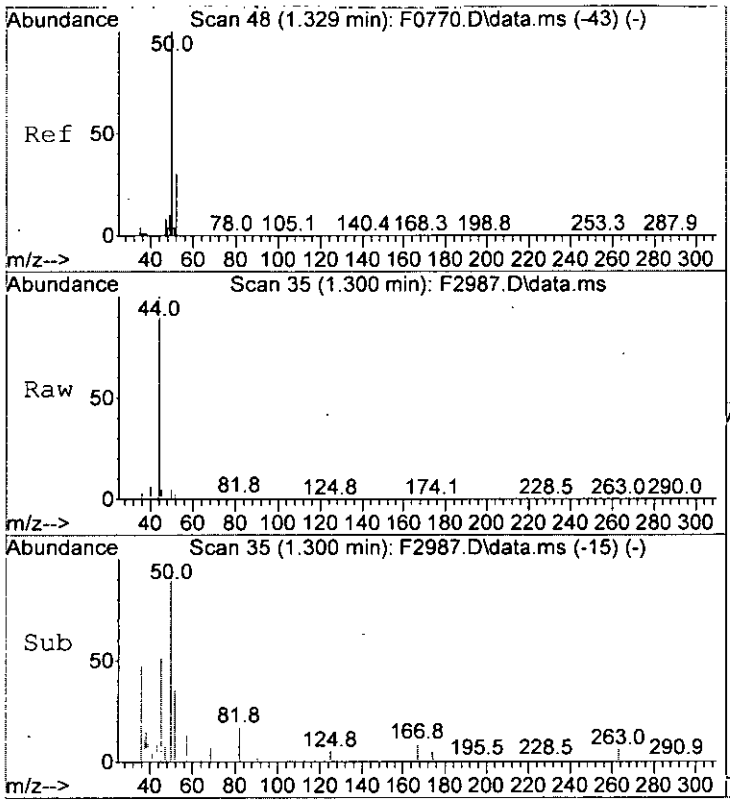
00316

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2987.D
Acq On : 9 Oct 2015 6:40 pm
Operator : F. Naegler
Sample : R1508244-016|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 14 15:23:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

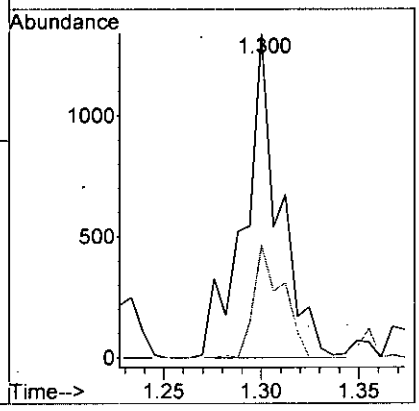


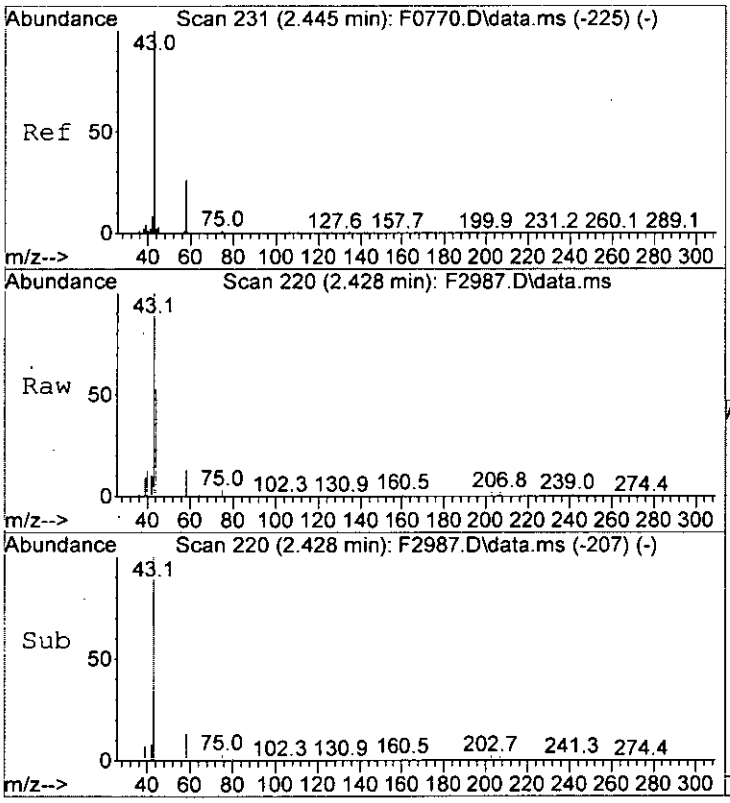


#3
Chloromethane
Concen: 0.21 ug/L
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: F2987.D
Acq: 9 Oct 2015 6:40 pm

Tgt Ion: 50 Resp: 1665

Ion	Ratio	Lower	Upper
50	100		
52	34.8	12.0	52.0

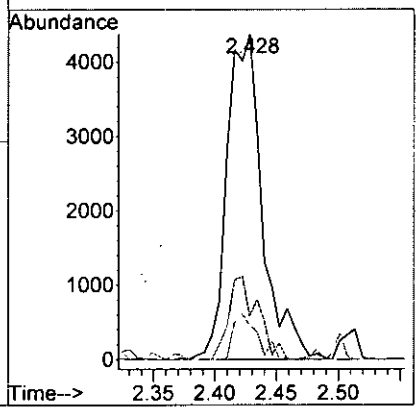




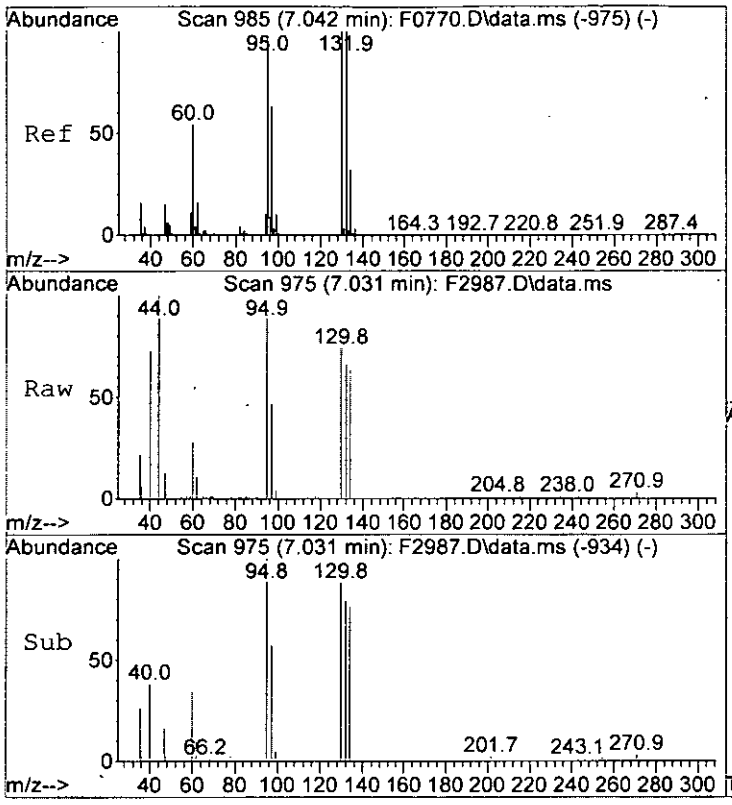
#15
Acetone
Concen: 1.58 ug/L
RT: 2.428 min Scan# 220
Delta R.T. 0.007 min
Lab File: F2987.D
Acq: 9 Oct 2015 6:40 pm

Tgt Ion: 43 Resp: 8711

Ion	Ratio	Lower	Upper
43	100		
58	13.2	6.1	46.1
42	10.4	0.0	28.3



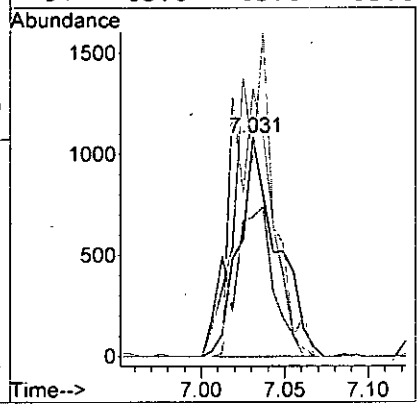
00318



#53
Trichloroethene
Concen: 0.23 ug/L
RT: 7.031 min Scan# 975
Delta R.T. 0.000 min
Lab File: F2987.D
Acq: 9 Oct 2015 6:40 pm

Tgt Ion:130 Resp: 1721

Ion	Ratio	Lower	Upper
130	100		
132	89.0	79.9	119.9
95	122.2	77.5	117.5#
97	63.8	43.0	83.0



00319

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2987.D
Acq On : 9 Oct 2015 6:40 pm
Operator : F. Naegler
Sample : R1508244-016|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2987.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	72	84	87	rBV	76420	162616	5.33%	0.960%
2	5.519	713	727	735	rBV2	349841	920240	30.14%	5.430%
3	5.671	743	752	764	rVB	731063	1796616	58.85%	10.602%
4	6.031	800	811	822	rBV	505473	1139405	37.32%	6.724%
5	6.714	911	923	938	rVB	1153508	2276881	74.58%	13.436%
6	8.488	1206	1214	1222	rBV	1919868	3052877	100.00%	18.015%
7	9.957	1448	1455	1467	rBV	1983205	2695354	88.29%	15.905%
8	11.018	1623	1629	1635	rBV	1642894	2054593	67.30%	12.124%
9	11.359	1680	1685	1690	rBV3	27429	34264	1.12%	0.202%
10	11.987	1781	1788	1794	rBV	2309077	2775965	90.93%	16.381%
11	12.182	1815	1820	1827	rBV2	27831	37387	1.22%	0.221%

Sum of corrected areas: 16946198

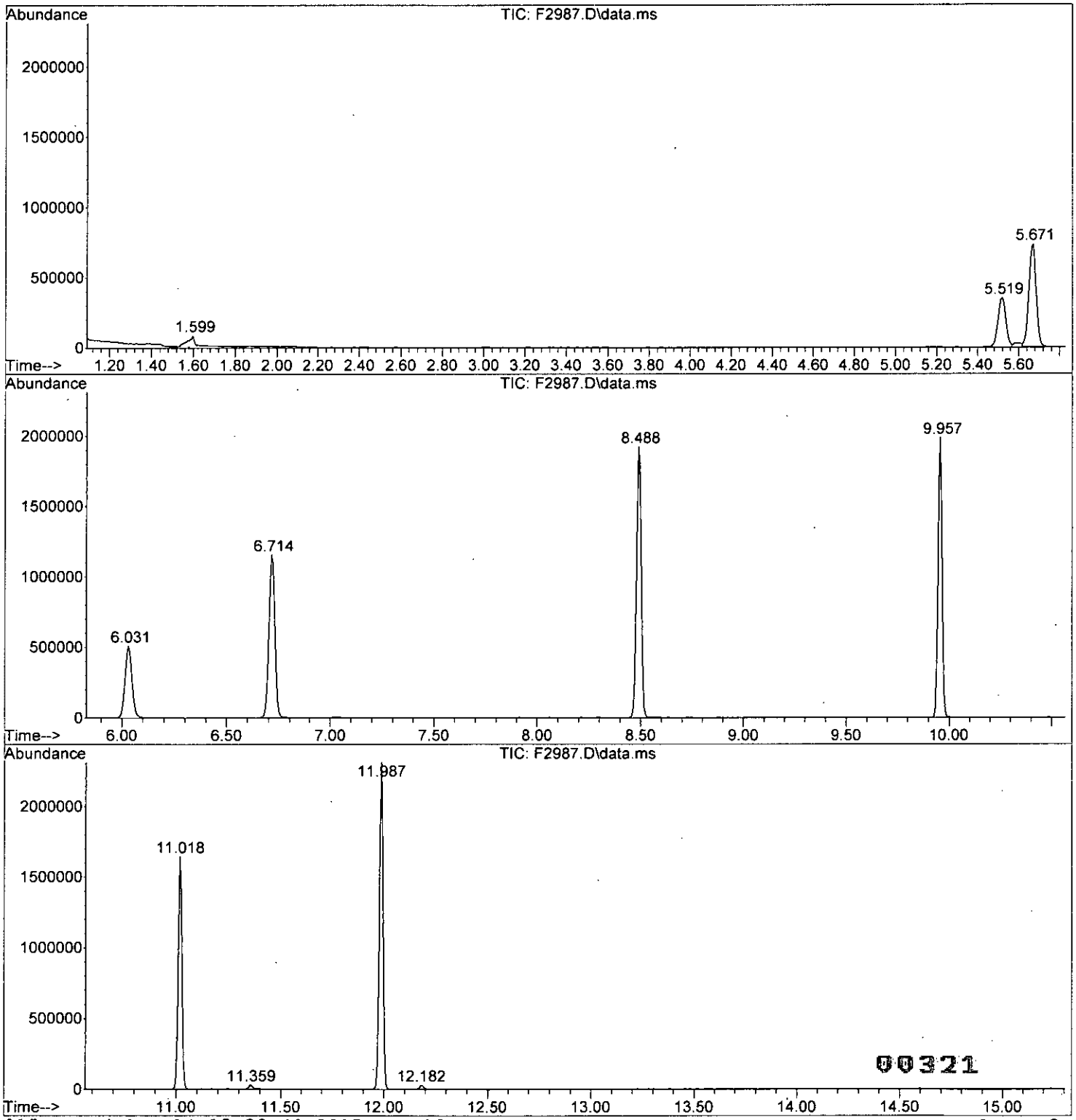
00320

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2987.D
Acq On : 9 Oct 2015 6:40 pm
Operator : F. Naegler
Sample : R1508244-016|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\\
Data File : F2987.D
Acq On : 9 Oct 2015 6:40 pmm
Operator : F. Naeglerr
Sample : R1508244-016|1.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 16 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00322

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:12
Sample Name:	FTMM-TB-20150930	**Units:**	µg/L
Lab Code:	R1508244-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00323

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:12
Sample Name:	FTMM-TB-20150930	**Units:**	µg/L
Lab Code:	R1508244-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00324

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 14:12
Sample Name:	FTMM-TB-20150930	**Units:**	Percent
Lab Code:	R1508244-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2976.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 14:12	
Dibromofluoromethane	92	85-115	10/9/15 14:12	
Toluene-d8	97	85-120	10/9/15 14:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/9/15 1412

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-TB-20150930	**Units:**	µg/L
Lab Code:	R1508244-017	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00326

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2976.D
Acq On : 9 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : R1508244-017|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:20:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	636889	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	920371	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	824511	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	431712	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	272254	45.84	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 91.68%			
46) surr1,1,2-dichloroetha...	6.031	65	377808	44.87	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 89.74%			
64) SURR3,Toluene-d8	8.494	98	1047580	48.40	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.80%			
69) SURR2,BFB	11.018	95	401161	44.88	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.76%			
Target Compounds						Qvalue
15) Acetone	2.422	43	2822	0.52	ug/L	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

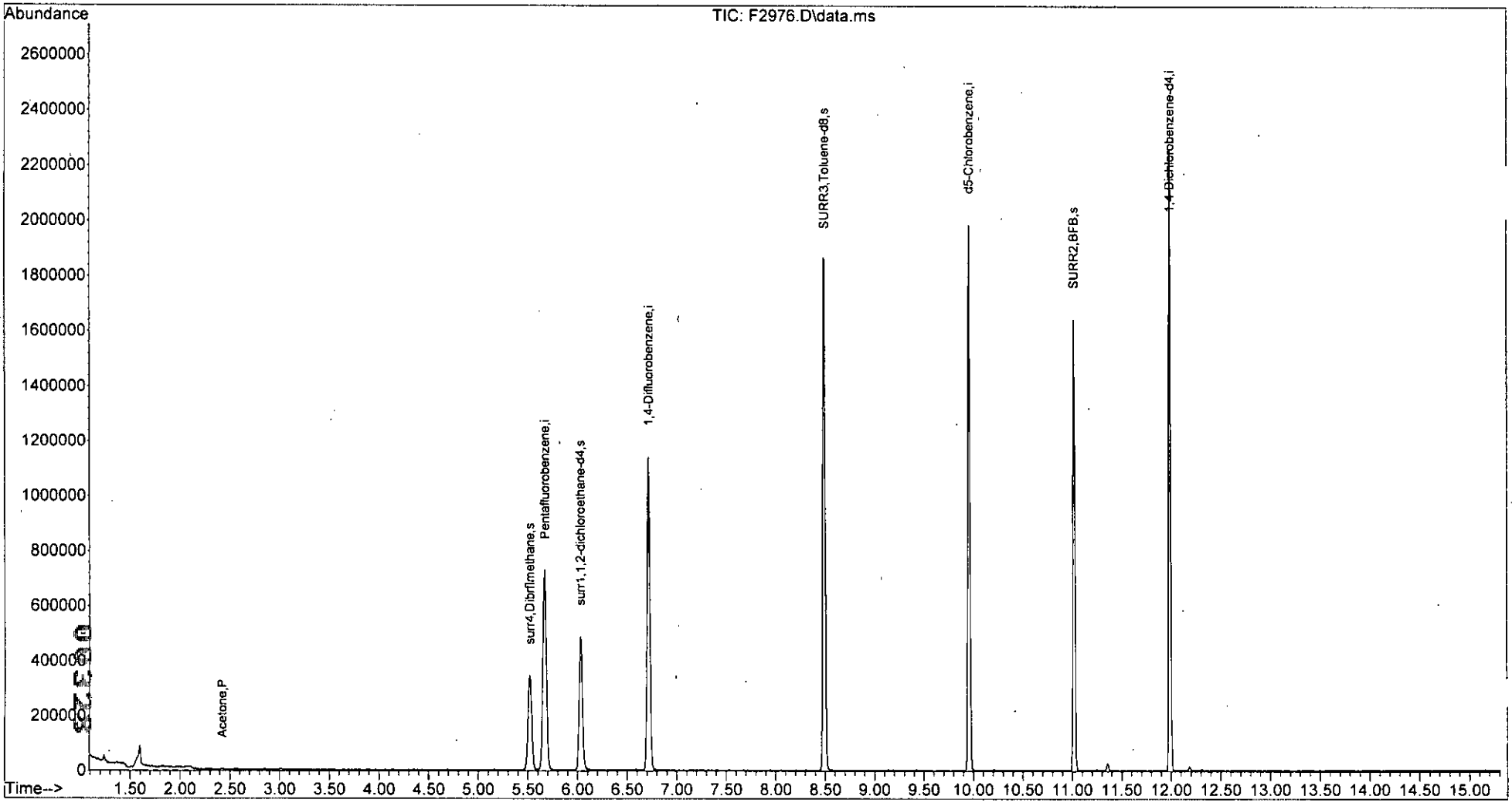
FW 10/14/15

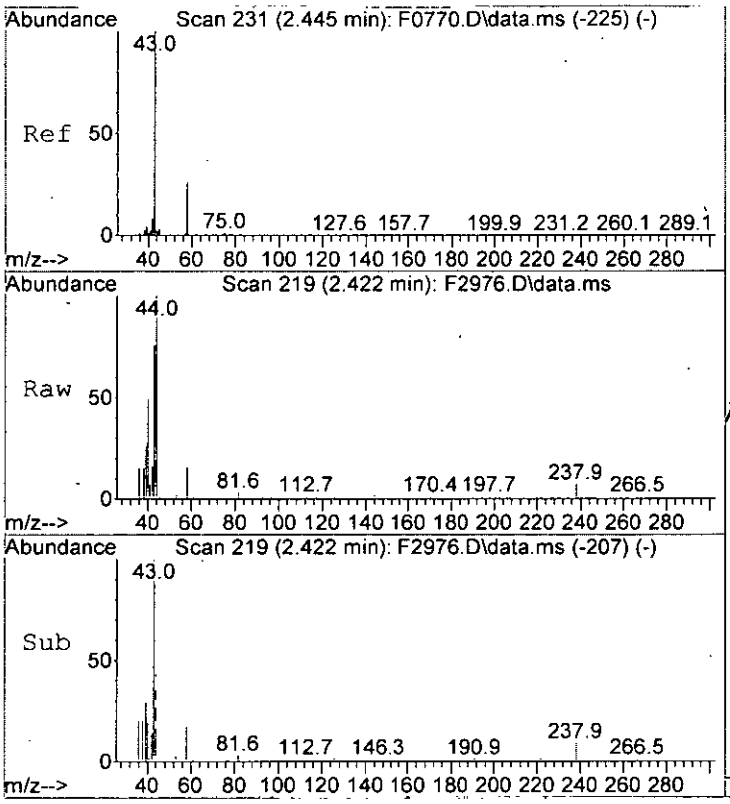
00327

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2976.D
Acq On : 9 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : R1508244-017|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:20:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

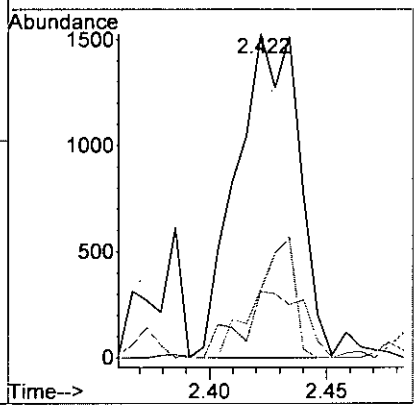




#15
Acetone
Concen: 0.52 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2976.D
Acq: 9 Oct 2015 2:12 pm

Tgt Ion: 43 Resp: 2822

Ion	Ratio	Lower	Upper
43	100		
58	20.5	6.1	46.1
42	21.0	0.0	28.3



00329

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2976.D
Acq On : 9 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : R1508244-017|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2976.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	72	84	87	rBV2	79986	176857	5.86%	1.052%
2	5.519	717	727	737	rBV	345374	898055	29.77%	5.343%
3	5.671	742	752	768	rVB	728281	1798972	59.63%	10.703%
4	6.031	802	811	822	rBV	486866	1108259	36.74%	6.594%
5	6.720	915	924	933	rBV	1139982	2263284	75.02%	13.466%
6	8.488	1207	1214	1225	rBV	1864315	3016864	100.00%	17.949%
7	9.957	1449	1455	1463	rBV	1983017	2688477	89.11%	15.995%
8	11.018	1623	1629	1636	rVB	1639834	2063052	68.38%	12.274%
9	11.359	1680	1685	1689	rBV4	25228	32425	1.07%	0.193%
10	11.987	1782	1788	1794	rBV	2257310	2761497	91.54%	16.430%

Sum of corrected areas: 16807742

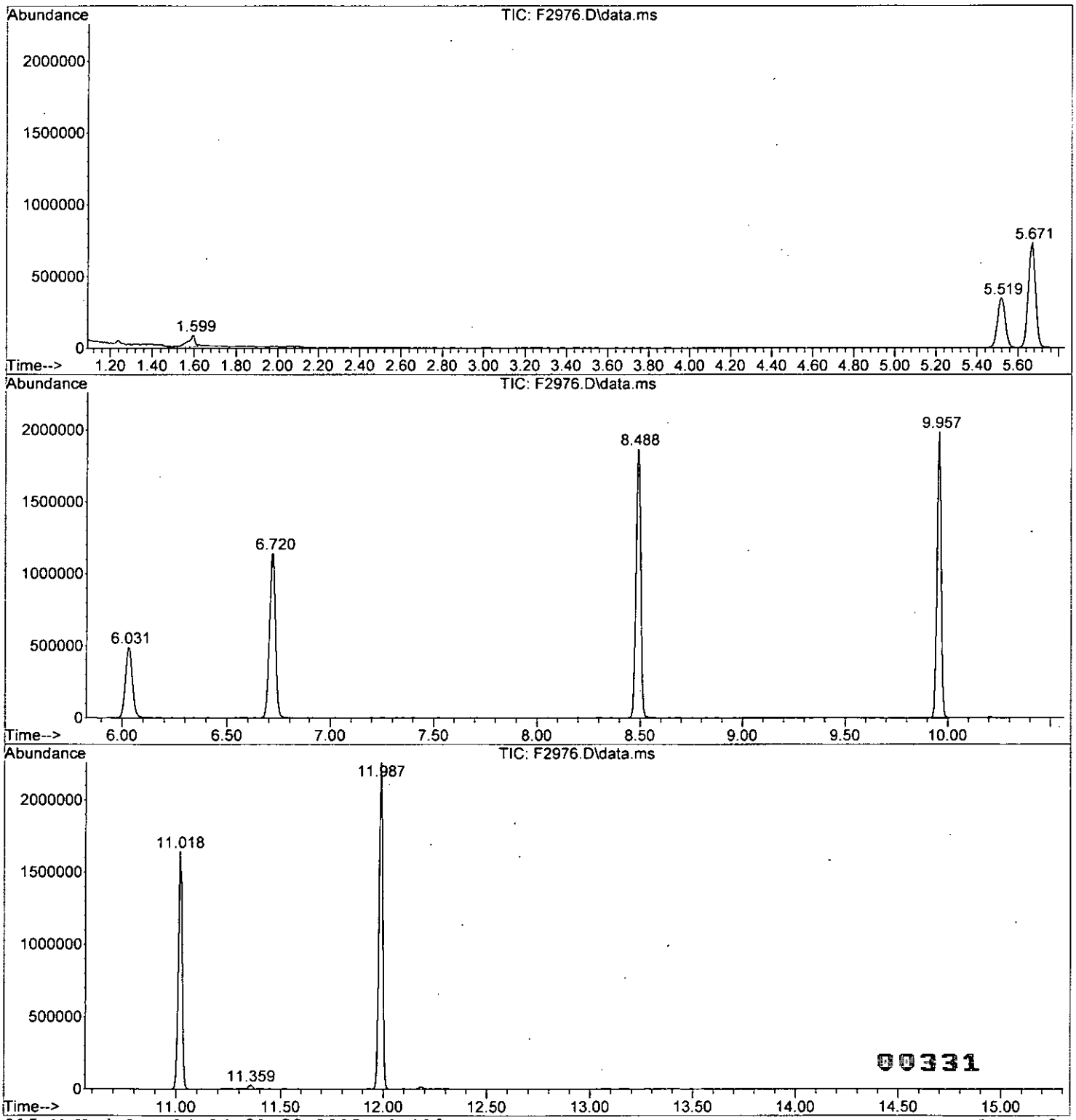
00330

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2976.D
Acq On : 9 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : R1508244-017|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\\
Data File : F2976.D
Acq On : 9 Oct 2015 2:12 pmm
Operator : F. Naeglerr
Sample : R1508244-017|1.0 Inst : MSVOA100
Misc : PARSONS 11603 T44
ALS Vial : 5 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00332

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0910
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-53-GW-699RW05-10	**Units:**	µg/L
Lab Code:	R1508244-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	1	NA	10/9/15 19:04		466298	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	1	NA	10/9/15 19:04		466298	
1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	1	NA	10/9/15 19:04		466298	
1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	1	NA	10/9/15 19:04		466298	
1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	1	NA	10/9/15 19:04		466298	
1,1-Dichloropropene	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	
1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	1	NA	10/9/15 19:04		466298	
1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	1	NA	10/9/15 19:04		466298	
1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	1	NA	10/9/15 19:04		466298	
1,2,4-Trimethylbenzene	**180**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	1	NA	10/9/15 19:04		466298	
1,2-Dibromoethane	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	1	NA	10/9/15 19:04		466298	
1,2-Dichloroethane	ND	U	5.0	1.0	0.36	1	NA	10/9/15 19:04		466298	
1,2-Dichloropropane	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,3,5-Trimethylbenzene	**4.6**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
1,3-Dichloropropane	ND	U	5.0	1.0	0.27	1	NA	10/9/15 19:04		466298	
1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
2,2-Dichloropropane	ND	U	5.0	1.0	0.27	1	NA	10/9/15 19:04		466298	
2-Butanone (MEK)	**0.82**	J	5.0	1.0	0.81	1	NA	10/9/15 19:04		466298	
2-Chlorotoluene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
2-Hexanone	ND	U	5.0	5.0	1.7	1	NA	10/9/15 19:04		466298	
tert-Butyl Alcohol	ND	U	100	20	11	1	NA	10/9/15 19:04		466298	
4-Chlorotoluene	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
p-Isopropyltoluene	**0.57**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	1	NA	10/9/15 19:04		466298	
Acetone	**5.8**		5.0	5.0	1.3	1	NA	10/9/15 19:04		466298	
Benzene	**2.8**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Bromobenzene	ND	U	5.0	1.0	0.28	1	NA	10/9/15 19:04		466298	
Bromochloromethane	ND	U	5.0	1.0	0.32	1	NA	10/9/15 19:04		466298	
Bromodichloromethane	ND	U	5.0	1.0	0.32	1	NA	10/9/15 19:04		466298	
Bromoform	ND	U	5.0	1.0	0.42	1	NA	10/9/15 19:04		466298	
Bromomethane	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	
Carbon Tetrachloride	ND	U	5.0	1.0	0.45	1	NA	10/9/15 19:04		466298	
Chlorobenzene	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0910
Sample Matrix:	Water	**Date Received:**	10/ 1/15
Sample Name:	FTMM-53-GW-699RW05-10	**Units:**	µg/L
Lab Code:	R1508244-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Chloroethane	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
Chloroform	ND	U	5.0	1.0	0.25	1	NA	10/9/15 19:04		466298	
Chloromethane	ND	U	5.0	1.0	0.21	1	NA	10/9/15 19:04		466298	
Dibromochloromethane	ND	U	5.0	1.0	0.31	1	NA	10/9/15 19:04		466298	
Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	1	NA	10/9/15 19:04		466298	
Methylene Chloride	ND	U	5.0	1.0	0.60	1	NA	10/9/15 19:04		466298	
Ethylbenzene	**180**	D	13	2.5	0.50	2.5	NA	10/12/15 15:03		466502	
Hexachlorobutadiene	ND	U	5.0	1.0	0.62	1	NA	10/9/15 19:04		466298	
Isopropylbenzene (Cumene)	**13**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	1	NA	10/9/15 19:04		466298	
Naphthalene	**39**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Styrene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	1	NA	10/9/15 19:04		466298	
Toluene	**9.4**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	1	NA	10/9/15 19:04		466298	
Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
Vinyl Chloride	ND	U	5.0	1.0	0.32	1	NA	10/9/15 19:04		466298	
cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	1	NA	10/9/15 19:04		466298	
cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	1	NA	10/9/15 19:04		466298	
m,p-Xylenes	**150**		10	2.0	0.33	1	NA	10/9/15 19:04		466298	
n-Butylbenzene	**0.67**	J	5.0	1.0	0.21	1	NA	10/9/15 19:04		466298	
n-Propylbenzene	**19**		5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
o-Xylene	**210**	D	13	2.5	0.50	2.5	NA	10/12/15 15:03		466502	
sec-Butylbenzene	**0.98**	J	5.0	1.0	0.27	1	NA	10/9/15 19:04		466298	
tert-Butylbenzene	**0.25**	J	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	
trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	1	NA	10/9/15 19:04		466298	
trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	1	NA	10/9/15 19:04		466298	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/9/15 19:04	
Dibromofluoromethane	94	85-115	10/9/15 19:04	
Toluene-d8	99	85-120	10/9/15 19:04	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15
Sample Matrix:	Water	**Date Received:**	10/1/15
		Date Analyzed:	10/ 9/15 - 10/12/15

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	FTMM-53-GW-699RW05-10	**Units:**	µg/L
Lab Code:	R1508244-018	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
007446-09-5	Sulfur dioxide	1.27	**14.7**	JN
000078-78-4	Butane, 2-methyl-	1.76	**75.1**	JN
000078-78-4	Butane, 2-methyl-	1.77	**103.9**	JN
000109-66-0	Pentane	1.98	**18.8**	JN
000109-66-0	Pentane	1.98	**28.8**	JN
	unknown	2.84	**18.3**	J
000079-29-8	Butane, 2,3-dimethyl-	2.84	**29.7**	JN
	unknown	2.89	**26.6**	J
000107-83-5	Pentane, 2-methyl-	2.89	**42.9**	JN
000109-67-1	1-Pentene	2.93	**34.2**	JN
	unknown	2.93	**49.1**	J
000096-14-0	Pentane, 3-methyl-	3.18	**30.2**	JN
000096-14-0	Pentane, 3-methyl-	3.18	**43.6**	JN
000096-37-7	Cyclopentane, methyl-	4.43	**101.7**	JN
000096-37-7	Cyclopentane, methyl-	4.43	**140.6**	JN
000110-82-7	Cyclohexane	5.60	**15.7**	JN
000110-82-7	Cyclohexane	5.60	**19.7**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.33	**17.4**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.33	**20.7**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.35	**21.3**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.35	**24.2**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.57	**85.9**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.57	**98.4**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	12.05	**106.7**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	12.05	**120.4**	JN
	unknown	12.21	**130.7**	J
000496-11-7	Indane	12.21	**144.9**	JN
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	12.59	**16.8**	JN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	12.59	**20.3**	JN
000767-58-8	Indan, 1-methyl-	12.68	**18.9**	JN
027133-93-3	2,3-Dihydro-1-methylindene	12.68	**21.4**	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.90	**15.8**	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	12.91	**13.3**	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.94	**16.5**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.94	**20.0**	JN
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	13.16	**14.2**	JN

Comments:

027133-93-3	2,3-Dihydro-1-methylindene	13.28	**47.9**	JN
027133-93-3	2,3-Dihydro-1-methylindene	13.28	**41.8**	JN

Comments:

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page

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 14 15:30:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	632164	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	927999	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	838043	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	444828	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.525	113	282291	47.14	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.28%				
46) surr1,1,2-dichloroetha...	6.031	65	395253	46.56	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 93.12%				
64) SURR3,Toluene-d8	8.488	98	1079541	49.47	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.94%				
69) SURR2,BFB	11.018	95	404272	44.86	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 89.72%				
Target Compounds							Qvalue
5) Bromomethane	1.617	94	309	Below Cal		#	40
15) Acetone	2.416	43	31327m	5.79	ug/L		
34) 2-Butanone	4.684	43	5584	0.82	ug/L		97
47) Benzene	6.104	78	69904	2.81	ug/L		79
63) 4-Methyl-2-pentanone	8.402	43	8357	0.64	ug/L		73
65) Toluene	8.561	91	242149	9.36	ug/L		98
81) Ethylbenzene	10.103	106	1889783	203.95	ug/L	#	75 C
82) (m+p)Xylene	10.213	106	1689272	154.96	ug/L		96
83) o-Xylene	10.567	106	2629025	231.57	ug/L	#	84 C
87) Isopropylbenzene	10.896	105	359838	12.88	ug/L		95
94) n-Propylbenzene	11.249	91	617376	19.27	ug/L		97
98) 1,3,5-Trimethylbenzene	11.402	105	103911	4.57	ug/L		95
99) tert-Butylbenzene	11.670	119	4780	0.25	ug/L		95
100) 1,2,4-Trimethylbenzene	11.713	105	4111250	177.49	ug/L		89
102) sec-Butylbenzene	11.853	105	27428	0.98	ug/L		97
103) p-Isopropyltoluene	11.975	119	13620	0.57	ug/L		87
108) n-Butylbenzene	12.298	91	15648m	0.67	ug/L		
116) Naphthalen	13.773	128	1230874	39.28	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

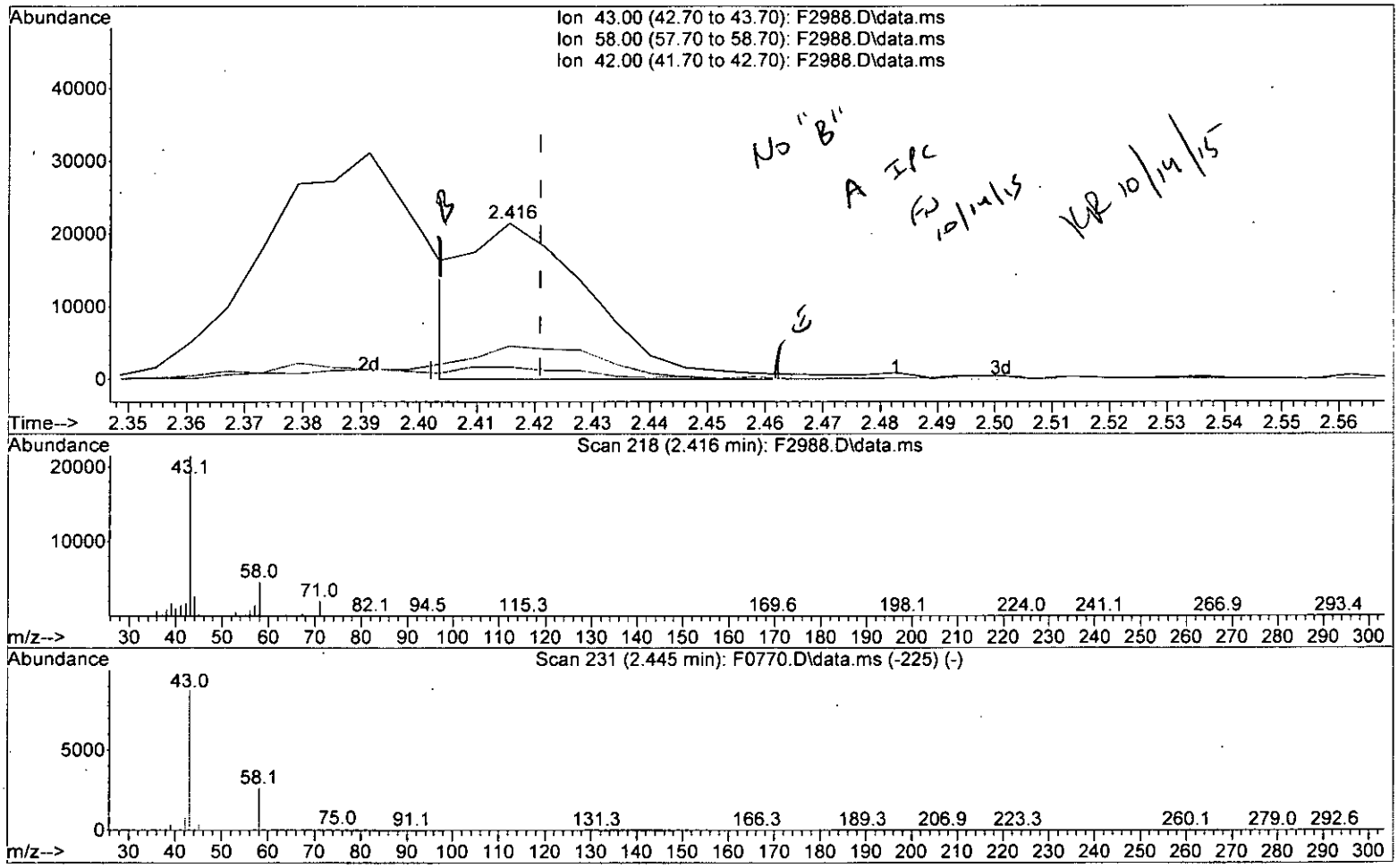
Reports Rpt 1/2.5
FW
10/14/15

00337

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 09 19:18:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2988.D\data.ms

(15) Acetone (P)

2.416min (-0.005) 5.79 ug/L m

response 31327

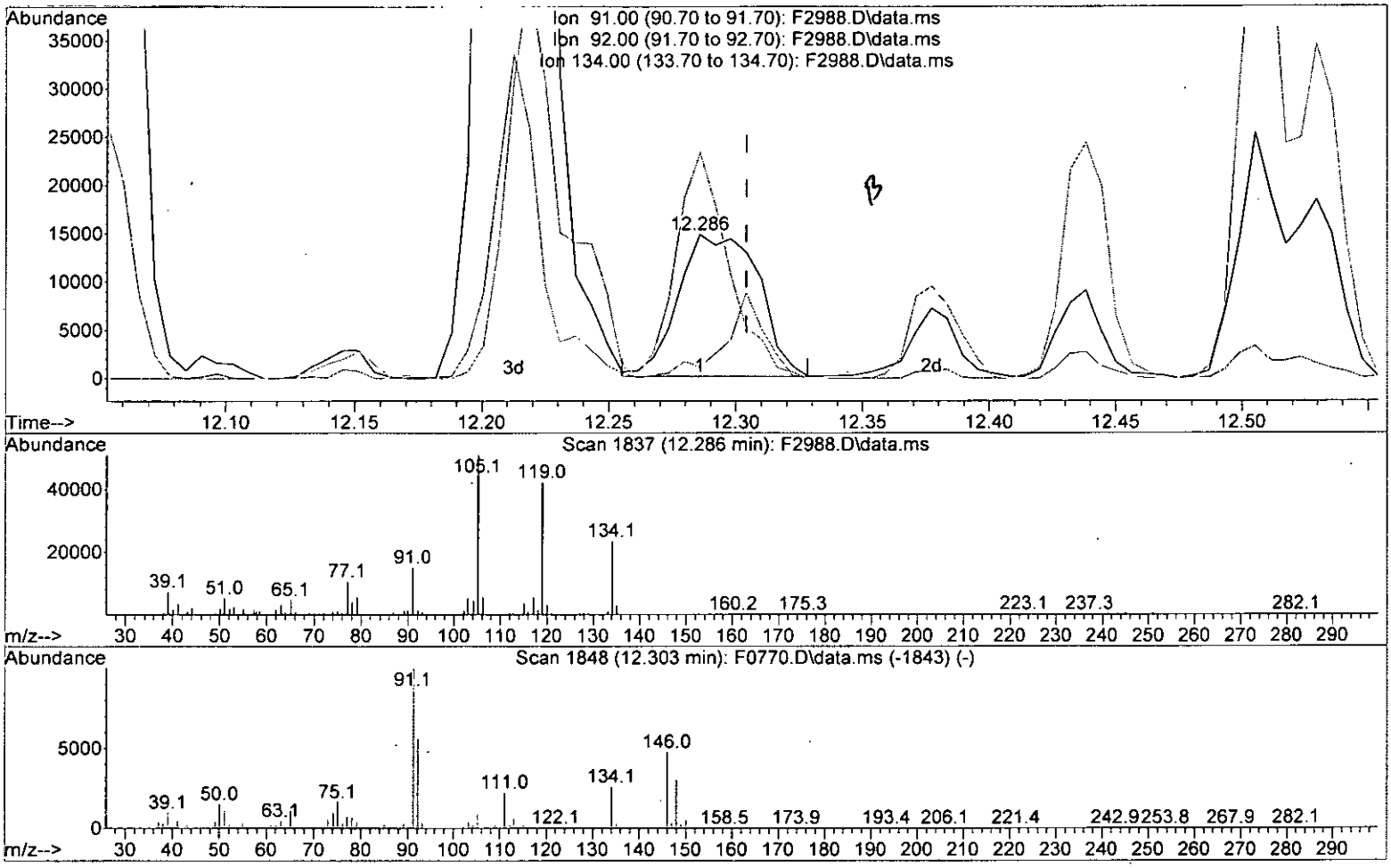
Ion	Exp%	Act%
43.00	100	100
58.00	26.10	21.20
42.00	8.30	7.79
0.00	0.00	0.00

00338

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 09 19:18:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2988.D\data.ms

(108) n-Butylbenzene

12.286min (-0.018) 1.37 ug/L

response 32036

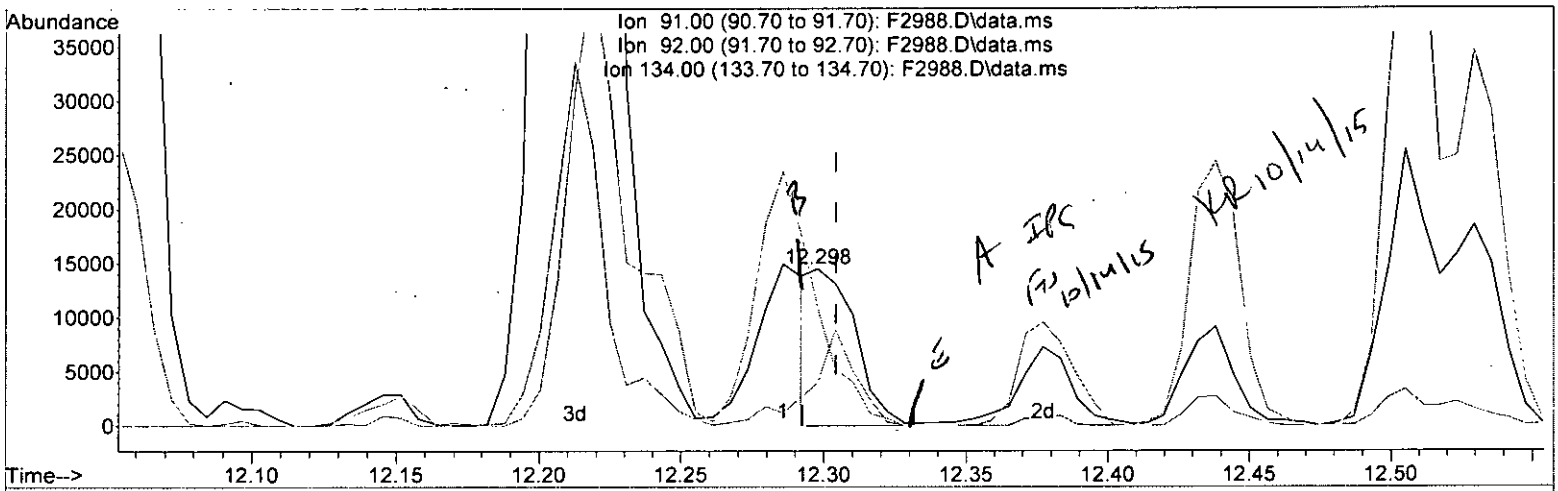
Ion	Exp%	Act%
91.00	100	100
92.00	55.80	7.82#
134.00	25.70	156.90#
0.00	0.00	0.00

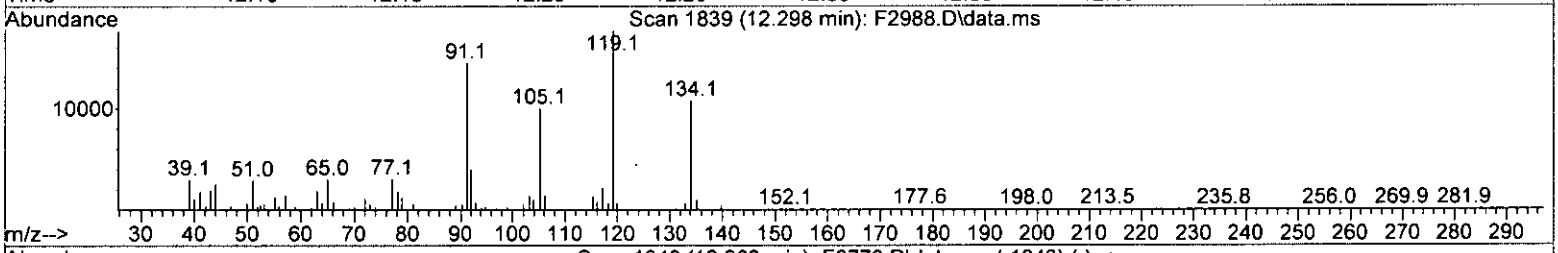
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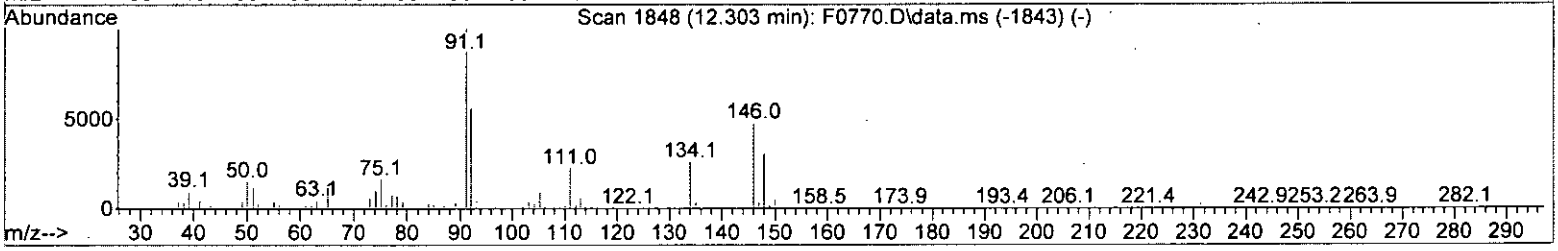
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 09 19:18:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2988.D\data.ms

(108) n-Butylbenzene

12.298min (-0.006) 0.67 ug/L m

response 15648

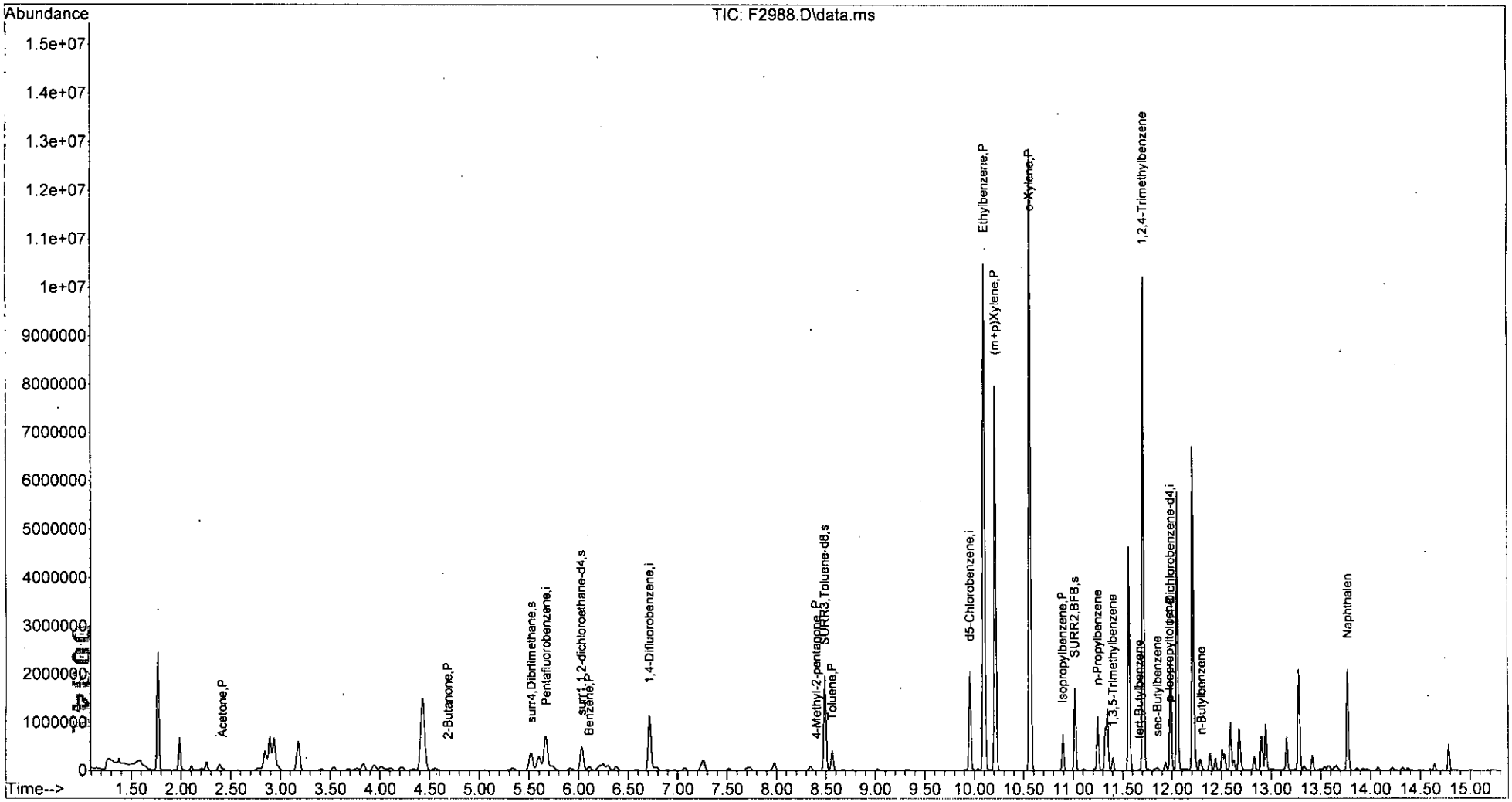
Ion	Exp%	Act%
91.00	100	100
92.00	55.80	27.42#
134.00	25.70	74.24#
0.00	0.00	0.00

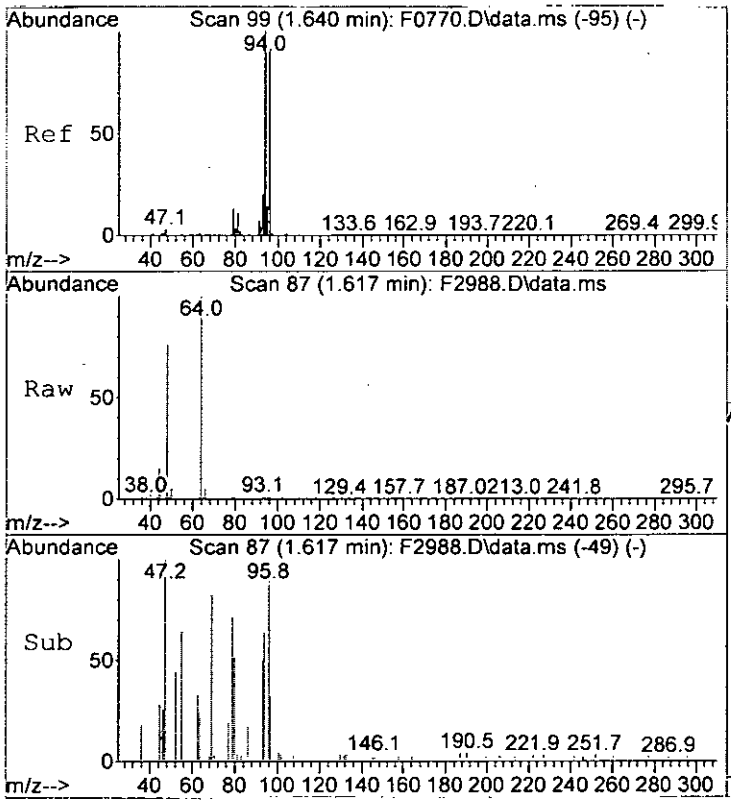
00340

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 14 15:30:24 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

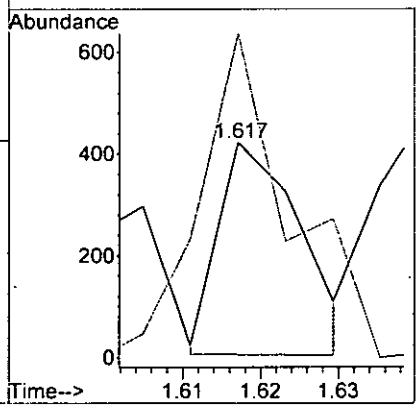


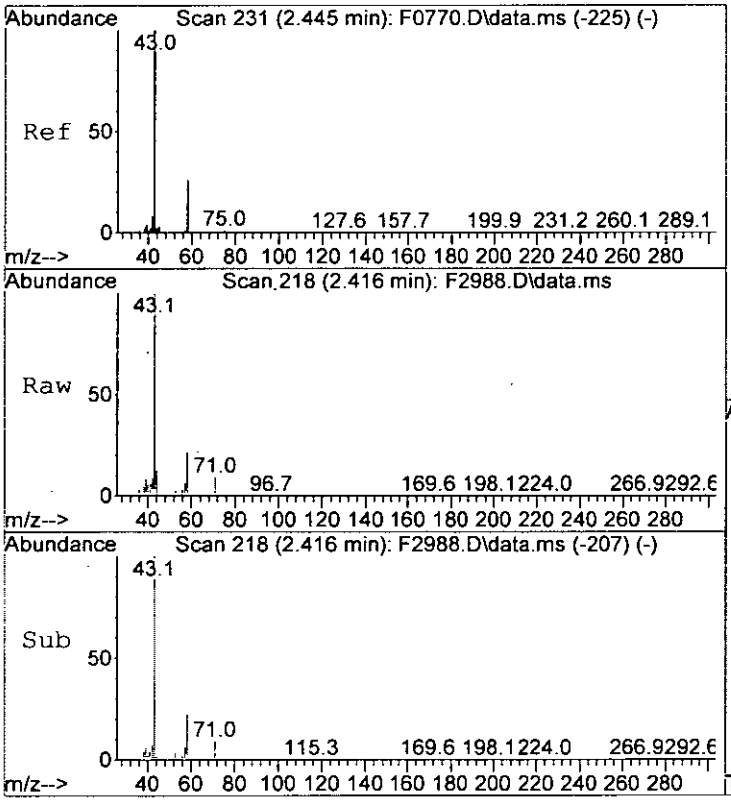


#5
Bromomethane
Concen: Below Cal
RT: 1.617 min Scan# 87
Delta R.T. 0.006 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 94 Resp: 309

Ion	Ratio	Lower	Upper
94	100		
96	150.7	73.0	113.0#

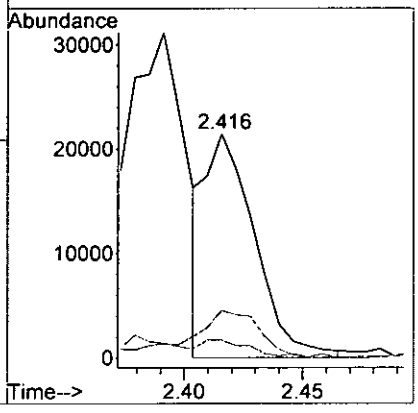




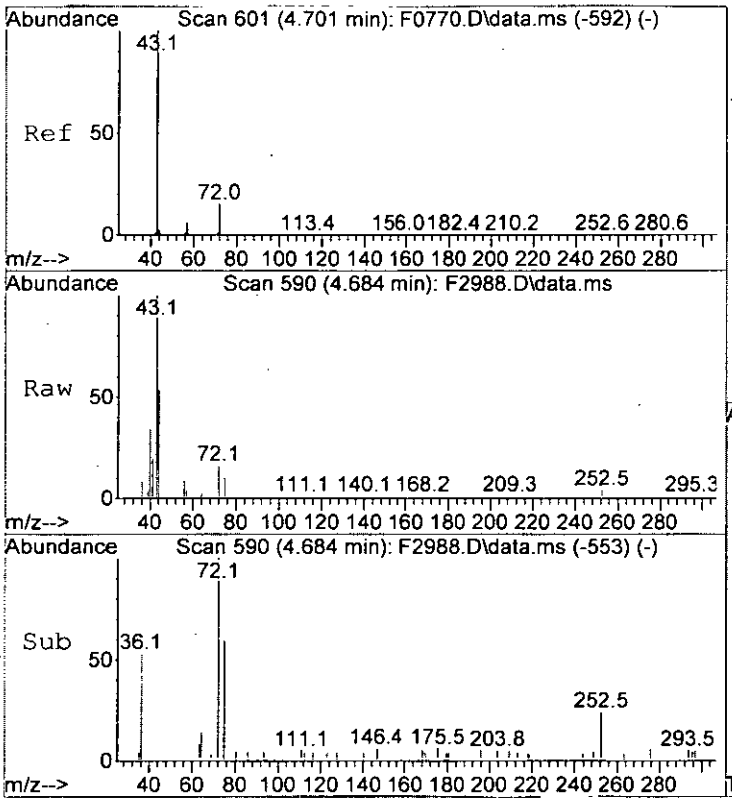
#15
Acetone
Concen: 5.79 ug/L m
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 43 Resp: 31327

Ion	Ratio	Lower	Upper
43	100		
58	21.2	6.1	46.1
42	7.8	0.0	28.3



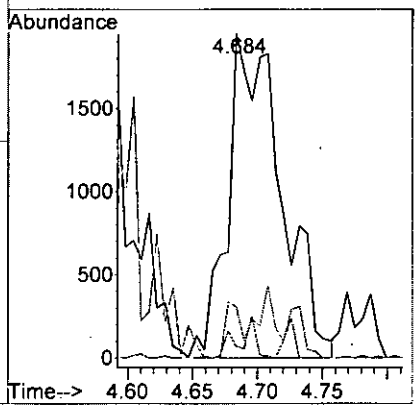
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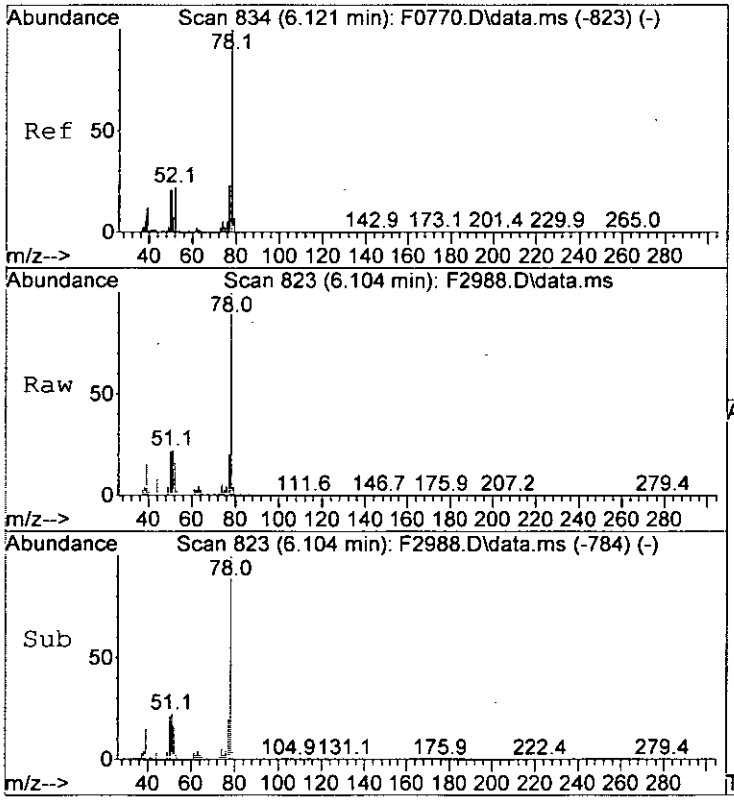


#34
2-Butanone
Concen: 0.82 ug/L
RT: 4.684 min Scan# 590
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 43 Resp: 5584

Ion	Ratio	Lower	Upper
43	100		
57	3.6	0.0	25.7
72	15.8	0.0	35.3

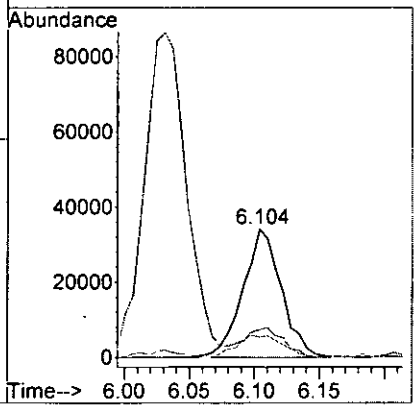




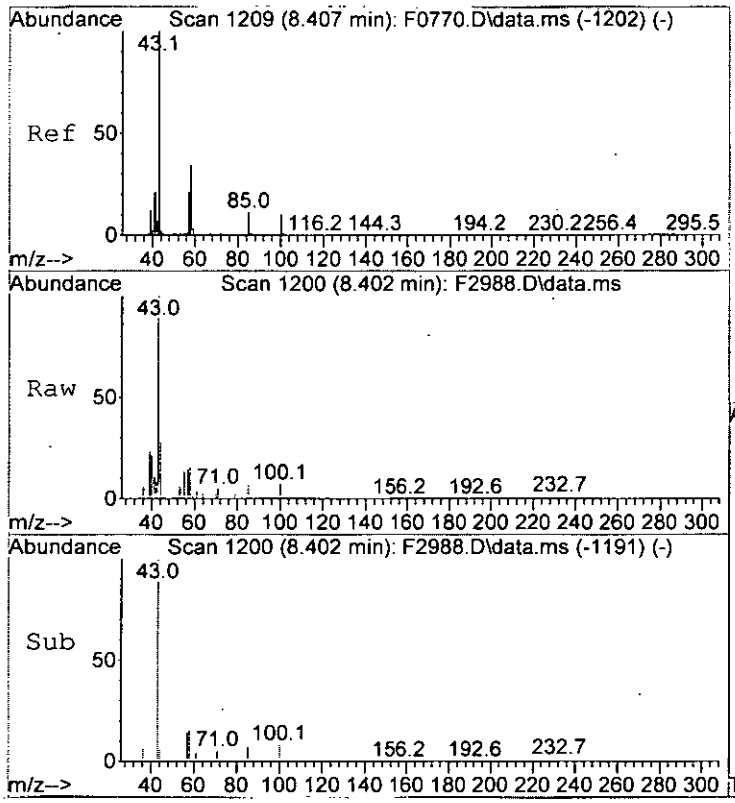
#47
Benzene
Concen: 2.81 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.006 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 78 Resp: 69904

Ion	Ratio	Lower	Upper
78	100		
51	21.6	0.0	27.4
52	15.7	2.5	42.5



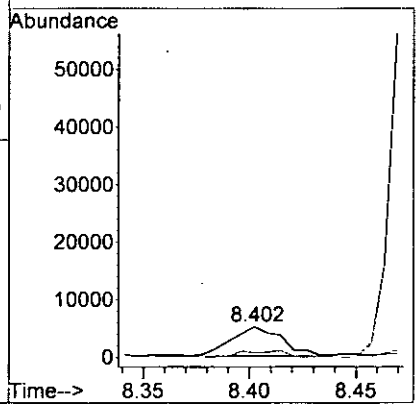
00343

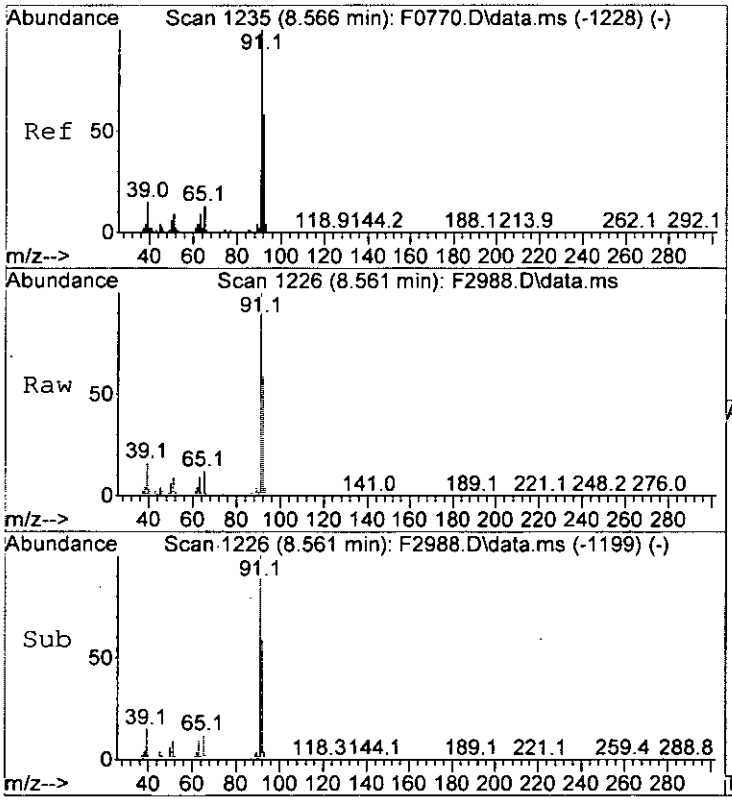


#63
4-Methyl-2-pentanone
Concen: 0.64 ug/L
RT: 8.402 min Scan# 1200
Delta R.T. -0.006 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 43 Resp: 8357

Ion	Ratio	Lower	Upper
43	100		
58	14.9	13.5	53.5
100	7.5	0.0	29.9

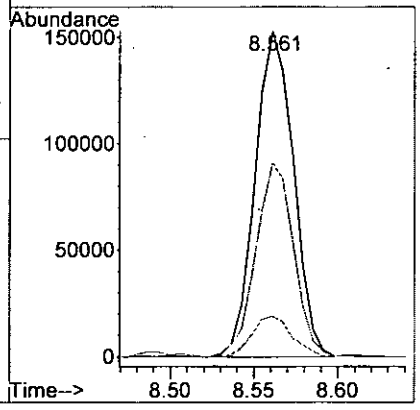




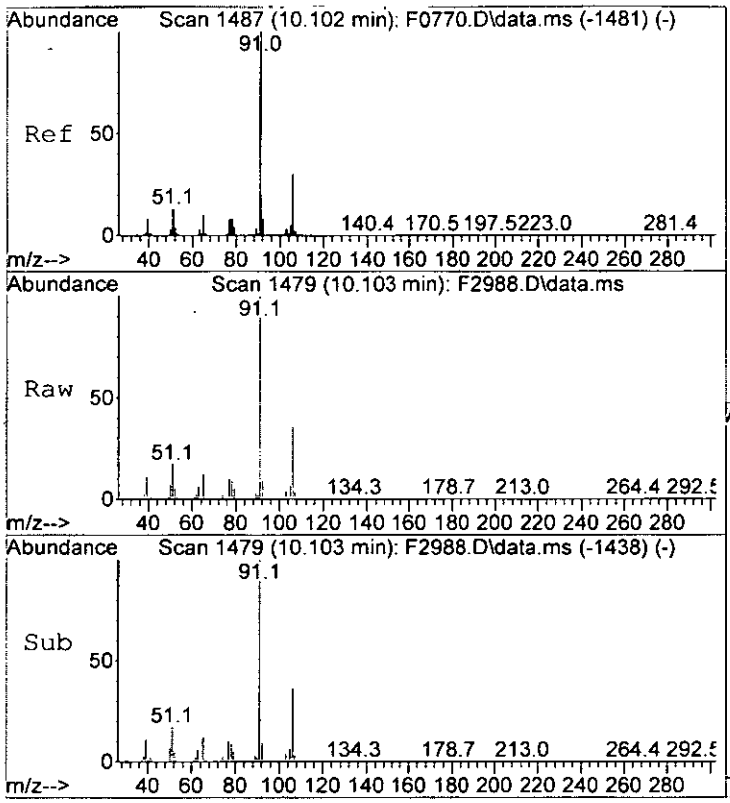
#65
Toluene
Concen: 9.36 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 91 Resp: 242149

Ion	Ratio	Lower	Upper
91	100		
92	59.5	38.0	78.0
65	12.4	0.0	33.0



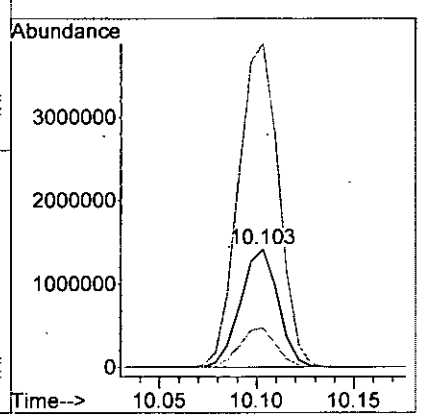
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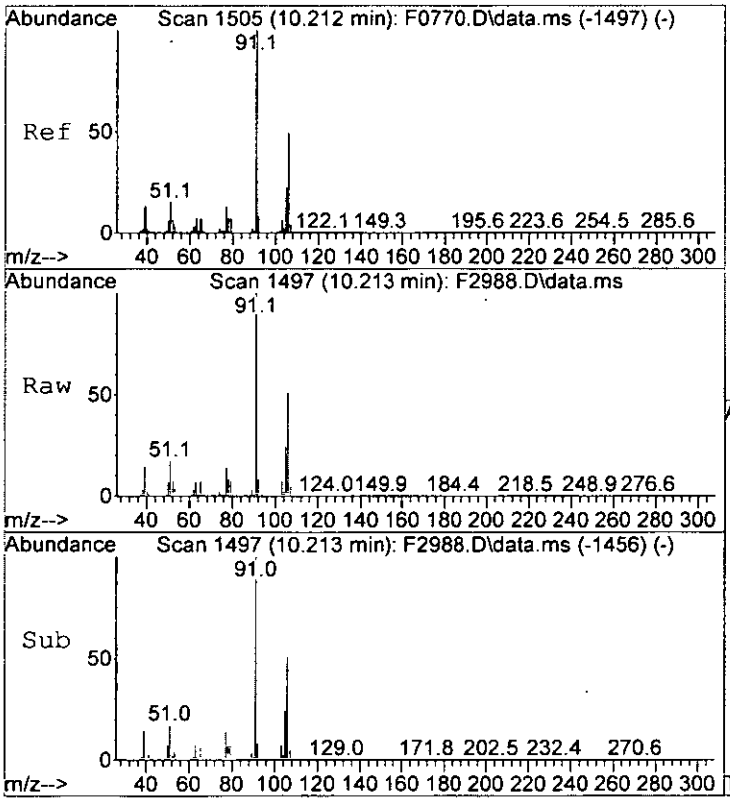


#81
Ethylbenzene
Concen: 203.95 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:106 Resp: 1889783

Ion	Ratio	Lower	Upper
106	100		
91	275.0	311.8	351.8#
65	32.8	12.0	52.0

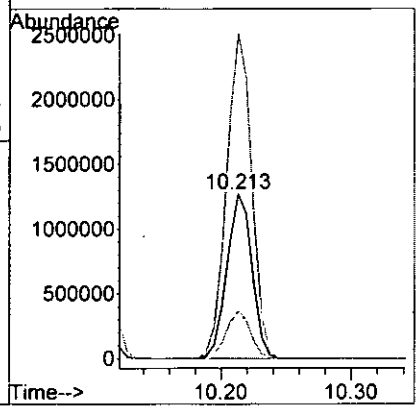




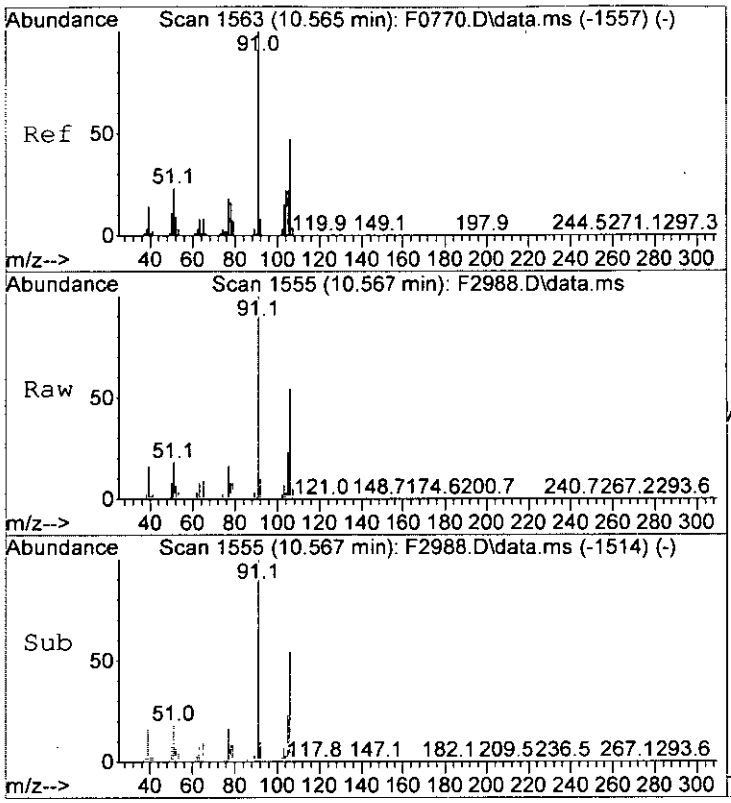
#82
(m+p)Xylene
Concen: 154.96 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:106 Resp: 1689272

Ion	Ratio	Lower	Upper
106	100		
91	197.5	183.1	223.1
77	28.4	6.9	46.9



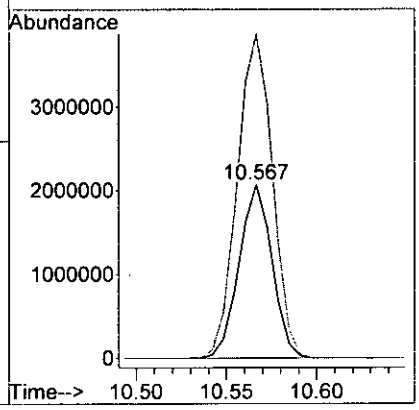
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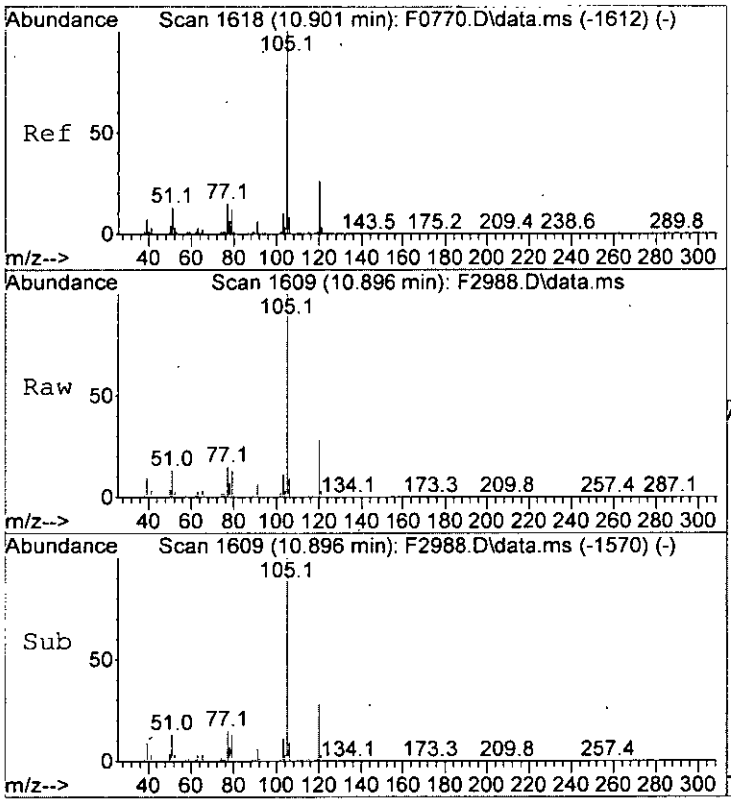


#83
o-Xylene
Concen: 231.57 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:106 Resp: 2629025

Ion	Ratio	Lower	Upper
106	100		
91	186.7	192.0	232.0#

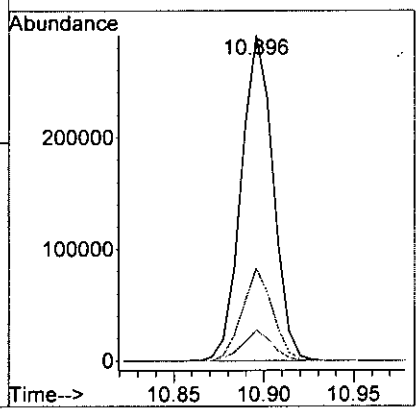




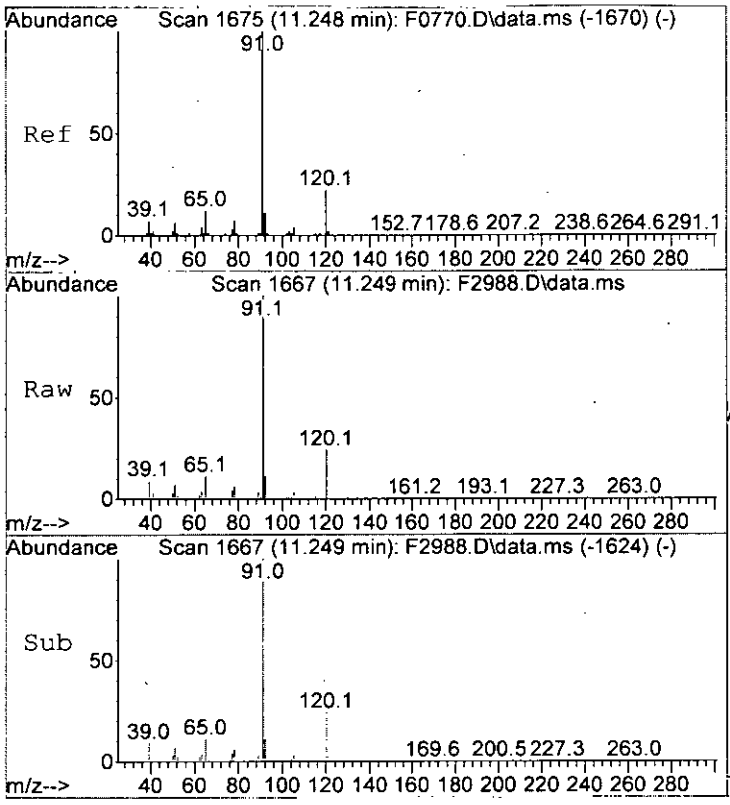
#87
Isopropylbenzene
Concen: 12.88 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:105 Resp: 359838

Ion	Ratio	Lower	Upper
105	100		
120	28.3	5.8	45.8
106	9.5	0.0	28.3



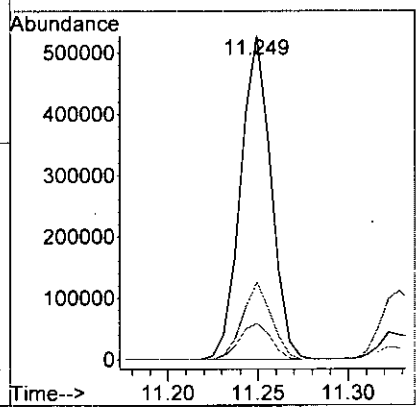
00346

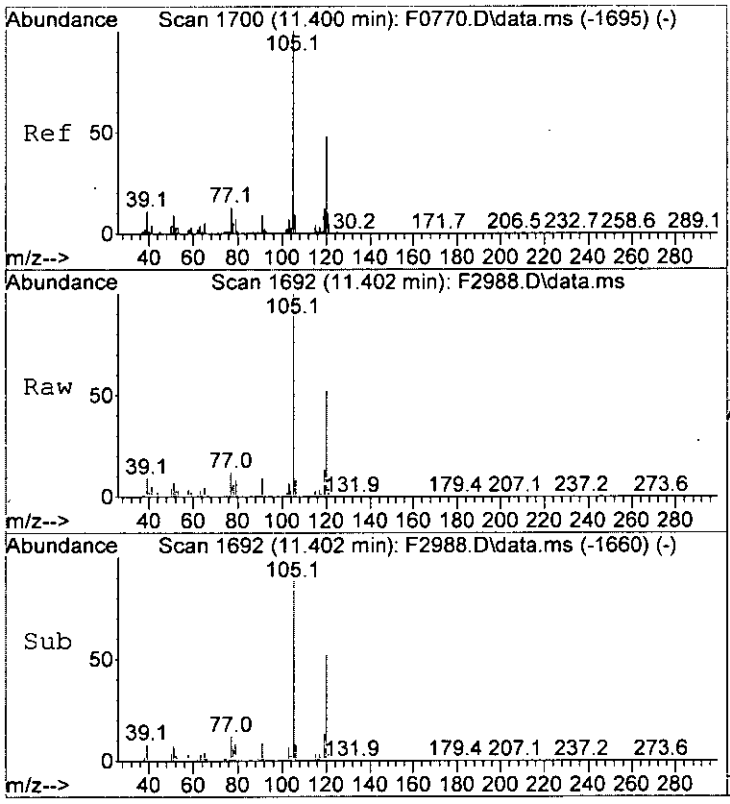


#94
n-Propylbenzene
Concen: 19.27 ug/L
RT: 11.249 min Scan# 1667
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 91 Resp: 617376

Ion	Ratio	Lower	Upper
91	100		
120	23.7	2.1	42.1
65	11.1	0.0	31.7

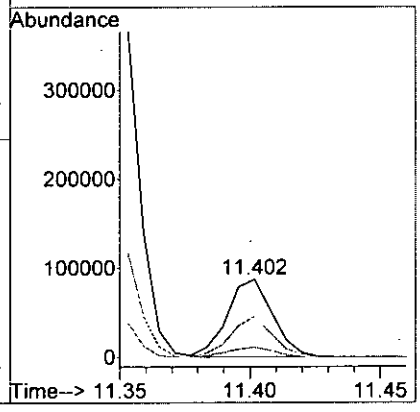


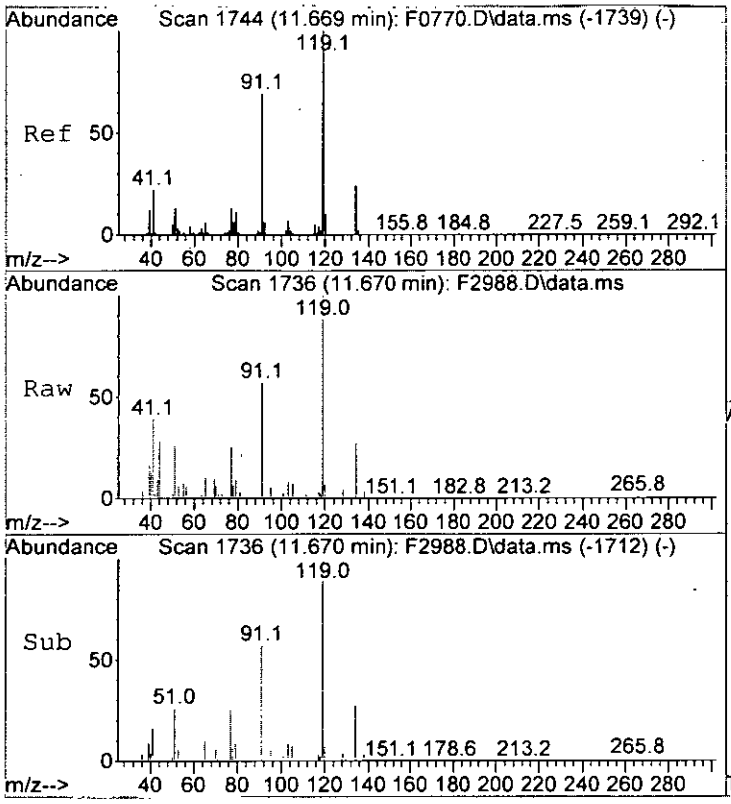


#98
1,3,5-Trimethylbenzene
Concen: 4.57 ug/L
RT: 11.402 min Scan# 1692
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:105 Resp: 103911

Ion	Ratio	Lower	Upper
105	100		
120	52.2	27.9	67.9
77	12.2	0.0	32.8

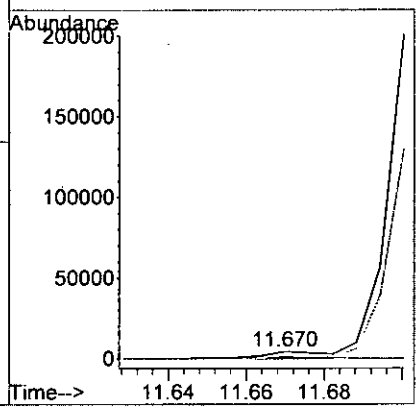


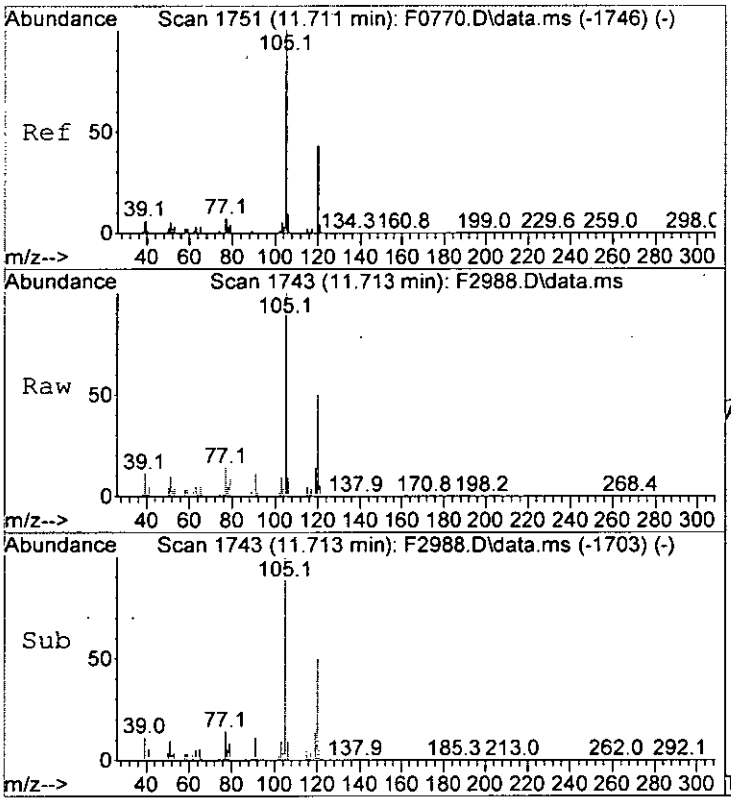


#99
tert-Butylbenzene
Concen: 0.25 ug/L
RT: 11.670 min Scan# 1736
Delta R.T. -0.006 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:119 Resp: 4780

Ion	Ratio	Lower	Upper
119	100		
134	27.2	4.4	44.4
103	7.6	0.0	26.7

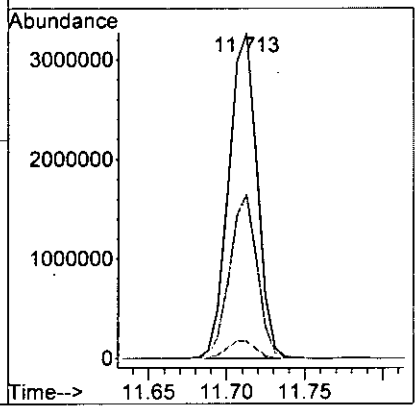




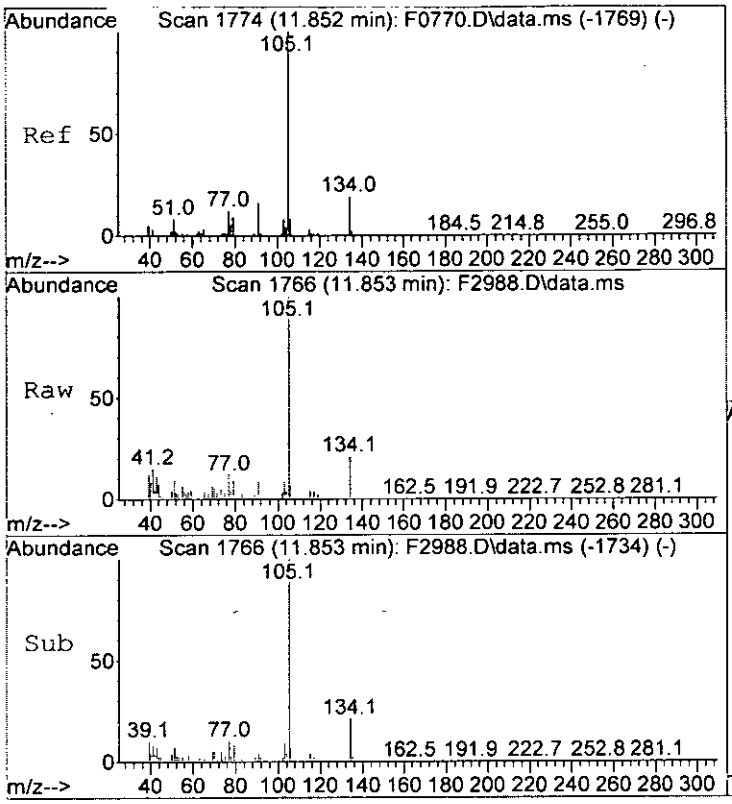
#100
1,2,4-Trimethylbenzene
Concen: 177.49 ug/L
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:105 Resp: 4111250

Ion	Ratio	Lower	Upper
105	100		
120	50.4	23.4	63.4
65	5.2	0.0	22.7



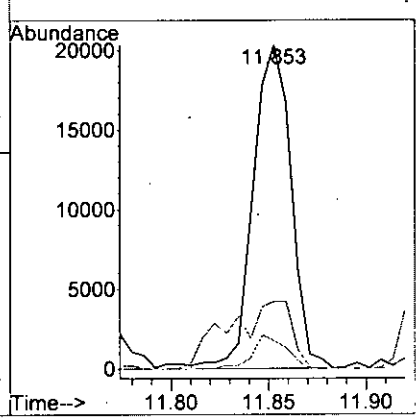
00348

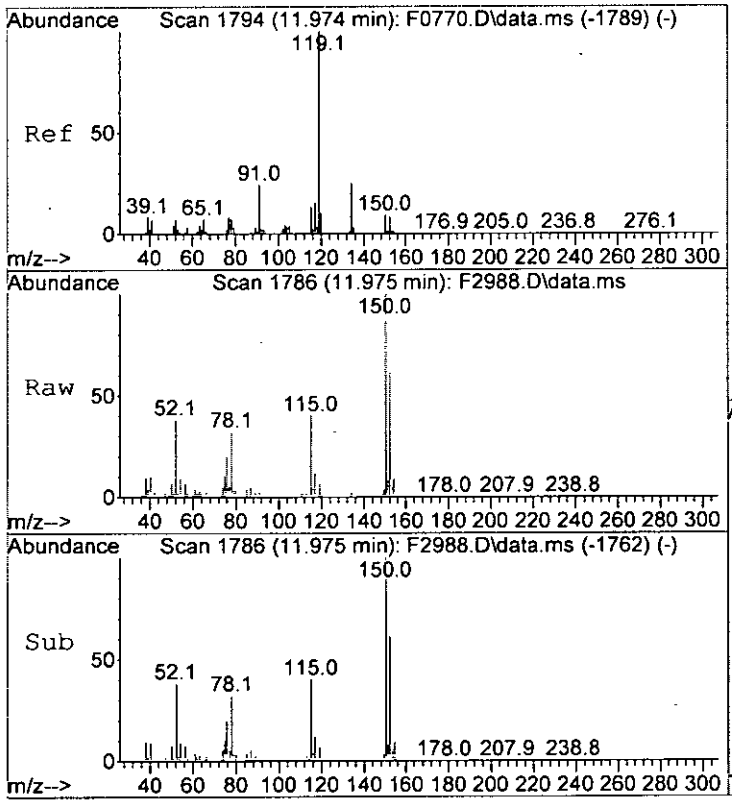


#102
sec-Butylbenzene
Concen: 0.98 ug/L
RT: 11.853 min Scan# 1766
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:105 Resp: 27428

Ion	Ratio	Lower	Upper
105	100		
134	20.8	0.0	39.0
103	8.5	0.0	28.1

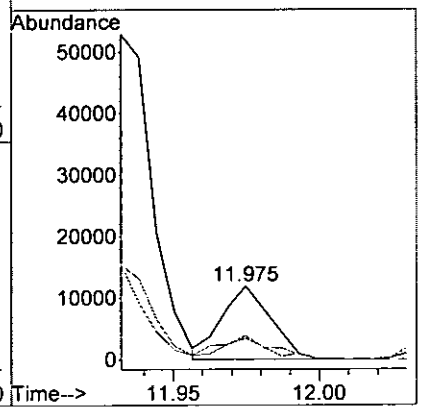




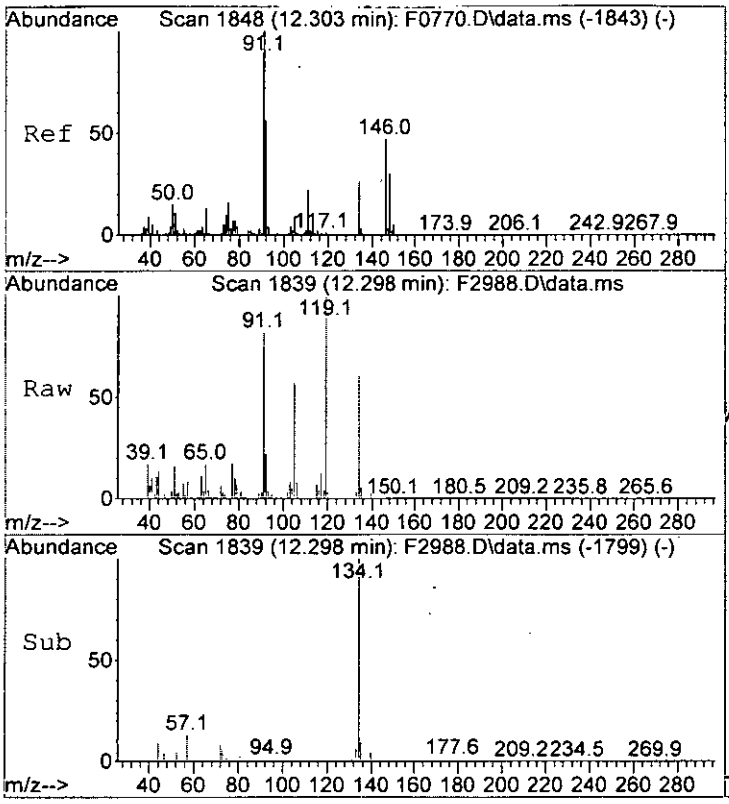
#103
p-Isopropyltoluene
Concen: 0.57 ug/L
RT: 11.975 min Scan# 1786
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:119 Resp: 13620

Ion	Ratio	Lower	Upper
119	100		
134	29.5	5.4	45.4
91	32.8	3.5	43.5



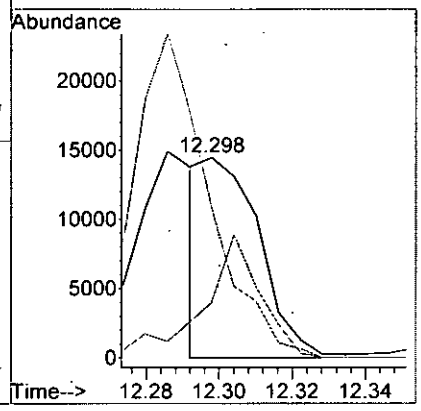
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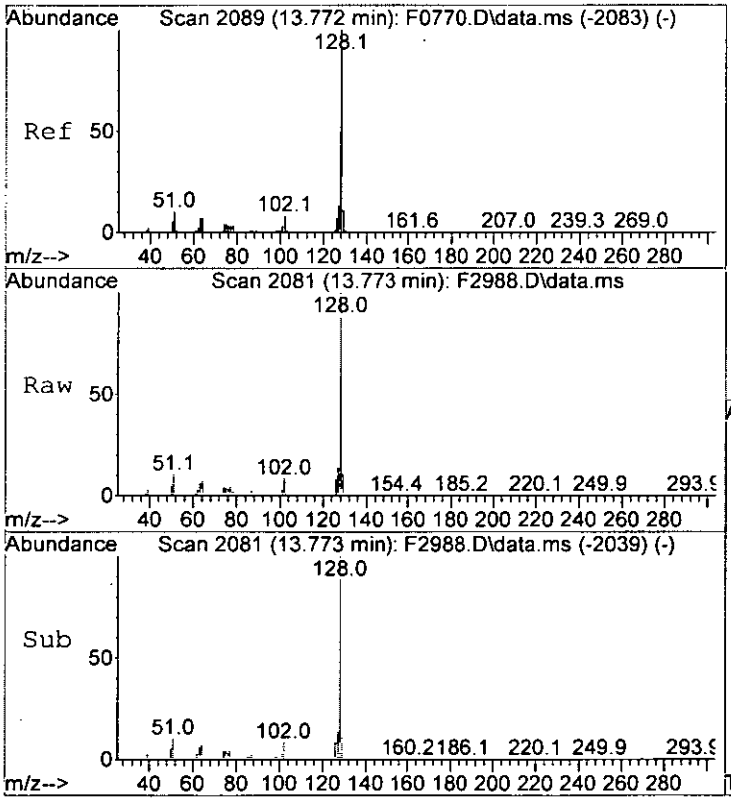


#108
n-Butylbenzene
Concen: 0.67 ug/L m
RT: 12.298 min Scan# 1839
Delta R.T. -0.006 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion: 91 Resp: 15648

Ion	Ratio	Lower	Upper
91	100		
92	27.4	35.8	75.8#
134	74.2	5.7	45.7#

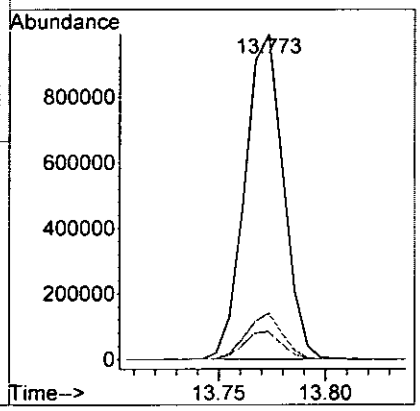




#116
Naphthalen
Concen: 39.28 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. -0.000 min
Lab File: F2988.D
Acq: 9 Oct 2015 7:04 pm

Tgt Ion:128 Resp: 1230874

Ion	Ratio	Lower	Upper
128	100		
127	14.1	0.0	32.8
102	8.5	0.0	28.1



00350

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2988.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.270	24	30	32	rBV	217256	445933	2.68%	0.346%
2	1.770	106	112	120	rBV	2432776	3154146	18.93%	2.445%
3	1.983	141	147	154	rBV	667503	875802	5.26%	0.679%
4	2.257	187	192	201	rVB	173890	267879	1.61%	0.208%
5	2.391	206	214	227	rVB4	120828	292430	1.75%	0.227%
6	2.842	282	288	292	rVV2	397924	900298	5.40%	0.698%
7	2.891	292	296	299	rVV	706386	1301791	7.81%	1.009%
8	2.934	299	303	321	rVB	679946	1491179	8.95%	1.156%
9	3.178	332	343	355	rBV	609257	1322574	7.94%	1.025%
10	3.830	444	450	459	rVB2	135061	311766	1.87%	0.242%
11	3.946	459	469	474	rBV2	104712	272887	1.64%	0.212%
12	4.214	504	513	523	rVB2	66646	183952	1.10%	0.143%
13	4.428	538	548	562	rVB	1492451	4270902	25.63%	3.310%
14	5.519	715	727	733	rBV	372173	973667	5.84%	0.755%
15	5.598	733	740	745	rVV3	236803	596843	3.58%	0.463%
16	5.665	745	751	760	rVB2	622953	1518400	9.11%	1.177%
17	6.031	802	811	818	rBV	498734	1103619	6.62%	0.855%
18	6.208	831	840	842	rBV3	96837	185816	1.11%	0.144%
19	6.293	851	854	861	rVB3	101480	200654	1.20%	0.156%
20	6.378	861	868	875	rVB4	78670	188342	1.13%	0.146%
21	6.714	915	923	931	rBV	1157402	2330672	13.98%	1.807%
22	7.256	1002	1012	1022	rBV3	211882	575730	3.45%	0.446%
23	7.976	1117	1130	1136	rBV	158896	307248	1.84%	0.238%
24	8.488	1208	1214	1221	rBV	1953937	3097502	18.59%	2.401%
25	8.561	1221	1226	1234	rVB	399410	644710	3.87%	0.500%
26	9.957	1450	1455	1464	rVB	2041259	2729562	16.38%	2.116%
27	10.103	1473	1479	1485	rBV	10483159	14405332	86.44%	11.166%
28	10.213	1489	1497	1506	rVB	7980145	10485980	62.92%	8.128%
29	10.567	1549	1555	1567	rVB	12868271	16665961	100.00%	12.918%
30	10.896	1602	1609	1615	rBV	751034	934349	5.61%	0.724%
31	11.018	1624	1629	1635	rBV	1693972	2079489	12.48%	1.612%
32	11.249	1662	1667	1674	rVB	1121376	1324053	7.94%	1.026%
33	11.329	1674	1680	1681	rBV	908534	1176239	7.06%	0.912%
34	11.347	1681	1683	1688	rVV	1284543	1378138	8.27%	1.068%
35	11.402	1688	1692	1696	rVB	252062	312489	1.88%	0.242%

FD 10/14/15

00351

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	11.566	1713	1719	1729	rVB	4636725	5602518	33.62%	4.343%
37	11.713	1737	1743	1749	rBV	10220333	12683013	76.10%	9.831%
38	11.932	1773	1779	1783	rBV	175840	215124	1.29%	0.167%
39	11.987	1783	1788	1794	rVB	2347550	2848352	17.09%	2.208%
40	12.054	1794	1799	1804	rBV	5766310	6860623	41.17%	5.318%
41	12.213	1817	1825	1833	rBV	6717382	8255029	49.53%	6.399%
42	12.286	1833	1837	1843	rVB3	229532	339031	2.03%	0.263%
43	12.383	1848	1853	1858	rBV2	358517	474288	2.85%	0.368%
44	12.438	1858	1862	1867	rVB	249484	306940	1.84%	0.238%
45	12.505	1867	1873	1875	rBV	435580	536461	3.22%	0.416%
46	12.530	1875	1877	1882	rVB	325749	364173	2.19%	0.282%
47	12.591	1882	1887	1890	rBV	987144	1155194	6.93%	0.895%
48	12.621	1890	1892	1897	rVV	207528	238836	1.43%	0.185%
49	12.676	1897	1901	1909	rVB2	860349	1218541	7.31%	0.945%
50	12.828	1921	1926	1931	rBV	284655	367670	2.21%	0.285%
51	12.901	1933	1938	1942	rBV	707834	901661	5.41%	0.699%
52	12.944	1942	1945	1951	rVB	948273	1138280	6.83%	0.882%
53	13.158	1976	1980	1990	rVB	693015	809679	4.86%	0.628%
54	13.279	1995	2000	2005	rVB2	2078815	2725980	16.36%	2.113%
55	13.414	2016	2022	2027	rVB	302430	371525	2.23%	0.288%
56	13.773	2073	2081	2091	rVB	2093022	2651220	15.91%	2.055%
57	14.785	2242	2247	2255	rBV	542382	641828	3.85%	0.497%

Sum of corrected areas: 129012300

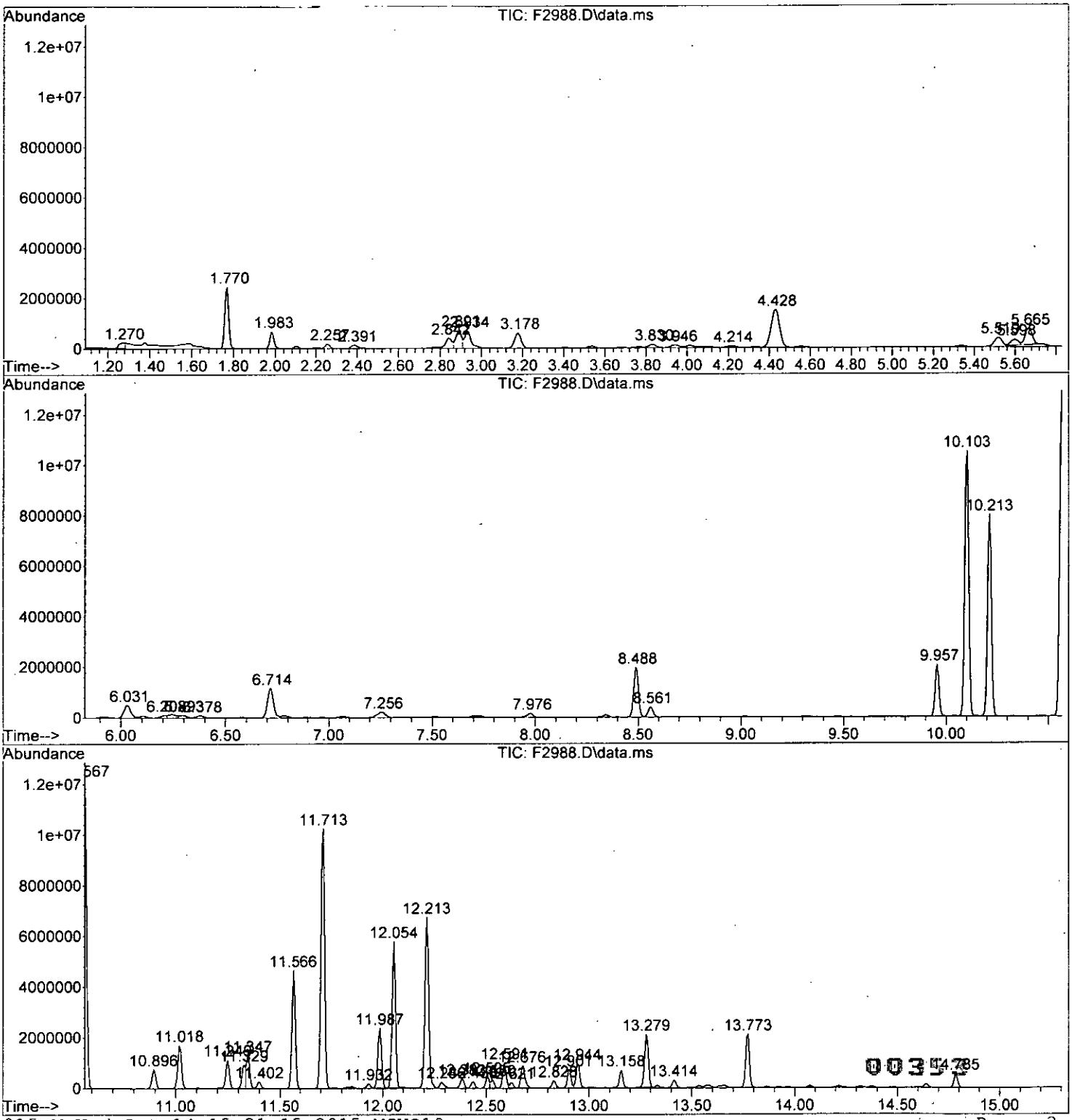
00352

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

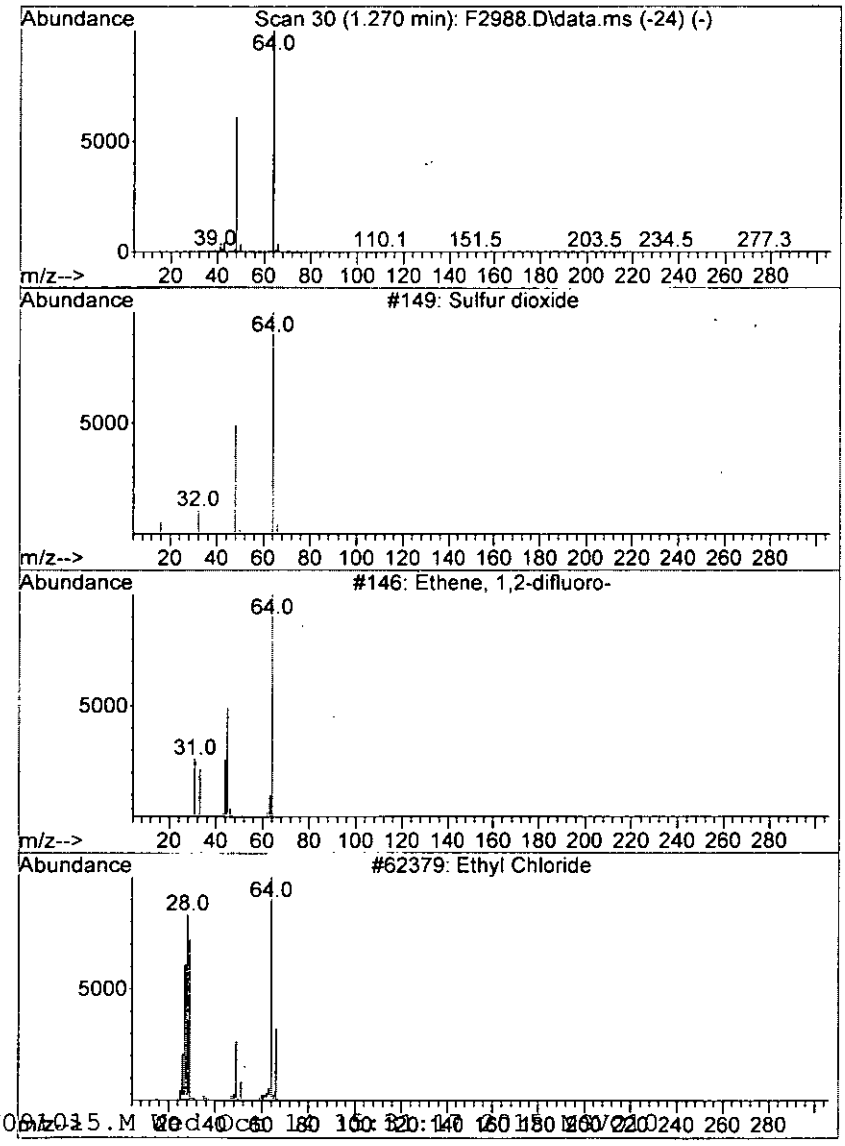
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

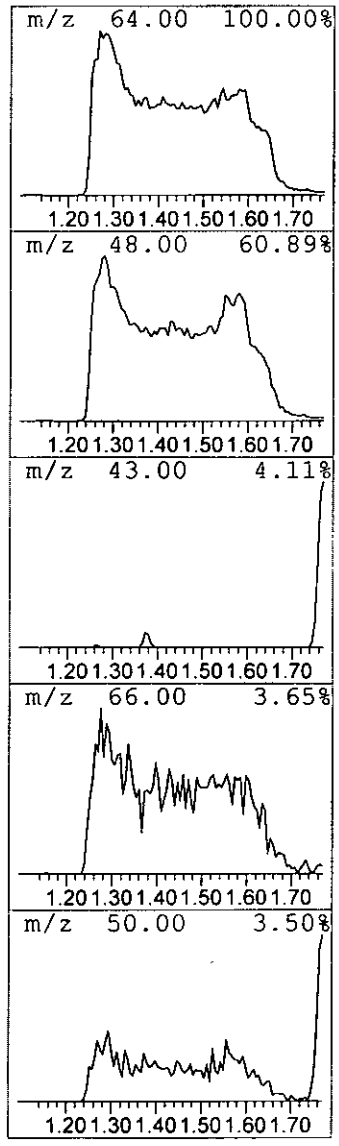
****

Peak Number 1 Sulfur dioxide Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.270	14.68 ug/L	445933	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	4
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
4	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	3





00354

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

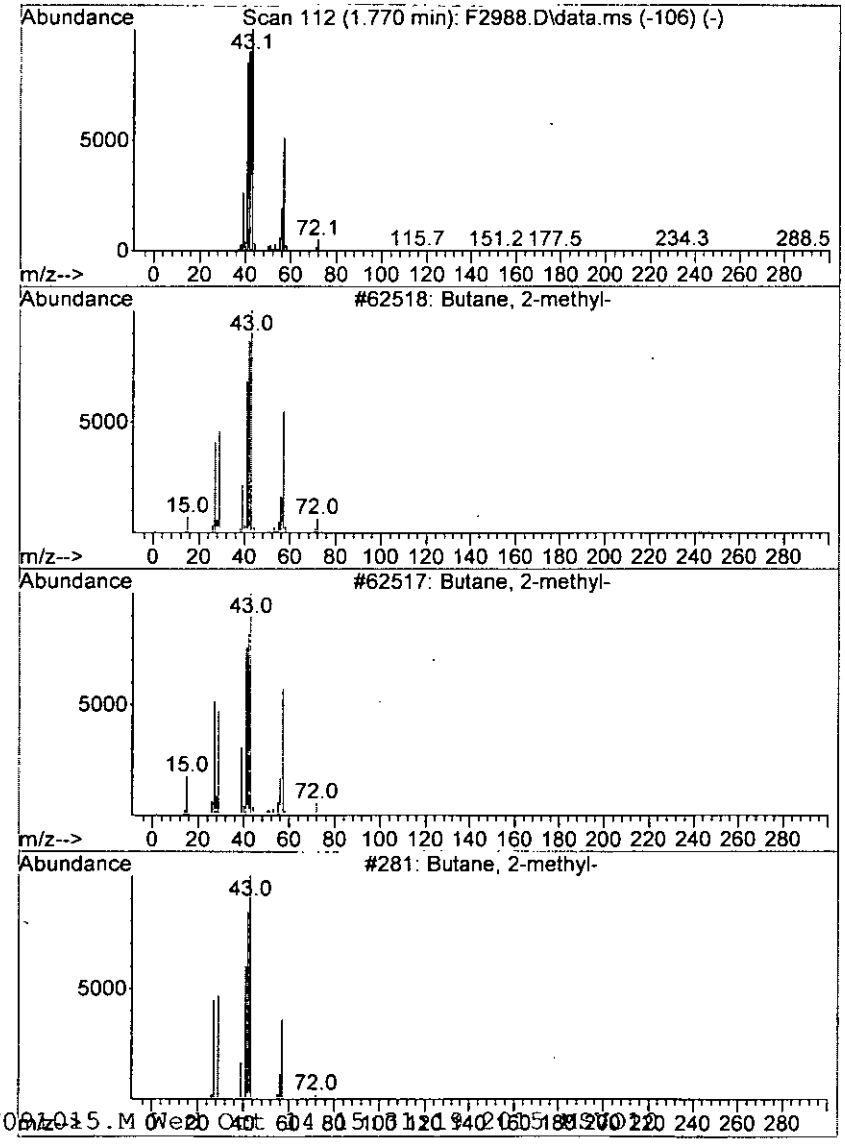
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TIC Integration Parameters: LSCINT.P

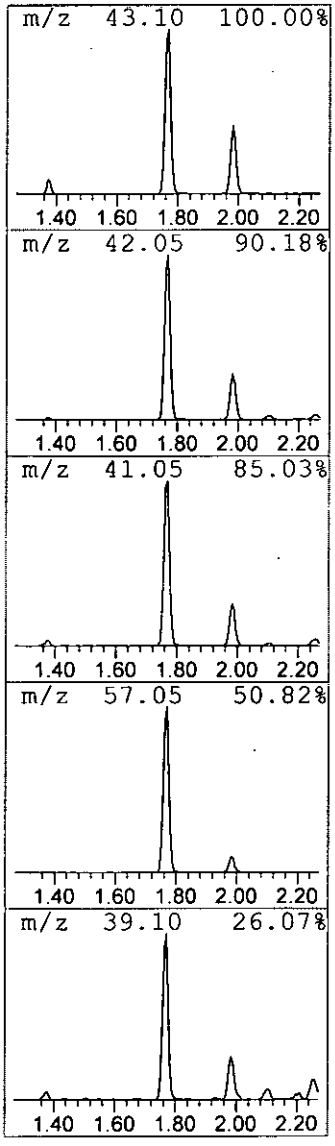
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Peak Number 2 Butane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.770	103.86 ug/L	3154150	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	Butane, 2-methyl-	72	C5H12	000078-78-4	78
4	1-Butene	56	C4H8	000106-98-9	9
5	Propiolactone	72	C3H4O2	000057-57-8	9





00355

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

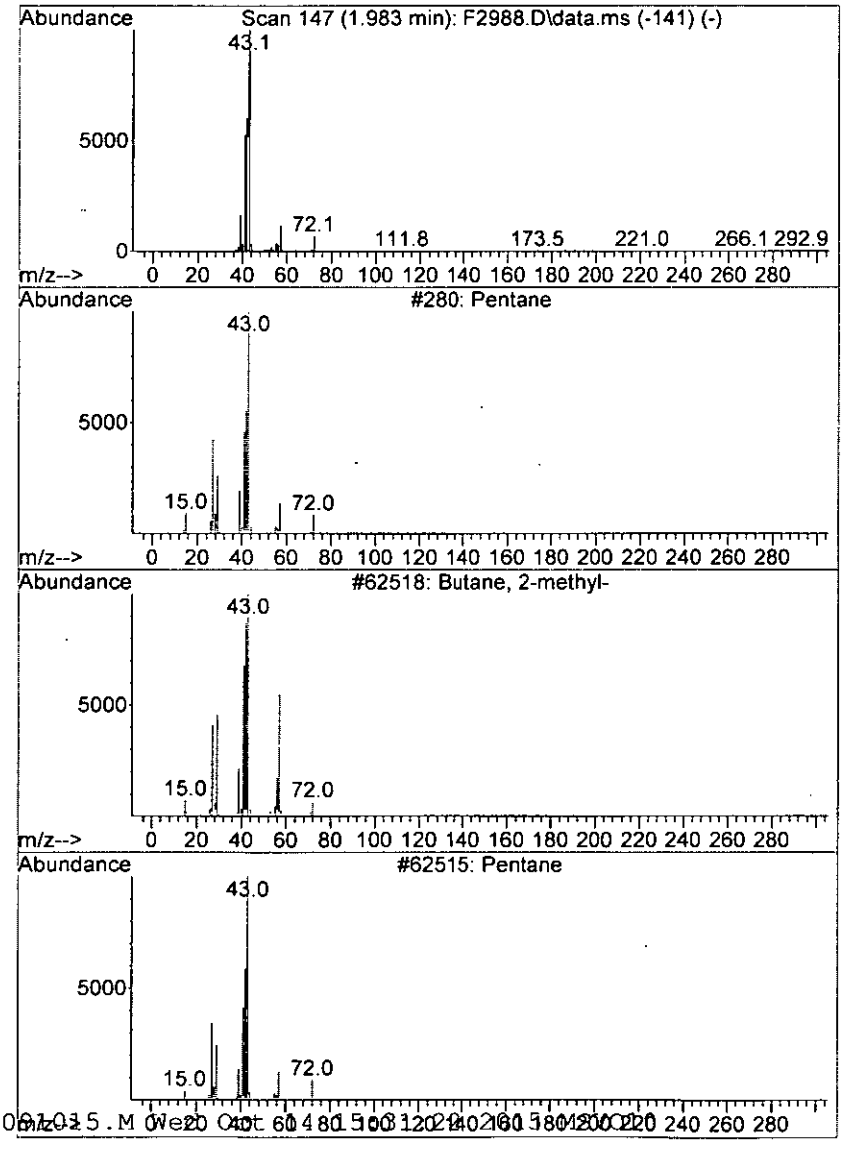
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

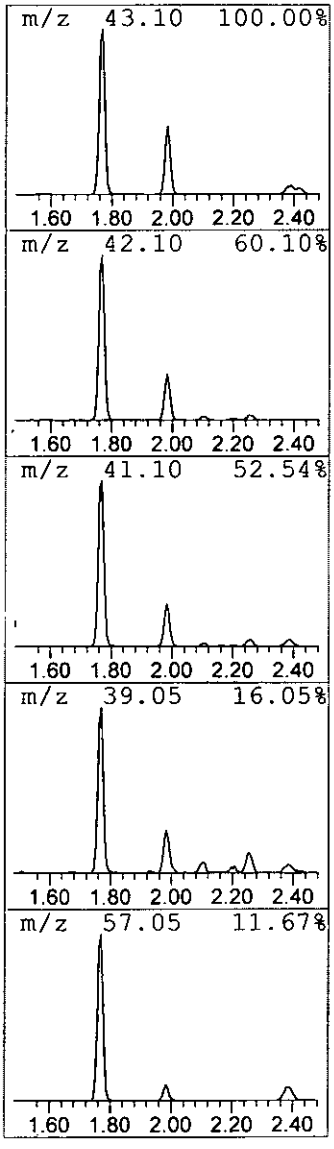
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Peak Number 3 Pentane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.983	28.84 ug/L	875802	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	Pentane	72	C5H12	000109-66-0	78
4	Pentane	72	C5H12	000109-66-0	78
5	Butane, 2-methyl-	72	C5H12	000078-78-4	42





00356

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

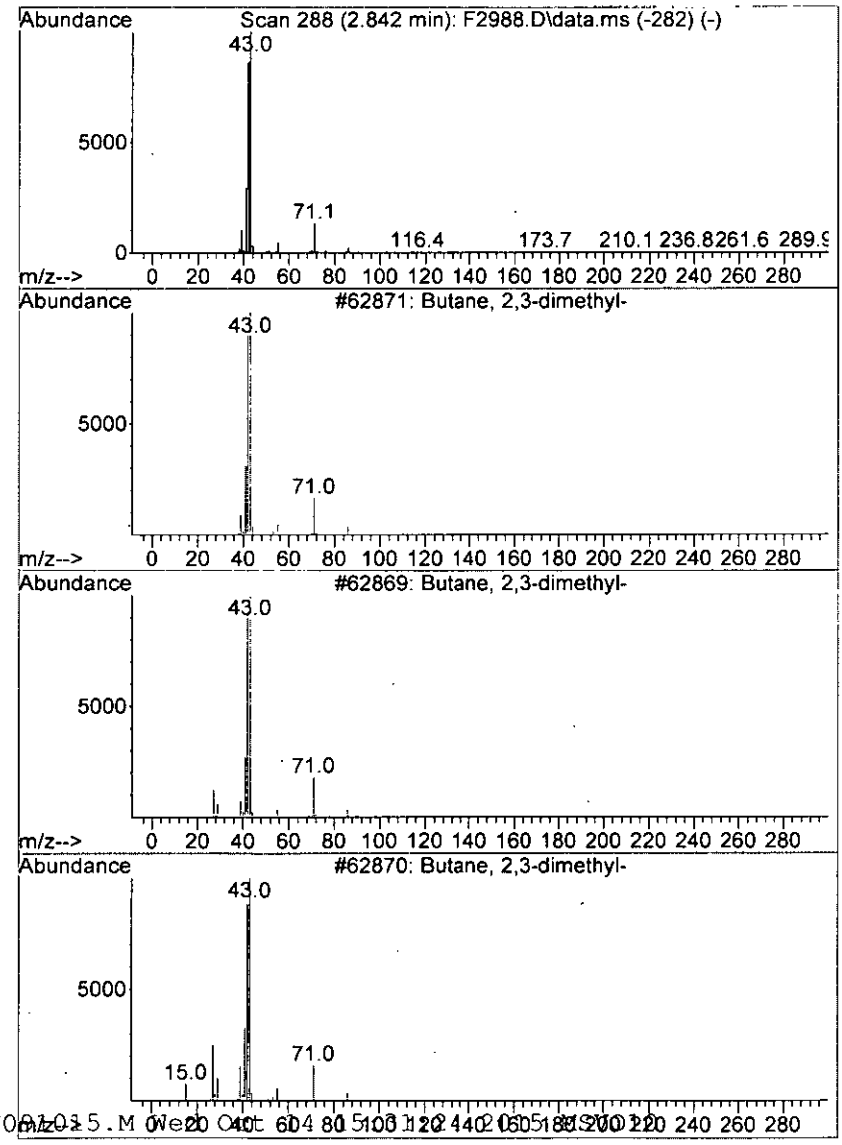
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

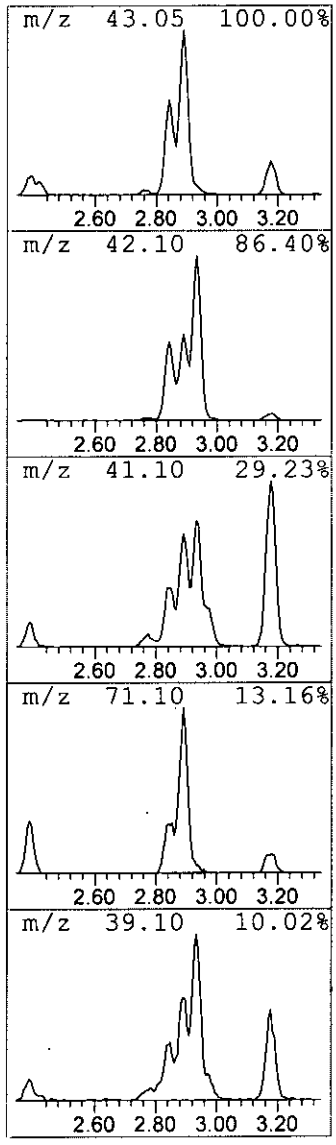
****

Peak Number 4 Butane, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.842	29.65 ug/L	900298	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	43
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	43
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	9
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	9





00357

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

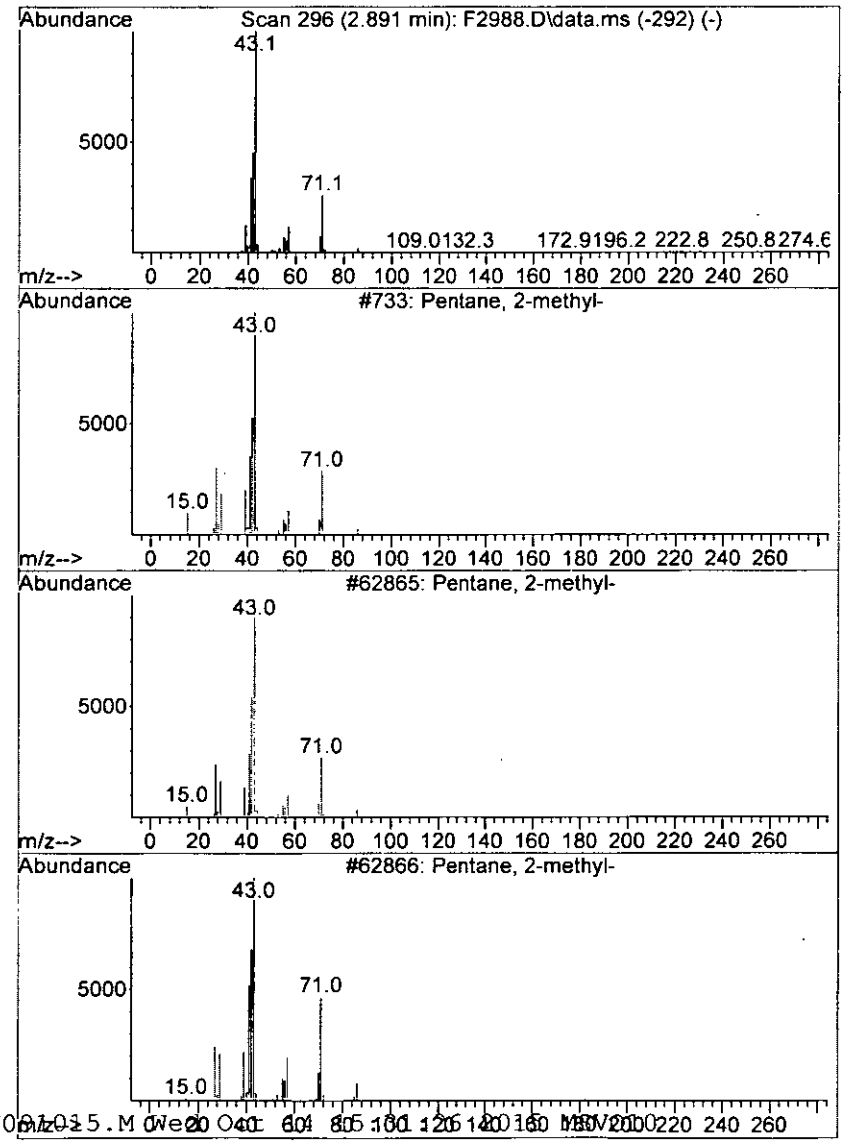
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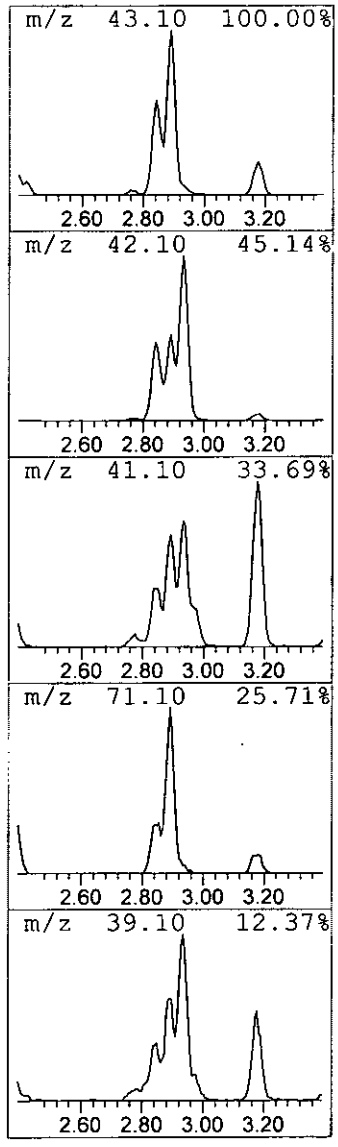
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Peak Number 5 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.891	42.87 ug/L	1301790	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	87
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	64





00358

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

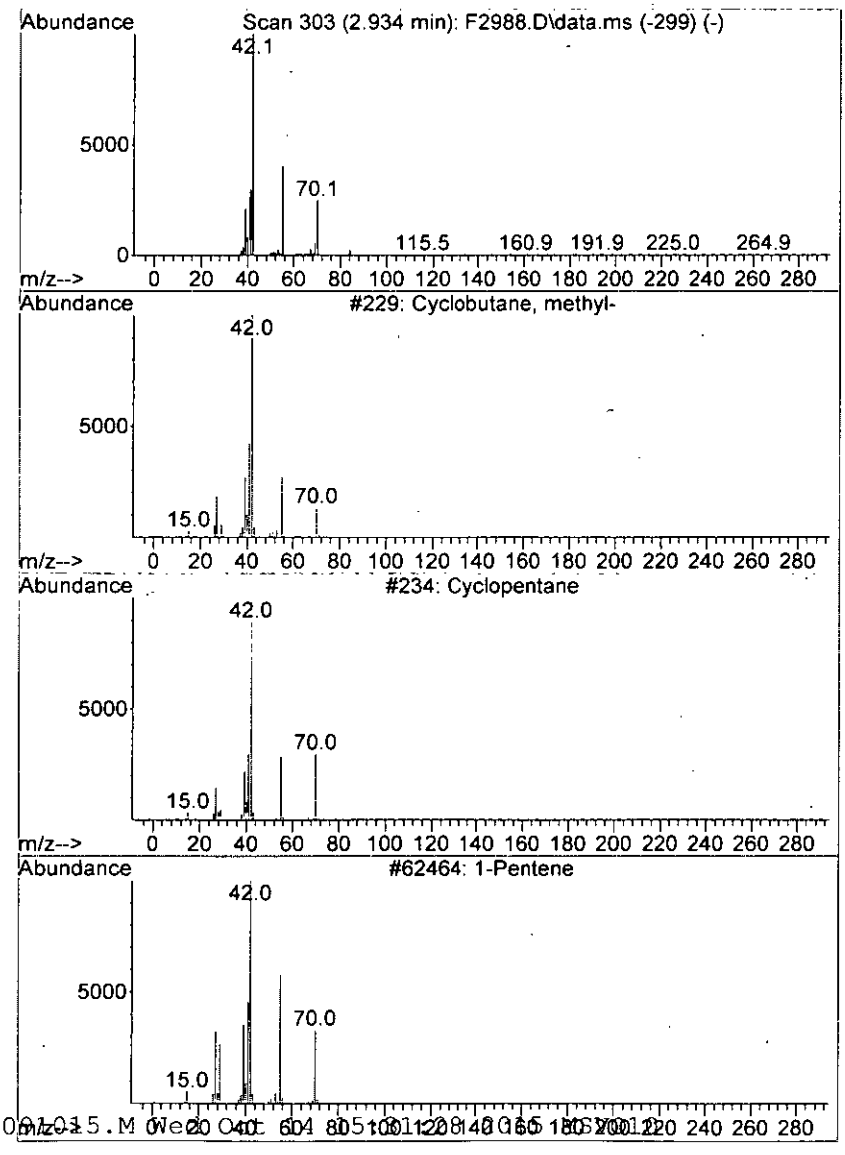
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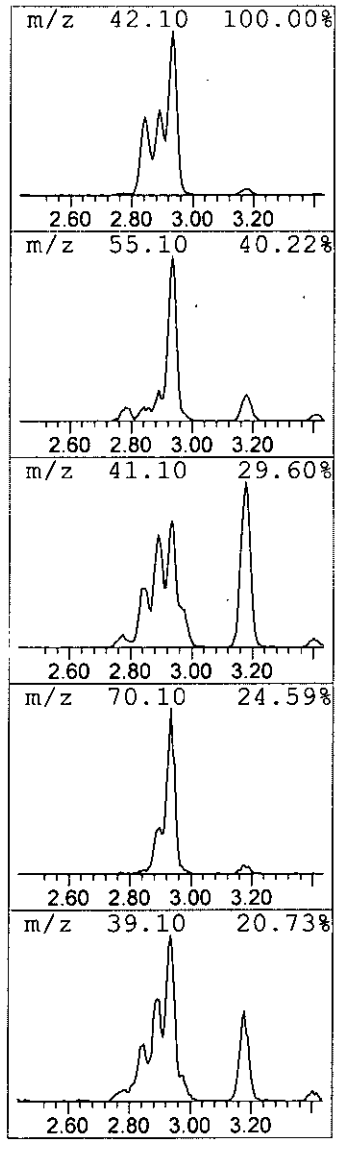
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Peak Number 6 Cyclobutane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.934	49.10 ug/L	1491180	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	Cyclobutane, methyl-	70	C5H10	000598-61-8	72
2	Cyclopentane	70	C5H10	000287-92-3	72
3	1-Pentene	70	C5H10	000109-67-1	9
4	Cyclobutanone	70	C4H6O	001191-95-3	9
5	Cyclobutanone	70	C4H6O	001191-95-3	9





00359

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

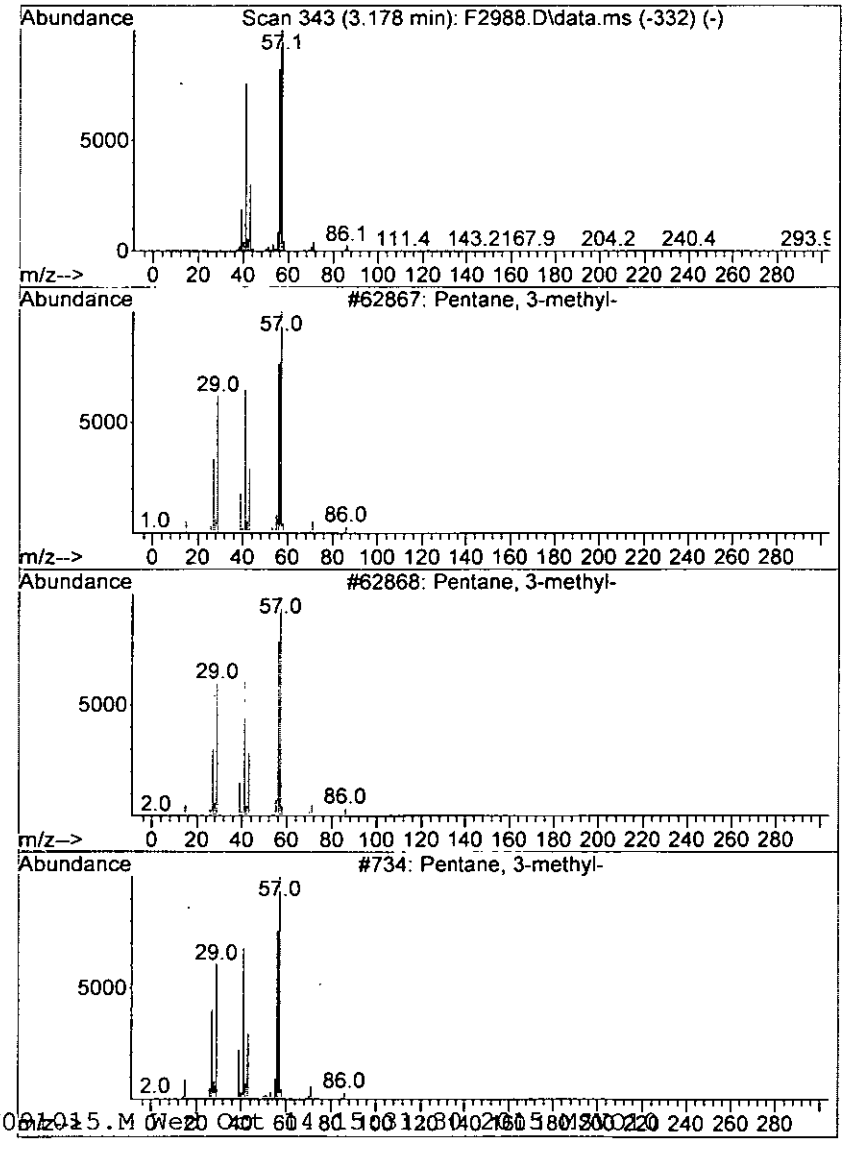
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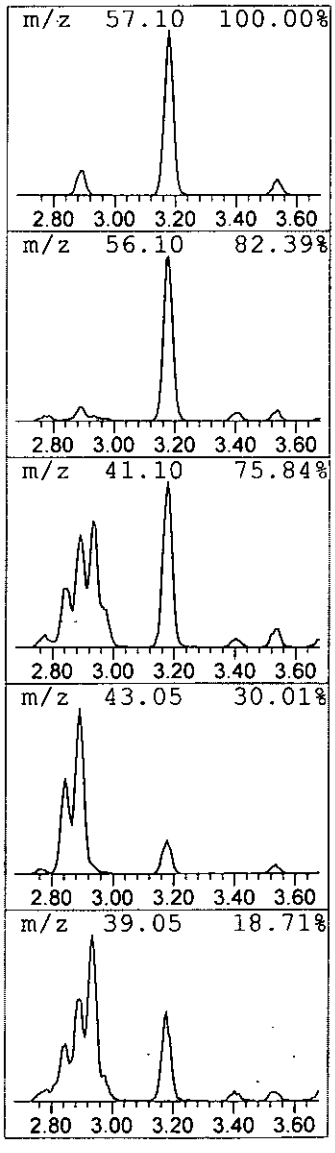
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Peak Number 7 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.178	43.55 ug/L	1322570	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	86
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	50
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	50
4	Oxetane, 3,3-dimethyl-	86	C5H10O	006921-35-3	50
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	40





00360

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

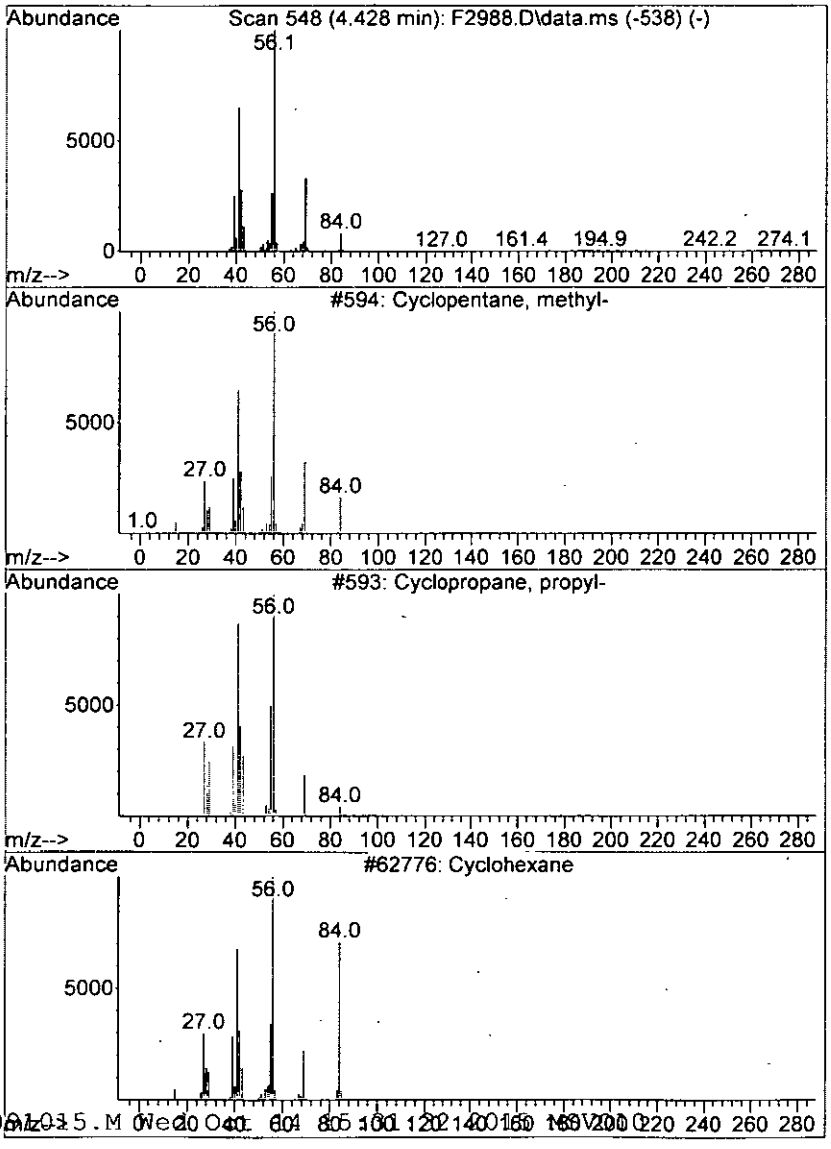
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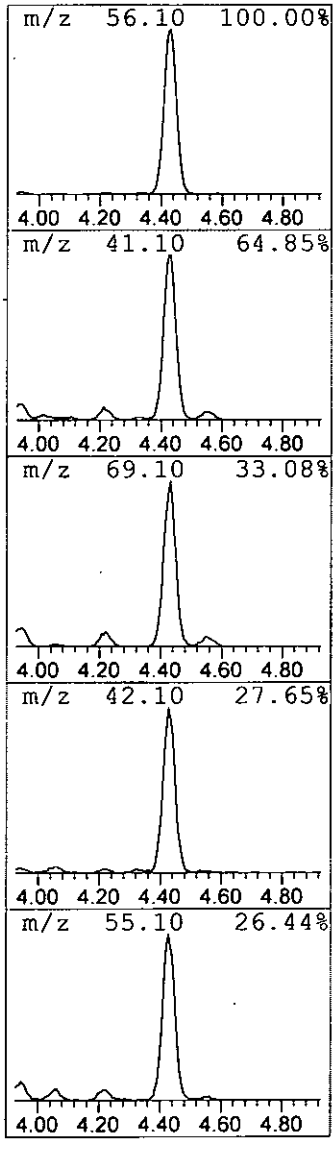
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Peak Number 8 Cyclopentane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.428	140.64 ug/L	4270900	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
2	Cyclopropane, propyl-	84	C6H12	002415-72-7	78
3	Cyclohexane	84	C6H12	000110-82-7	74
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	72





00361

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

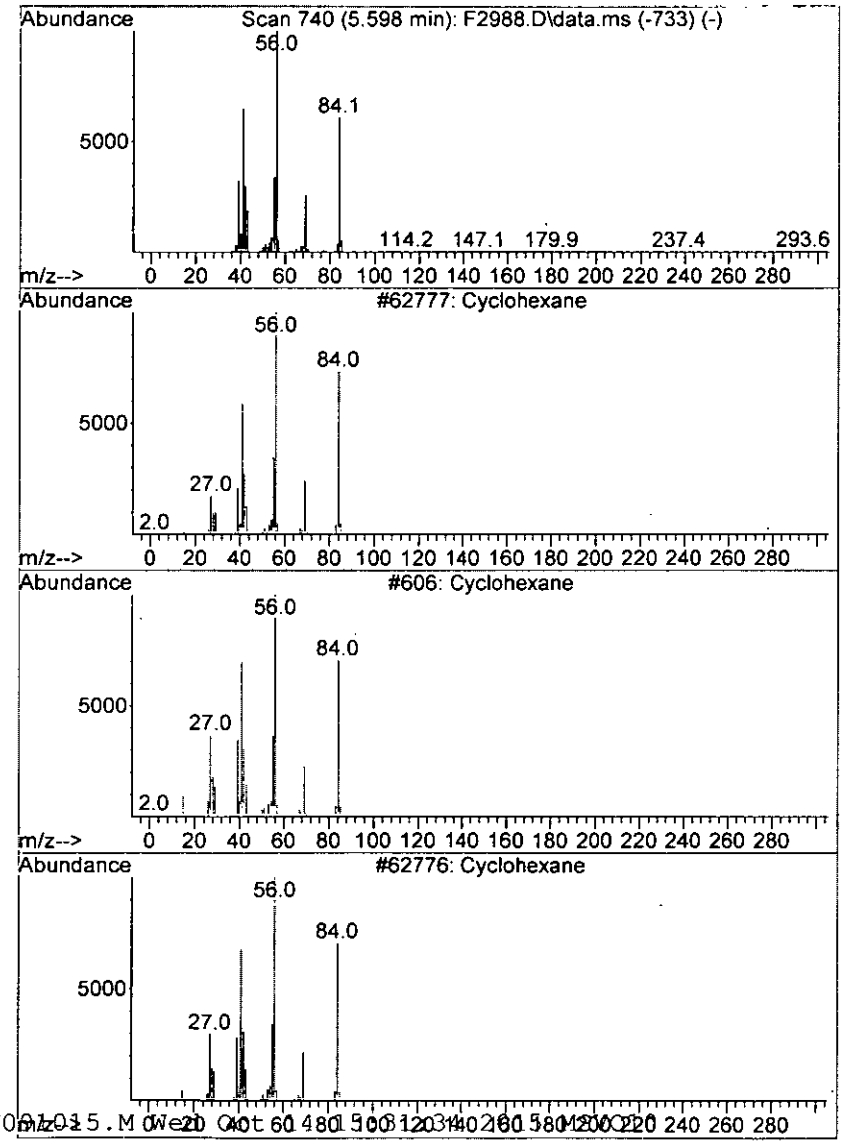
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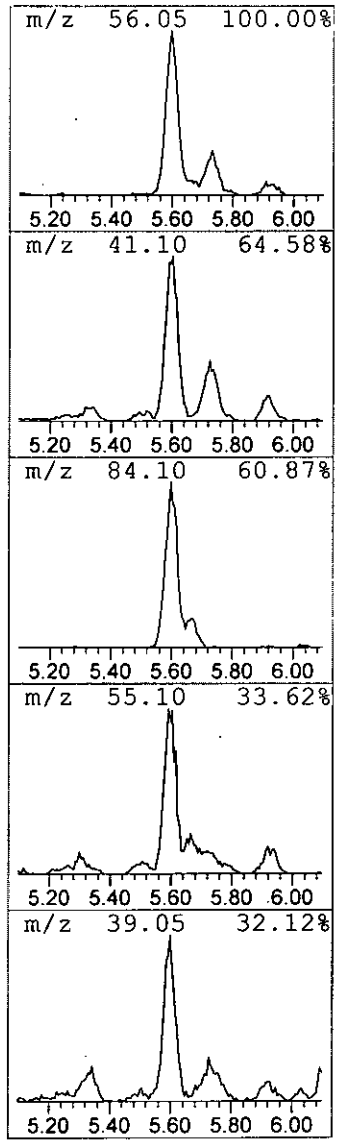
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Peak Number 9 Cyclohexane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.598	19.65 ug/L	596843	Pentafluorobenzene	5.671

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane	84	C6H12	000110-82-7	94
2	Cyclohexane	84	C6H12	000110-82-7	91
3	Cyclohexane	84	C6H12	000110-82-7	91
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
5	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	64





00362

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

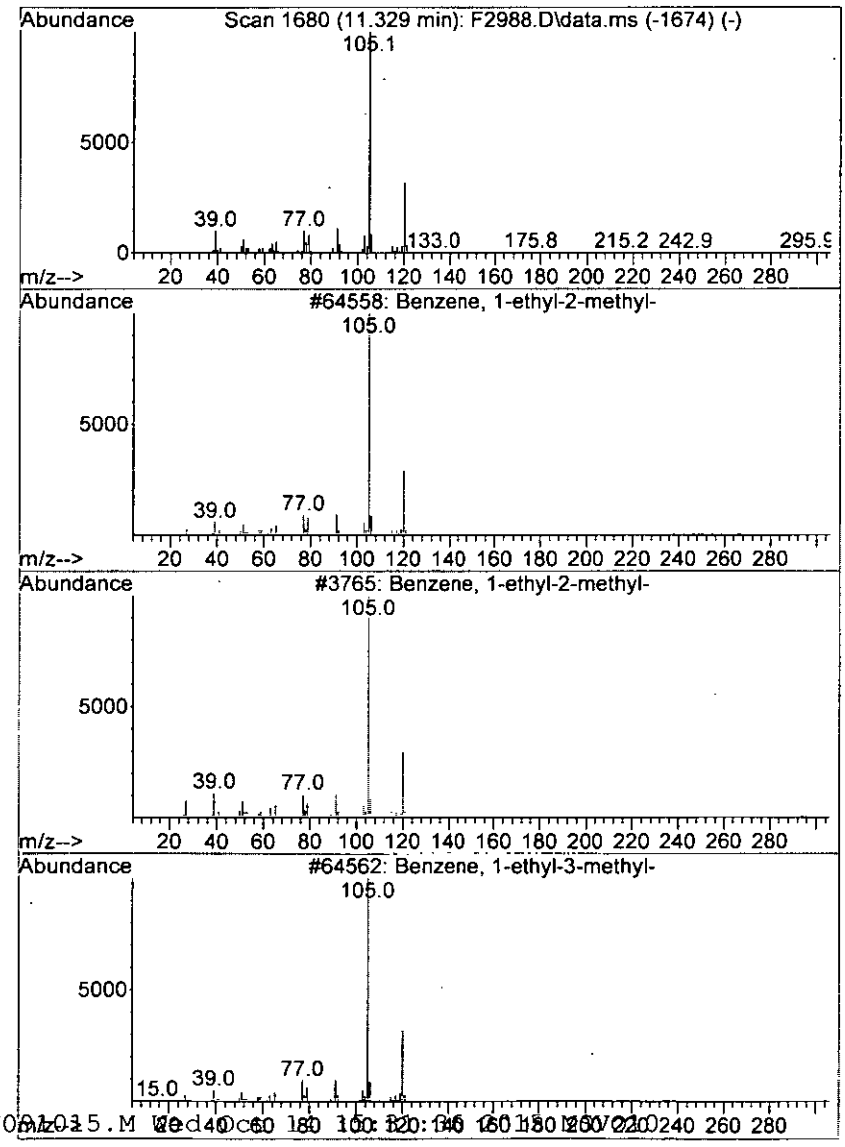
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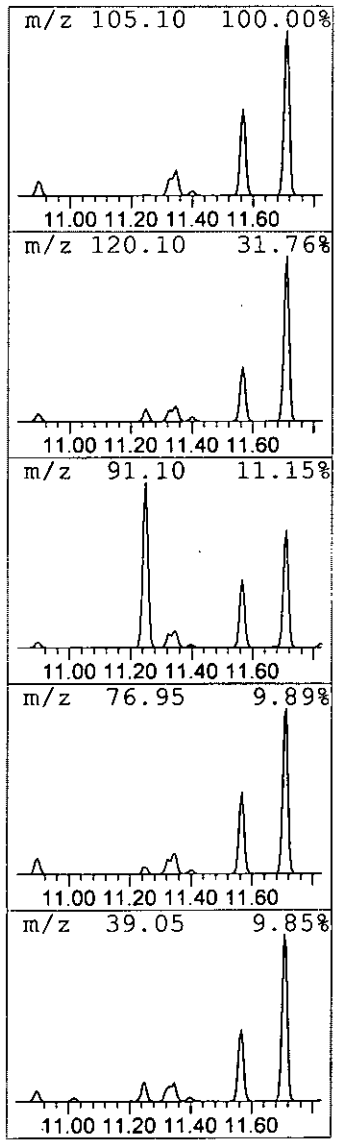
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Peak Number 10 Benzene, 1-ethyl-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.329	20.65 ug/L	1176240	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95





00363

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

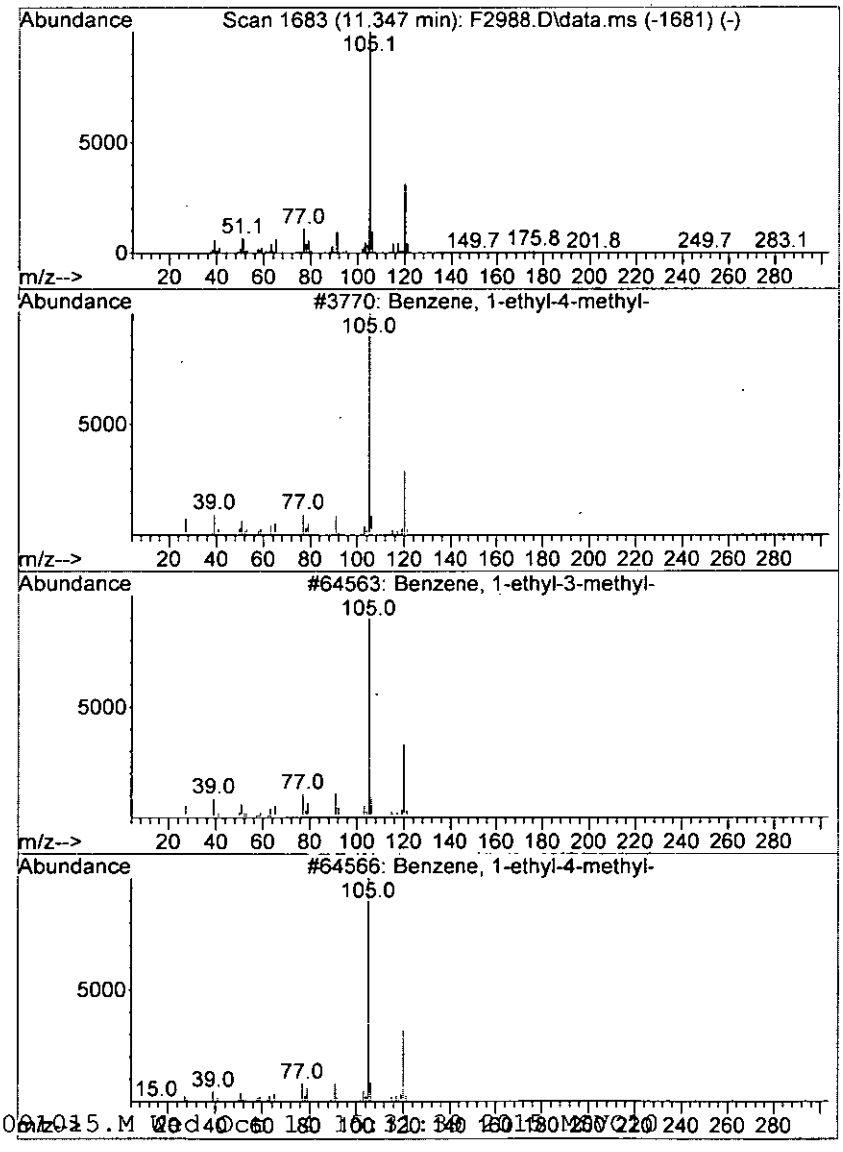
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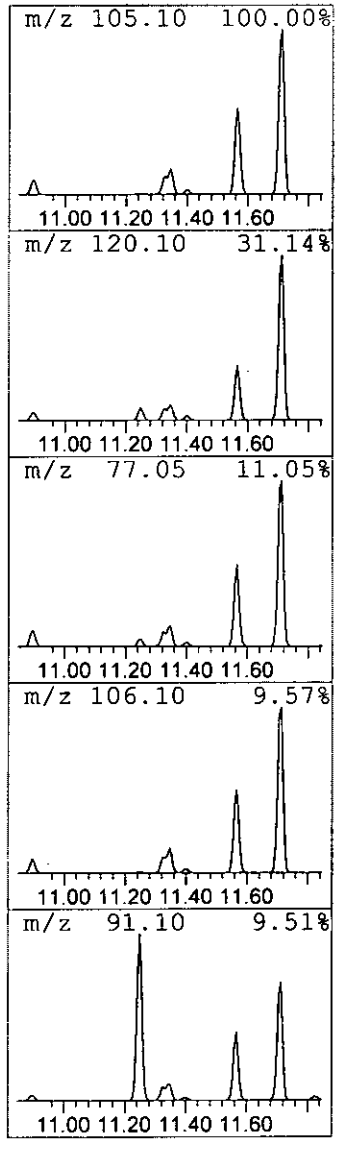
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Peak Number 11 Benzene, 1-ethyl-4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.347	24.19 ug/L	1378140	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





00364

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

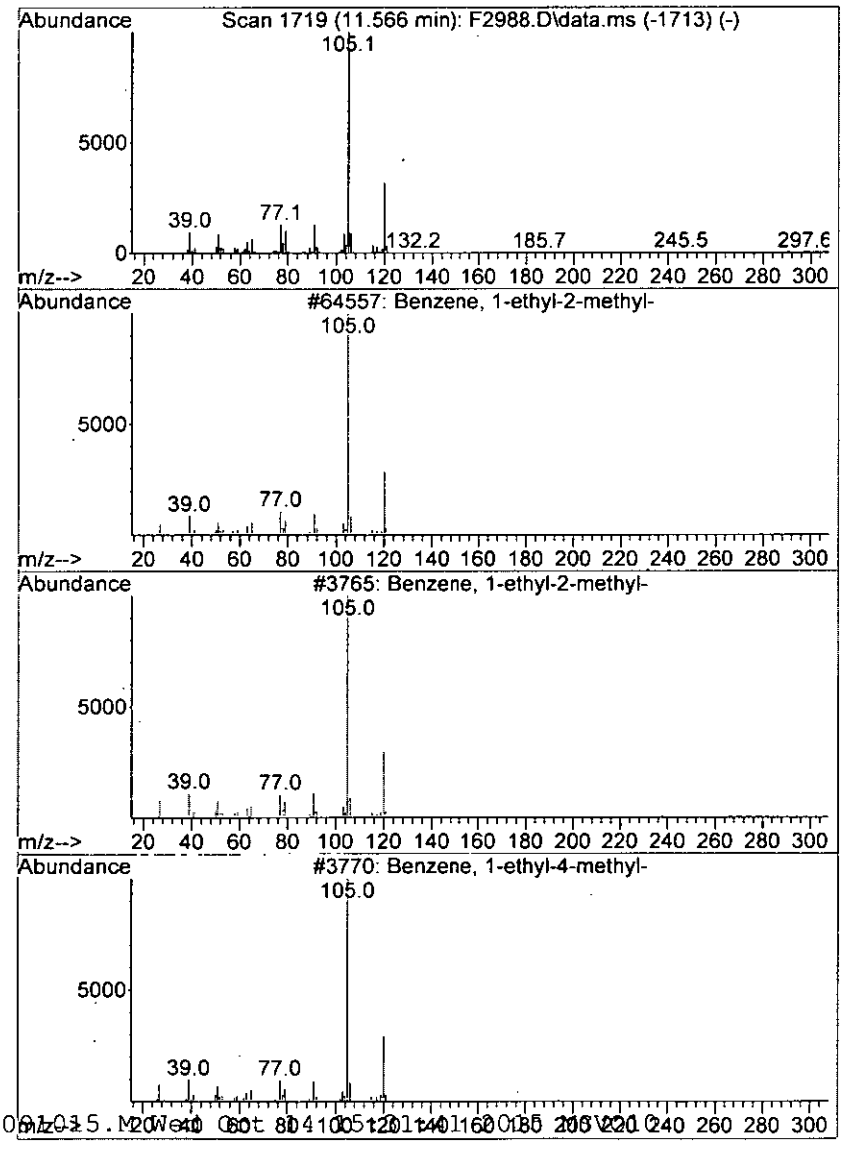
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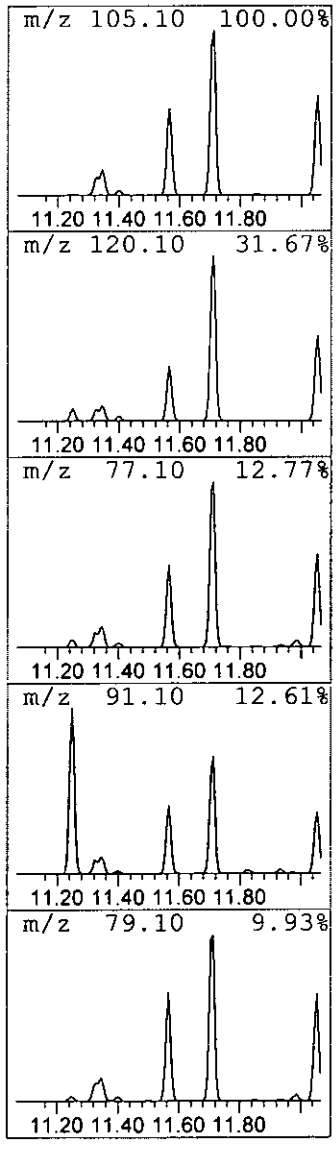
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Peak Number 12 Benzene, 1-ethyl-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.566	98.35 ug/L	5602520	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94





00365

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

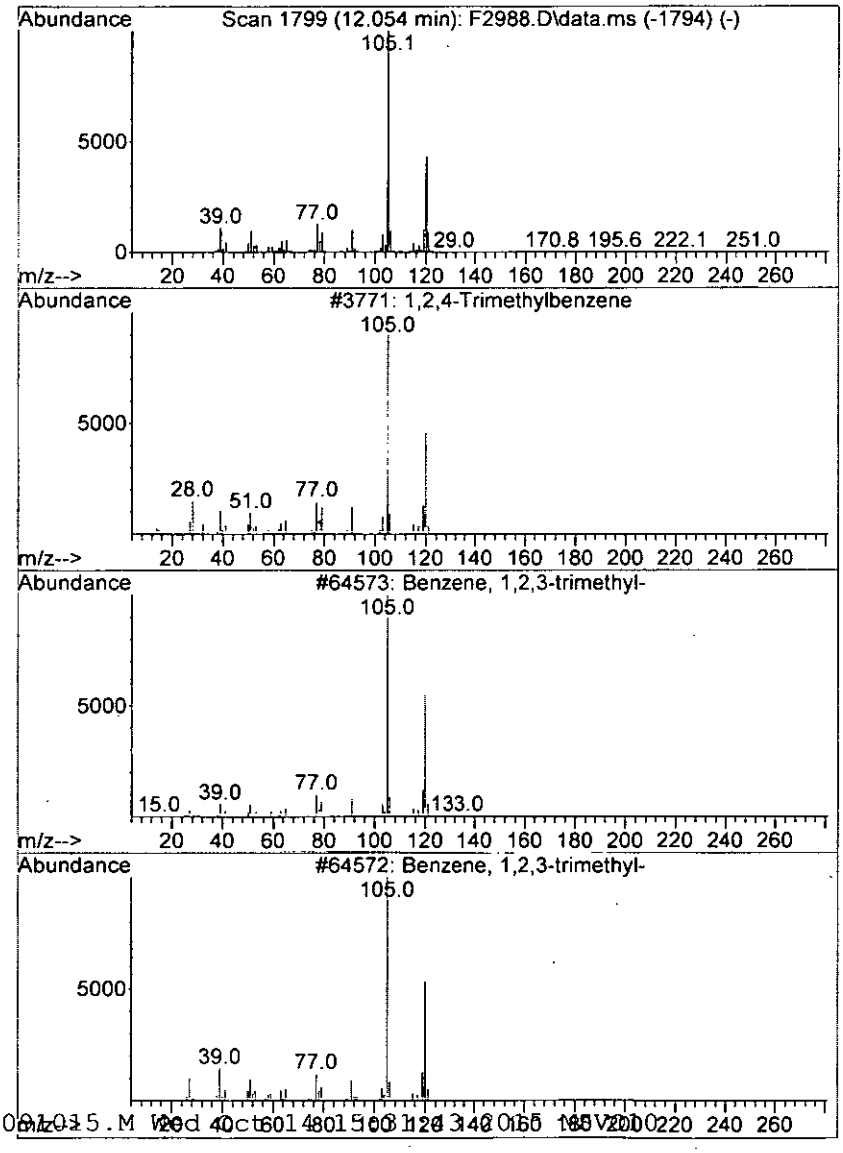
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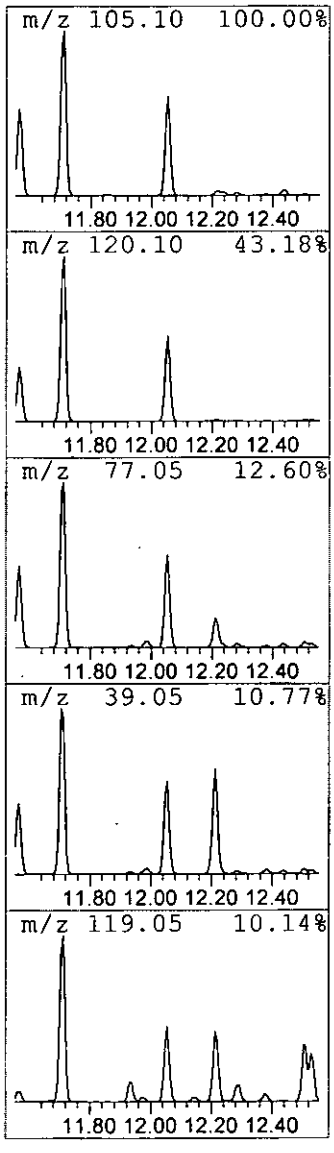
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Peak Number 13 1,2,4-Trimethylbenzene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.054	120.43 ug/L	6860620	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	97
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	93





00366

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

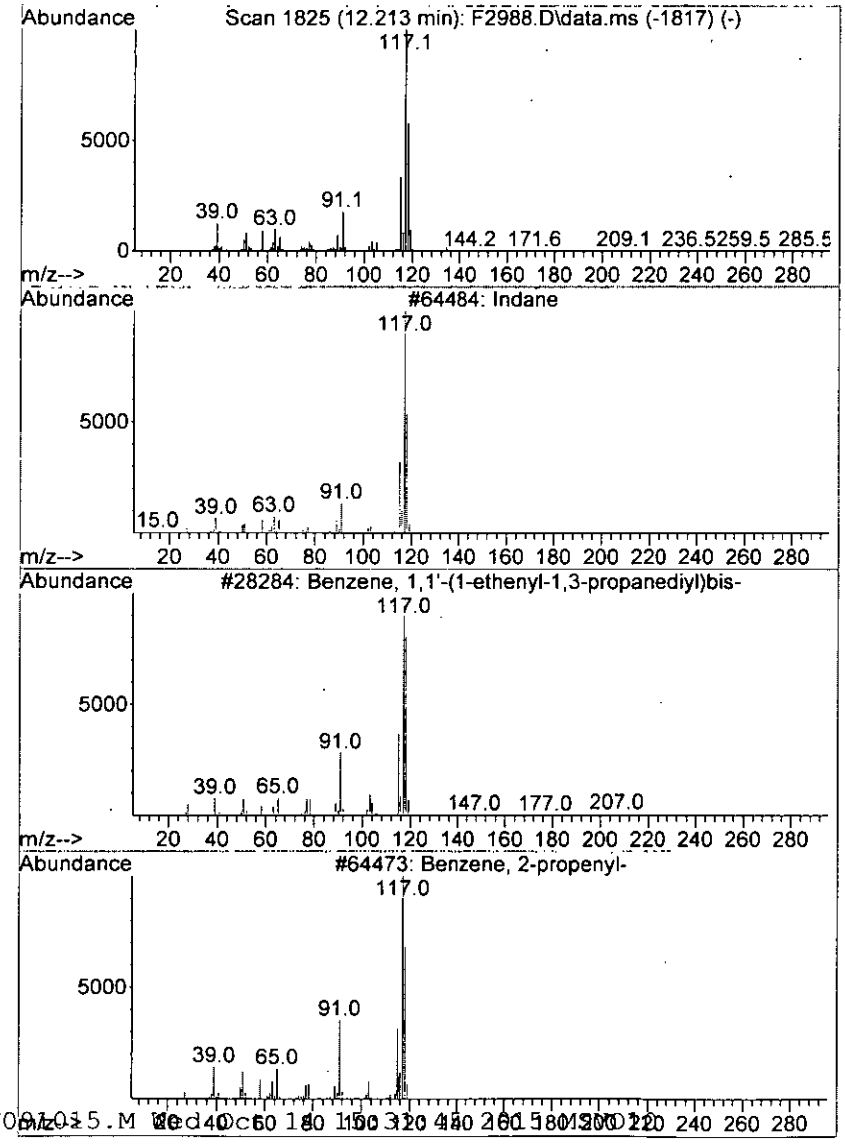
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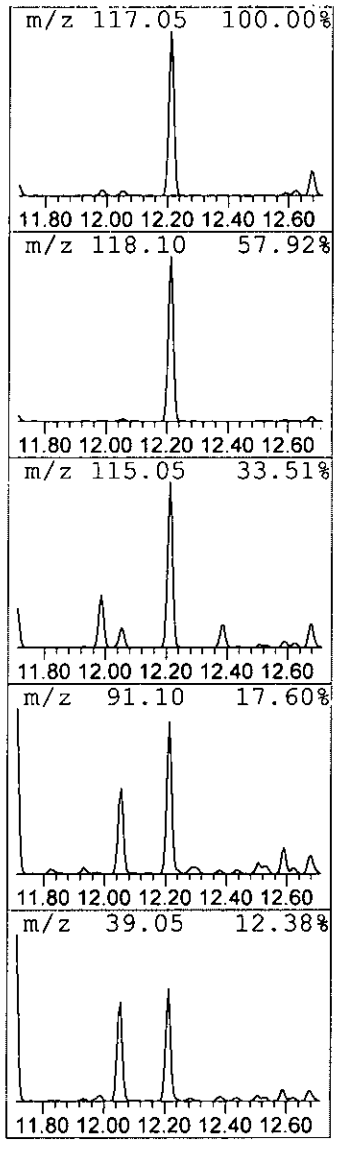
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Peak Number 14 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	144.91 ug/L	8255030	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	87
2	Benzene, 1,1'-(1-ethenyl-1,3-pro...	222	C17H18	061141-97-7	78
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	68
5	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64





00367

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

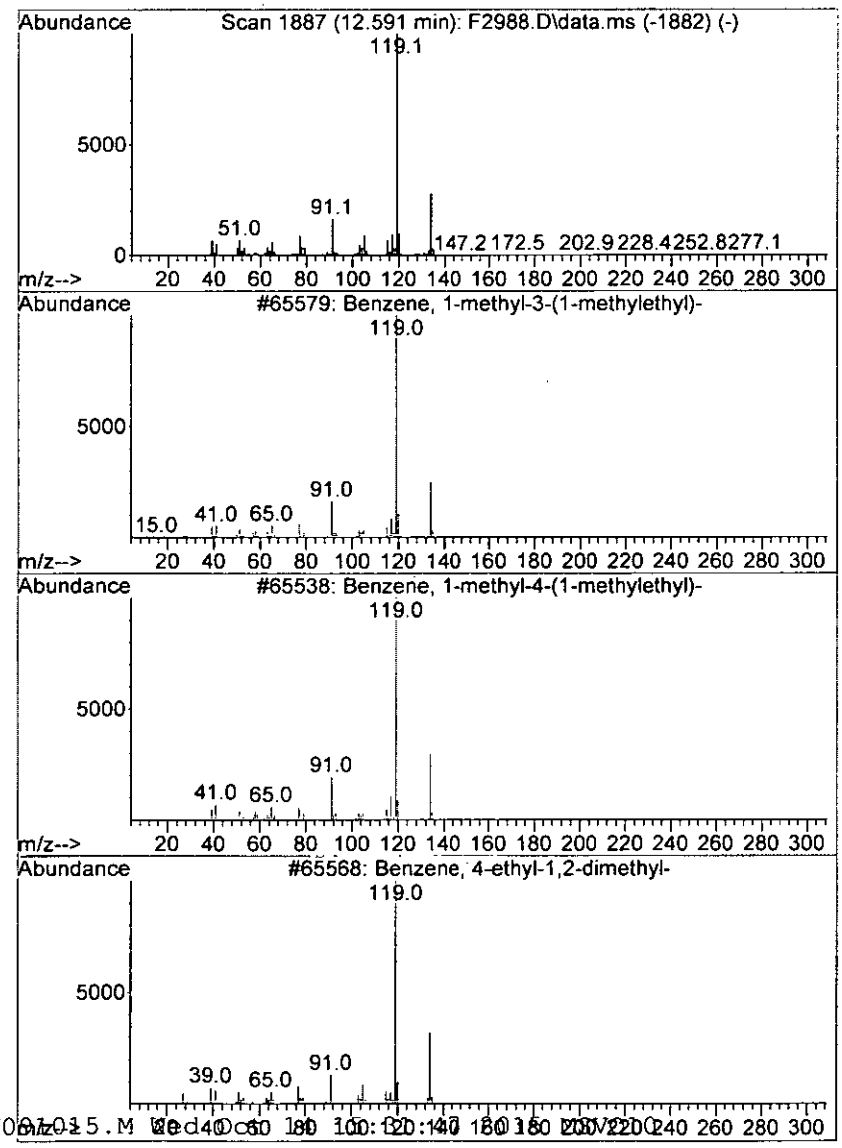
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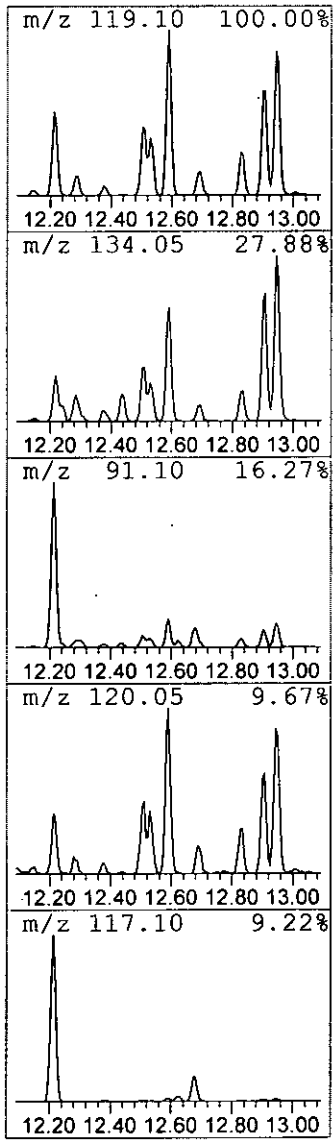
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Peak Number 15 Benzene, 1-methyl-3-(1-meth... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	20.28 ug/L	1155190	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
2	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
4	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
5	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94





00368

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

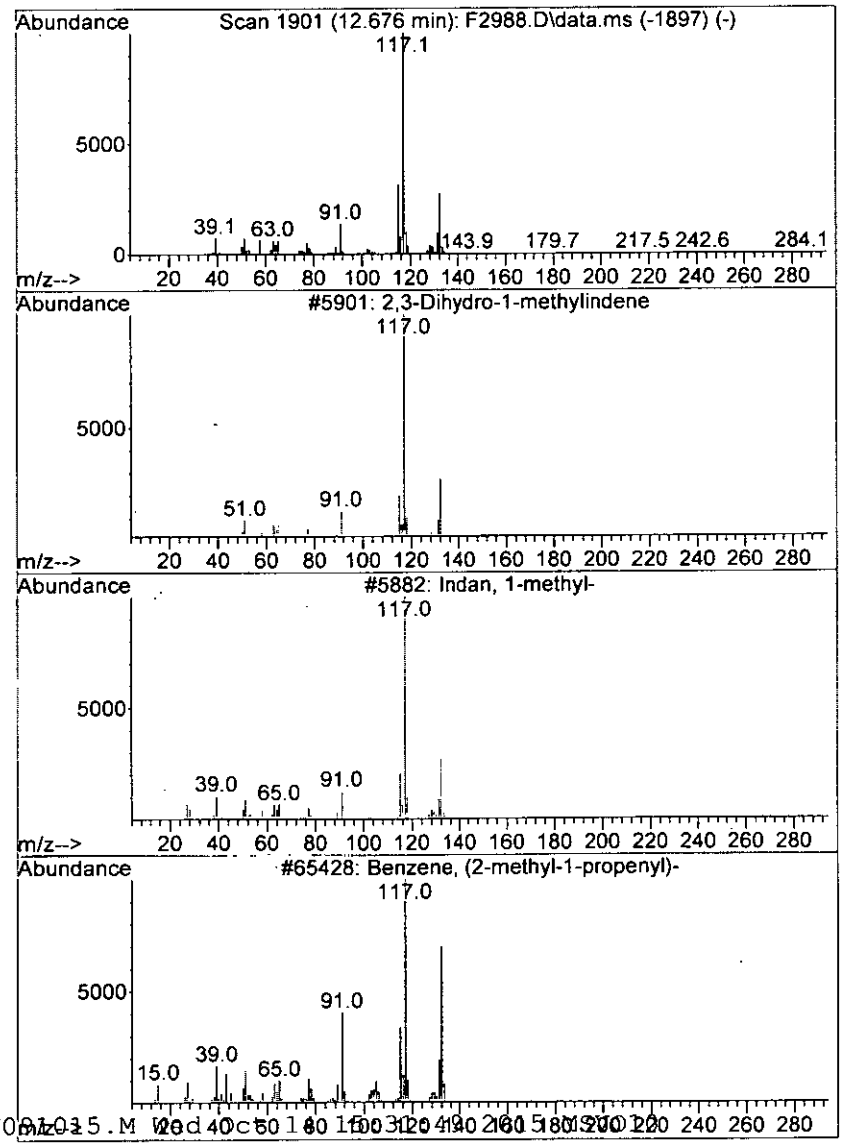
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TIC Integration Parameters: LSCINT.P

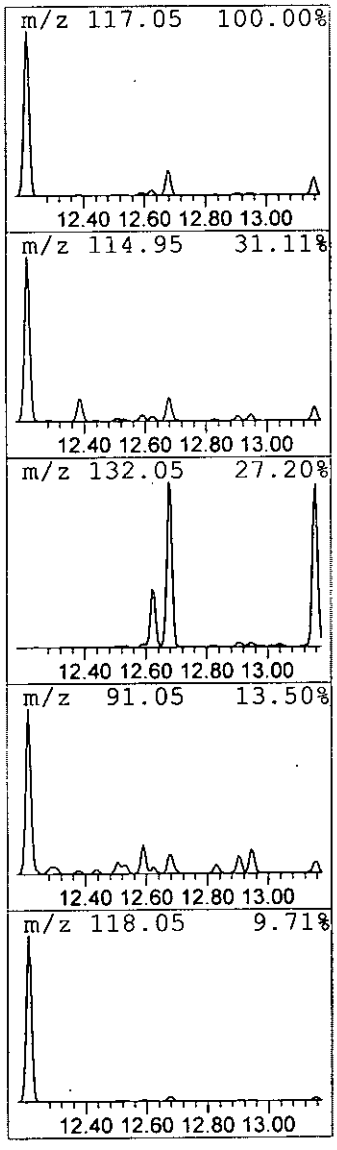
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Peak Number 16 2,3-Dihydro-1-methylindene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.676	21.39 ug/L	1218540	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	93
2	Indan, 1-methyl-	132	C10H12	000767-58-8	87
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	83
4	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	83
5	Indan, 1-methyl-	132	C10H12	000767-58-8	81





00369

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

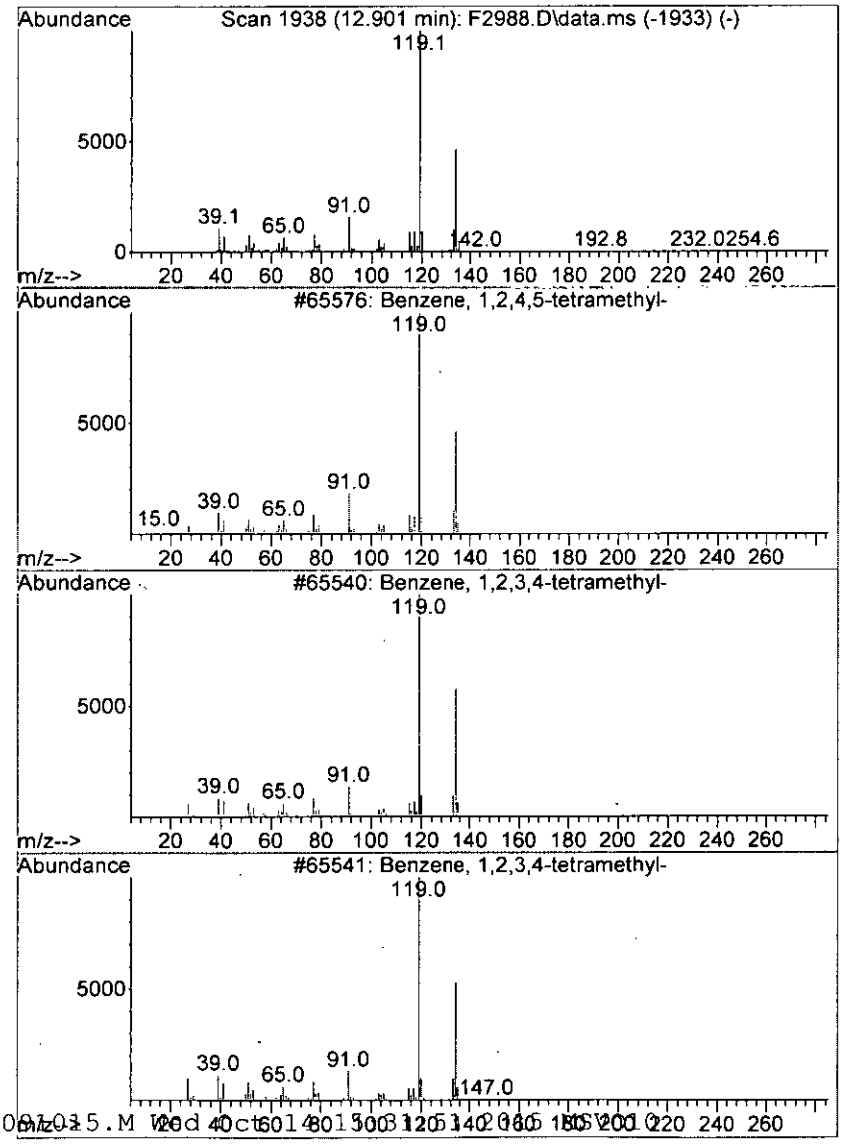
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TIC Integration Parameters: LSCINT.P

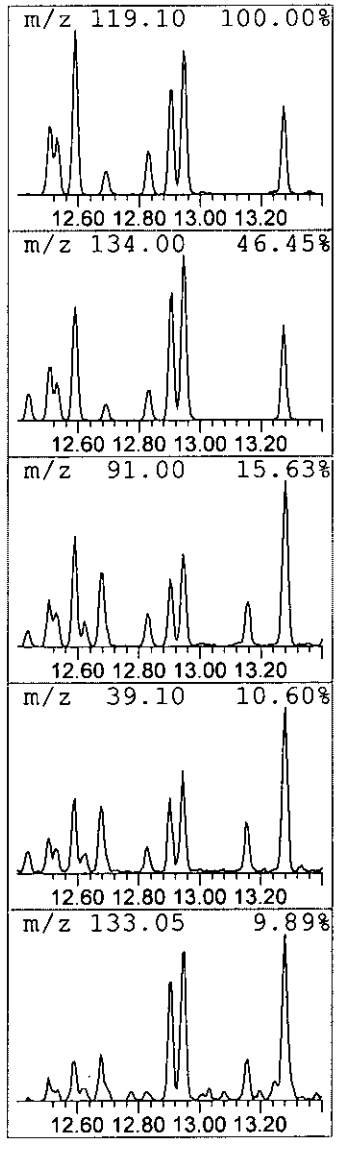
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Peak Number 17 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.902	15.83 ug/L	901661	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94





00370

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

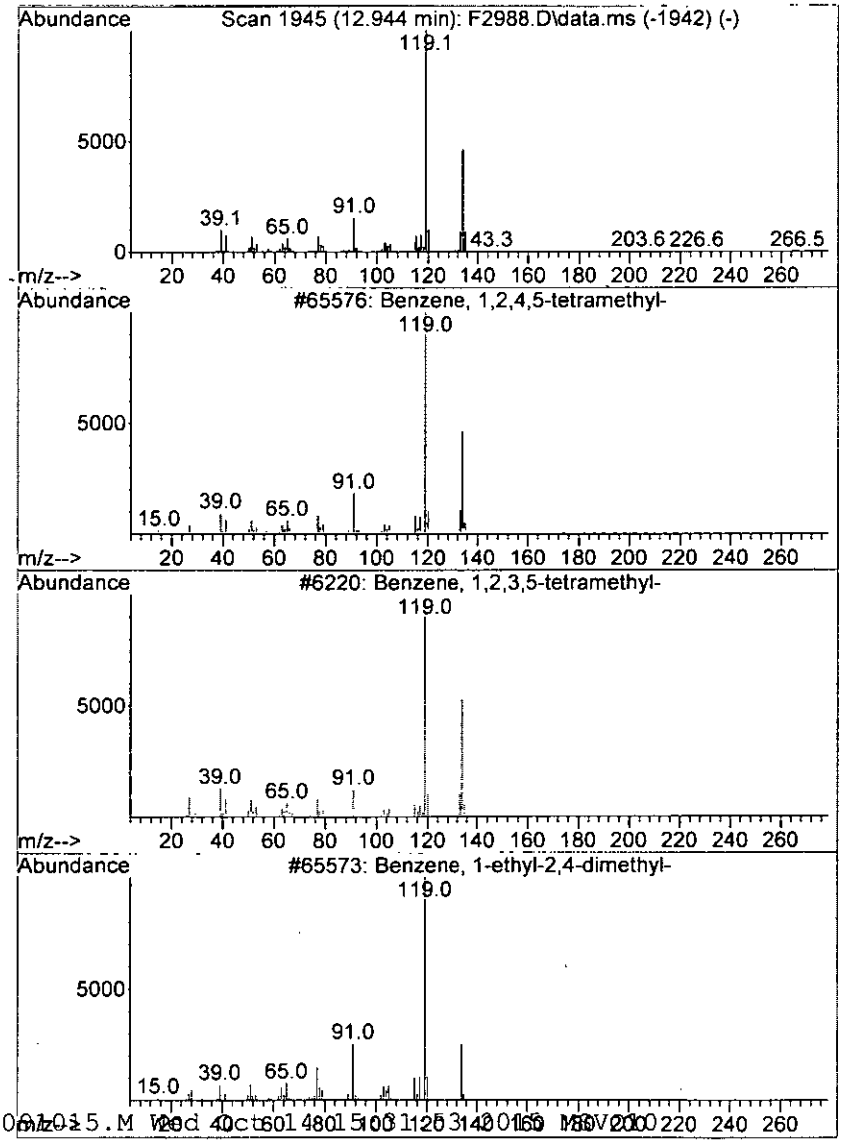
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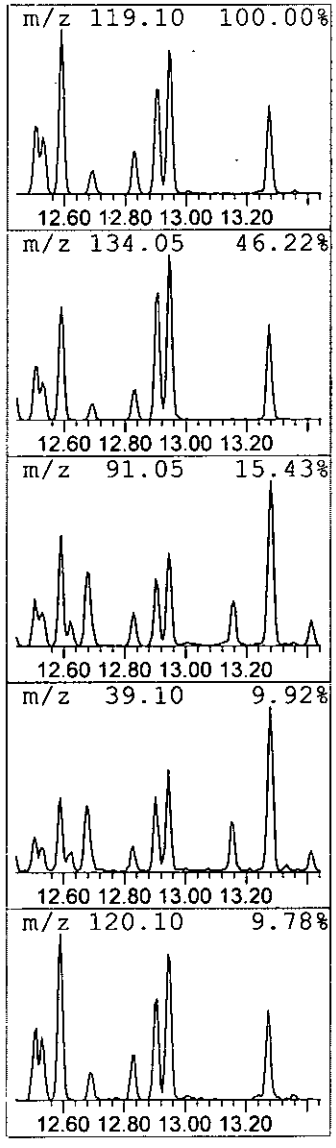
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Peak Number 18 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.944	19.98 ug/L	1138280	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	96
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95





00371

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

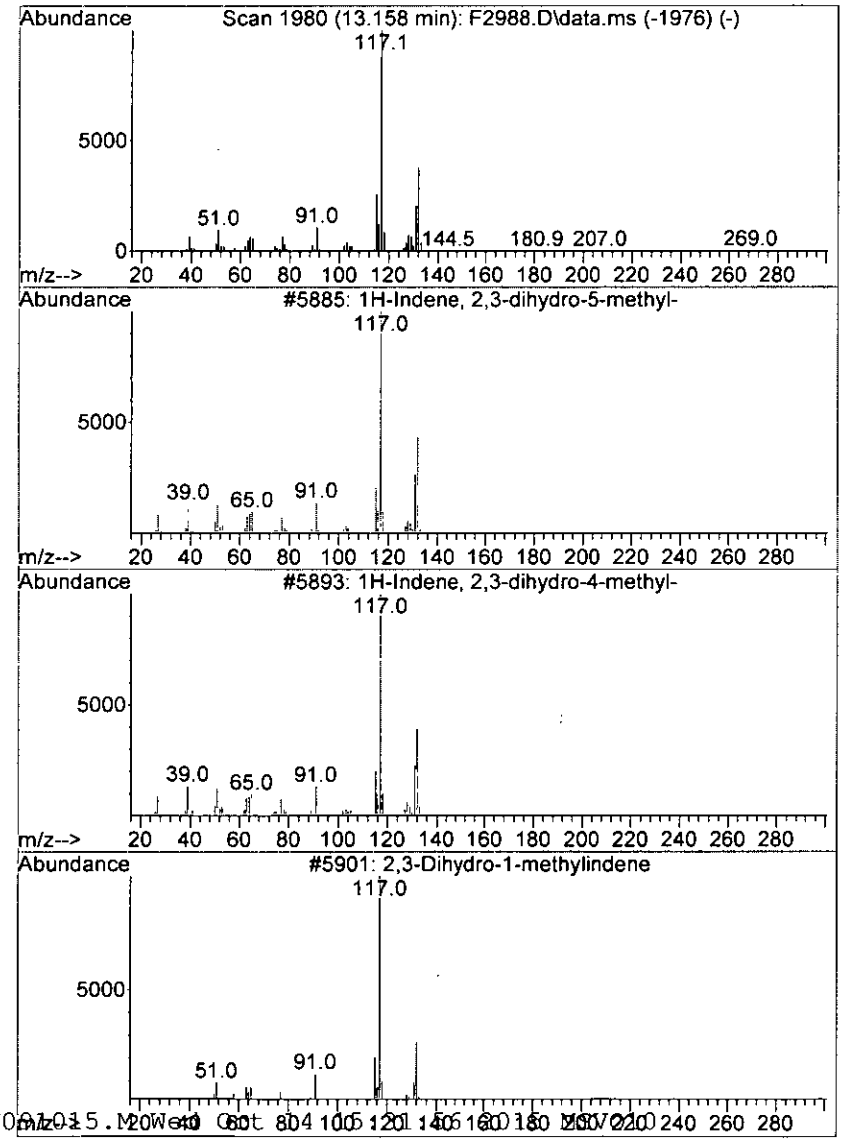
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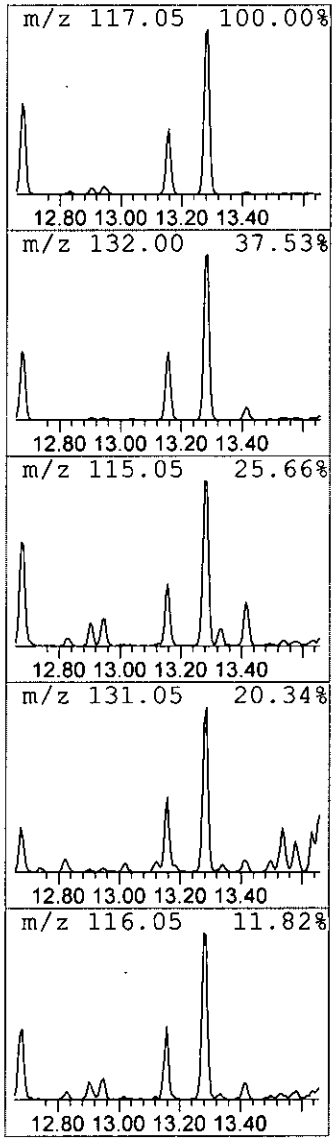
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Peak Number 19 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.158	14.21 ug/L	809679	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
3	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	81
4	Indan, 1-methyl-	132	C10H12	000767-58-8	81
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	72





00372

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2988.D
Acq On : 9 Oct 2015 7:04 pm
Operator : F. Naegler
Sample : R1508244-018|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

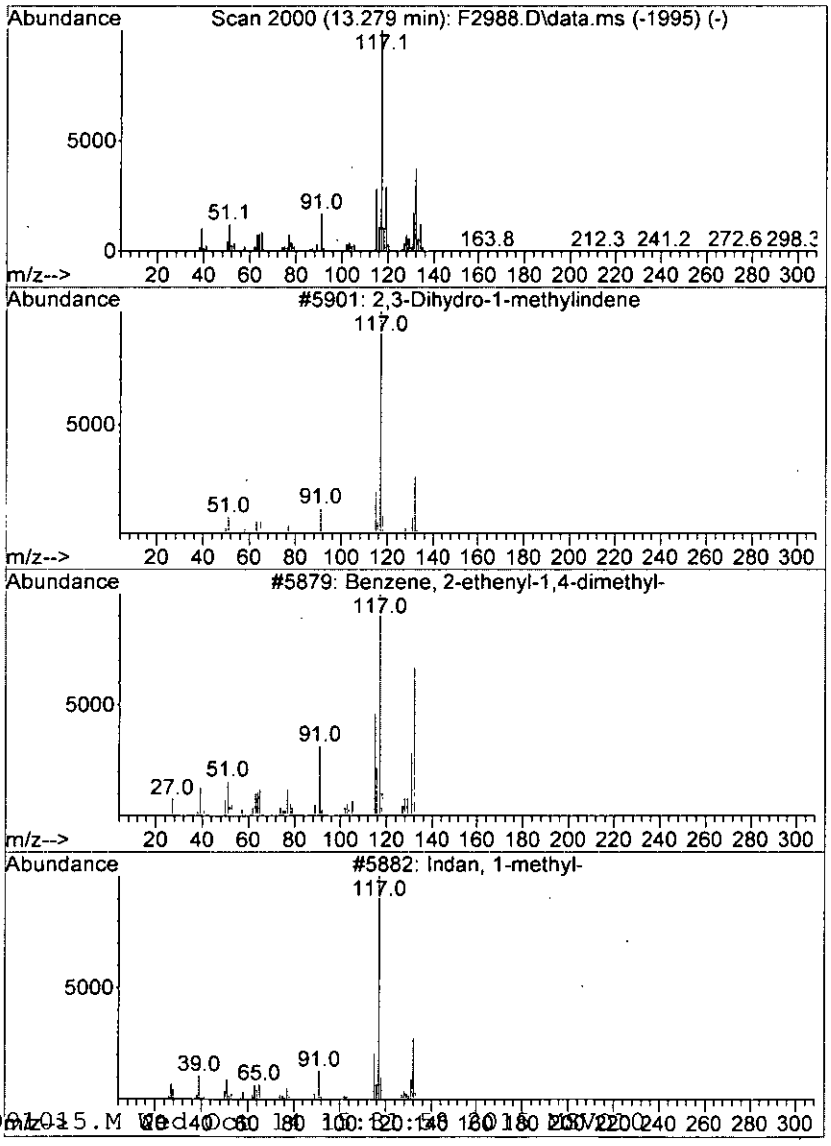
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TIC Integration Parameters: LSCINT.P

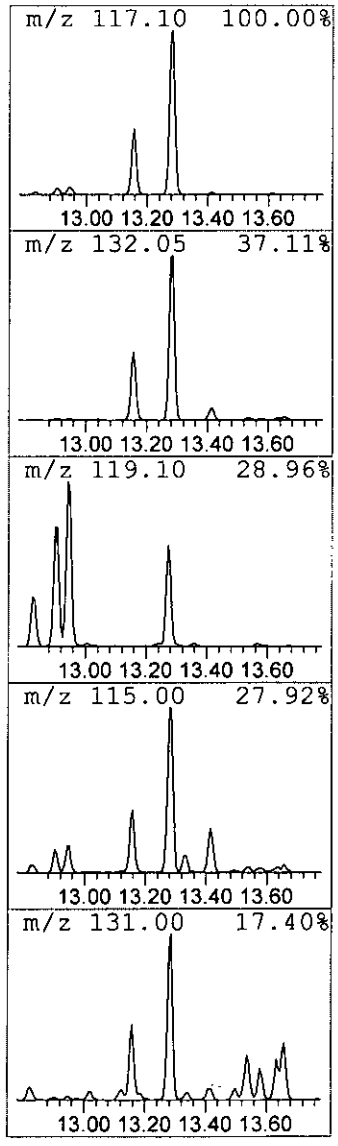
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Peak Number 20 2,3-Dihydro-1-methylindene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.280	47.85 ug/L	2725980	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	96
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
3	Indan, 1-methyl-	132	C10H12	000767-58-8	93
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	90
5	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	81





00373

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Pages

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 15 15:05:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

DL

FJ 10/15/15

KJL 10/16/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	671632	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	972658	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	871755	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	465774	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	298049	47.49	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 94.98%			
46) surr1,1,2-dichloroetha...	6.031	65	405939	45.62	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.24%			
64) SURR3,Toluene-d8	8.488	98	1128693	49.34	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.68%			
69) SURR2,BFB	11.018	95	435436	46.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.20%			
Target Compounds						Qvalue
15) Acetone	2.416	43	17067	2.97	ug/L	89
47) Benzene	6.110	78	25128	0.96	ug/L #	75
63) 4-Methyl-2-pentanone	8.409	43	3093	0.23	ug/L	93
65) Toluene	8.561	91	91671	3.38	ug/L	98
81) Ethylbenzene	10.097	106	711145	73.78	ug/L	92
82) (m+p)Xylene	10.213	106	615409	54.27	ug/L	99
83) o-Xylene	10.567	106	1010248	85.54	ug/L	97
87) Isopropylbenzene	10.896	105	126186	4.34	ug/L	97
94) n-Propylbenzene	11.250	91	210414	6.27	ug/L	97
98) 1,3,5-Trimethylbenzene	11.402	105	36745	1.54	ug/L	97
100) 1,2,4-Trimethylbenzene	11.713	105	1580882	65.18	ug/L	94
102) sec-Butylbenzene	11.853	105	10126	0.34	ug/L	97
103) p-Isopropyltoluene	11.975	119	6298	0.25	ug/L	95
108) n-Butylbenzene	12.304	91	4972	0.20	ug/L	83
116) Naphthalen	13.773	128	501270	15.28	ug/L	99

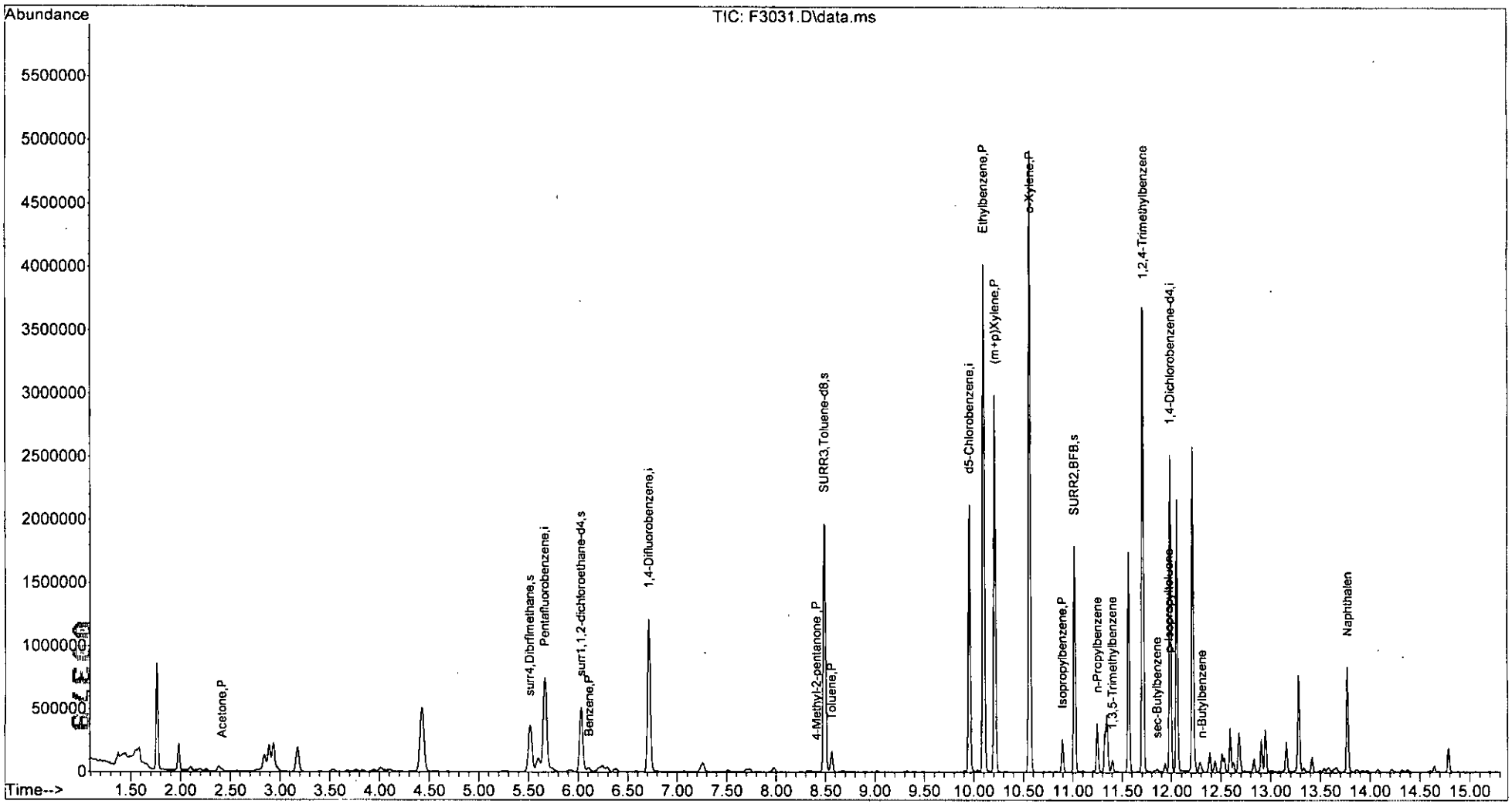
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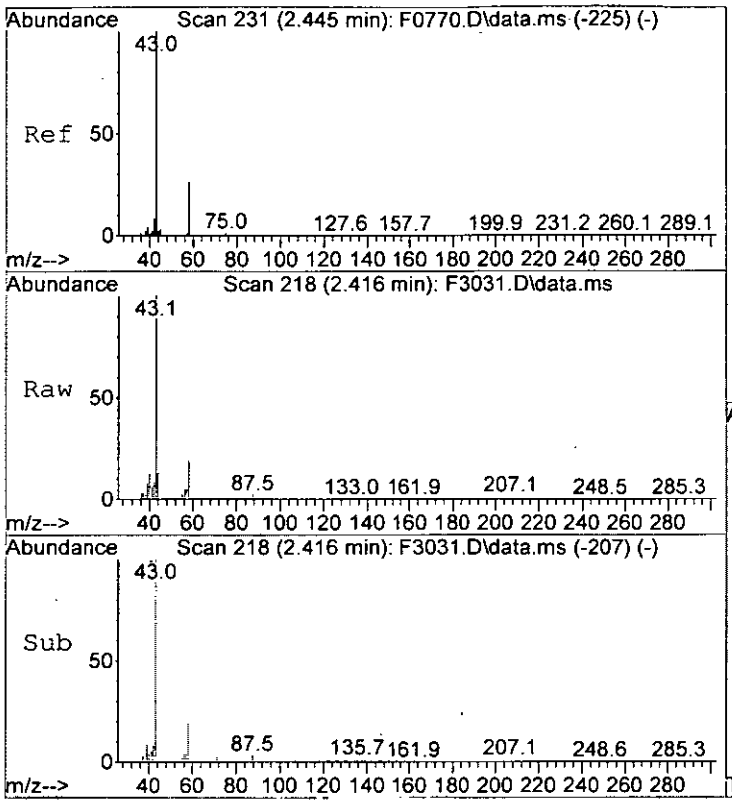
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Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 15 15:05:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

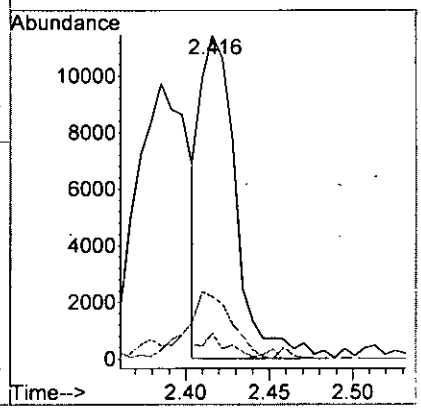


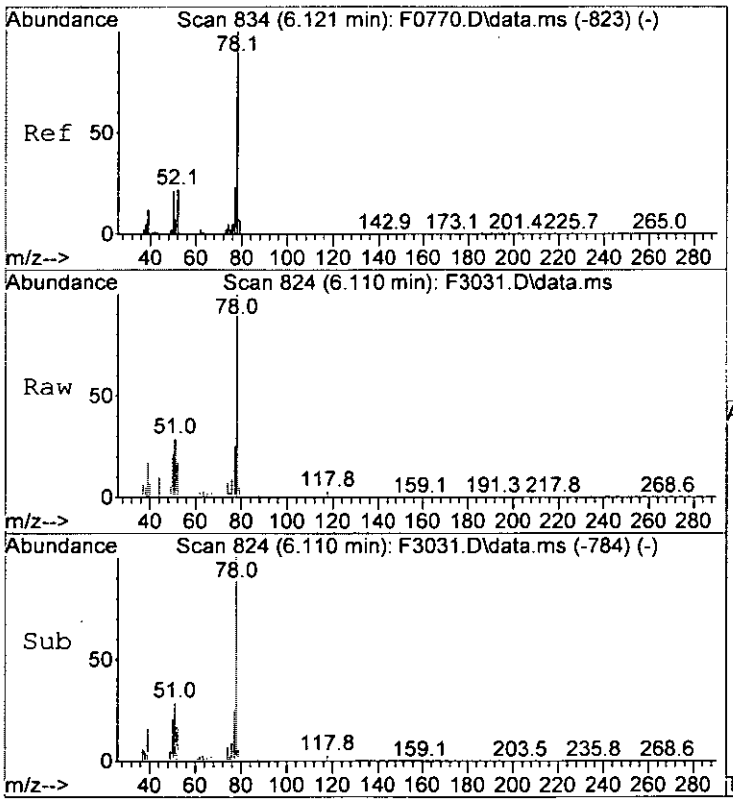


#15
Acetone
Concen: 2.97 ug/L
RT: 2.416 min Scan# 218
Delta R.T. -0.005 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion: 43 Resp: 17067

Ion	Ratio	Lower	Upper
43	100		
58	19.2	6.1	46.1
42	7.9	0.0	28.3

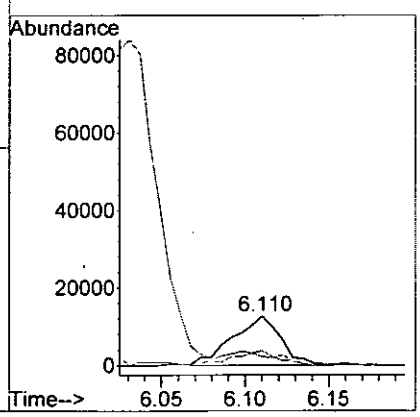




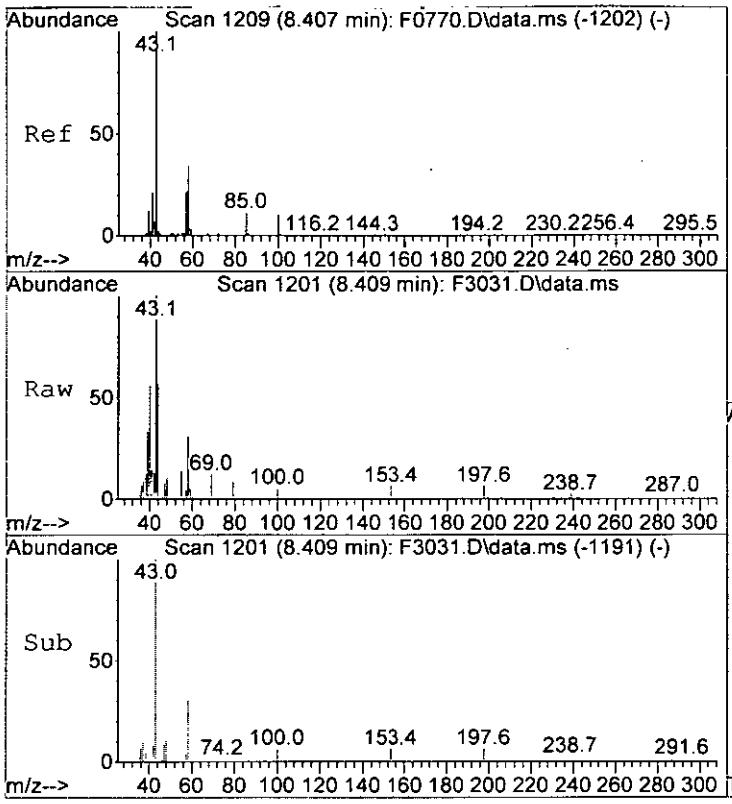
#47
Benzene
Concen: 0.96 ug/L
RT: 6.110 min Scan# 824
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion: 78 Resp: 25128

Ion	Ratio	Lower	Upper
78	100		
51	29.5	0.0	27.4#
52	16.7	2.5	42.5



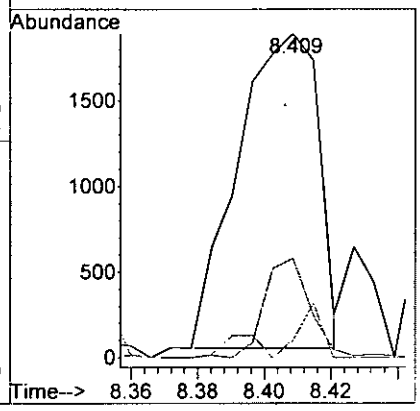
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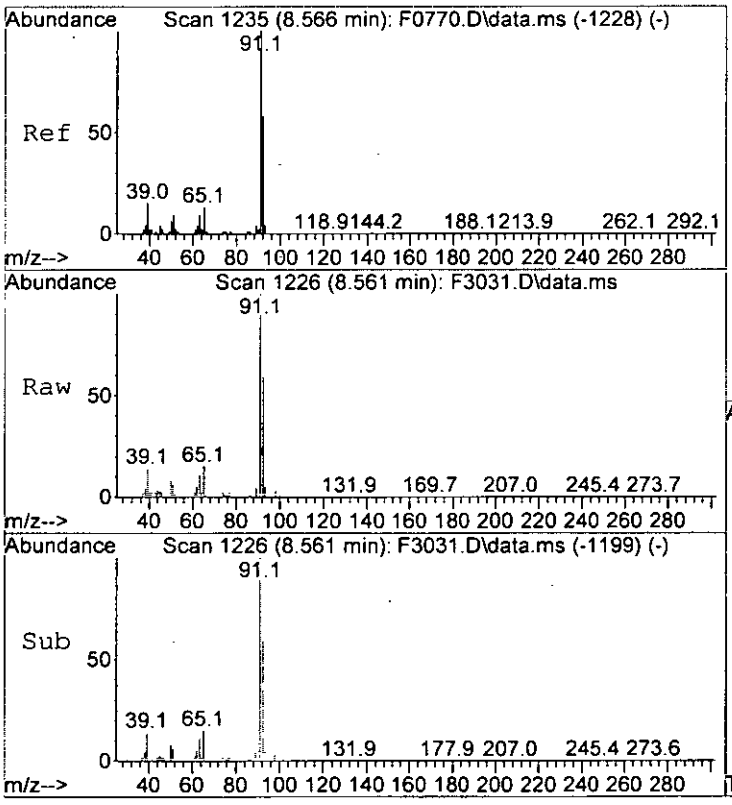


#63
4-Methyl-2-pentanone
Concen: 0.23 ug/L
RT: 8.409 min Scan# 1201
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion: 43 Resp: 3093

Ion	Ratio	Lower	Upper
43	100		
58	30.6	13.5	53.5
100	5.4	0.0	29.9

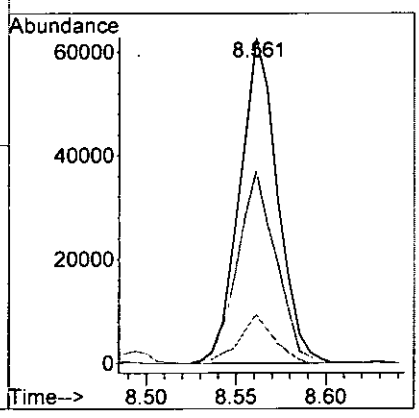




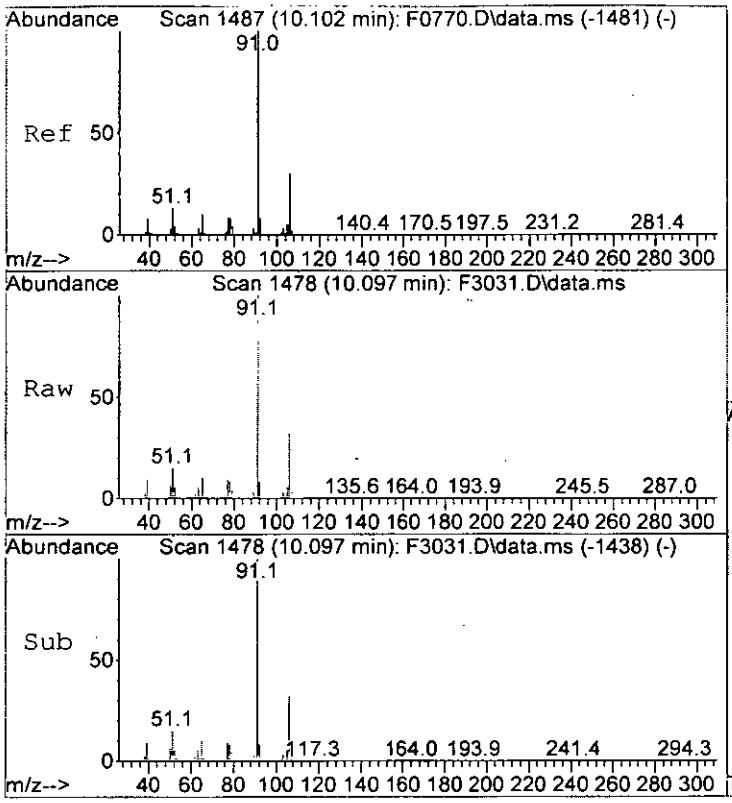
#65
Toluene
Concen: 3.38 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion: 91 Resp: 91671

Ion	Ratio	Lower	Upper
91	100		
92	59.1	38.0	78.0
65	14.9	0.0	33.0



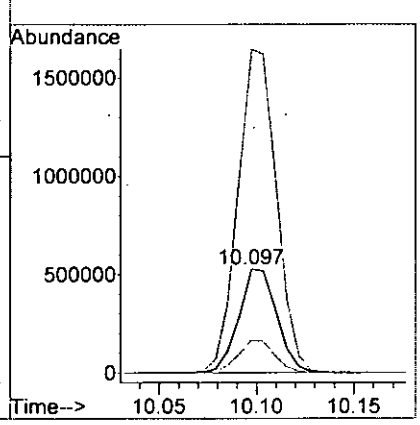
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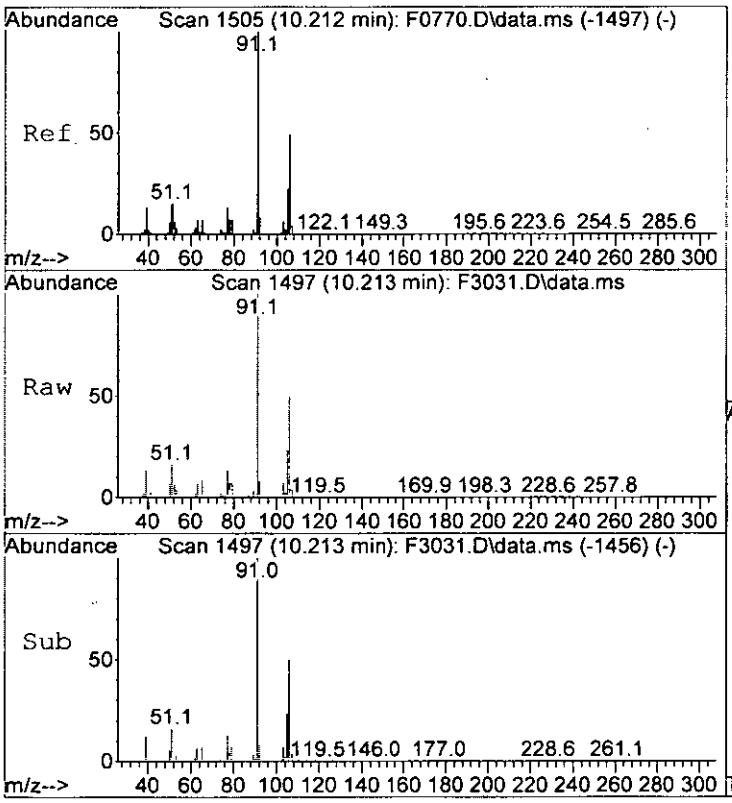


#81
Ethylbenzene
Concen: 73.78 ug/L
RT: 10.097 min Scan# 1478
Delta R.T. -0.006 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:106 Resp: 711145

Ion	Ratio	Lower	Upper
106	100		
91	312.7	311.8	351.8
65	31.0	12.0	52.0

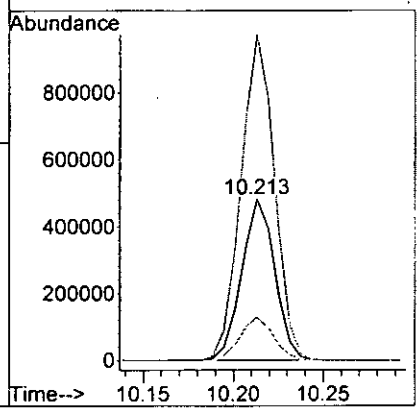




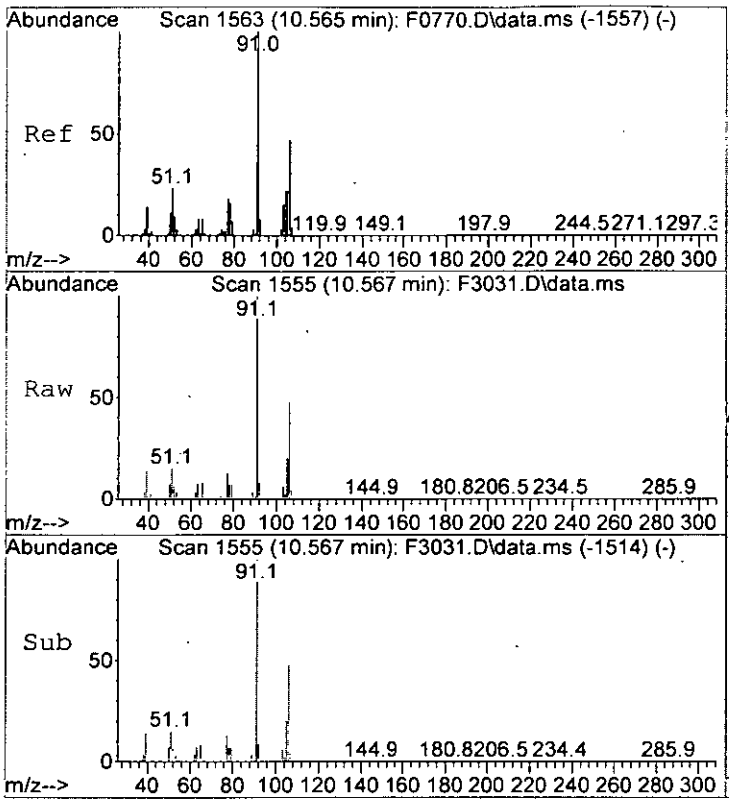
#82
(m+p)Xylene
Concen: 54.27 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:106 Resp: 615409

Ion	Ratio	Lower	Upper
106	100		
91	201.8	183.1	223.1
77	26.6	6.9	46.9



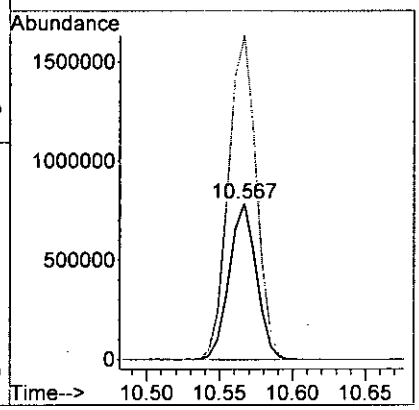
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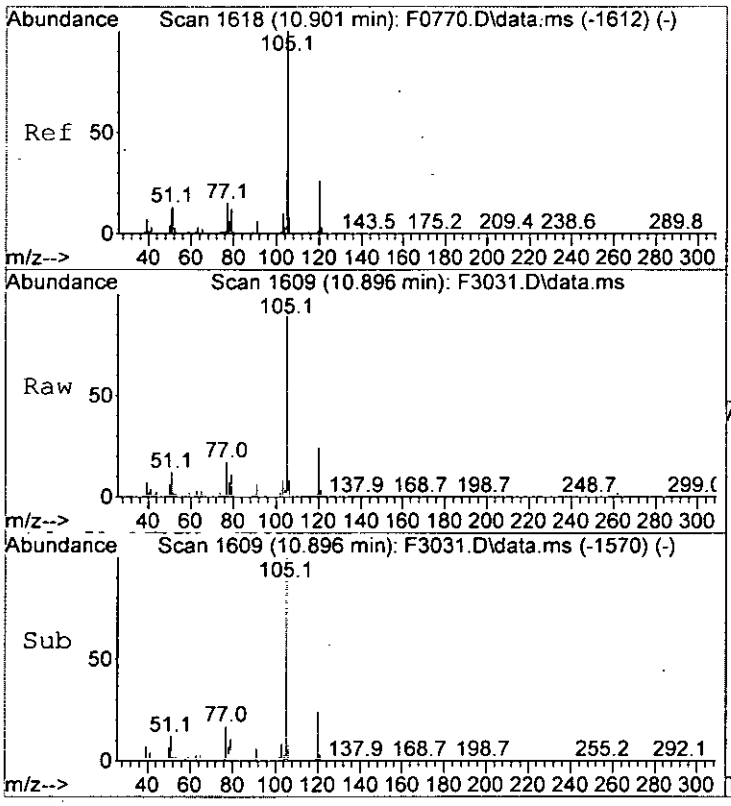


#83
o-Xylene
Concen: 85.54 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:106 Resp: 1010248

Ion	Ratio	Lower	Upper
106	100		
91	207.6	192.0	232.0

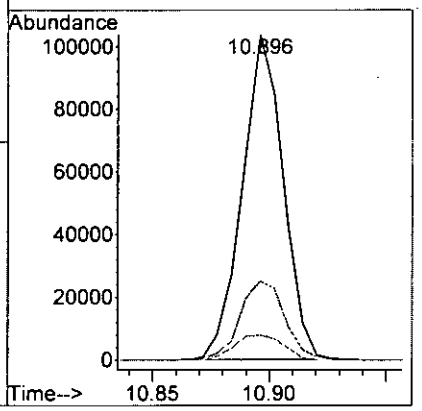




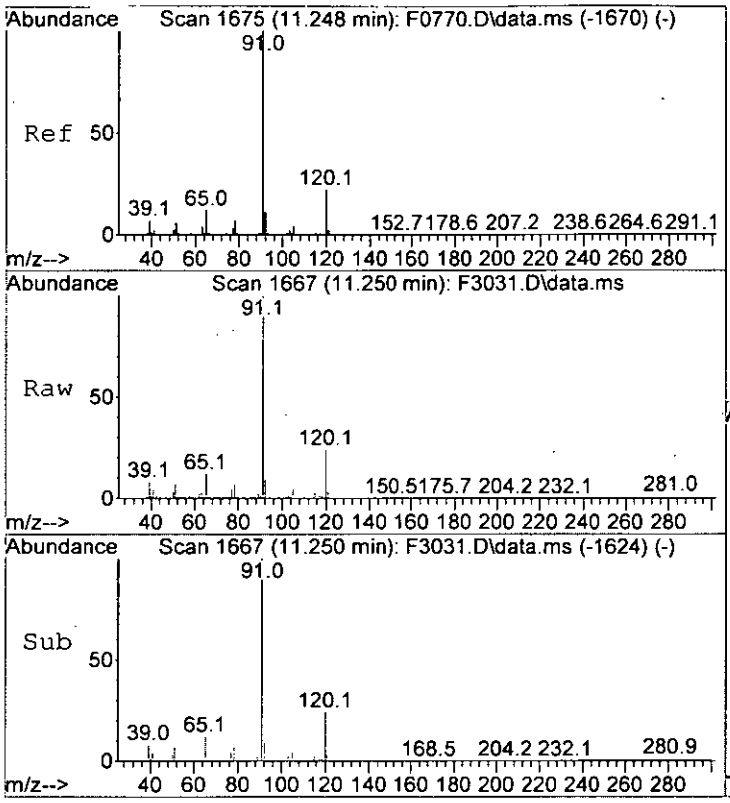
#87
Isopropylbenzene
Concen: 4.34 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:105 Resp: 126186

Ion	Ratio	Lower	Upper
105	100		
120	24.2	5.8	45.8
106	7.6	0.0	28.3



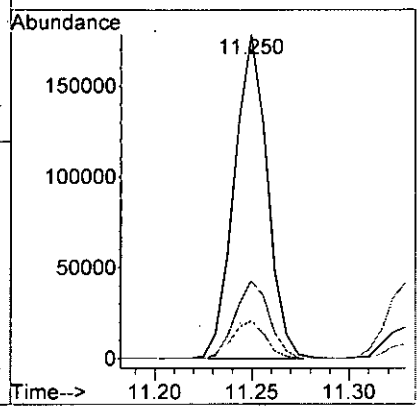
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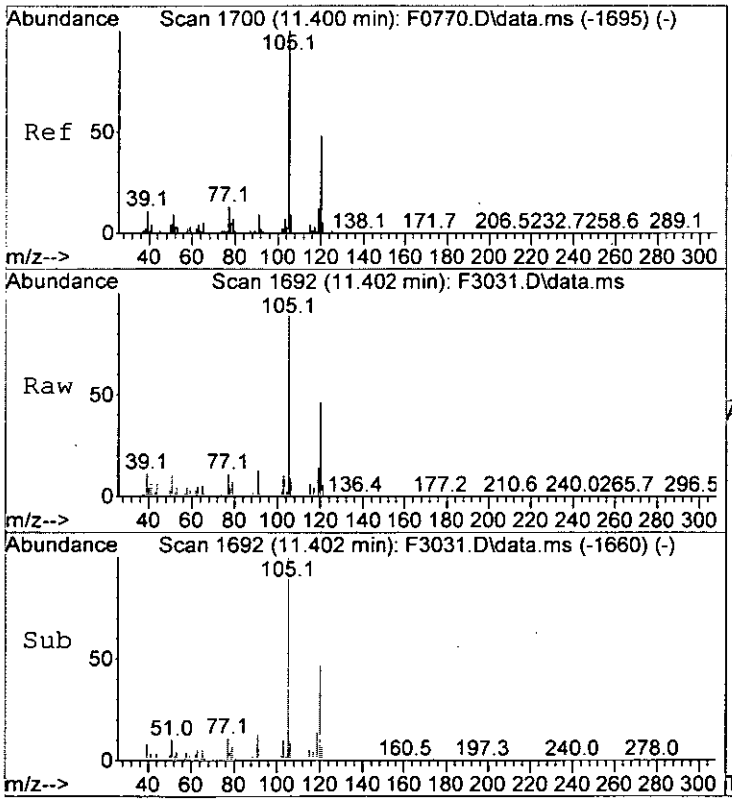


#94
n-Propylbenzene
Concen: 6.27 ug/L
RT: 11.250 min Scan# 1667
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion: 91 Resp: 210414

Ion	Ratio	Lower	Upper
91	100		
120	24.1	2.1	42.1
65	11.7	0.0	31.7

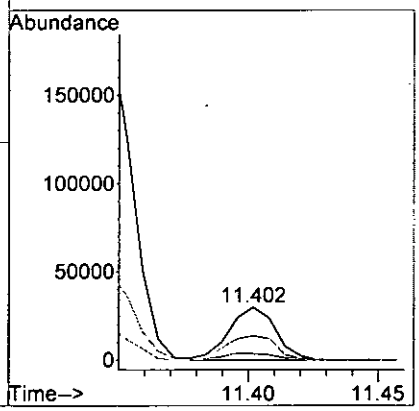


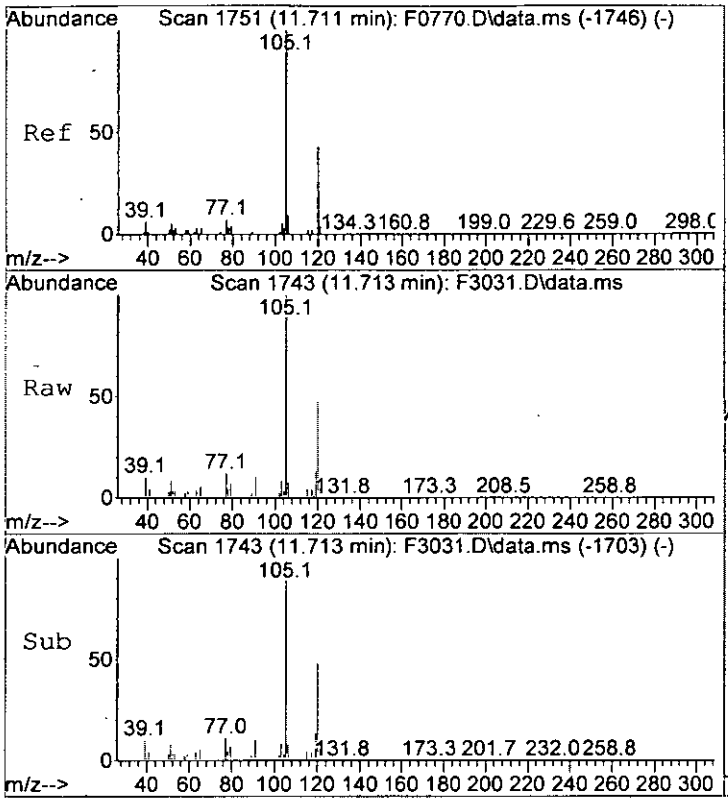


#98
1,3,5-Trimethylbenzene
Concen: 1.54 ug/L
RT: 11.402 min Scan# 1692
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:105 Resp: 36745

Ion	Ratio	Lower	Upper
105	100		
120	46.0	27.9	67.9
77	11.2	0.0	32.8

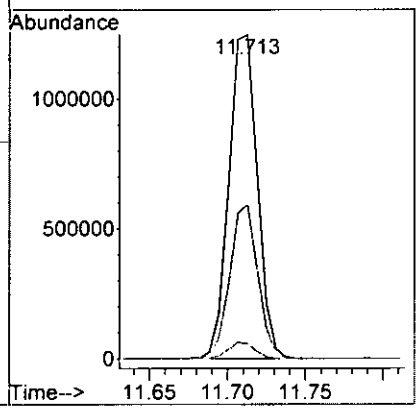


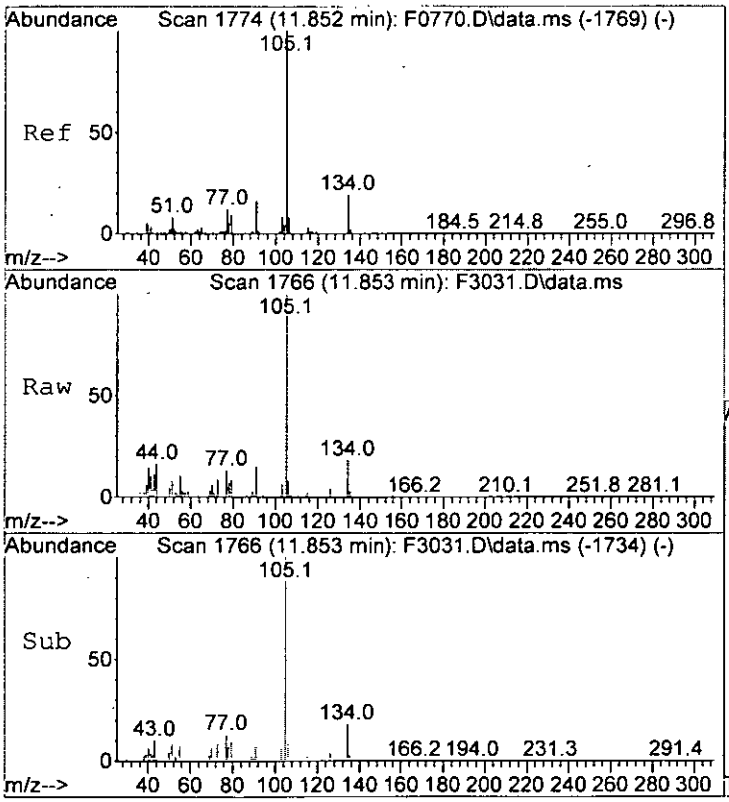


#100
1,2,4-Trimethylbenzene
Concen: 65.18 ug/L
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:105 Resp: 1580882

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.4	63.4
65	4.6	0.0	22.7

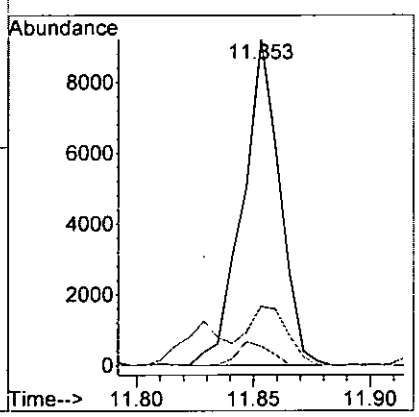




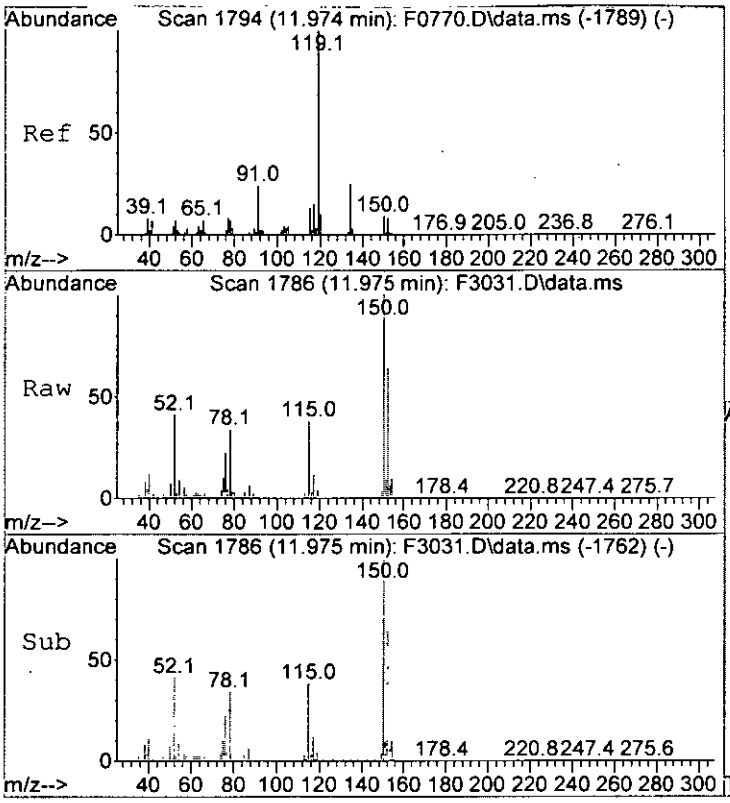
#102
sec-Butylbenzene
Concen: 0.34 ug/L
RT: 11.853 min Scan# 1766
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:105 Resp: 10126

Ion	Ratio	Lower	Upper
105	100		
134	18.0	0.0	39.0
103	5.8	0.0	28.1



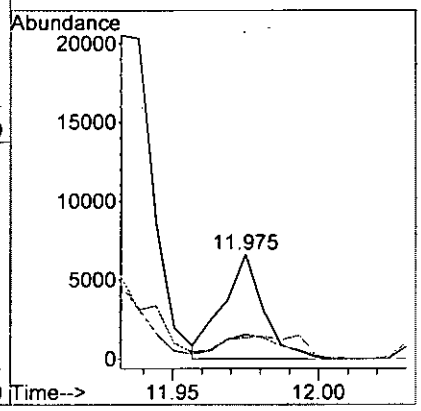
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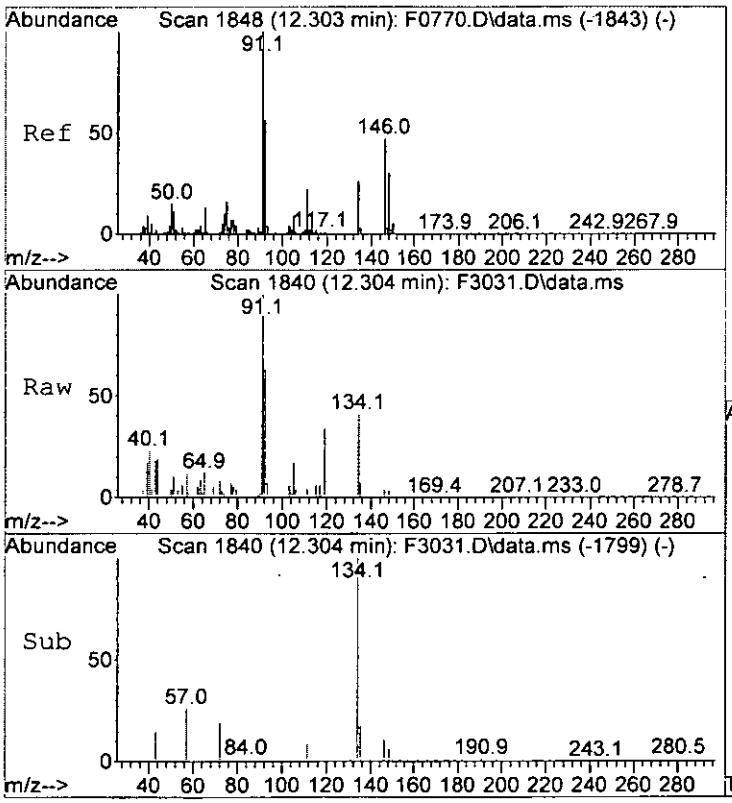


#103
p-Isopropyltoluene
Concen: 0.25 ug/L
RT: 11.975 min Scan# 1786
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:119 Resp: 6298

Ion	Ratio	Lower	Upper
119	100		
134	23.3	5.4	45.4
91	20.3	3.5	43.5

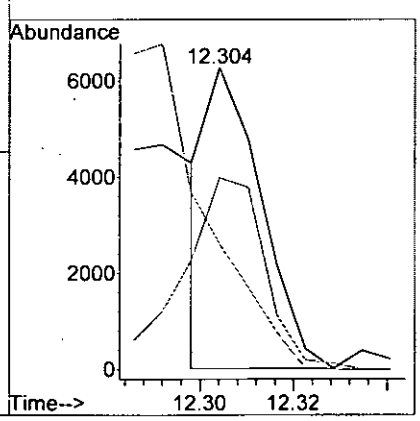




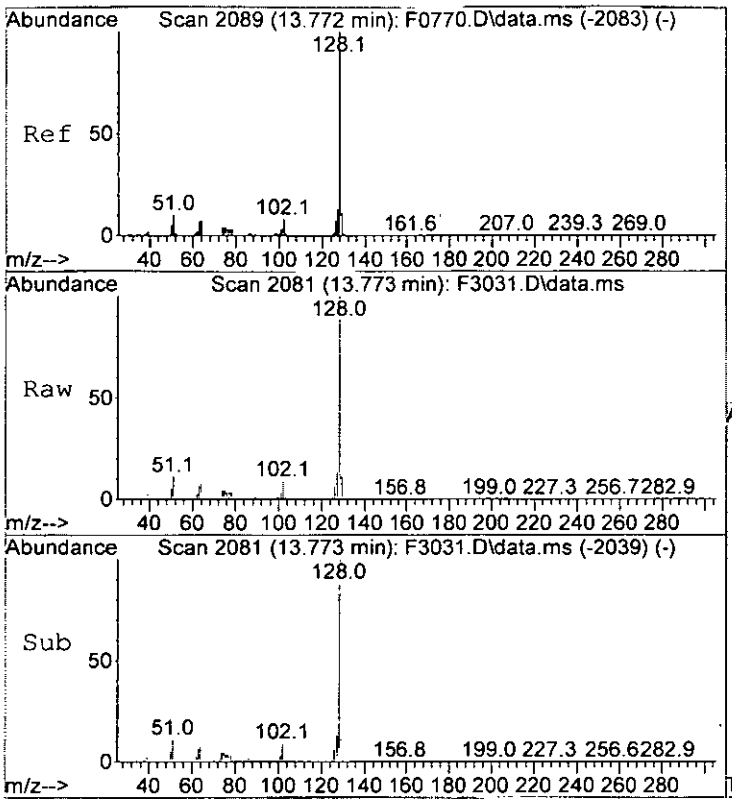
#108
n-Butylbenzene
Concen: 0.20 ug/L
RT: 12.304 min Scan# 1840
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion: 91 Resp: 4972

Ion	Ratio	Lower	Upper
91	100		
92	63.4	35.8	75.8
134	41.5	5.7	45.7



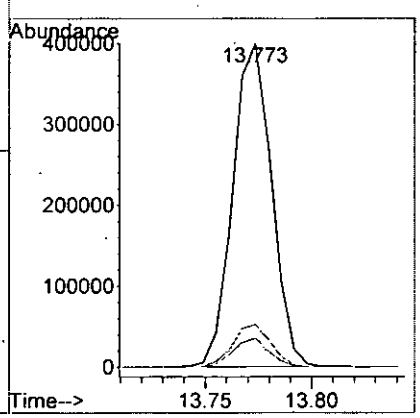
00386



#116
Naphthalen
Concen: 15.28 ug/L
RT: 13.773 min Scan# 2081
Delta R.T. 0.000 min
Lab File: F3031.D
Acq: 12 Oct 2015 3:03 pm

Tgt Ion:128 Resp: 501270

Ion	Ratio	Lower	Upper
128	100		
127	13.1	0.0	32.8
102	8.8	0.0	28.1



00387

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F3031.D\data.ms

FU 10/15/15

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.373	42	47	49	rBV2	94120	148746	2.31%	0.254%
2	1.764	106	111	117	rVB	842189	1062738	16.54%	1.817%
3	1.983	142	147	152	rVB	207521	266509	4.15%	0.456%
4	2.385	207	213	217	rBV2	41733	88000	1.37%	0.150%
5	2.843	281	288	292	rBV	118140	258268	4.02%	0.442%
6	2.891	292	296	299	rVV	199400	376929	5.86%	0.645%
7	2.934	299	303	315	rVB	224740	483558	7.52%	0.827%
8	3.178	333	343	352	rBV2	192355	427838	6.66%	0.732%
9	4.007	474	479	490	rBV4	26529	68131	1.06%	0.117%
10	4.428	538	548	559	rBV	506884	1440461	22.41%	2.463%
11	5.519	716	727	734	rBV2	369215	978799	15.23%	1.674%
12	5.598	734	740	744	rVV2	88662	221767	3.45%	0.379%
13	5.665	744	751	761	rVB	718317	1770093	27.54%	3.027%
14	6.031	802	811	820	rBV	511428	1173599	18.26%	2.007%
15	6.299	851	855	862	rVB4	34059	65122	1.01%	0.111%
16	6.714	915	923	934	rBV	1211168	2388106	37.16%	4.084%
17	7.256	1001	1012	1021	rBV4	73950	194974	3.03%	0.333%
18	7.976	1120	1130	1135	rBV4	33168	67346	1.05%	0.115%
19	8.488	1207	1214	1222	rBV	1967874	3253805	50.63%	5.564%
20	8.561	1222	1226	1234	rVB	166052	250245	3.89%	0.428%
21	9.957	1449	1455	1465	rVB	2120635	2840996	44.20%	4.858%
22	10.097	1472	1478	1490	rBV	4020189	5510053	85.73%	9.423%
23	10.213	1490	1497	1503	rVB	2992745	3836091	59.69%	6.560%
24	10.567	1548	1555	1562	rBV	4919427	6426992	100.00%	10.991%
25	10.896	1603	1609	1614	rVB	260283	327992	5.10%	0.561%
26	11.018	1622	1629	1635	rBV	1793505	2219581	34.54%	3.796%
27	11.250	1662	1667	1673	rVB	382013	467171	7.27%	0.799%
28	11.329	1673	1680	1681	rBV	323730	418961	6.52%	0.716%
29	11.347	1681	1683	1688	rVV	453010	511842	7.96%	0.875%
30	11.402	1688	1692	1697	rVB	91623	115456	1.80%	0.197%
31	11.567	1713	1719	1730	rVB	1747096	2065307	32.13%	3.532%
32	11.707	1737	1742	1749	rBV	3682280	4670132	72.66%	7.987%
33	11.932	1775	1779	1783	rBV	68124	82447	1.28%	0.141%
34	11.987	1783	1788	1794	rVB	2512019	3006477	46.78%	5.141%
35	12.054	1794	1799	1805	rBV	2160378	2566501	39.93%	4.389%

00388

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	12.213	1817	1825	1833	rVV	2582798	3142137	48.89%	5.373%
37	12.286	1833	1837	1843	rVB3	76254	125698	1.96%	0.215%
38	12.383	1848	1853	1858	rBV2	151295	195700	3.04%	0.335%
39	12.438	1858	1862	1867	rVB	91092	109929	1.71%	0.188%
40	12.505	1867	1873	1875	rBV	146711	179897	2.80%	0.308%
41	12.530	1875	1877	1882	rVB	115067	130032	2.02%	0.222%
42	12.591	1882	1887	1890	rBV2	346172	404432	6.29%	0.692%
43	12.627	1890	1893	1896	rVB	73270	86782	1.35%	0.148%
44	12.682	1896	1902	1909	rBV2	311989	454125	7.07%	0.777%
45	12.828	1921	1926	1932	rBV	105352	139771	2.17%	0.239%
46	12.908	1932	1939	1942	rBV	259669	319058	4.96%	0.546%
47	12.944	1942	1945	1951	rVB	330255	397494	6.18%	0.680%
48	13.158	1976	1980	1984	rVB	233438	271882	4.23%	0.465%
49	13.280	1995	2000	2006	rVB2	759300	1004905	15.64%	1.719%
50	13.414	2017	2022	2029	rVB2	119717	149607	2.33%	0.256%
51	13.773	2073	2081	2092	rVB	829821	1067029	16.60%	1.825%
52	14.785	2242	2247	2254	rVB	193590	245576	3.82%	0.420%

Sum of corrected areas: 58475087

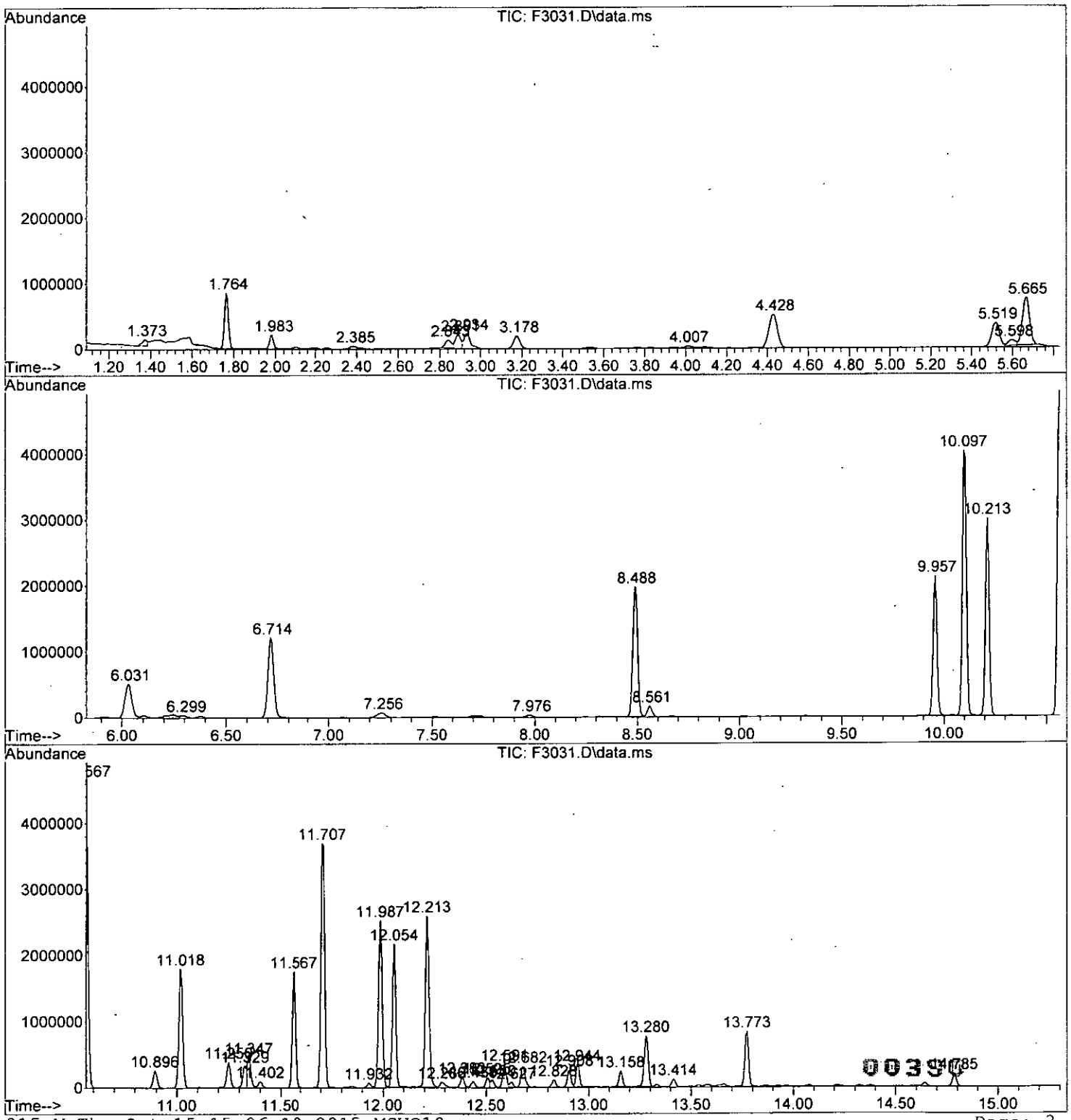
00389

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

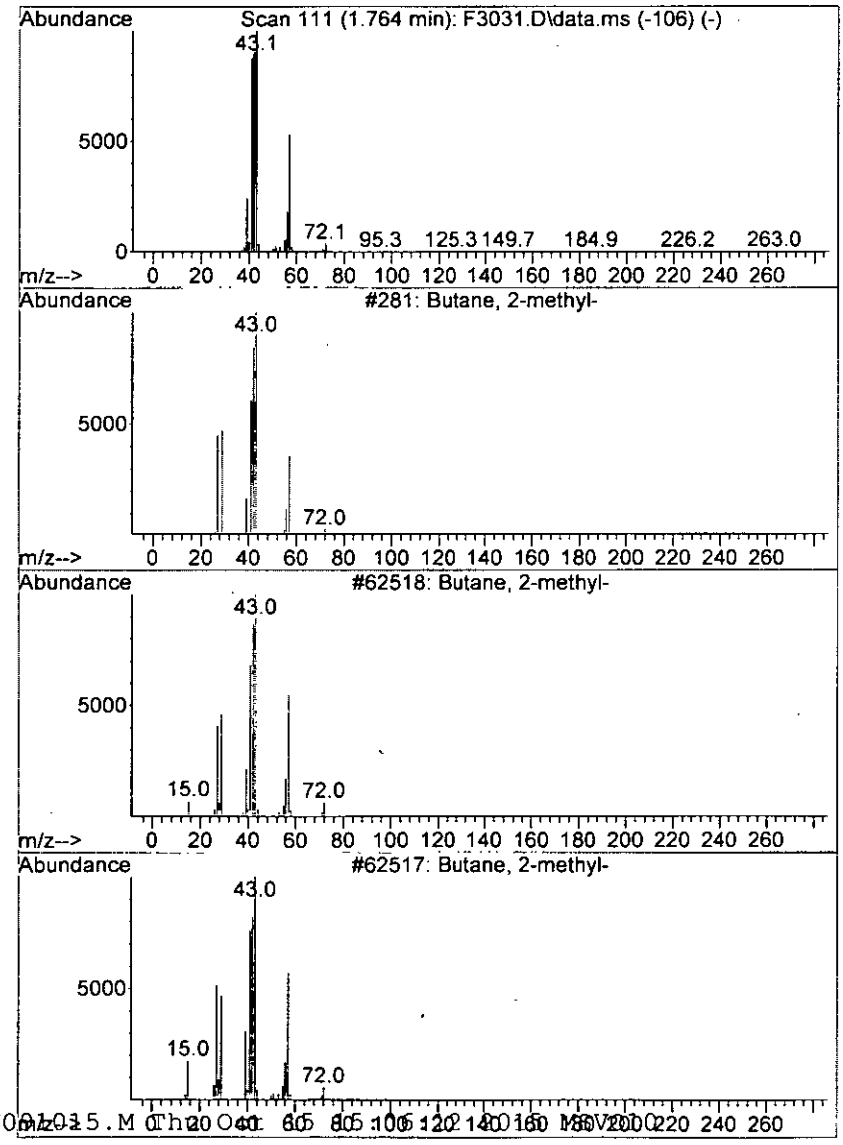
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

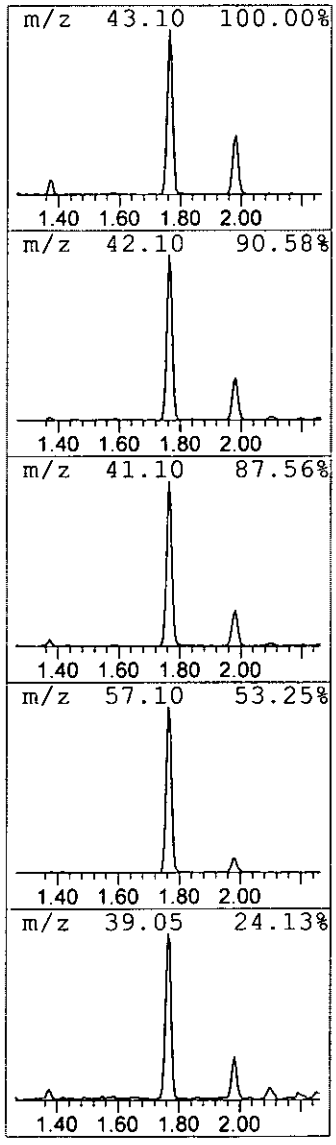
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Peak Number 1 Butane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.764	30.02 ug/L	1062740	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	56
3	Butane, 2-methyl-	72	C5H12	000078-78-4	40
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	9
5	Propane, 2-methyl-2-nitro-	103	C4H9NO2	000594-70-7	9





00391

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

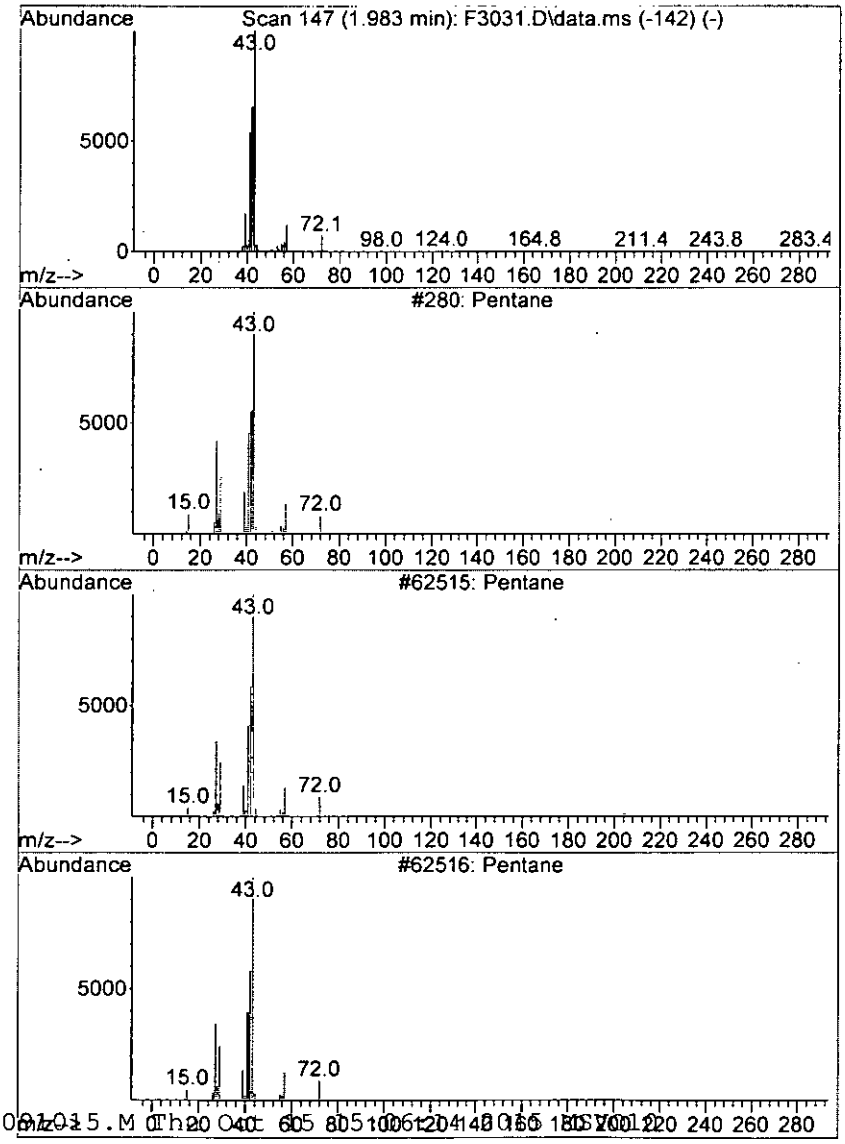
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TIC Integration Parameters: LSCINT.P

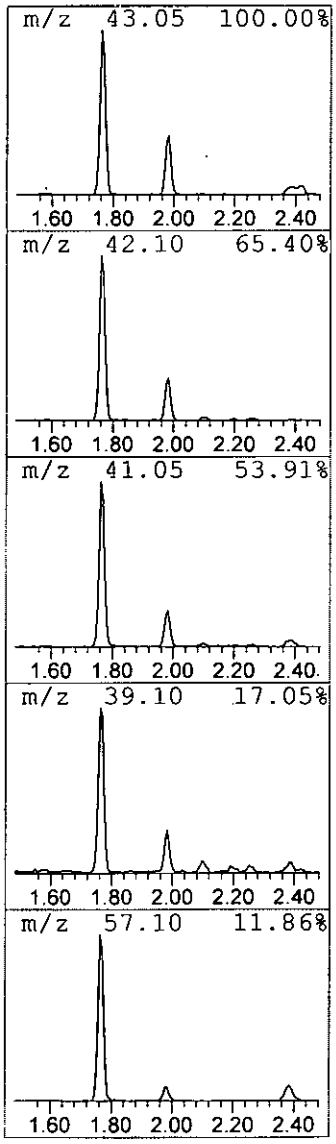
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Peak Number 2 Pentane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.983	7.53 ug/L	266509	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	86
2	Pentane	72	C5H12	000109-66-0	72
3	Pentane	72	C5H12	000109-66-0	72
4	Butane, 2-methyl-	72	C5H12	000078-78-4	40
5	3-Buten-1-ol	72	C4H8O	000627-27-0	23





00392

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

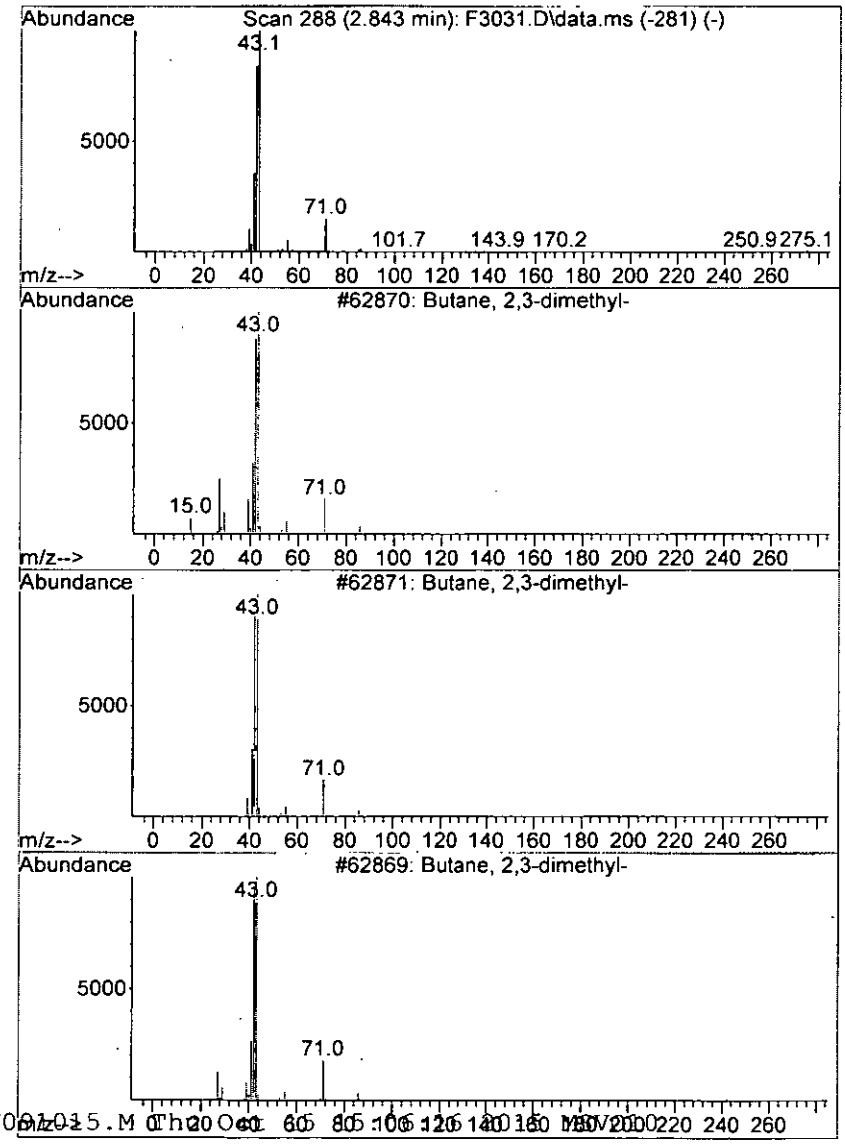
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

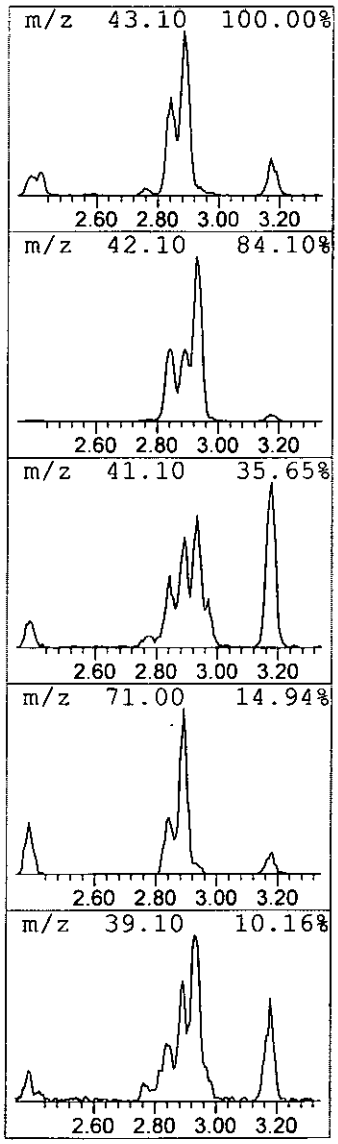
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Peak Number 3 Butane, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.843	7.30 ug/L	258268	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	56
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	43
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	43
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	7
5	(Aminomethyl)cyclopropane	71	C4H9N	002516-47-4	4





00393

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

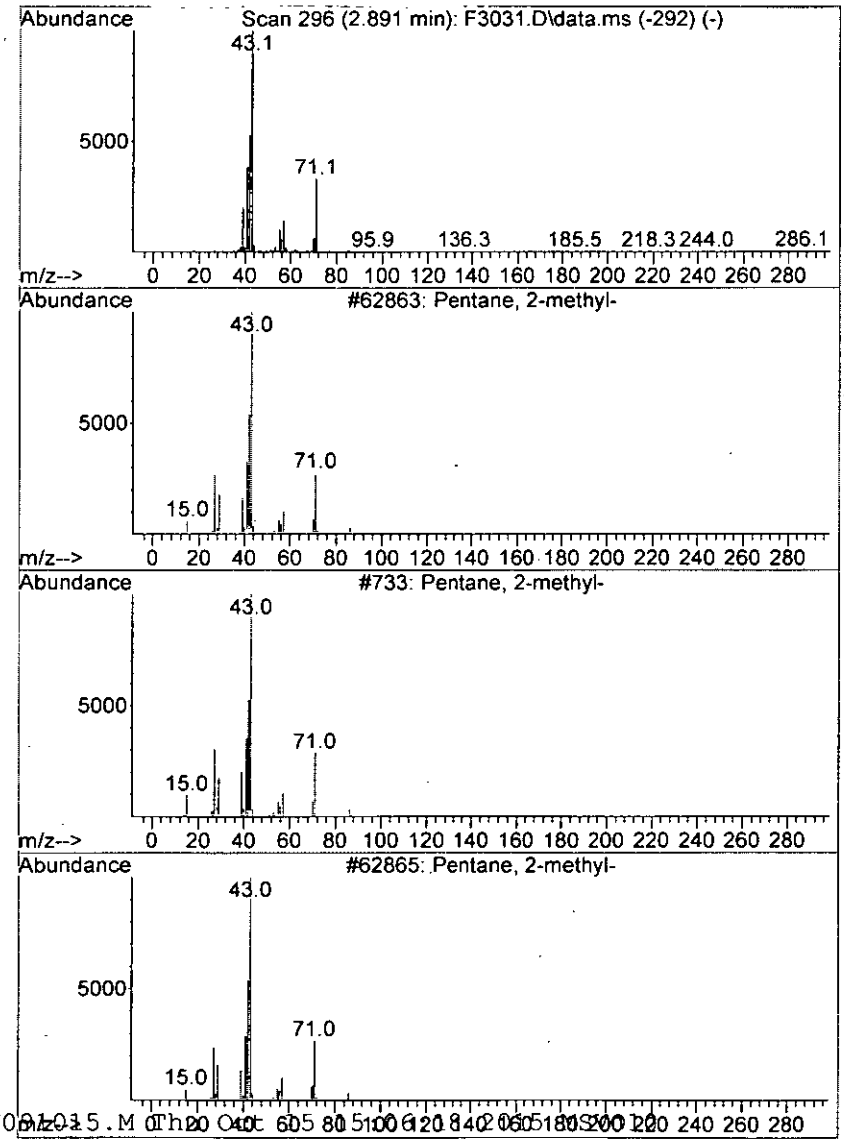
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

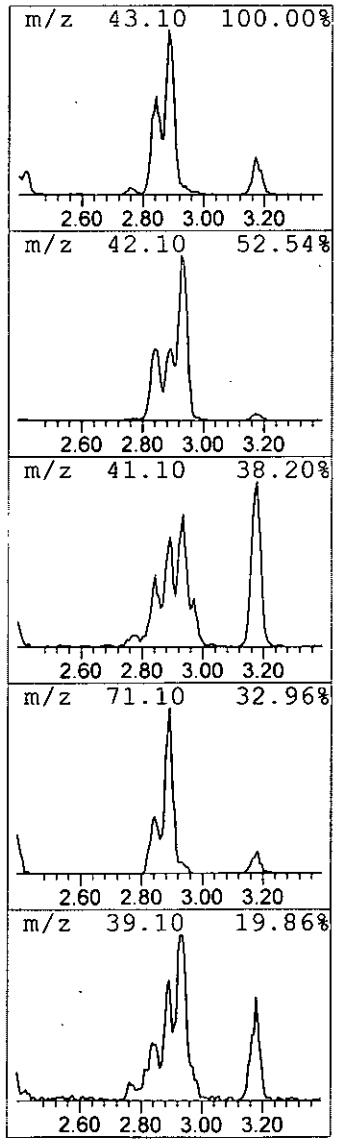
****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.891	10.65 ug/L	376929	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
* 2	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	64
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	50
5	Pentane	72	C5H12	000109-66-0	42





00394

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

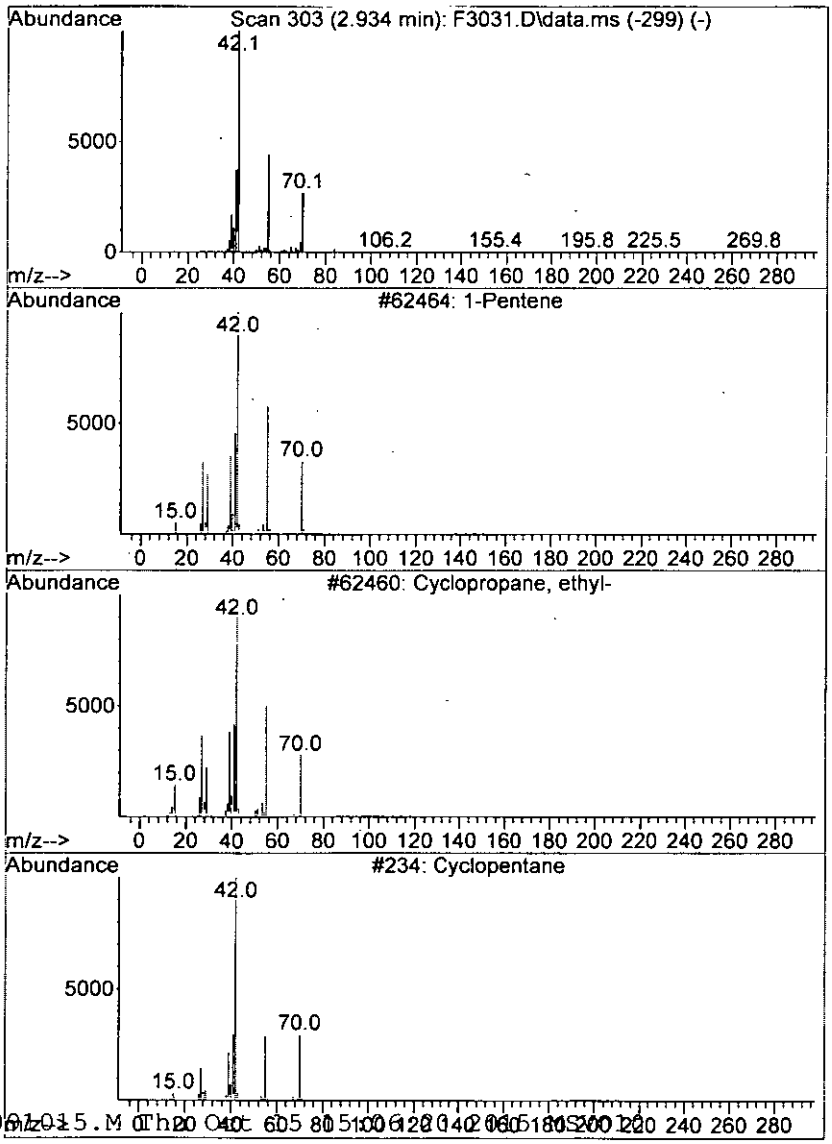
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TIC Integration Parameters: LSCINT.P

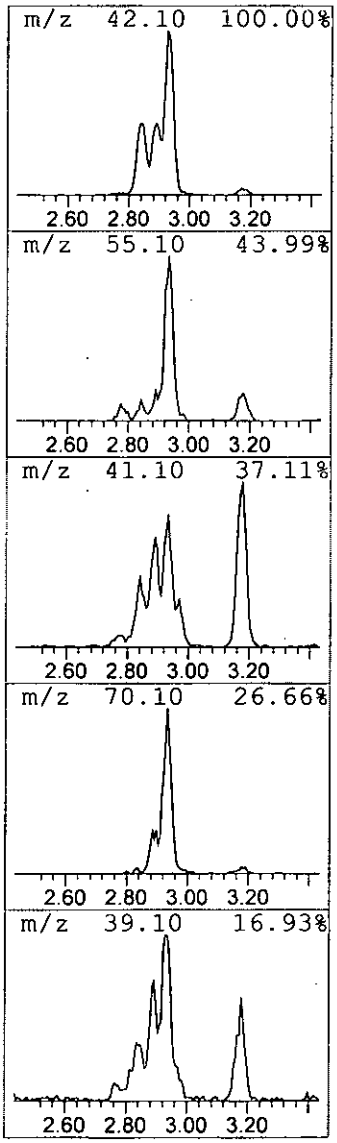
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Peak Number 5 1-Pentene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.934	13.66 ug/L	483558	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene	70	C5H10	000109-67-1	86
2	Cyclopropane, ethyl-	70	C5H10	001191-96-4	72
3	Cyclopentane	70	C5H10	000287-92-3	72
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	56
5	1-Pentene	70	C5H10	000109-67-1	56





00395

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

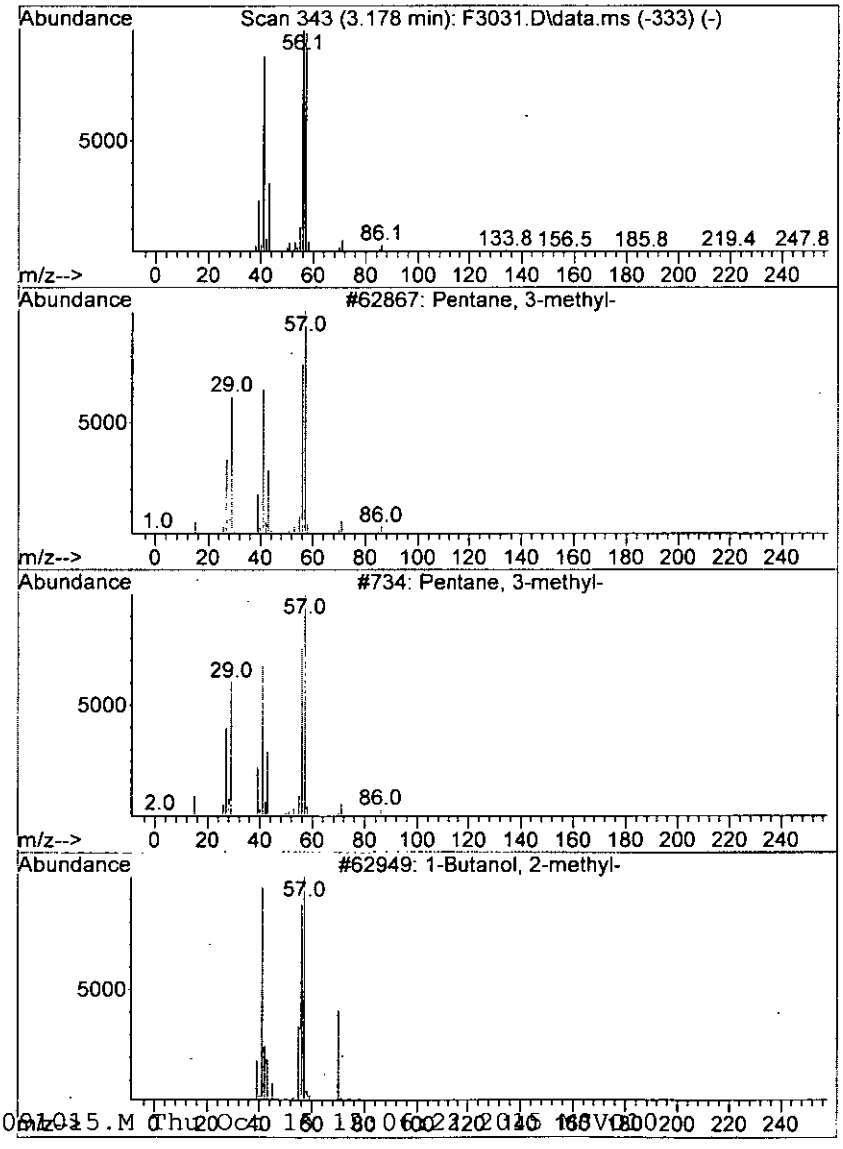
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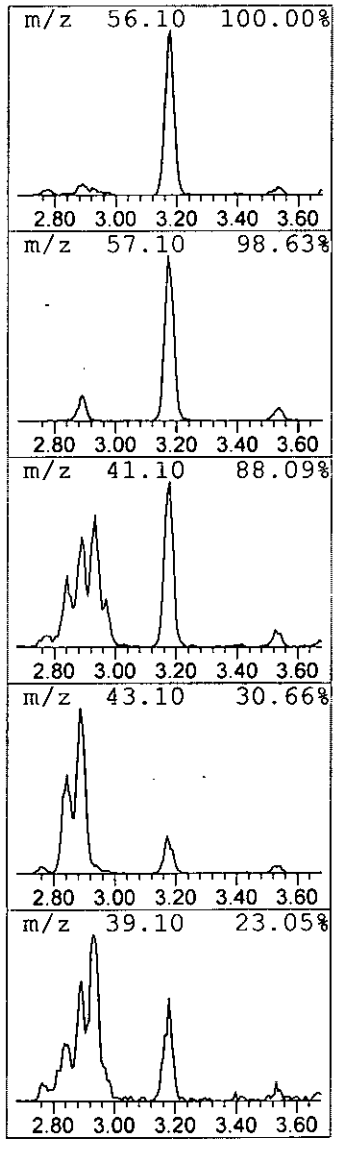
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Peak Number 6 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.178	12.09 ug/L	427838	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	72
3	1-Butanol, 2-methyl-	88	C5H12O	000137-32-6	56
4	Pentane, 3-methyl-	86	C6H14	000096-14-0	47
5	Oxetane, 3,3-dimethyl-	86	C5H10O	006921-35-3	45





00396

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

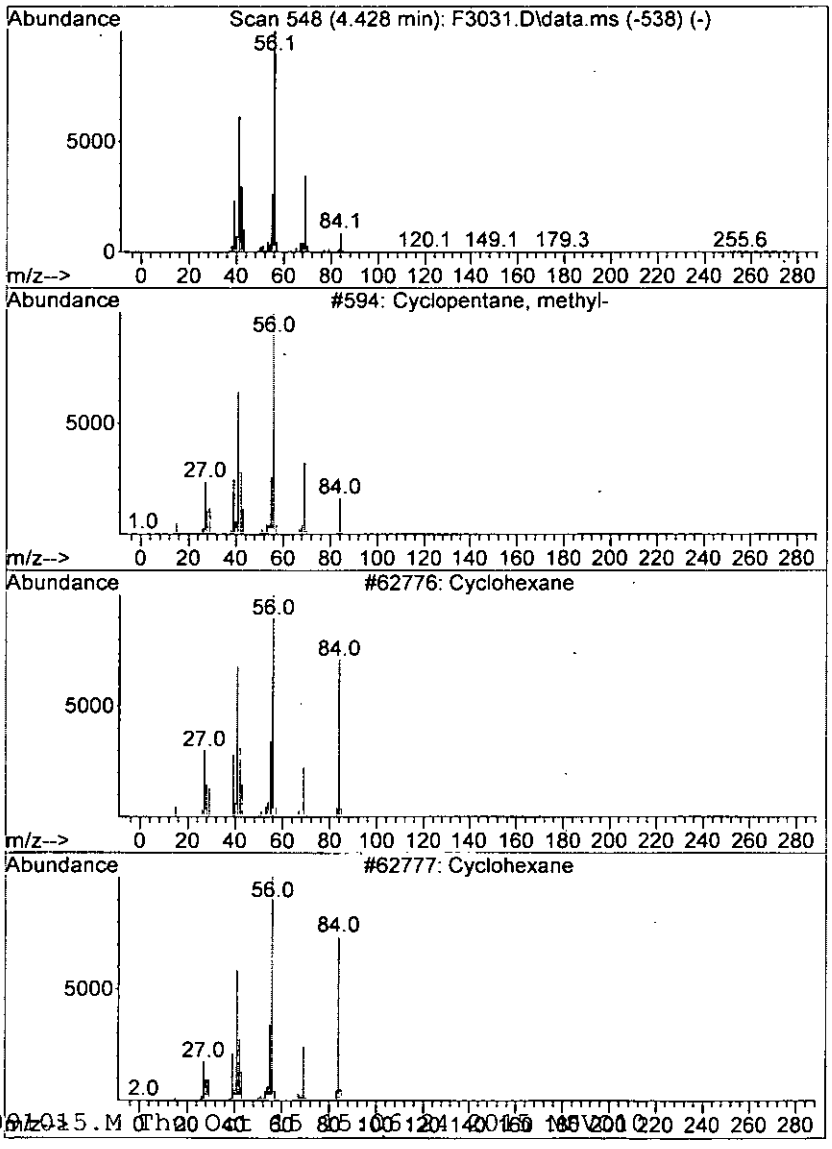
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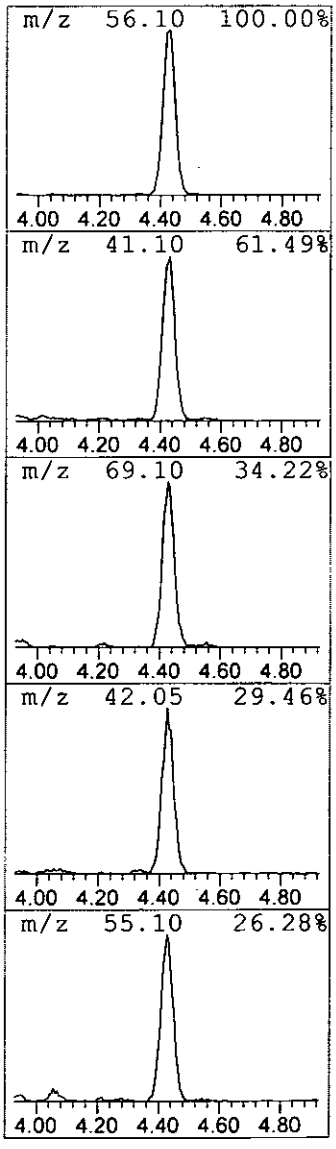
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Peak Number 7 Cyclopentane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.428	40.69 ug/L	1440460	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclohexane	84	C6H12	000110-82-7	83
3	Cyclohexane	84	C6H12	000110-82-7	83
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
5	Cyclopropane, propyl-	84	C6H12	002415-72-7	78





00397

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

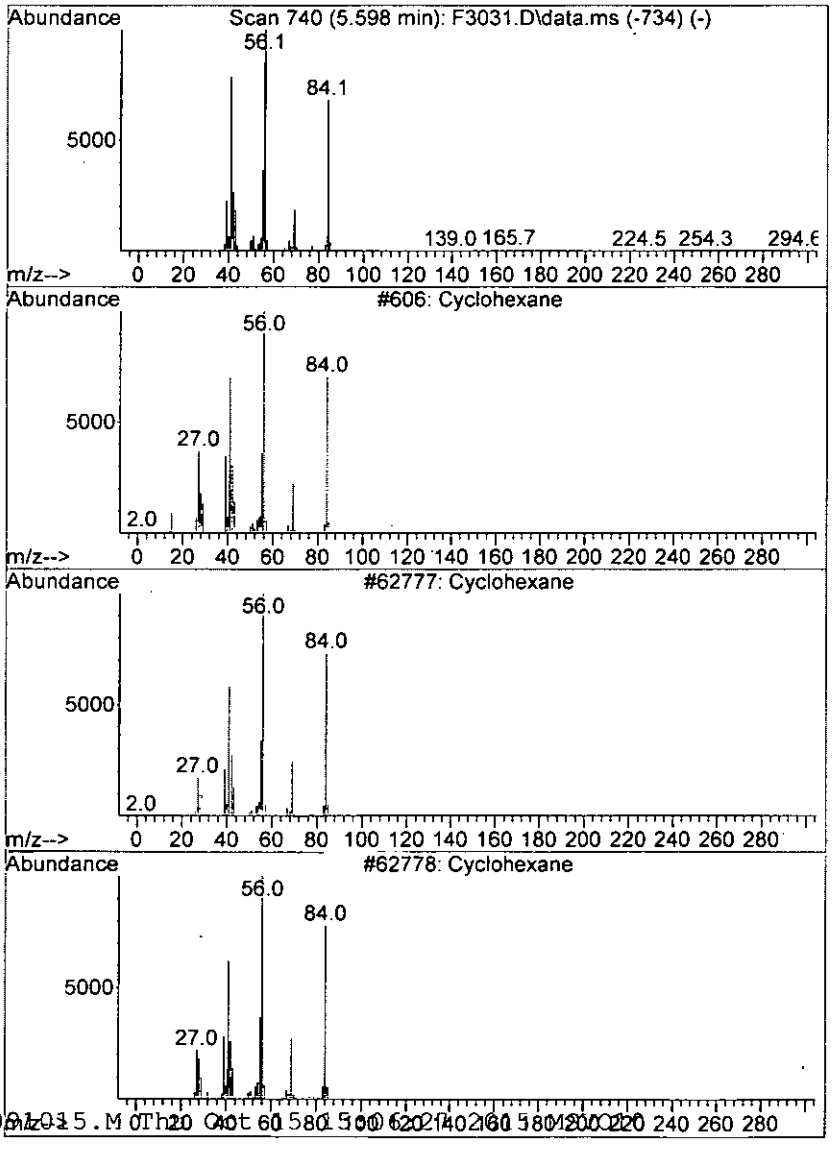
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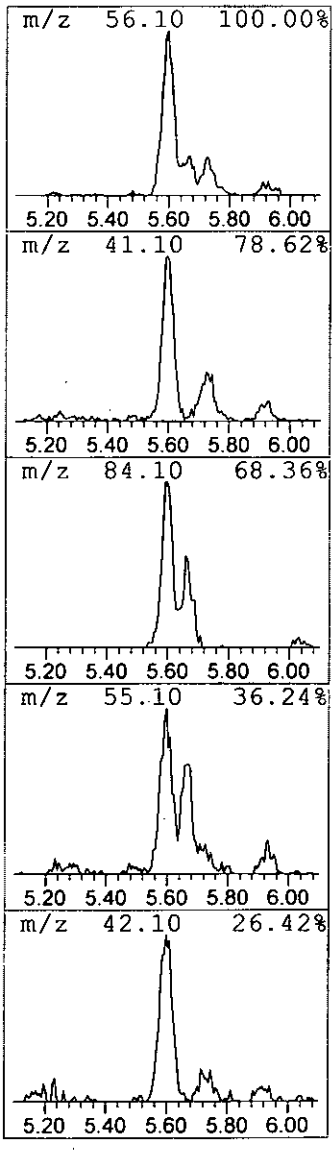
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Peak Number 8 Cyclohexane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.598	6.26 ug/L	221767	Pentafluorobenzene	5.665

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane	84	C6H12	000110-82-7	91
2	Cyclohexane	84	C6H12	000110-82-7	91
3	Cyclohexane	84	C6H12	000110-82-7	86
4	Cyclohexane	84	C6H12	000110-82-7	80
5	Cyclohexane	84	C6H12	000110-82-7	78





00398

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

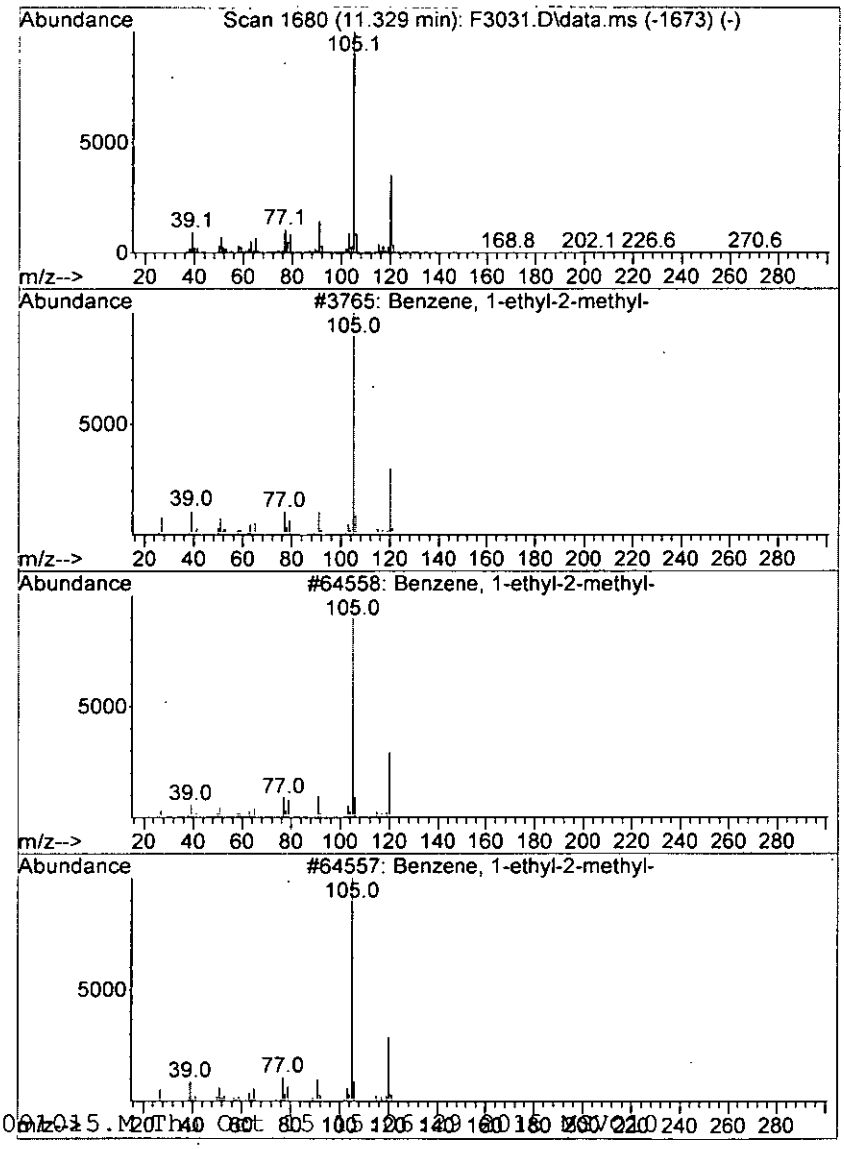
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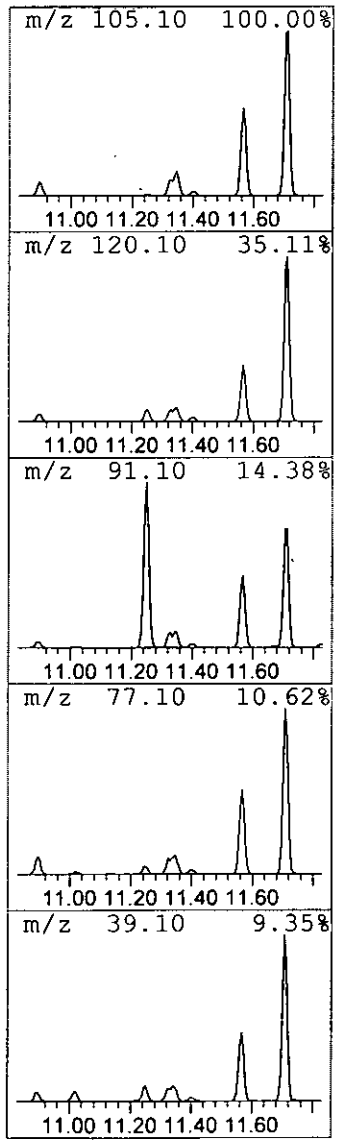
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Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.329	6.97 ug/L	418961	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
5	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	93





00399

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

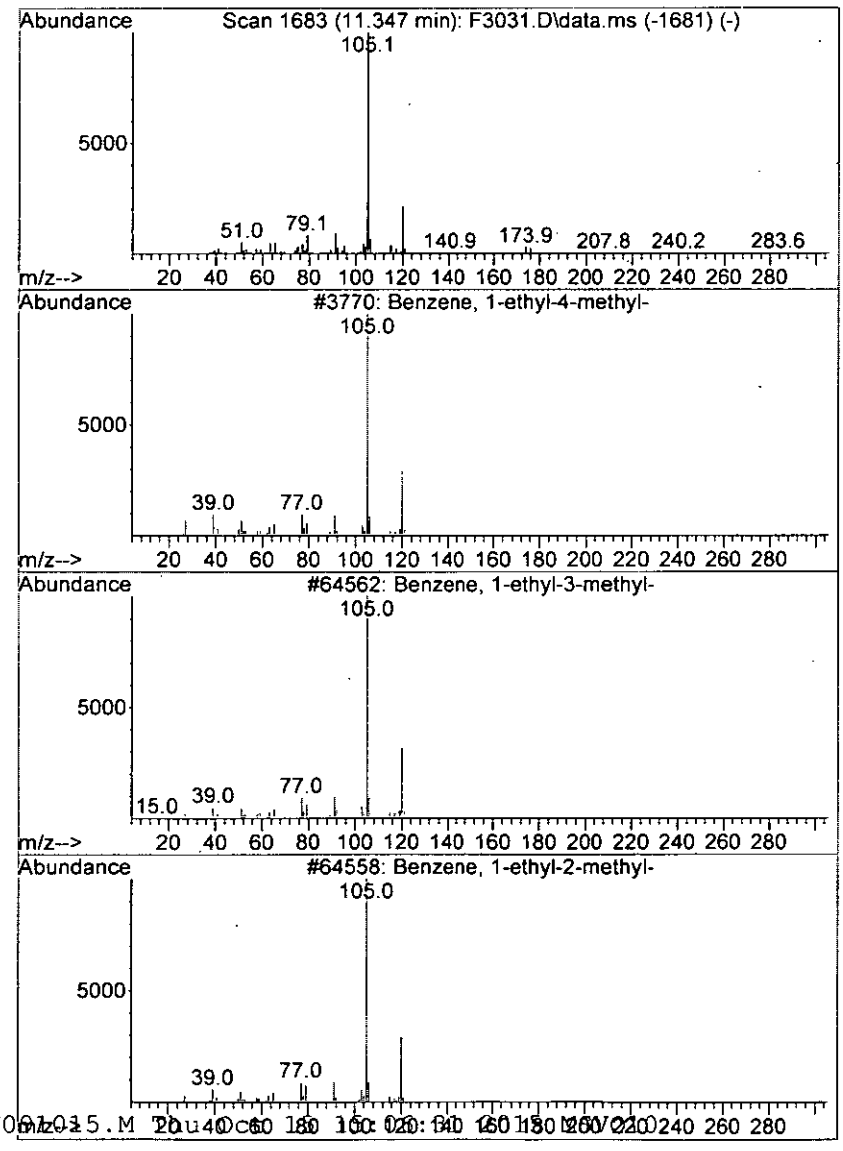
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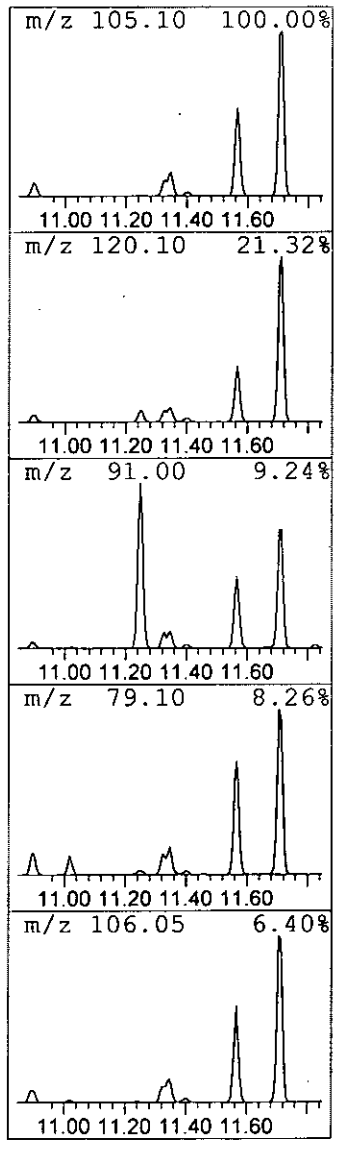
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Peak Number 10 Benzene, 1-ethyl-4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.347	8.51 ug/L	511842	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	87
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	83
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	83





00400

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

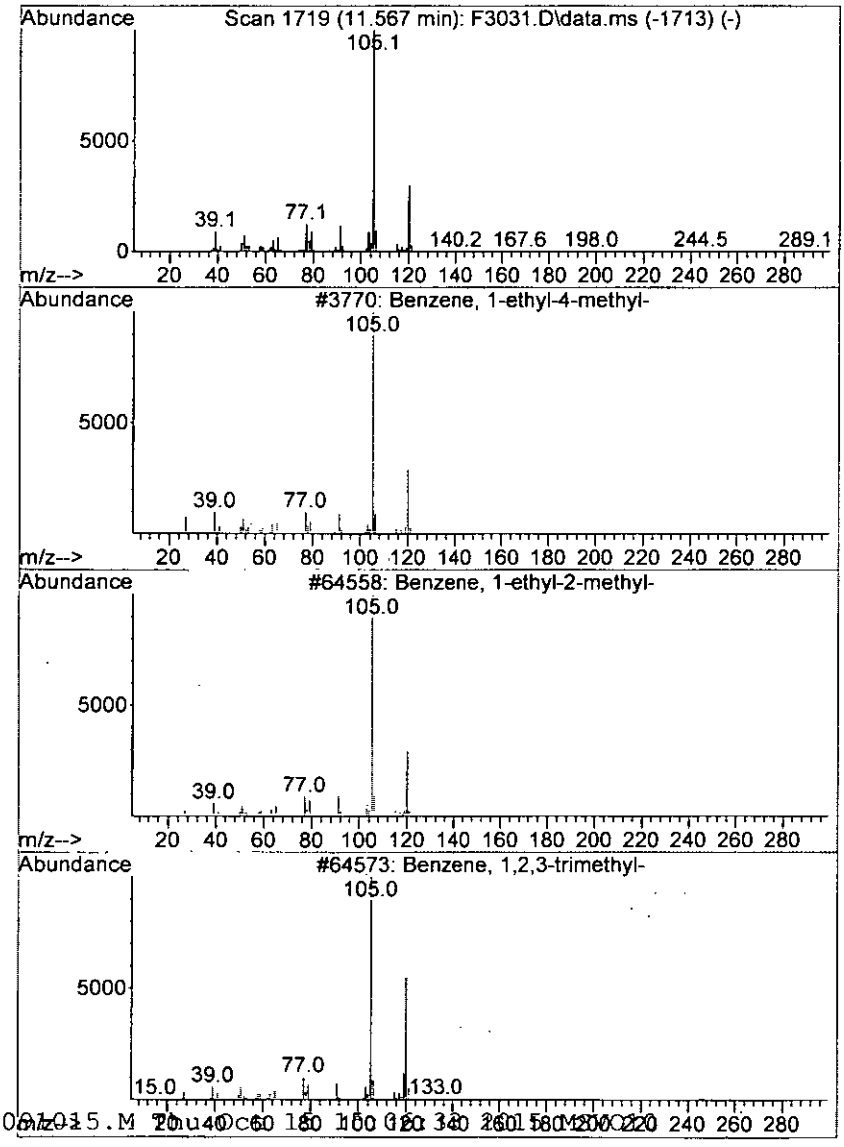
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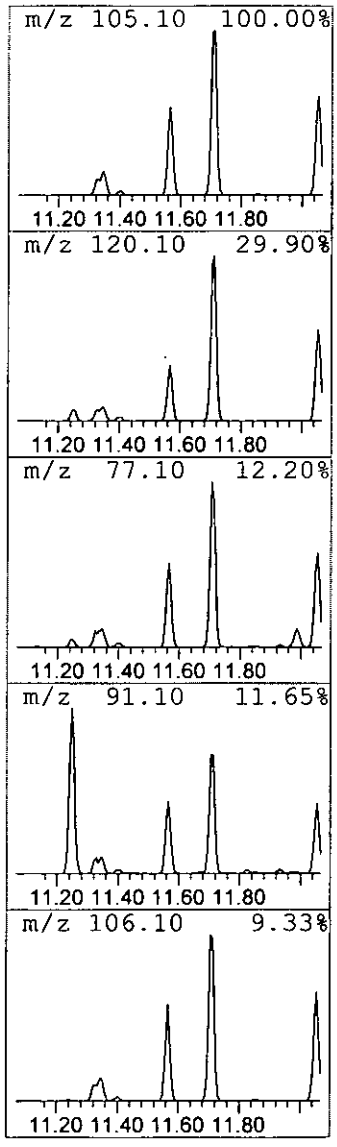
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Peak Number 11 Benzene, 1-ethyl-4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.567	34.35 ug/L	2065310	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91





00401

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

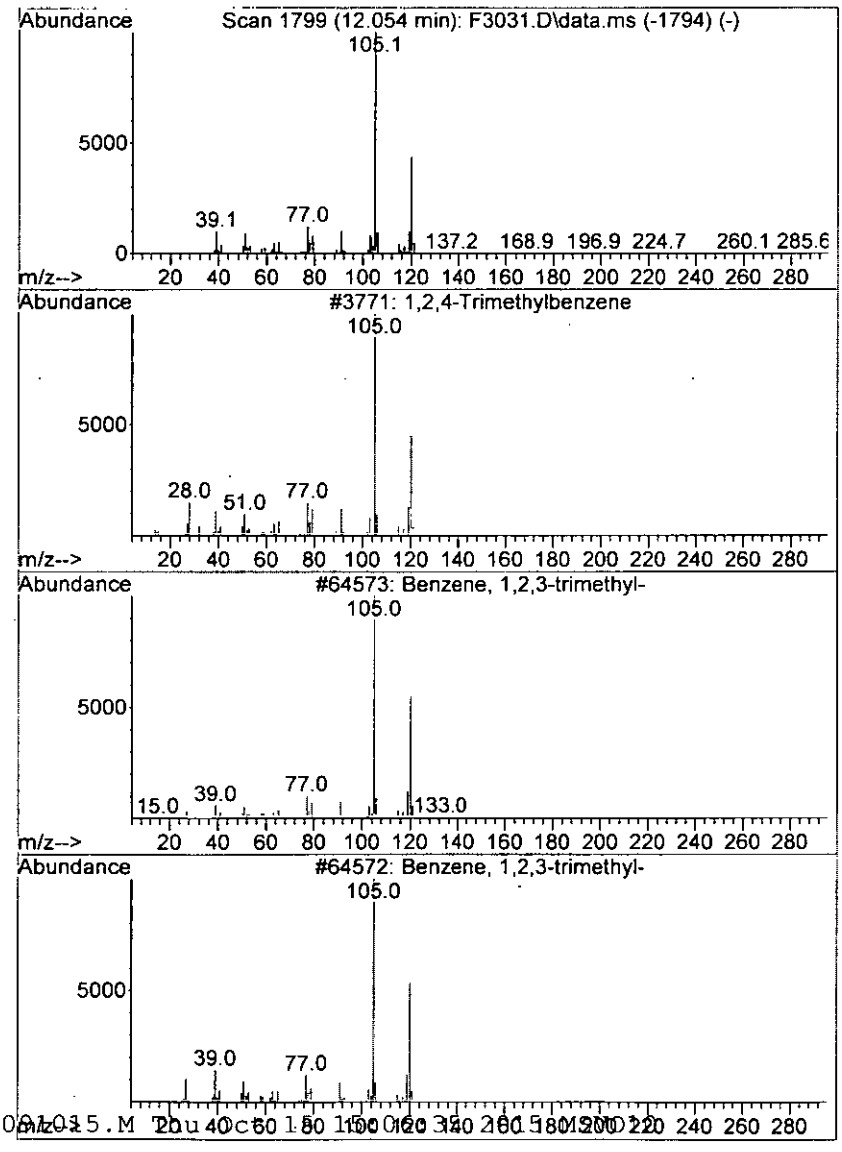
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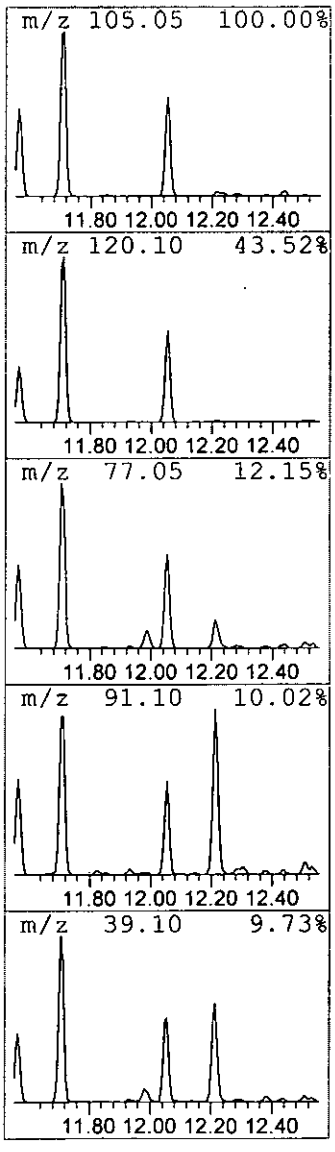
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Peak Number 12 1,2,4-Trimethylbenzene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.054	42.68 ug/L	2566500	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	97
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	93
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93





00402

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

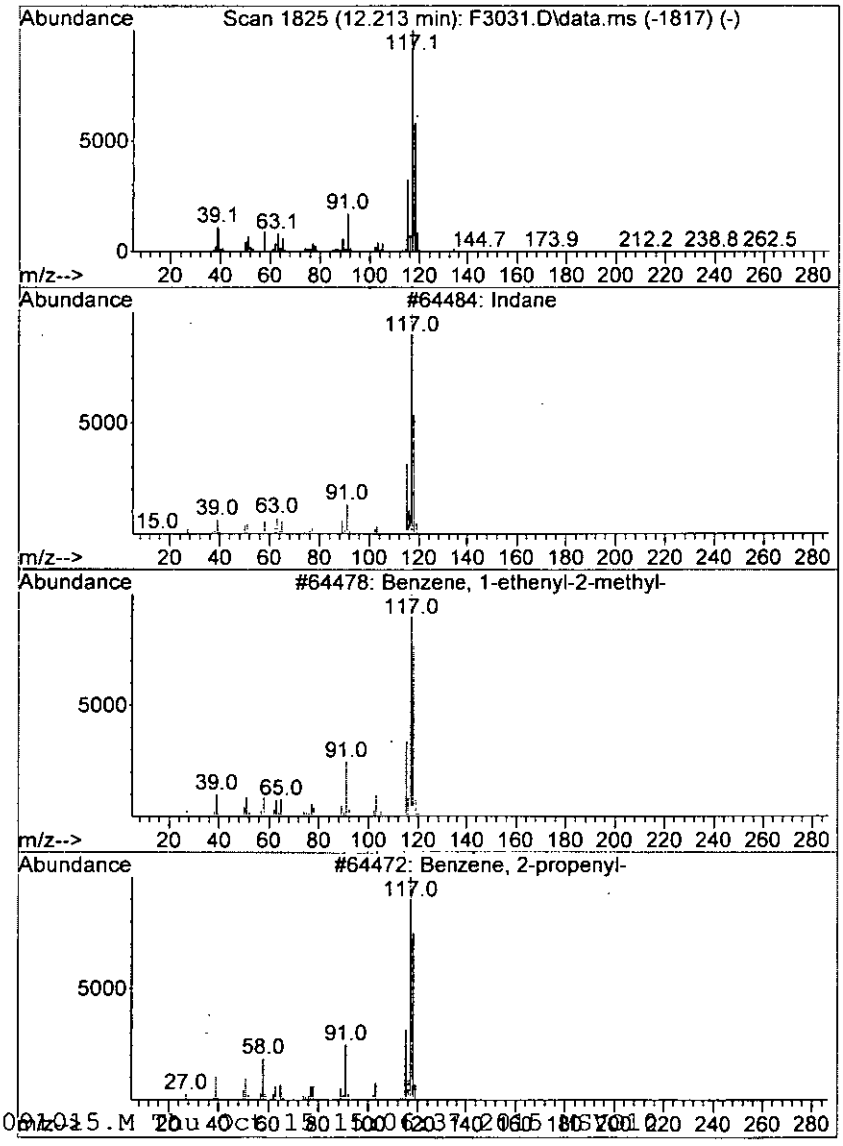
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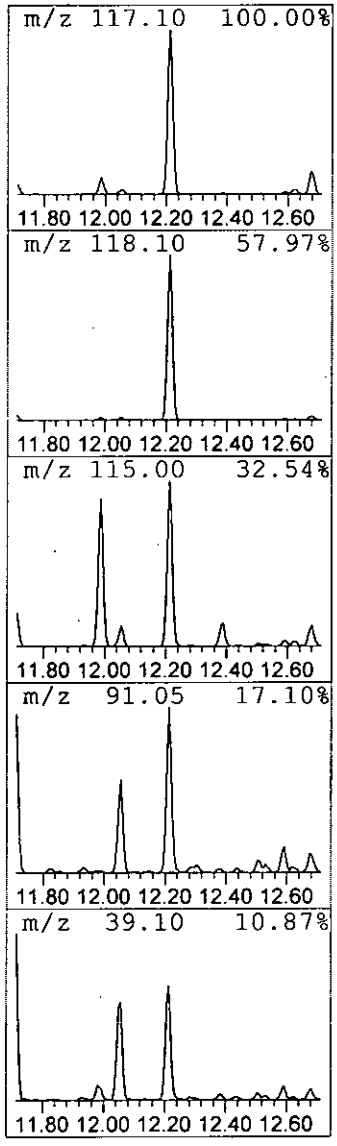
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Peak Number 13 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.213	52.26 ug/L	3142140	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	81
2	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	74
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
4	Benzene, 1-propenyl-, (E)-	118	C9H10	000873-66-5	59
5	Benzene, ethenylmethyl-	118	C9H10	025013-15-4	49





00403

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

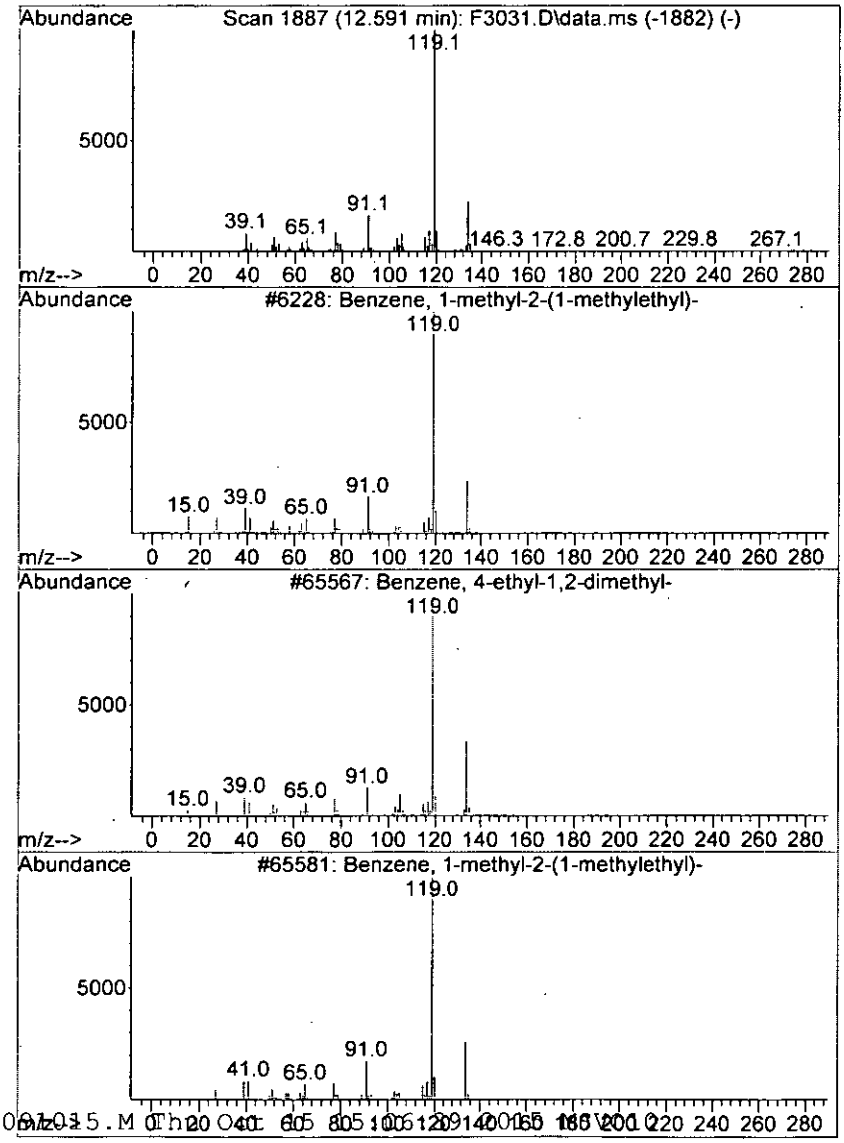
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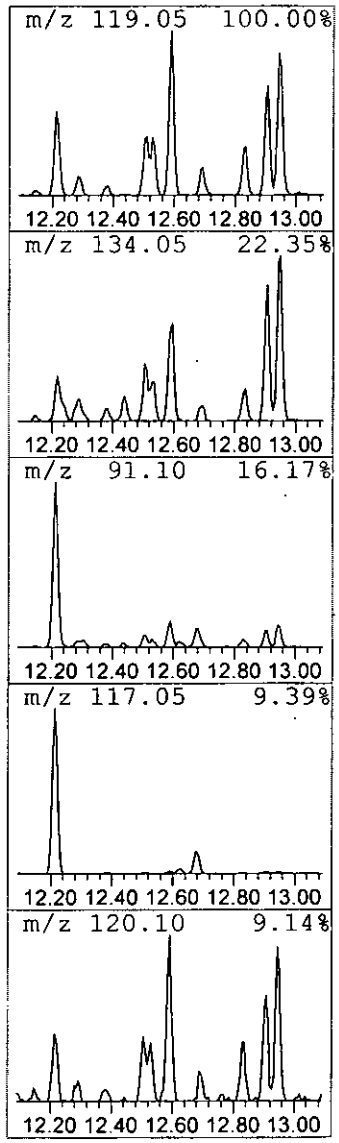
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Peak Number 14 Benzene, 1-methyl-2-(1-meth... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	6.73 ug/L	404432	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
3	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
5	Benzene, methyl(1-methylethyl)-	134	C10H14	025155-15-1	94





00404

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

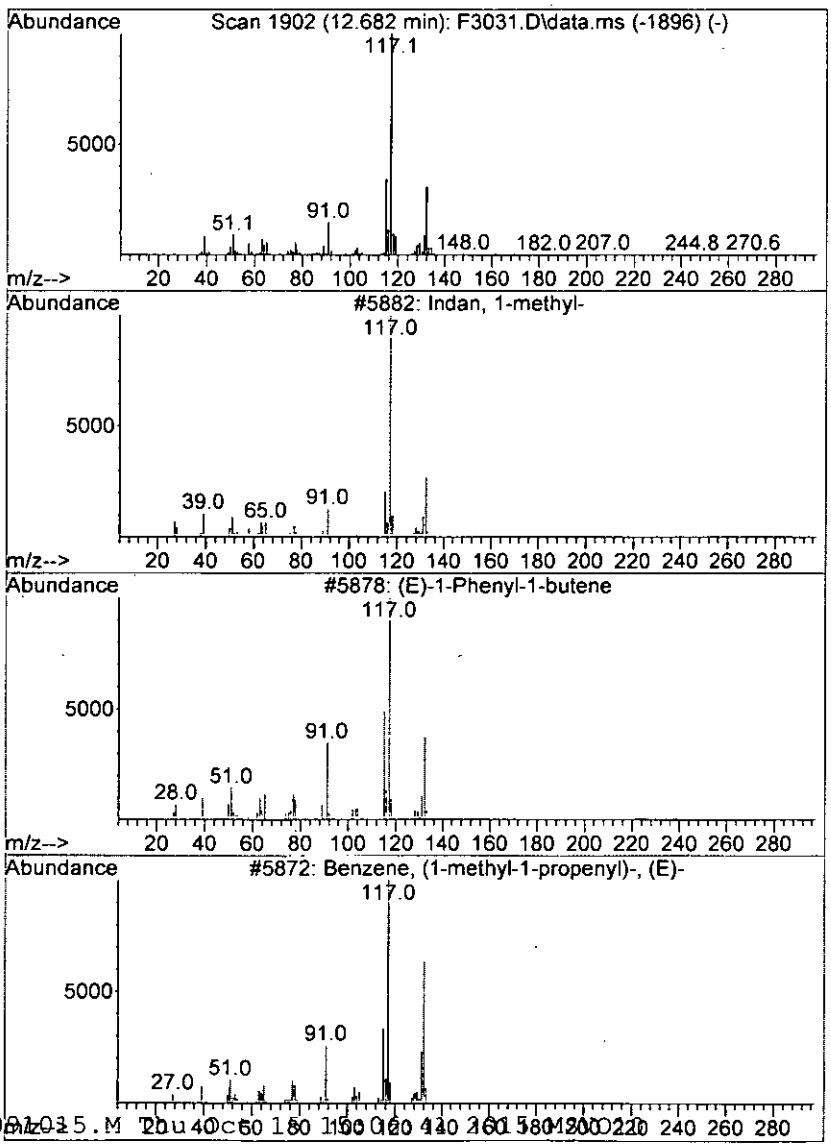
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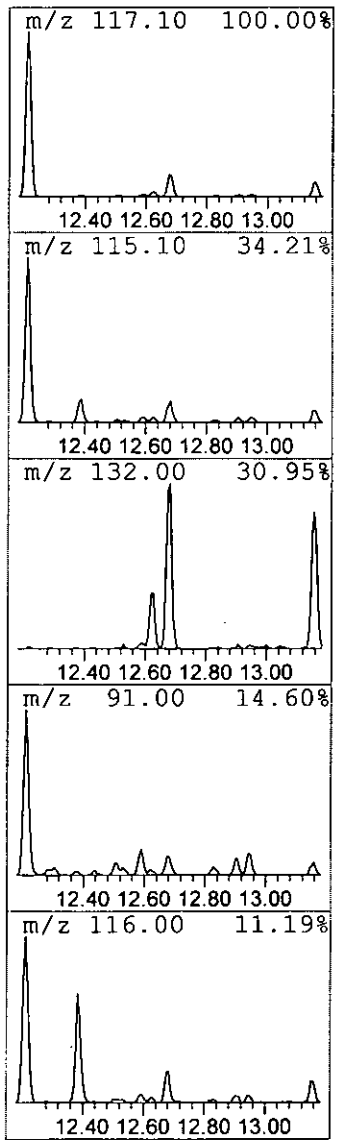
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Peak Number 15 Indan, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.682	7.55 ug/L	454125	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	91
2	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	87
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	87
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	86
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	80





00405

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

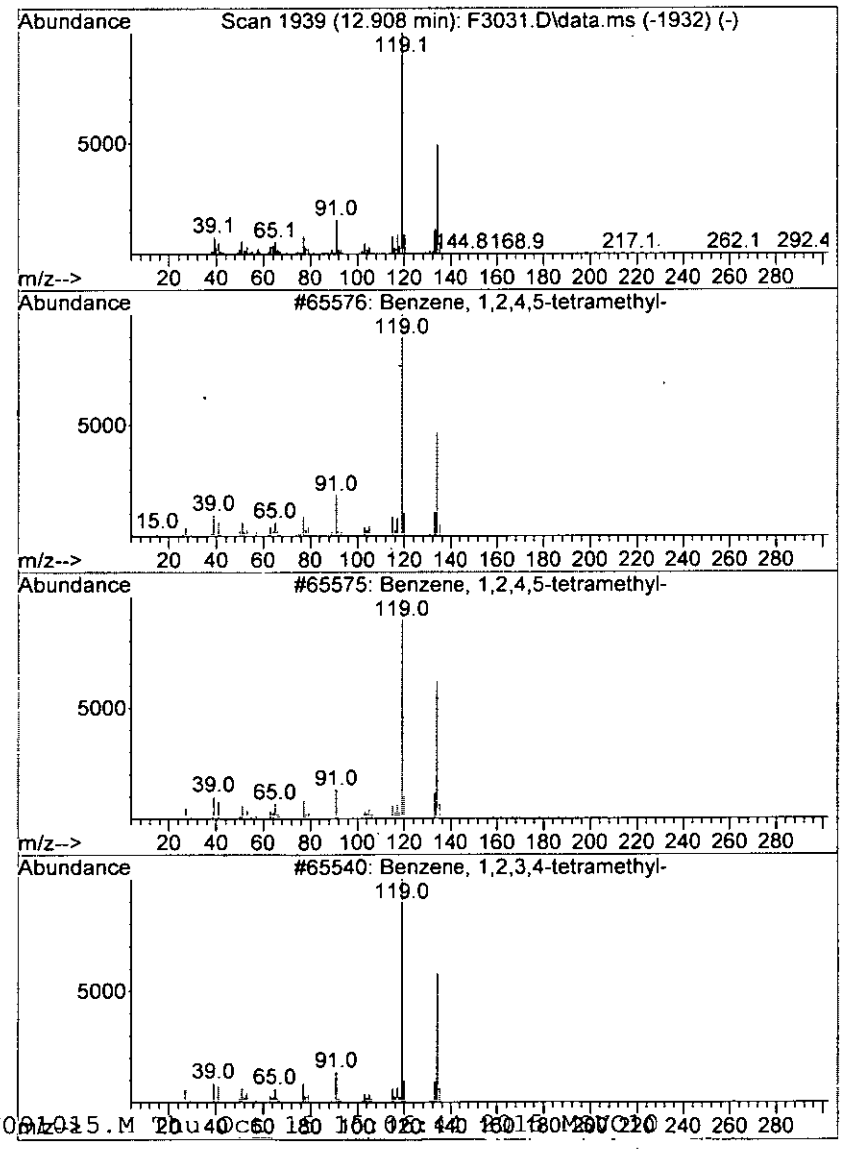
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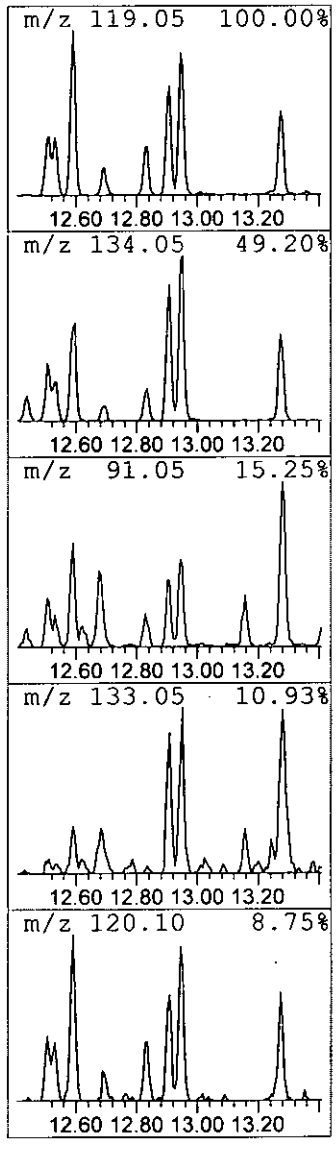
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Peak Number 16 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.908	5.31 ug/L	319058	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
5	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94





00406

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

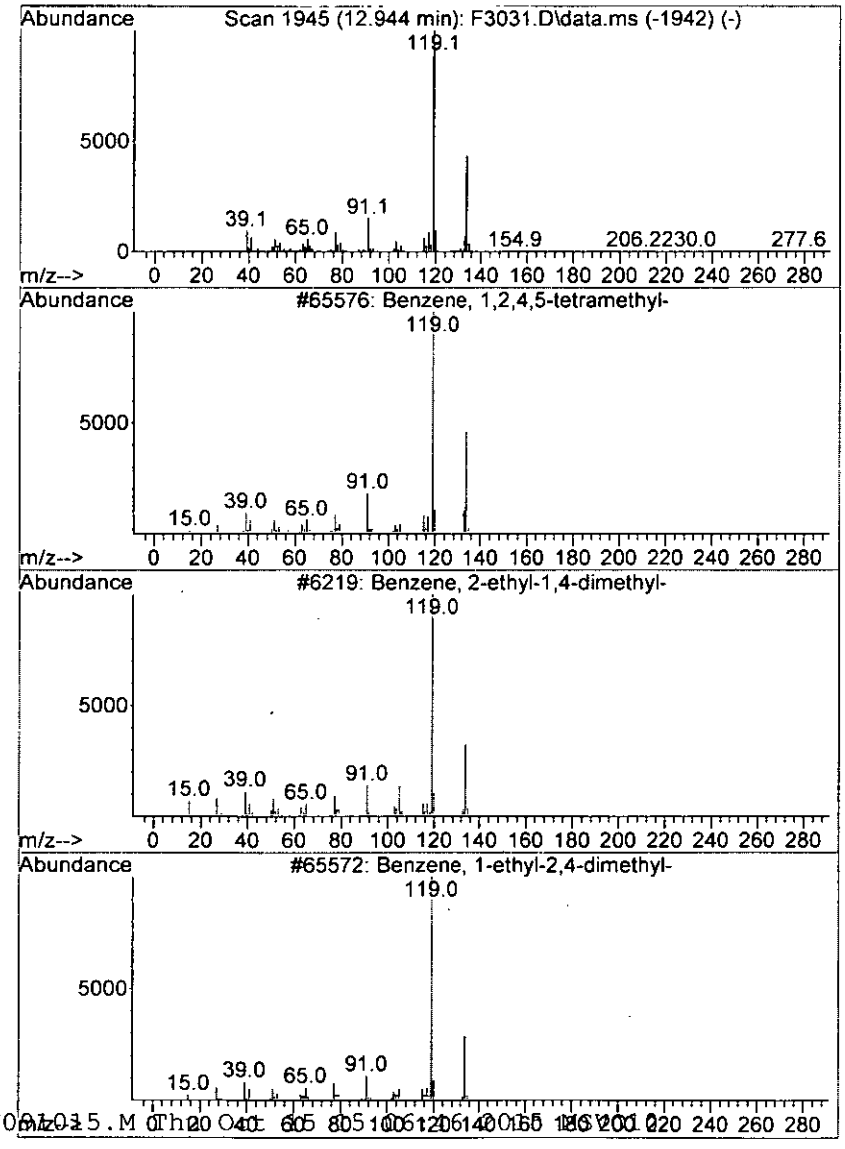
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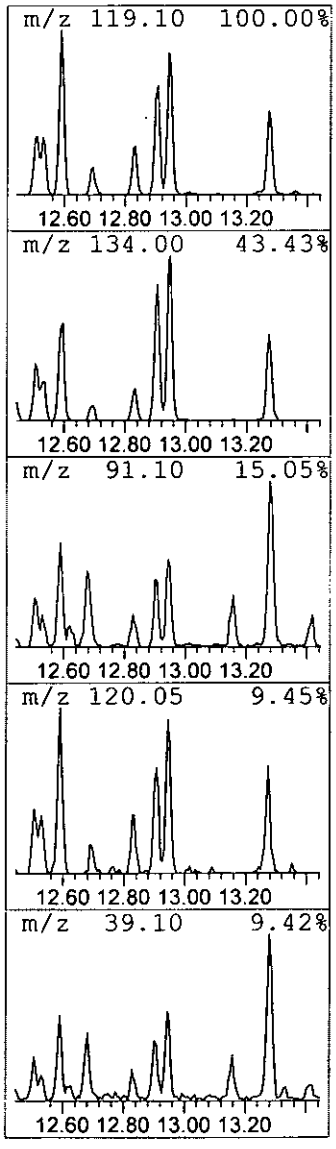
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Peak Number 17 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.944	6.61 ug/L	397494	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	93
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





00407

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3031.D
Acq On : 12 Oct 2015 3:03 pm
Operator : F. Naegler
Sample : R1508244-018|2.5 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

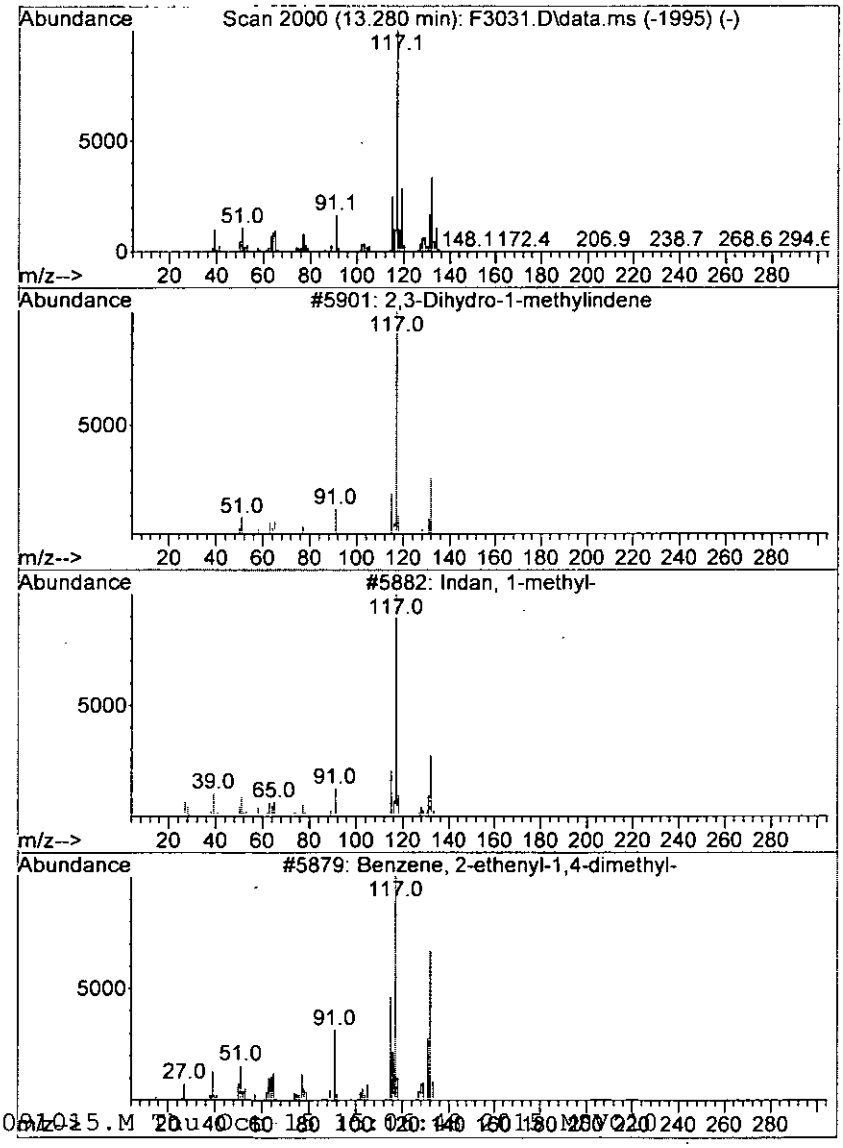
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

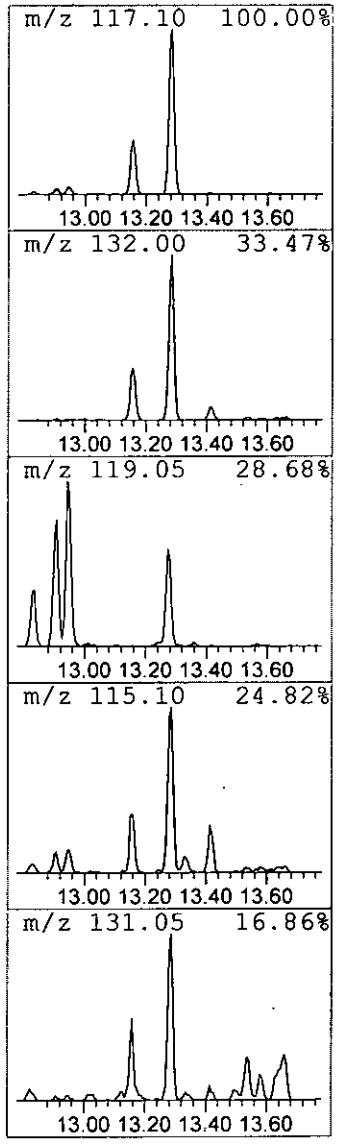
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Peak Number 18 2,3-Dihydro-1-methylindene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.280	16.71 ug/L	1004910	1,4-Dichlorobenzene-d4	11.987

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	95
2	Indan, 1-methyl-	132	C10H12	000767-58-8	93
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
4	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87
5	Indan, 1-methyl-	132	C10H12	000767-58-8	76





00408

ALS Environmental

VOLATILE ORGANICS STANDARDS DATA

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

00409

Initial Calibration - Summary Report

Calibration ID: RC1500091 9/10/15 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3582	<=20	11.6
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7563	<=20	4.0
1,1,2,2-Tetrachloroethane	T	Linear	1/X2	0.300	0.8529	>=0.99	0.9959
1,1,2-Trichloroethane	T	Average RF		0.100	0.3308	<=20	7.5
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4565	<=20	9.9
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9591	<=20	6.1
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4091	<=20	6.5
1,1-Dichloropropene	T	Average RF			0.4503	<=20	5.3
1,2,3-Trichlorobenzene	T	Average RF			1.260	<=20	8.1
1,2,3-Trichloropropane	T	Average RF			0.3313	<=20	6.0
1,2,4-Trichlorobenzene	T	Average RF		0.200	1.272	<=20	10.5
1,2,4-Trimethylbenzene	T	Average RF			2.604	<=20	12.9
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.2540	<=20	11.9
1,2-Dibromoethane	T	Average RF		0.100	0.4077	<=20	4.5
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5881	<=20	7.0
1,2-Dichlorobenzene	T	Average RF		0.400	1.591	<=20	8.4
1,2-Dichloroethane	T	Average RF		0.100	0.6042	<=20	4.0
1,2-Dichloropropane	T	Average RF		0.100	0.3899	<=20	4.7
1,3,5-Trichlorobenzene	T	Average RF			1.293	<=20	9.6
1,3,5-Trimethylbenzene	T	Average RF			2.553	<=20	12.4
1,3-Dichlorobenzene	T	Average RF		0.600	1.577	<=20	7.7
1,3-Dichloropropane	T	Average RF			0.6616	<=20	6.0
1,4-Dichlorobenzene	T	Average RF		0.500	1.691	<=20	13.0
1,4-Dioxane	T	Average RF			0.008469	<=20	7.7
1-Butanol	T	Average RF			0.02417	<=20	15.2
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.5369	<=20	9.4
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6050	<=20	6.0
2,2-Dichloropropane	T	Average RF			0.7109	<=20	4.8
2,3,6-Trichlorotoluene	T	Average RF			0.8839	<=20	11.2
2,4,5-Trichlorotoluene	T	Average RF			0.9763	<=20	7.0
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.427	<=20	10.9
2,4-Dichlorobenzotrifluoride	T	Average RF			0.8332	<=20	16.0
2,5-Dichlorobenzotrifluoride	T	Average RF			0.8980	<=20	12.5
2-Butanone (MEK)	T	Average RF		0.05	0.5384	<=20	2.9
2-Chloro-1,3-butadiene	T	Average RF			1.050	<=20	2.7
2-Chlorobenzotrifluoride	T	Average RF			0.6002	<=20	6.2
2-Chloroethyl Vinyl Ether	T	Average RF			0.2903	<=20	4.4
2-Chlorotoluene	T	Average RF			2.205	<=20	10.7
2-Hexanone	T	Average RF		0.05	0.6051	<=20	9.2
2-Methyl-1-propanol	T	Average RF			0.04562	<=20	11.1
2-Methyl-2-propanol	T	Average RF			0.1253	<=20	8.5
2-Nitropropane	T	Average RF			0.1656	<=20	15.6
2-Propanol	T	Average RF			0.09072	<=20	7.5
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.576	<=20	12.6
3,4-Dichlorobenzotrifluoride	T	Average RF			0.8969	<=20	16.5
3-Chloro-1-propene	T	Average RF			0.2608	<=20	9.8
3-Chlorobenzotrifluoride	T	Average RF			0.6049	<=20	7.8
3-Chlorotoluene	T	Average RF			2.291	<=20	9.2
4-Chlorotoluene	T	Average RF			2.615	<=20	13.2
4-Isopropyltoluene	T	Average RF			2.686	<=20	12.7
4-Methyl-2-pentanone	T	Average RF		0.05	0.7046	<=20	6.3
Acetone	T	Average RF		0.05	0.4277	<=20	7.2

00410

Initial Calibration - Summary Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetonitrile	T	Average RF			0.08955	<=20	13.7
Acrolein	T	Average RF			0.1599	<=20	4.4
Acrylonitrile	T	Average RF			0.3354	<=20	8.7
Benzene	T	Average RF		0.500	1.339	<=20	6.1
Bromobenzene	T	Average RF			0.8371	<=20	8.0
Bromochloromethane	T	Average RF			0.3268	<=20	2.9
Bromodichloromethane	T	Average RF		0.200	0.4587	<=20	4.6
Bromoform	T	Average RF		0.100	0.2925	<=20	17.7
Bromomethane	T	Quadratic	1/X	0.100	0.2948	>=0.99	0.9996
Carbon Disulfide	T	Average RF		0.100	1.249	<=20	8.4
Carbon Tetrachloride	T	Average RF		0.05	0.1347	<=20	8.0
Chlorobenzene	T	Average RF		0.500	1.039	<=20	7.7
Chloroethane	T	Average RF		0.100	0.3129	<=20	7.4
Chloroform	T	Average RF		0.200	0.8646	<=20	5.5
Chloromethane	T	Average RF		0.100	0.6035	<=20	9.3
Cyclohexane	T	Average RF		0.100	0.4989	<=20	15.1
Cyclohexanone	T	Average RF			0.1151	<=20	12.5
Dibromochloromethane	T	Average RF		0.100	0.3832	<=20	13.0
Dibromomethane	T	Average RF			0.2371	<=20	5.1
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.4428	<=20	8.6
Dichlorofluoromethane (CFC 21)	T	Average RF			0.8860	<=20	4.1
Dichloromethane	T	Average RF		0.100	0.5125	<=20	10.0
Diethyl Ether	T	Average RF			0.4916	<=20	3.2
Diisopropyl Ether	T	Average RF			2.200	<=20	3.9
Ethyl Methacrylate	T	Average RF			0.5591	<=20	6.6
Ethyl tert-Butyl Ether	T	Average RF			1.835	<=20	3.0
Ethylbenzene	T	Average RF		0.100	0.5528	<=20	4.3
Hexachlorobutadiene	T	Average RF			0.5282	<=20	11.1
Iodomethane	T	Quadratic	1/X		0.5227	>=0.99	0.9995
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.667	<=20	9.2
Methacrylonitrile	T	Average RF			0.3144	<=20	7.9
Methyl Acetate	T	Average RF		0.100	0.7730	<=20	6.3
Methyl Methacrylate	T	Average RF			0.3242	<=20	5.3
Methyl tert-Butyl Ether	T	Average RF		0.100	1.697	<=20	5.1
Methylcyclohexane	T	Average RF		0.100	0.5532	<=20	8.3
Naphthalene	T	Average RF			3.522	<=20	14.9
Propionitrile	T	Average RF			0.1444	<=20	6.3
Styrene	T	Average RF		0.300	1.104	<=20	5.0
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3223	<=20	9.7
Tetrahydrofuran (THF)	T	Average RF			0.3707	<=20	14.7
Toluene	T	Average RF		0.400	1.394	<=20	7.4
Trichloroethene (TCE)	T	Average RF		0.200	0.3973	<=20	10.1
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.6721	<=20	6.6
Vinyl Acetate	T	Average RF			0.09690	<=20	17.5
Vinyl Chloride	T	Average RF		0.100	0.5223	<=20	9.5
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5234	<=20	12.1
cis-1,3-Dichloropropene	T	Average RF		0.200	0.5394	<=20	7.2
m,p-Xylenes	T	Average RF		0.100	0.6504	<=20	7.0
n-Butyl Acetate	T	Average RF			1.087	<=20	7.7
n-Butylbenzene	T	Average RF			2.636	<=20	11.3
n-Heptane	T	Average RF			0.6365	<=20	18.6
n-Propylbenzene	T	Average RF			3.601	<=20	17.2

00411

Initial Calibration - Summary Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
o-Xylene	T	Average RF		0.300	0.6773	<=20	6.3
sec-Butylbenzene	T	Average RF			3.162	<=20	13.8
tert-Amyl Methyl Ether	T	Average RF			1.094	<=20	3.2
tert-Butylbenzene	T	Average RF			2.171	<=20	9.7
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4501	<=20	6.3
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4982	<=20	11.1
trans-1,4-Dichloro-2-butene	T	Average RF			0.2069	<=20	17.0
1,2-Dichloroethane-d4	S	Average RF			0.4574	<=20	6.1
4-Bromofluorobenzene	S	Average RF			0.4856	<=20	5.6
Dibromofluoromethane	S	Average RF			0.3226	<=20	1.7
Toluene-d8	S	Average RF			1.176	<=20	6.5

00412

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500091-01	0.5 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1991.D	9/10/15 17:41
02	RC1500091-02	1.0 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1992.D	9/10/15 18:05
03	RC1500091-03	2.0 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1993.D	9/10/15 18:29
04	RC1500091-04	5.0 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1994.D	9/10/15 18:54
05	RC1500091-05	20 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1995.D	9/10/15 19:18
06	RC1500091-06	50 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1996.D	9/10/15 19:42
07	RC1500091-07	100 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1997.D	9/10/15 20:06
08	RC1500091-08	150 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1998.D	9/10/15 20:31
09	RC1500091-09	200 PPB STD	I:\ACQUDATA\msvoa10\data\091015\F1999.D	9/10/15 20:55

Analyte — **Curve Fit** — **Weighting**

1,1,1,2-Tetrachloroethane — Average RF — RSD = 11.6 — Average RF = 0.3582

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3054	02	1.000	0.2852	03	2.000	0.3367	04	5.000	0.3497
05	20.000	0.3877	06	50.000	0.4017	07	100.000	0.3942	08	150.000	0.3811
09	200.000	0.3819									

1,1,1-Trichloroethane (TCA) — Average RF — RSD = 4.0 — Average RF = 0.7563

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7653	02	1.000	0.7165	03	2.000	0.7402	04	5.000	0.7376
05	20.000	0.7945	06	50.000	0.8103	07	100.000	0.7639	08	150.000	0.7330
09	200.000	0.7456									

1,1,2,2-Tetrachloroethane — Linear — 1/X2 — R2 = 0.9959 — Y = 0.9532 X + -0.004762

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5119	02	1.000	0.6748	03	2.000	0.8203	04	5.000	0.7832
05	20.000	0.9515	06	50.000	1.001	07	100.000	0.9825	08	150.000	0.9944
09	200.000	0.9572									

1,1,2-Trichloroethane — Average RF — RSD = 7.5 — Average RF = 0.3308

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2727	02	1.000	0.3365	03	2.000	0.3538	04	5.000	0.3140
05	20.000	0.3433	06	50.000	0.3500	07	100.000	0.3341	08	150.000	0.3417
09	200.000	0.3310									

1,1,2-Trichlorotrifluoroethane — Average RF — RSD = 9.9 — Average RF = 0.4565

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5657	02	1.000	0.4352	03	2.000	0.4733	04	5.000	0.4357
05	20.000	0.4588	06	50.000	0.4656	07	100.000	0.4261	08	150.000	0.4206
09	200.000	0.4277									

1,1-Dichloroethane (1,1-DCA) — Average RF — RSD = 6.1 — Average RF = 0.9591

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.043	02	1.000	1.014	03	2.000	1.021	04	5.000	0.9414
05	20.000	0.9441	06	50.000	0.9775	07	100.000	0.9161	08	150.000	0.8827
09	200.000	0.8908									

1,1-Dichloroethene (1,1-DCE) — Average RF — RSD = 6.5 — Average RF = 0.4091

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4464	02	1.000	0.4541	03	2.000	0.4083	04	5.000	0.4072
05	20.000	0.4037	06	50.000	0.4128	07	100.000	0.3900	08	150.000	0.3766
09	200.000	0.3827									

00413

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1,1-Dichloropropene Average RF RSD = 5.3 Average RF = 0.4503

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4367	02	1.000	0.4986	03	2.000	0.4625	04	5.000	0.4373
05	20.000	0.4585	06	50.000	0.4661	07	100.000	0.4419	08	150.000	0.4219
09	200.000	0.4289									

1,2,3-Trichlorobenzene Average RF RSD = 8.1 Average RF = 1.260

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.216	02	1.000	1.413	03	2.000	1.310	04	5.000	1.345
05	20.000	1.314	06	50.000	1.307	07	100.000	1.196	08	150.000	1.129
09	200.000	1.112									

1,2,3-Trichloropropane Average RF RSD = 6.0 Average RF = 0.3313

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3685	03	2.000	0.3077	04	5.000	0.3417	05	20.000	0.3455
06	50.000	0.3318	07	100.000	0.3155	08	150.000	0.3204	09	200.000	0.3194

1,2,4-Trichlorobenzene Average RF RSD = 10.5 Average RF = 1.272

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.494	02	1.000	1.454	03	2.000	1.283	04	5.000	1.262
05	20.000	1.268	06	50.000	1.281	07	100.000	1.179	08	150.000	1.126
09	200.000	1.101									

1,2,4-Trimethylbenzene Average RF RSD = 12.9 Average RF = 2.604

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.769	02	1.000	3.064	03	2.000	2.749	04	5.000	2.716
05	20.000	2.785	06	50.000	2.749	07	100.000	2.427	08	150.000	2.149
09	200.000	2.026									

1,2-Dibromo-3-chloropropane (DBCP) Average RF RSD = 11.9 Average RF = 0.2540

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2056	02	1.000	0.2595	03	2.000	0.2300	04	5.000	0.2191
05	20.000	0.2470	06	50.000	0.2767	07	100.000	0.2764	08	150.000	0.2827
09	200.000	0.2891									

1,2-Dibromoethane Average RF RSD = 4.5 Average RF = 0.4077

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3806	02	1.000	0.4244	03	2.000	0.3809	04	5.000	0.4065
05	20.000	0.4310	06	50.000	0.4275	07	100.000	0.4123	08	150.000	0.4054
09	200.000	0.4009									

1,2-Dichloro-1,1,2-trifluoroethane (CFC Average RF RSD = 7.0 Average RF = 0.5881

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5548	02	1.000	0.6337	03	2.000	0.6688	04	5.000	0.5958
05	20.000	0.5543	06	50.000	0.6029	07	100.000	0.5593	08	150.000	0.5645
09	200.000	0.5584									

1,2-Dichlorobenzene Average RF RSD = 8.4 Average RF = 1.591

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.812	02	1.000	1.688	03	2.000	1.625	04	5.000	1.630
05	20.000	1.622	06	50.000	1.622	07	100.000	1.522	08	150.000	1.415
09	200.000	1.382									

00414

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

1,2-Dichloroethane Average RF RSD = 4.0 Average RF = 0.6042

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6183	02	1.000	0.5873	03	2.000	0.6101	04	5.000	0.5858
05	20.000	0.6410	06	50.000	0.6371	07	100.000	0.6009	08	150.000	0.5788
09	200.000	0.5783									

1,2-Dichloroethane-d4 Average RF RSD = 6.1 Average RF = 0.4574

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4973	05	20.000	0.4270	06	50.000	0.4678	07	100.000	0.4585
08	200.000	0.4364									

1,2-Dichloropropane Average RF RSD = 4.7 Average RF = 0.3899

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3608	02	1.000	0.4112	03	2.000	0.3831	04	5.000	0.4119
05	20.000	0.4011	06	50.000	0.4057	07	100.000	0.3857	08	150.000	0.3719
09	200.000	0.3779									

1,3,5-Trichlorobenzene Average RF RSD = 9.6 Average RF = 1.293

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.513	02	1.000	1.468	03	2.000	1.300	04	5.000	1.320
05	20.000	1.268	06	50.000	1.215	07	100.000	1.216	08	150.000	1.170
09	200.000	1.166									

1,3,5-Trimethylbenzene Average RF RSD = 12.4 Average RF = 2.553

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.722	02	1.000	2.690	03	2.000	2.819	04	5.000	2.793
05	20.000	2.764	06	50.000	2.715	07	100.000	2.390	08	150.000	2.109
09	200.000	1.979									

1,3-Dichlorobenzene Average RF RSD = 7.7 Average RF = 1.577

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.595	02	1.000	1.690	03	2.000	1.737	04	5.000	1.627
05	20.000	1.650	06	50.000	1.598	07	100.000	1.506	08	150.000	1.409
09	200.000	1.383									

1,3-Dichloropropane Average RF RSD = 6.0 Average RF = 0.6616

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6022	02	1.000	0.7026	03	2.000	0.6999	04	5.000	0.6361
05	20.000	0.7132	06	50.000	0.6817	07	100.000	0.6578	08	150.000	0.6376
09	200.000	0.6238									

1,4-Dichlorobenzene Average RF RSD = 13.0 Average RF = 1.691

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.067	02	1.000	1.993	03	2.000	1.666	04	5.000	1.745
05	20.000	1.674	06	50.000	1.650	07	100.000	1.538	08	150.000	1.458
09	200.000	1.423									

1,4-Dioxane Average RF RSD = 7.7 Average RF = 0.008469

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.007616	04	100.000	0.008310	05	400.000	0.008081	06	1000.000	0.008230
07	2000.000	0.008528	08	3000.000	0.009691	09	4000.000	0.008825			

1-Butanol Average RF RSD = 15.2 Average RF = 0.02417

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.01817	03	100.000	0.02046	04	250.000	0.02238	05	1000.000	0.02383
06	2500.000	0.02615	07	5000.000	0.02702	08	7500.000	0.02928	09	10000.000	0.02605

00415

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte **Curve Fit** **Weighting**

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 9.4 Average RF = 0.5369

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6632	02	1.000	0.5558	03	2.000	0.5250	04	5.000	0.5369
05	20.000	0.5090	06	50.000	0.5057	07	100.000	0.5113	08	150.000	0.5216
09	200.000	0.5038									

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 6.0 Average RF = 0.6050

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5385	02	1.000	0.6397	03	2.000	0.6277	04	5.000	0.5764
05	20.000	0.5667	06	50.000	0.6472	07	100.000	0.6135	08	150.000	0.6247
09	200.000	0.6104									

2,2-Dichloropropane Average RF RSD = 4.8 Average RF = 0.7109

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7223	02	1.000	0.7534	03	2.000	0.7238	04	5.000	0.7164
05	20.000	0.7256	06	50.000	0.7472	07	100.000	0.6886	08	150.000	0.6604
09	200.000	0.6601									

2,3,6-Trichlorotoluene Average RF RSD = 11.2 Average RF = 0.8839

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.107	02	1.000	0.8722	03	2.000	0.8716	04	5.000	0.9352
05	20.000	0.9306	06	50.000	0.8485	07	100.000	0.8103	08	150.000	0.7881
09	200.000	0.7919									

2,4,5-Trichlorotoluene Average RF RSD = 7.0 Average RF = 0.9763

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.080	02	1.000	1.068	03	2.000	0.9696	04	5.000	0.9692
05	20.000	1.028	06	50.000	0.9455	07	100.000	0.9283	08	150.000	0.8978
09	200.000	0.9010									

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut Average RF RSD = 10.9 Average RF = 1.427

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.619	02	3.000	1.621	03	6.000	1.461	04	15.000	1.503
05	60.000	1.480	06	150.000	1.403	07	300.000	1.348	08	450.000	1.255
09	600.000	1.154									

2,4-Dichlorobenzotrifluoride Average RF RSD = 16.0 Average RF = 0.8332

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.165	02	1.000	0.8336	03	2.000	0.8384	04	5.000	0.8641
05	20.000	0.8024	06	50.000	0.7256	07	100.000	0.7513	08	150.000	0.7444
09	200.000	0.7736									

2,5-Dichlorobenzotrifluoride Average RF RSD = 12.5 Average RF = 0.8980

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.179	02	1.000	0.8336	03	2.000	0.9037	04	5.000	0.9347
05	20.000	0.8833	06	50.000	0.8384	07	100.000	0.8439	08	150.000	0.8452
09	200.000	0.8198									

2-Butanone (MEK) Average RF RSD = 2.9 Average RF = 0.5384

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.5144	03	2.000	0.5294	04	5.000	0.5352	05	20.000	0.5325
06	50.000	0.5384	07	100.000	0.5437	08	150.000	0.5700	09	200.000	0.5433

00416

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

2-Chloro-1,3-butadiene Average RF RSD = 2.7 Average RF = 1.050

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.038	02	1.000	0.9949	03	2.000	1.062	04	5.000	1.035
05	20.000	1.075	06	50.000	1.095	07	100.000	1.053	08	150.000	1.063
09	200.000	1.037									

2-Chlorobenzotrifluoride Average RF RSD = 6.2 Average RF = 0.6002

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5907	02	1.000	0.6845	03	2.000	0.6133	04	5.000	0.6115
05	20.000	0.5850	06	50.000	0.5499	07	100.000	0.5817	08	150.000	0.6043
09	200.000	0.5811									

2-Chloroethyl Vinyl Ether Average RF RSD = 4.4 Average RF = 0.2903

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2805	02	1.000	0.2799	03	2.000	0.2691	04	5.000	0.2838
05	20.000	0.2935	06	50.000	0.3066	07	100.000	0.2985	08	150.000	0.3049
09	200.000	0.2961									

2-Chlorotoluene Average RF RSD = 10.7 Average RF = 2.205

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.490	02	1.000	2.252	03	2.000	2.351	04	5.000	2.281
05	20.000	2.377	06	50.000	2.334	07	100.000	2.090	08	150.000	1.873
09	200.000	1.800									

2-Hexanone Average RF RSD = 9.2 Average RF = 0.6051

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5083	02	1.000	0.5509	03	2.000	0.5583	04	5.000	0.6044
05	20.000	0.6285	06	50.000	0.6246	07	100.000	0.6444	08	150.000	0.6848
09	200.000	0.6417									

2-Methyl-1-propanol Average RF RSD = 11.1 Average RF = 0.04562

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.03996	02	20.000	0.04032	03	40.000	0.04491	04	100.000	0.04131
05	400.000	0.04331	06	1000.000	0.04693	07	2000.000	0.04867	08	3000.000	0.05511
09	4000.000	0.05004									

2-Methyl-2-propanol Average RF RSD = 8.5 Average RF = 0.1253

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.1066	02	20.000	0.1181	03	40.000	0.1183	04	100.000	0.1279
05	400.000	0.1251	06	1000.000	0.1304	07	2000.000	0.1301	08	3000.000	0.1452
09	4000.000	0.1262									

2-Nitropropane Average RF RSD = 15.6 Average RF = 0.1656

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	2.000	0.1375	03	4.000	0.1630	04	10.000	0.1279	05	40.000	0.1505
06	100.000	0.1713	07	200.000	0.1807	08	300.000	0.2001	09	400.000	0.1938

2-Propanol Average RF RSD = 7.5 Average RF = 0.09072

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.08120	02	20.000	0.08618	03	40.000	0.08736	04	100.000	0.08969
05	400.000	0.08566	06	1000.000	0.09501	07	2000.000	0.09464	08	3000.000	0.1043
09	4000.000	0.09237									

00417

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 12.6 Average RF = 1.576

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.736	02	2.000	1.759	03	4.000	1.620	04	10.000	1.762
05	40.000	1.693	06	100.000	1.601	07	200.000	1.477	08	300.000	1.322
09	400.000	1.211									

3,4-Dichlorobenzotrifluoride Average RF RSD = 16.5 Average RF = 0.8969

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.224	02	1.000	1.008	03	2.000	0.9605	04	5.000	0.8960
05	20.000	0.8250	06	50.000	0.8004	07	100.000	0.7792	08	150.000	0.7939
09	200.000	0.7859									

3-Chloro-1-propene Average RF RSD = 9.8 Average RF = 0.2608

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2900	02	1.000	0.3120	03	2.000	0.2695	04	5.000	0.2387
05	20.000	0.2460	06	50.000	0.2604	07	100.000	0.2457	08	150.000	0.2416
09	200.000	0.2430									

3-Chlorobenzotrifluoride Average RF RSD = 7.8 Average RF = 0.6049

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6996	03	2.000	0.6408	04	5.000	0.6248	05	20.000	0.5886
06	50.000	0.5684	07	100.000	0.5751	08	150.000	0.5785	09	200.000	0.5632

3-Chlorotoluene Average RF RSD = 9.2 Average RF = 2.291

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.460	02	1.000	2.548	03	2.000	2.464	04	5.000	2.427
05	20.000	2.374	06	50.000	2.223	07	100.000	2.149	08	150.000	1.995
09	200.000	1.983									

4-Bromofluorobenzene Average RF RSD = 5.6 Average RF = 0.4856

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4647	05	20.000	0.4494	06	50.000	0.4950	07	100.000	0.5057
08	200.000	0.5131									

4-Chlorotoluene Average RF RSD = 13.2 Average RF = 2.615

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.733	02	1.000	3.078	03	2.000	2.691	04	5.000	2.757
05	20.000	2.864	06	50.000	2.776	07	100.000	2.457	08	150.000	2.203
09	200.000	1.975									

4-Isopropyltoluene Average RF RSD = 12.7 Average RF = 2.686

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.084	02	1.000	3.015	03	2.000	2.650	04	5.000	2.861
05	20.000	2.873	06	50.000	2.836	07	100.000	2.526	08	150.000	2.240
09	200.000	2.088									

4-Methyl-2-pentanone Average RF RSD = 6.3 Average RF = 0.7046

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7371	02	1.000	0.6644	03	2.000	0.6287	04	5.000	0.6769
05	20.000	0.7089	06	50.000	0.7099	07	100.000	0.7201	08	150.000	0.7818
09	200.000	0.7135									

Acetone Average RF RSD = 7.2 Average RF = 0.4277

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.4853	05	20.000	0.4385	06	50.000	0.4137	07	100.000	0.4096
08	150.000	0.4144	09	200.000	0.4044						

00418

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Acetonitrile Average RF RSD = 13.7 Average RF = 0.08955

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.08957	02	5.000	0.08192	03	10.000	0.1198	04	25.000	0.07686
05	100.000	0.08831	06	250.000	0.08804	07	500.000	0.08904	08	750.000	0.08203
09	1000.000	0.09041									

Acrolein Average RF RSD = 4.4 Average RF = 0.1599

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1551	02	5.000	0.1731	03	10.000	0.1647	04	25.000	0.1568
05	100.000	0.1593	06	250.000	0.1651	07	500.000	0.1553	08	750.000	0.1603
09	1000.000	0.1492									

Acrylonitrile Average RF RSD = 8.7 Average RF = 0.3354

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2708	02	5.000	0.3329	03	10.000	0.3181	04	25.000	0.3470
05	100.000	0.3594	06	250.000	0.3694	07	500.000	0.3457	08	750.000	0.3512
09	1000.000	0.3242									

Benzene Average RF RSD = 6.1 Average RF = 1.339

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.475	02	1.000	1.333	03	2.000	1.374	04	5.000	1.306
05	20.000	1.384	06	50.000	1.405	07	100.000	1.318	08	150.000	1.242
09	200.000	1.213									

Bromobenzene Average RF RSD = 8.0 Average RF = 0.8371

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.9002	03	2.000	0.8822	04	5.000	0.9043	05	20.000	0.8790
06	50.000	0.8533	07	100.000	0.7817	08	150.000	0.7390	09	200.000	0.7571

Bromochloromethane Average RF RSD = 2.9 Average RF = 0.3268

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3202	02	1.000	0.3308	03	2.000	0.3404	04	5.000	0.3126
05	20.000	0.3343	06	50.000	0.3374	07	100.000	0.3249	08	150.000	0.3218
09	200.000	0.3189									

Bromodichloromethane Average RF RSD = 4.6 Average RF = 0.4587

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4198	02	1.000	0.4501	03	2.000	0.4547	04	5.000	0.4365
05	20.000	0.4737	06	50.000	0.4915	07	100.000	0.4688	08	150.000	0.4679
09	200.000	0.4654									

Bromoform Average RF RSD = 17.7 Average RF = 0.2925

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2351	03	2.000	0.2327	04	5.000	0.2343	05	20.000	0.2891
06	50.000	0.3234	07	100.000	0.3276	08	150.000	0.3514	09	200.000	0.3461

Bromomethane Quadratic 1/X COD = 0.9996 $Y = -0.06602\ X^2 + 0.3052\ X + 8.599E\text{-}4$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3380	02	1.000	0.3635	03	2.000	0.3511	04	5.000	0.3182
05	20.000	0.2829	06	50.000	0.2350	07	100.000	0.1748			

Carbon Disulfide Average RF RSD = 8.4 Average RF = 1.249

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.502	02	1.000	1.205	03	2.000	1.327	04	5.000	1.224
05	20.000	1.193	06	50.000	1.224	07	100.000	1.205	08	150.000	1.201
09	200.000	1.159									

00419

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Carbon Tetrachloride Average RF RSD = 8.0 Average RF = 0.1347

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1301	02	1.000	0.1090	03	2.000	0.1360	04	5.000	0.1369
05	20.000	0.1400	06	50.000	0.1470	07	100.000	0.1413	08	150.000	0.1331
09	200.000	0.1393									

Chlorobenzene Average RF RSD = 7.7 Average RF = 1.039

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9794	02	1.000	1.151	03	2.000	1.112	04	5.000	1.071
05	20.000	1.084	06	50.000	1.082	07	100.000	1.004	08	150.000	0.9553
09	200.000	0.9122									

Chloroethane Average RF RSD = 7.4 Average RF = 0.3129

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3424	02	1.000	0.3193	03	2.000	0.3253	04	5.000	0.3128
05	20.000	0.3323	06	50.000	0.3271	07	100.000	0.2991	08	150.000	0.2693
09	200.000	0.2889									

Chloroform Average RF RSD = 5.5 Average RF = 0.8646

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7698	02	1.000	0.8253	03	2.000	0.8834	04	5.000	0.8992
05	20.000	0.9100	06	50.000	0.9240	07	100.000	0.8716	08	150.000	0.8522
09	200.000	0.8462									

Chloromethane Average RF RSD = 9.3 Average RF = 0.6035

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6992	02	1.000	0.6859	03	2.000	0.5747	04	5.000	0.5465
05	20.000	0.6040	06	50.000	0.6227	07	100.000	0.5821	08	150.000	0.5667
09	200.000	0.5497									

Cyclohexane Average RF RSD = 15.1 Average RF = 0.4989

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5053	02	1.000	0.6970	03	2.000	0.4782	04	5.000	0.4628
05	20.000	0.4741	06	50.000	0.4771	07	100.000	0.4667	08	150.000	0.4669
09	200.000	0.4623									

Cyclohexanone Average RF RSD = 12.5 Average RF = 0.1151

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.09903	02	20.000	0.1116	03	40.000	0.1201	04	100.000	0.1306
05	400.000	0.1289	06	1000.000	0.1281	07	2000.000	0.1212	08	3000.000	0.1065
09	4000.000	0.08976									

Dibromochloromethane Average RF RSD = 13.0 Average RF = 0.3832

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3123	02	1.000	0.3205	03	2.000	0.3335	04	5.000	0.3663
05	20.000	0.4124	06	50.000	0.4290	07	100.000	0.4264	08	150.000	0.4233
09	200.000	0.4249									

Dibromofluoromethane Average RF RSD = 1.7 Average RF = 0.3226

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3203	05	20.000	0.3158	06	50.000	0.3310	07	100.000	0.3240
08	200.000	0.3220									

00420

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Dibromomethane Average RF RSD = 5.1 Average RF = 0.2371

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2424	02	1.000	0.2457	03	2.000	0.2208	04	5.000	0.2153
05	20.000	0.2497	06	50.000	0.2502	07	100.000	0.2365	08	150.000	0.2371
09	200.000	0.2358									

Dichlorodifluoromethane (CFC 12) Average RF RSD = 8.6 Average RF = 0.4428

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4337	02	1.000	0.4133	03	2.000	0.3818	04	5.000	0.4193
05	20.000	0.4815	06	50.000	0.5084	07	100.000	0.4603	08	150.000	0.4519
09	200.000	0.4353									

Dichlorofluoromethane (CFC 21) Average RF RSD = 4.1 Average RF = 0.8860

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9213	02	1.000	0.9392	03	2.000	0.8771	04	5.000	0.9018
05	20.000	0.9037	06	50.000	0.8928	07	100.000	0.8445	08	150.000	0.8700
09	200.000	0.8231									

Dichloromethane Average RF RSD = 10.0 Average RF = 0.5125

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6028	02	1.000	0.5391	03	2.000	0.5862	04	5.000	0.4806
05	20.000	0.4895	06	50.000	0.5012	07	100.000	0.4788	08	150.000	0.4707
09	200.000	0.4638									

Diethyl Ether Average RF RSD = 3.2 Average RF = 0.4916

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5025	02	1.000	0.4943	03	2.000	0.4858	04	5.000	0.4620
05	20.000	0.4890	06	50.000	0.5202	07	100.000	0.5003	08	150.000	0.4862
09	200.000	0.4835									

Diisopropyl Ether Average RF RSD = 3.9 Average RF = 2.200

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.157	02	1.000	2.341	03	2.000	2.238	04	5.000	2.252
05	20.000	2.266	06	50.000	2.231	07	100.000	2.105	08	150.000	2.145
09	200.000	2.070									

Ethyl Methacrylate Average RF RSD = 6.6 Average RF = 0.5591

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5362	02	1.000	0.5230	03	2.000	0.5201	04	5.000	0.5122
05	20.000	0.5702	06	50.000	0.6011	07	100.000	0.5815	08	150.000	0.6112
09	200.000	0.5762									

Ethyl tert-Butyl Ether Average RF RSD = 3.0 Average RF = 1.835

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.755	02	1.000	1.875	03	2.000	1.818	04	5.000	1.886
05	20.000	1.898	06	50.000	1.897	07	100.000	1.783	08	150.000	1.811
09	200.000	1.793									

Ethylbenzene Average RF RSD = 4.3 Average RF = 0.5528

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5256	02	1.000	0.5577	03	2.000	0.5850	04	5.000	0.5634
05	20.000	0.5721	06	50.000	0.5762	07	100.000	0.5476	08	150.000	0.5246
09	200.000	0.5234									

00421

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting		
Hexachlorobutadiene	Average RF		RSD = 11.1	Average RF = 0.5282

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6686	02	1.000	0.4922	03	2.000	0.5003	04	5.000	0.5223
05	20.000	0.5243	06	50.000	0.5638	07	100.000	0.5179	08	150.000	0.4735
09	200.000	0.4914									

Iodomethane	Quadratic	1/X	COD = 0.9995	$Y = 0.009147 X^2 + 0.6255 X + -0.02062$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2305	04	5.000	0.2943	05	20.000	0.5589	06	50.000	0.6470
07	100.000	0.6309	08	150.000	0.6356	09	200.000	0.6617			

Isopropylbenzene (Cumene)	Average RF		RSD = 9.2	Average RF = 1.667

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.745	02	1.000	1.733	03	2.000	1.777	04	5.000	1.709
05	20.000	1.800	06	50.000	1.781	07	100.000	1.617	08	150.000	1.482
09	200.000	1.356									

Methacrylonitrile	Average RF		RSD = 7.9	Average RF = 0.3144

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3762	02	1.000	0.3227	03	2.000	0.3024	04	5.000	0.2947
05	20.000	0.3102	06	50.000	0.3060	07	100.000	0.3018	08	150.000	0.3165
09	200.000	0.2992									

Methyl Acetate	Average RF		RSD = 6.3	Average RF = 0.7730

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7603	02	1.000	0.6532	03	2.000	0.8121	04	5.000	0.7827
05	20.000	0.7839	06	50.000	0.8171	07	100.000	0.7920	08	150.000	0.7848
09	200.000	0.7712									

Methyl Methacrylate	Average RF		RSD = 5.3	Average RF = 0.3242

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3248	02	1.000	0.2887	03	2.000	0.3190	04	5.000	0.3060
05	20.000	0.3316	06	50.000	0.3380	07	100.000	0.3317	08	150.000	0.3438
09	200.000	0.3338									

Methyl tert-Butyl Ether	Average RF		RSD = 5.1	Average RF = 1.697

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.564	02	1.000	1.619	03	2.000	1.727	04	5.000	1.748
05	20.000	1.809	06	50.000	1.811	07	100.000	1.703	08	150.000	1.678
09	200.000	1.611									

Methylcyclohexane	Average RF		RSD = 8.3	Average RF = 0.5532

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6433	02	1.000	0.6155	03	2.000	0.5561	04	5.000	0.5347
05	20.000	0.5427	06	50.000	0.5384	07	100.000	0.5128	08	150.000	0.5221
09	200.000	0.5134									

Naphthalene	Average RF		RSD = 14.9	Average RF = 3.522

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.945	02	1.000	3.704	03	2.000	3.544	04	5.000	3.934
05	20.000	4.031	06	50.000	3.834	07	100.000	3.320	08	150.000	2.857
09	200.000	2.531									

00422

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

Propionitrile Average RF RSD = 6.3 Average RF = 0.1444

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1340	02	5.000	0.1430	03	10.000	0.1290	04	25.000	0.1409
05	100.000	0.1462	06	250.000	0.1509	07	500.000	0.1472	08	750.000	0.1595
09	1000.000	0.1484									

Styrene Average RF RSD = 5.0 Average RF = 1.104

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.081	02	1.000	1.121	03	2.000	1.066	04	5.000	1.092
05	20.000	1.177	06	50.000	1.179	07	100.000	1.133	08	150.000	1.076
09	200.000	1.008									

Tetrachloroethene (PCE) Average RF RSD = 9.7 Average RF = 0.3223

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3374	02	1.000	0.3948	03	2.000	0.3111	04	5.000	0.3204
05	20.000	0.3227	06	50.000	0.3246	07	100.000	0.3058	08	150.000	0.2866
09	200.000	0.2971									

Tetrahydrofuran (THF) Average RF RSD = 14.7 Average RF = 0.3707

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4240	03	2.000	0.4743	04	5.000	0.3880	05	20.000	0.3247
06	50.000	0.3371	07	100.000	0.3325	08	150.000	0.3580	09	200.000	0.3268

Toluene Average RF RSD = 7.4 Average RF = 1.394

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.430	02	1.000	1.507	03	2.000	1.445	04	5.000	1.369
05	20.000	1.475	06	50.000	1.476	07	100.000	1.375	08	150.000	1.283
09	200.000	1.189									

Toluene-d8 Average RF RSD = 6.5 Average RF = 1.176

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.262	05	20.000	1.149	06	50.000	1.233	07	100.000	1.168
08	200.000	1.068									

Trichloroethene (TCE) Average RF RSD = 10.1 Average RF = 0.3973

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4633	02	1.000	0.4461	03	2.000	0.4055	04	5.000	0.4061
05	20.000	0.3976	06	50.000	0.3930	07	100.000	0.3711	08	150.000	0.3426
09	200.000	0.3502									

Trichlorofluoromethane (CFC 11) Average RF RSD = 6.6 Average RF = 0.6721

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6693	02	1.000	0.7493	03	2.000	0.6550	04	5.000	0.6644
05	20.000	0.7115	06	50.000	0.7135	07	100.000	0.6452	08	150.000	0.6213
09	200.000	0.6195									

Vinyl Acetate Average RF RSD = 17.5 Average RF = 0.09690

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.07382	03	2.000	0.1247	04	5.000	0.08038	05	20.000	0.1062
06	50.000	0.1052	07	100.000	0.09594	08	150.000	0.1060	09	200.000	0.08292

Vinyl Chloride Average RF RSD = 9.5 Average RF = 0.5223

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6352	02	1.000	0.4991	03	2.000	0.4696	04	5.000	0.5198
05	20.000	0.5365	06	50.000	0.5526	07	100.000	0.5089	08	150.000	0.4992
09	200.000	0.4800									

00423

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte **Curve Fit** **Weighting**

cis-1,2-Dichloroethene Average RF RSD = 12.1 Average RF = 0.5234

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6844	02	1.000	0.5302	03	2.000	0.4991	04	5.000	0.4862
05	20.000	0.5266	06	50.000	0.5252	07	100.000	0.4898	08	150.000	0.4811
09	200.000	0.4878									

cis-1,3-Dichloropropene Average RF RSD = 7.2 Average RF = 0.5394

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4627	02	1.000	0.5023	03	2.000	0.5488	04	5.000	0.5127
05	20.000	0.5723	06	50.000	0.5847	07	100.000	0.5631	08	150.000	0.5592
09	200.000	0.5486									

m,p-Xylenes Average RF RSD = 7.0 Average RF = 0.6504

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6791	02	2.000	0.6319	03	4.000	0.6838	04	10.000	0.6628
05	40.000	0.6907	06	100.000	0.6966	07	200.000	0.6469	08	300.000	0.5966
09	400.000	0.5651									

n-Butyl Acetate Average RF RSD = 7.7 Average RF = 1.087

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.009	03	2.000	0.9518	04	5.000	1.050	05	20.000	1.096
06	50.000	1.185	07	100.000	1.169	08	150.000	1.168	09	200.000	1.069

n-Butylbenzene Average RF RSD = 11.3 Average RF = 2.636

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.897	02	1.000	2.765	03	2.000	2.756	04	5.000	2.808
05	20.000	2.827	06	50.000	2.847	07	100.000	2.529	08	150.000	2.227
09	200.000	2.069									

n-Heptane Average RF RSD = 18.6 Average RF = 0.6365

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9172	02	1.000	0.7108	03	2.000	0.6361	04	5.000	0.5746
05	20.000	0.6156	06	50.000	0.6272	07	100.000	0.5715	08	150.000	0.5361
09	200.000	0.5397									

n-Propylbenzene Average RF RSD = 17.2 Average RF = 3.601

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	4.018	02	1.000	4.128	03	2.000	4.004	04	5.000	3.910
05	20.000	4.003	06	50.000	3.870	07	100.000	3.262	08	150.000	2.724
09	200.000	2.486									

o-Xylene Average RF RSD = 6.3 Average RF = 0.6773

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7250	02	1.000	0.7545	03	2.000	0.6704	04	5.000	0.6783
05	20.000	0.6832	06	50.000	0.6820	07	100.000	0.6554	08	150.000	0.6286
09	200.000	0.6187									

sec-Butylbenzene Average RF RSD = 13.8 Average RF = 3.162

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.362	02	1.000	3.429	03	2.000	3.465	04	5.000	3.445
05	20.000	3.478	06	50.000	3.421	07	100.000	2.951	08	150.000	2.551
09	200.000	2.354									

00424

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte	Curve Fit	Weighting

tert-Amyl Methyl Ether — Average RF — RSD = 3.2 — Average RF = 1.094

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.046	02	1.000	1.115	03	2.000	1.141	04	5.000	1.069
05	20.000	1.133	06	50.000	1.121	07	100.000	1.067	08	150.000	1.089
09	200.000	1.061									

tert-Butylbenzene — Average RF — RSD = 9.7 — Average RF = 2.171

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.318	02	1.000	2.388	03	2.000	2.207	04	5.000	2.265
05	20.000	2.315	06	50.000	2.307	07	100.000	2.066	08	150.000	1.862
09	200.000	1.810									

trans-1,2-Dichloroethene — Average RF — RSD = 6.3 — Average RF = 0.4501

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4448	02	1.000	0.5170	03	2.000	0.4488	04	5.000	0.4397
05	20.000	0.4612	06	50.000	0.4570	07	100.000	0.4360	08	150.000	0.4214
09	200.000	0.4248									

trans-1,3-Dichloropropene — Average RF — RSD = 11.1 — Average RF = 0.4982

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4024	02	1.000	0.4577	03	2.000	0.4577	04	5.000	0.4541
05	20.000	0.5384	06	50.000	0.5501	07	100.000	0.5448	08	150.000	0.5476
09	200.000	0.5307									

trans-1,4-Dichloro-2-butene — Average RF — RSD = 17.0 — Average RF = 0.2069

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2378	02	1.000	0.1481	03	2.000	0.1922	04	5.000	0.1675
05	20.000	0.1875	06	50.000	0.2104	07	100.000	0.2317	08	150.000	0.2460
09	200.000	0.2407									

00425

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.7	02	1.000	0.80	-20.4	03	2.000	1.88	-6.0
04	5.000	4.88	-2.4	05	20.000	21.65	8.2	06	50.000	56.08	12.2
07	100.000	110.06	10.1	08	150.000	159.61	6.4	09	200.000	213.26	6.6

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.2	02	1.000	0.95	-5.3	03	2.000	1.96	-2.1
04	5.000	4.88	-2.5	05	20.000	21.01	5.0	06	50.000	53.57	7.1
07	100.000	101.00	1.0	08	150.000	145.38	-3.1	09	200.000	197.17	-1.4

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.7	02	1.000	0.96	-4.2	03	2.000	1.97	-1.5
04	5.000	4.36	-12.8	05	20.000	20.21	1.1	06	50.000	52.74	5.5
07	100.000	103.32	3.3	08	150.000	156.73	4.5	09	200.000	201.07	0.5

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.6	02	1.000	1.02	1.7	03	2.000	2.14	7.0
04	5.000	4.75	-5.1	05	20.000	20.76	3.8	06	50.000	52.91	5.8
07	100.000	100.99	1.0	08	150.000	154.94	3.3	09	200.000	200.11	0.1

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	23.9	02	1.000	0.95	-4.7	03	2.000	2.07	3.7
04	5.000	4.77	-4.6	05	20.000	20.10	0.5	06	50.000	50.99	2.0
07	100.000	93.34	-6.7	08	150.000	138.19	-7.9	09	200.000	187.39	-6.3

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.8	02	1.000	1.06	5.8	03	2.000	2.13	6.5
04	5.000	4.91	-1.8	05	20.000	19.69	-1.6	06	50.000	50.96	1.9
07	100.000	95.52	-4.5	08	150.000	138.06	-8.0	09	200.000	185.75	-7.1

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.1	02	1.000	1.11	11.0	03	2.000	2.00	-0.2
04	5.000	4.98	-0.5	05	20.000	19.74	-1.3	06	50.000	50.45	0.9
07	100.000	95.33	-4.7	08	150.000	138.09	-7.9	09	200.000	187.11	-6.4

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.0	02	1.000	1.11	10.7	03	2.000	2.05	2.7
04	5.000	4.86	-2.9	05	20.000	20.36	1.8	06	50.000	51.75	3.5
07	100.000	98.14	-1.9	08	150.000	140.56	-6.3	09	200.000	190.49	-4.8

00426

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.5	02	1.000	1.12	12.1	03	2.000	2.08	4.0
04	5.000	5.34	6.7	05	20.000	20.86	4.3	06	50.000	51.86	3.7
07	100.000	94.88	-5.1	08	150.000	134.37	-10.4	09	200.000	176.55	-11.7

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.11	11.2	03	2.000	1.86	-7.1	04	5.000	5.16	3.1
05	20.000	20.85	4.3	06	50.000	50.08	0.2	07	100.000	95.22	-4.8
08	150.000	145.06	-3.3	09	200.000	192.83	-3.6				

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.4	02	1.000	1.14	14.3	03	2.000	2.02	0.9
04	5.000	4.96	-0.8	05	20.000	19.95	-0.3	06	50.000	50.34	0.7
07	100.000	92.69	-7.3	08	150.000	132.77	-11.5	09	200.000	173.17	-13.4

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.3	02	1.000	1.18	17.7	03	2.000	2.11	5.6
04	5.000	5.22	4.3	05	20.000	21.39	7.0	06	50.000	52.79	5.6
07	100.000	93.23	-6.8	08	150.000	123.81	-17.5	09	200.000	155.59	-22.2

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.1	02	1.000	1.02	2.1	03	2.000	1.81	-9.4
04	5.000	4.31	-13.7	05	20.000	19.45	-2.8	06	50.000	54.47	8.9
07	100.000	108.83	8.8	08	150.000	166.91	11.3	09	200.000	227.66	13.8

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	1.04	4.1	03	2.000	1.87	-6.6
04	5.000	4.99	-0.3	05	20.000	21.14	5.7	06	50.000	52.42	4.8
07	100.000	101.13	1.1	08	150.000	149.14	-0.6	09	200.000	196.66	-1.7

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.7	02	1.000	1.08	7.8	03	2.000	2.27	13.7
04	5.000	5.07	1.3	05	20.000	18.85	-5.7	06	50.000	51.26	2.5
07	100.000	95.12	-4.9	08	150.000	143.99	-4.0	09	200.000	189.91	-5.0

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.9	02	1.000	1.06	6.1	03	2.000	2.04	2.2
04	5.000	5.12	2.5	05	20.000	20.39	2.0	06	50.000	50.97	1.9
07	100.000	95.68	-4.3	08	150.000	133.42	-11.1	09	200.000	173.77	-13.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.3	02	1.000	0.97	-2.8	03	2.000	2.02	1.0
04	5.000	4.85	-3.0	05	20.000	21.22	6.1	06	50.000	52.73	5.5
07	100.000	99.46	-0.5	08	150.000	143.69	-4.2	09	200.000	191.45	-4.3

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.87	8.7	05	20.000	18.67	-6.6	06	50.000	51.14	2.3
07	100.000	100.24	0.2	08	200.000	190.83	-4.6				

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	1.05	5.5	03	2.000	1.96	-1.8
04	5.000	5.28	5.6	05	20.000	20.57	2.9	06	50.000	52.02	4.0
07	100.000	98.93	-1.1	08	150.000	143.06	-4.6	09	200.000	193.84	-3.1

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.1	02	1.000	1.14	13.6	03	2.000	2.01	0.6
04	5.000	5.11	2.1	05	20.000	19.61	-2.0	06	50.000	46.98	-6.0
07	100.000	94.02	-6.0	08	150.000	135.73	-9.5	09	200.000	180.34	-9.8

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.6	02	1.000	1.05	5.4	03	2.000	2.21	10.4
04	5.000	5.47	9.4	05	20.000	21.65	8.2	06	50.000	53.17	6.3
07	100.000	93.59	-6.4	08	150.000	123.90	-17.4	09	200.000	155.01	-22.5

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.1	02	1.000	1.07	7.2	03	2.000	2.20	10.1
04	5.000	5.16	3.2	05	20.000	20.92	4.6	06	50.000	50.66	1.3
07	100.000	95.47	-4.5	08	150.000	133.98	-10.7	09	200.000	175.39	-12.3

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-9.0	02	1.000	1.06	6.2	03	2.000	2.12	5.8
04	5.000	4.81	-3.9	05	20.000	21.56	7.8	06	50.000	51.51	3.0
07	100.000	99.42	-0.6	08	150.000	144.54	-3.6	09	200.000	188.56	-5.7

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.2	02	1.000	1.18	17.9	03	2.000	1.97	-1.4
04	5.000	5.16	3.2	05	20.000	19.81	-1.0	06	50.000	48.80	-2.4
07	100.000	91.00	-9.0	08	150.000	129.40	-13.7	09	200.000	168.39	-15.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	35.97	-10.1	04	100.000	98.13	-1.9	05	400.000	381.69	-4.6
06	1000.000	971.82	-2.8	07	2000.000	2,013.87	0.7	08	3000.000	3,433.06	14.4
09	4000.000	4,168.25	4.2								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	37.60	-24.8	03	100.000	84.65	-15.4	04	250.000	231.46	-7.4
05	1000.000	986.24	-1.4	06	2500.000	2,704.96	8.2	07	5000.000	5,590.70	11.8
08	7500.000	9,086.49	21.2	09	10000.000	10,778.42	7.8				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	23.5	02	1.000	1.04	3.5	03	2.000	1.96	-2.2
04	5.000	5.00	0.0	05	20.000	18.96	-5.2	06	50.000	47.10	-5.8
07	100.000	95.23	-4.8	08	150.000	145.72	-2.9	09	200.000	187.66	-6.2

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-11.0	02	1.000	1.06	5.7	03	2.000	2.08	3.8
04	5.000	4.76	-4.7	05	20.000	18.73	-6.3	06	50.000	53.49	7.0
07	100.000	101.41	1.4	08	150.000	154.90	3.3	09	200.000	201.81	0.9

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.6	02	1.000	1.06	6.0	03	2.000	2.04	1.8
04	5.000	5.04	0.8	05	20.000	20.41	2.1	06	50.000	52.55	5.1
07	100.000	96.87	-3.1	08	150.000	139.36	-7.1	09	200.000	185.73	-7.1

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.63	25.2	02	1.000	0.99	-1.3	03	2.000	1.97	-1.4
04	5.000	5.29	5.8	05	20.000	21.06	5.3	06	50.000	48.00	-4.0
07	100.000	91.67	-8.3	08	150.000	133.74	-10.8	09	200.000	179.19	-10.4

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.6	02	1.000	1.09	9.3	03	2.000	1.99	-0.7
04	5.000	4.96	-0.7	05	20.000	21.05	5.2	06	50.000	48.42	-3.2
07	100.000	95.08	-4.9	08	150.000	137.94	-8.0	09	200.000	184.57	-7.7

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.70	13.4	02	3.000	3.41	13.6	03	6.000	6.14	2.4
04	15.000	15.80	5.3	05	60.000	62.23	3.7	06	150.000	147.44	-1.7
07	300.000	283.40	-5.5	08	450.000	395.73	-12.1	09	600.000	485.09	-19.2

00429

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.70	39.8	02	1.000	1.00	0.0	03	2.000	2.01	0.6
04	5.000	5.19	3.7	05	20.000	19.26	-3.7	06	50.000	43.55	-12.9
07	100.000	90.17	-9.8	08	150.000	134.01	-10.7	09	200.000	185.71	-7.1

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.66	31.3	02	1.000	0.93	-7.2	03	2.000	2.01	0.6
04	5.000	5.20	4.1	05	20.000	19.67	-1.6	06	50.000	46.68	-6.6
07	100.000	93.97	-6.0	08	150.000	141.18	-5.9	09	200.000	182.59	-8.7

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-4.4	03	2.000	1.97	-1.7	04	5.000	4.97	-0.6
05	20.000	19.78	-1.1	06	50.000	50.01	0.0	07	100.000	100.99	1.0
08	150.000	158.82	5.9	09	200.000	201.82	0.9				

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.2	02	1.000	0.95	-5.3	03	2.000	2.02	1.1
04	5.000	4.93	-1.4	05	20.000	20.47	2.3	06	50.000	52.14	4.3
07	100.000	100.28	0.3	08	150.000	151.76	1.2	09	200.000	197.44	-1.3

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.6	02	1.000	1.14	14.0	03	2.000	2.04	2.2
04	5.000	5.09	1.9	05	20.000	19.49	-2.5	06	50.000	45.81	-8.4
07	100.000	96.91	-3.1	08	150.000	151.02	0.7	09	200.000	193.63	-3.2

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.4	02	1.000	0.96	-3.6	03	2.000	1.85	-7.3
04	5.000	4.89	-2.2	05	20.000	20.22	1.1	06	50.000	52.81	5.6
07	100.000	102.83	2.8	08	150.000	157.54	5.0	09	200.000	203.97	2.0

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.9	02	1.000	1.02	2.1	03	2.000	2.13	6.6
04	5.000	5.17	3.4	05	20.000	21.56	7.8	06	50.000	52.93	5.9
07	100.000	94.76	-5.2	08	150.000	127.42	-15.1	09	200.000	163.24	-18.4

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.42	-16.0	02	1.000	0.91	-9.0	03	2.000	1.85	-7.7
04	5.000	4.99	-0.1	05	20.000	20.77	3.9	06	50.000	51.61	3.2
07	100.000	106.49	6.5	08	150.000	169.76	13.2	09	200.000	212.10	6.0

00430

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.76	-12.4	02	20.000	17.68	-11.6	03	40.000	39.38	-1.5
04	100.000	90.56	-9.4	05	400.000	379.81	-5.0	06	1000.000	1,028.69	2.9
07	2000.000	2,133.71	6.7	08	3000.000	3,624.18	20.8	09	4000.000	4,387.47	9.7

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.51	-14.9	02	20.000	18.85	-5.7	03	40.000	37.75	-5.6
04	100.000	102.05	2.0	05	400.000	399.35	-0.2	06	1000.000	1,040.28	4.0
07	2000.000	2,076.53	3.8	08	3000.000	3,475.43	15.8	09	4000.000	4,027.39	0.7

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	2.000	1.66	-16.9	03	4.000	3.94	-1.6	04	10.000	7.72	-22.8
05	40.000	36.35	-9.1	06	100.000	103.45	3.4	07	200.000	218.19	9.1
08	300.000	362.47	20.8	09	400.000	468.08	17.0				

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.95	-10.5	02	20.000	19.00	-5.0	03	40.000	38.52	-3.7
04	100.000	98.87	-1.1	05	400.000	377.69	-5.6	06	1000.000	1,047.35	4.7
07	2000.000	2,086.50	4.3	08	3000.000	3,450.48	15.0	09	4000.000	4,072.92	1.8

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.10	10.2	02	2.000	2.23	11.6	03	4.000	4.11	2.8
04	10.000	11.19	11.9	05	40.000	42.98	7.5	06	100.000	101.60	1.6
07	200.000	187.48	-6.3	08	300.000	251.74	-16.1	09	400.000	307.34	-23.2

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.68	36.4	02	1.000	1.12	12.3	03	2.000	2.14	7.1
04	5.000	4.99	-0.1	05	20.000	18.40	-8.0	06	50.000	44.62	-10.8
07	100.000	86.87	-13.1	08	150.000	132.77	-11.5	09	200.000	175.25	-12.4

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.2	02	1.000	1.20	19.6	03	2.000	2.07	3.4
04	5.000	4.58	-8.5	05	20.000	18.87	-5.7	06	50.000	49.94	-0.1
07	100.000	94.20	-5.8	08	150.000	138.99	-7.3	09	200.000	186.35	-6.8

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.16	15.7	03	2.000	2.12	5.9	04	5.000	5.16	3.3
05	20.000	19.46	-2.7	06	50.000	46.98	-6.0	07	100.000	95.08	-4.9
08	150.000	143.46	-4.4	09	200.000	186.21	-6.9				

00431

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.3	02	1.000	1.11	11.2	03	2.000	2.15	7.5
04	5.000	5.30	5.9	05	20.000	20.72	3.6	06	50.000	48.50	-3.0
07	100.000	93.80	-6.2	08	150.000	130.63	-12.9	09	200.000	173.10	-13.4

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	9.57	-4.3	05	20.000	18.51	-7.5	06	50.000	50.97	1.9
07	100.000	104.15	4.1	08	200.000	211.35	5.7				

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.5	02	1.000	1.18	17.7	03	2.000	2.06	2.9
04	5.000	5.27	5.4	05	20.000	21.91	9.5	06	50.000	53.09	6.2
07	100.000	93.95	-6.1	08	150.000	126.36	-15.8	09	200.000	151.08	-24.5

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.8	02	1.000	1.12	12.2	03	2.000	1.97	-1.4
04	5.000	5.33	6.5	05	20.000	21.40	7.0	06	50.000	52.80	5.6
07	100.000	94.05	-6.0	08	150.000	125.10	-16.6	09	200.000	155.49	-22.3

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.6	02	1.000	0.94	-5.7	03	2.000	1.78	-10.8
04	5.000	4.80	-3.9	05	20.000	20.12	0.6	06	50.000	50.38	0.8
07	100.000	102.20	2.2	08	150.000	166.43	11.0	09	200.000	202.53	1.3

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	5.67	13.5	05	20.000	20.51	2.5	06	50.000	48.37	-3.3
07	100.000	95.77	-4.2	08	150.000	145.37	-3.1	09	200.000	189.13	-5.4

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.50	0.0	02	5.000	4.57	-8.5	03	10.000	13.38	33.8
04	25.000	21.46	-14.2	05	100.000	98.61	-1.4	06	250.000	245.77	-1.7
07	500.000	497.16	-0.6	08	750.000	686.97	-8.4	09	1000.000	1,009.52	1.0

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.43	-3.0	02	5.000	5.41	8.2	03	10.000	10.30	3.0
04	25.000	24.51	-2.0	05	100.000	99.66	-0.3	06	250.000	258.22	3.3
07	500.000	485.75	-2.8	08	750.000	752.03	0.3	09	1000.000	933.02	-6.7

00432

Initial Calibration - Detailed Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.02	-19.3	02	5.000	4.96	-0.7	03	10.000	9.48	-5.2
04	25.000	25.86	3.4	05	100.000	107.15	7.2	06	250.000	275.30	10.1
07	500.000	515.37	3.1	08	750.000	785.38	4.7	09	1000.000	966.68	-3.3

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.2	02	1.000	1.00	-0.4	03	2.000	2.05	2.6
04	5.000	4.88	-2.5	05	20.000	20.67	3.3	06	50.000	52.48	5.0
07	100.000	98.42	-1.6	08	150.000	139.18	-7.2	09	200.000	181.18	-9.4

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.08	7.5	03	2.000	2.11	5.4	04	5.000	5.40	8.0
05	20.000	21.00	5.0	06	50.000	50.97	1.9	07	100.000	93.39	-6.6
08	150.000	132.42	-11.7	09	200.000	180.87	-9.6				

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.0	02	1.000	1.01	1.2	03	2.000	2.08	4.2
04	5.000	4.78	-4.3	05	20.000	20.46	2.3	06	50.000	51.62	3.2
07	100.000	99.40	-0.6	08	150.000	147.70	-1.5	09	200.000	195.15	-2.4

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.5	02	1.000	0.98	-1.9	03	2.000	1.98	-0.9
04	5.000	4.76	-4.8	05	20.000	20.65	3.3	06	50.000	53.57	7.1
07	100.000	102.21	2.2	08	150.000	153.01	2.0	09	200.000	202.91	1.5

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.80	-19.6	03	2.000	1.59	-20.4	04	5.000	4.01	-19.9
05	20.000	19.77	-1.1	06	50.000	55.28	10.6	07	100.000	112.00	12.0
08	150.000	180.23	20.2	09	200.000	236.70	18.3				

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.3	02	1.000	1.05	5.5	03	2.000	2.18	9.0
04	5.000	5.19	3.7	05	20.000	20.15	0.8	06	50.000	48.56	-2.9
07	100.000	103.09	3.1								

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	20.3	02	1.000	0.97	-3.5	03	2.000	2.13	6.3
04	5.000	4.90	-2.0	05	20.000	19.11	-4.5	06	50.000	49.00	-2.0
07	100.000	96.50	-3.5	08	150.000	144.24	-3.8	09	200.000	185.58	-7.2

00433

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.5	02	1.000	0.81	-19.1	03	2.000	2.02	0.9
04	5.000	5.08	1.6	05	20.000	20.78	3.9	06	50.000	54.54	9.1
07	100.000	104.90	4.9	08	150.000	148.20	-1.2	09	200.000	206.72	3.4

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.7	02	1.000	1.11	10.8	03	2.000	2.14	7.0
04	5.000	5.15	3.0	05	20.000	20.87	4.4	06	50.000	52.08	4.2
07	100.000	96.63	-3.4	08	150.000	137.93	-8.0	09	200.000	175.61	-12.2

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.4	02	1.000	1.02	2.0	03	2.000	2.08	4.0
04	5.000	5.00	0.0	05	20.000	21.24	6.2	06	50.000	52.26	4.5
07	100.000	95.56	-4.4	08	150.000	129.08	-13.9	09	200.000	184.66	-7.7

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-11.0	02	1.000	0.95	-4.6	03	2.000	2.04	2.2
04	5.000	5.20	4.0	05	20.000	21.05	5.2	06	50.000	53.44	6.9
07	100.000	100.81	0.8	08	150.000	147.84	-1.4	09	200.000	195.74	-2.1

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	15.9	02	1.000	1.14	13.7	03	2.000	1.90	-4.8
04	5.000	4.53	-9.5	05	20.000	20.02	0.1	06	50.000	51.59	3.2
07	100.000	96.45	-3.5	08	150.000	140.86	-6.1	09	200.000	182.17	-8.9

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.3	02	1.000	1.40	39.7	03	2.000	1.92	-4.1
04	5.000	4.64	-7.2	05	20.000	19.01	-5.0	06	50.000	47.82	-4.4
07	100.000	93.54	-6.5	08	150.000	140.36	-6.4	09	200.000	185.32	-7.3

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	8.60	-14.0	02	20.000	19.40	-3.0	03	40.000	41.75	4.4
04	100.000	113.44	13.4	05	400.000	447.91	12.0	06	1000.000	1,112.97	11.3
07	2000.000	2,106.59	5.3	08	3000.000	2,776.04	-7.5	09	4000.000	3,119.79	-22.0

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.5	02	1.000	0.84	-16.4	03	2.000	1.74	-13.0
04	5.000	4.78	-4.4	05	20.000	21.52	7.6	06	50.000	55.98	12.0
07	100.000	111.28	11.3	08	150.000	165.71	10.5	09	200.000	221.79	10.9

00434

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	9.93	-0.7	05	20.000	19.58	-2.1	06	50.000	51.30	2.6
07	100.000	100.41	0.4	08	200.000	199.60	-0.2				

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.3	02	1.000	1.04	3.6	03	2.000	1.86	-6.9
04	5.000	4.54	-9.2	05	20.000	21.07	5.3	06	50.000	52.77	5.5
07	100.000	99.76	-0.2	08	150.000	150.01	0.0	09	200.000	198.95	-0.5

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.1	02	1.000	0.93	-6.7	03	2.000	1.72	-13.8
04	5.000	4.73	-5.3	05	20.000	21.75	8.7	06	50.000	57.40	14.8
07	100.000	103.94	3.9	08	150.000	153.06	2.0	09	200.000	196.60	-1.7

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.0	02	1.000	1.06	6.0	03	2.000	1.98	-1.0
04	5.000	5.09	1.8	05	20.000	20.40	2.0	06	50.000	50.38	0.8
07	100.000	95.33	-4.7	08	150.000	147.30	-1.8	09	200.000	185.81	-7.1

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.6	02	1.000	1.05	5.2	03	2.000	2.29	14.4
04	5.000	4.69	-6.2	05	20.000	19.10	-4.5	06	50.000	48.90	-2.2
07	100.000	93.43	-6.6	08	150.000	137.74	-8.2	09	200.000	180.99	-9.5

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.2	02	1.000	1.01	0.6	03	2.000	1.98	-1.2
04	5.000	4.70	-6.0	05	20.000	19.90	-0.5	06	50.000	52.92	5.8
07	100.000	101.79	1.8	08	150.000	148.37	-1.1	09	200.000	196.74	-1.6

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.0	02	1.000	1.06	6.4	03	2.000	2.03	1.7
04	5.000	5.12	2.3	05	20.000	20.60	3.0	06	50.000	50.69	1.4
07	100.000	95.64	-4.4	08	150.000	146.25	-2.5	09	200.000	188.14	-5.9

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.1	02	1.000	0.94	-6.5	03	2.000	1.86	-7.0
04	5.000	4.58	-8.4	05	20.000	20.40	2.0	06	50.000	53.76	7.5
07	100.000	104.01	4.0	08	150.000	163.99	9.3	09	200.000	206.15	3.1

00435

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.3	02	1.000	1.02	2.2	03	2.000	1.98	-1.0
04	5.000	5.14	2.8	05	20.000	20.68	3.4	06	50.000	51.69	3.4
07	100.000	97.16	-2.8	08	150.000	148.07	-1.3	09	200.000	195.43	-2.3

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.9	02	1.000	1.01	0.9	03	2.000	2.12	5.8
04	5.000	5.10	1.9	05	20.000	20.70	3.5	06	50.000	52.11	4.2
07	100.000	99.06	-0.9	08	150.000	142.34	-5.1	09	200.000	189.35	-5.3

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.63	26.6	02	1.000	0.93	-6.8	03	2.000	1.89	-5.3
04	5.000	4.94	-1.1	05	20.000	19.85	-0.8	06	50.000	53.37	6.7
07	100.000	98.03	-2.0	08	150.000	134.44	-10.4	09	200.000	186.05	-7.0

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.38	19.2	04	5.000	4.00	-20.1	05	20.000	19.41	-3.0
06	50.000	52.56	5.1	07	100.000	99.62	-0.4	08	150.000	147.68	-1.5
09	200.000	201.36	0.7								

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.7	02	1.000	1.04	4.0	03	2.000	2.13	6.7
04	5.000	5.13	2.5	05	20.000	21.60	8.0	06	50.000	53.42	6.8
07	100.000	97.01	-3.0	08	150.000	133.40	-11.1	09	200.000	162.67	-18.7

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	19.7	02	1.000	1.03	2.6	03	2.000	1.92	-3.8
04	5.000	4.69	-6.3	05	20.000	19.73	-1.4	06	50.000	48.66	-2.7
07	100.000	96.00	-4.0	08	150.000	151.02	0.7	09	200.000	190.30	-4.9

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.7	02	1.000	0.84	-15.5	03	2.000	2.10	5.1
04	5.000	5.06	1.3	05	20.000	20.28	1.4	06	50.000	52.85	5.7
07	100.000	102.46	2.5	08	150.000	152.28	1.5	09	200.000	199.52	-0.2

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.2	02	1.000	0.89	-10.9	03	2.000	1.97	-1.6
04	5.000	4.72	-5.6	05	20.000	20.46	2.3	06	50.000	52.14	4.3
07	100.000	102.32	2.3	08	150.000	159.08	6.1	09	200.000	205.92	3.0

00436

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.8	02	1.000	0.95	-4.6	03	2.000	2.04	1.8
04	5.000	5.15	3.0	05	20.000	21.32	6.6	06	50.000	53.39	6.8
07	100.000	100.36	0.4	08	150.000	148.36	-1.1	09	200.000	189.88	-5.1

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.3	02	1.000	1.11	11.3	03	2.000	2.01	0.5
04	5.000	4.83	-3.4	05	20.000	19.62	-1.9	06	50.000	48.66	-2.7
07	100.000	92.69	-7.3	08	150.000	141.55	-5.6	09	200.000	185.62	-7.2

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.0	02	1.000	1.05	5.2	03	2.000	2.01	0.6
04	5.000	5.58	11.7	05	20.000	22.89	14.5	06	50.000	54.43	8.9
07	100.000	94.26	-5.7	08	150.000	121.68	-18.9	09	200.000	143.70	-28.2

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.32	-7.1	02	5.000	4.95	-0.9	03	10.000	8.94	-10.6
04	25.000	24.39	-2.4	05	100.000	101.27	1.3	06	250.000	261.32	4.5
07	500.000	509.96	2.0	08	750.000	828.70	10.5	09	1000.000	1,028.21	2.8

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.0	02	1.000	1.02	1.5	03	2.000	1.93	-3.4
04	5.000	4.95	-1.0	05	20.000	21.33	6.6	06	50.000	53.40	6.8
07	100.000	102.62	2.6	08	150.000	146.30	-2.5	09	200.000	182.72	-8.6

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.7	02	1.000	1.22	22.5	03	2.000	1.93	-3.5
04	5.000	4.97	-0.6	05	20.000	20.03	0.1	06	50.000	50.36	0.7
07	100.000	94.88	-5.1	08	150.000	133.38	-11.1	09	200.000	184.40	-7.8

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.14	14.4	03	2.000	2.56	28.0	04	5.000	5.23	4.7
05	20.000	17.52	-12.4	06	50.000	45.47	-9.1	07	100.000	89.69	-10.3
08	150.000	144.86	-3.4	09	200.000	176.33	-11.8				

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.08	8.1	03	2.000	2.07	3.7
04	5.000	4.91	-1.8	05	20.000	21.15	5.8	06	50.000	52.92	5.8
07	100.000	98.63	-1.4	08	150.000	138.01	-8.0	09	200.000	170.54	-14.7

00437

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.74	7.4	05	20.000	19.55	-2.3	06	50.000	52.42	4.8
07	100.000	99.29	-0.7	08	200.000	181.57	-9.2				

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.6	02	1.000	1.12	12.3	03	2.000	2.04	2.1
04	5.000	5.11	2.2	05	20.000	20.01	0.1	06	50.000	49.46	-1.1
07	100.000	93.41	-6.6	08	150.000	129.36	-13.8	09	200.000	176.30	-11.9

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.4	02	1.000	1.11	11.5	03	2.000	1.95	-2.5
04	5.000	4.94	-1.1	05	20.000	21.17	5.9	06	50.000	53.08	6.2
07	100.000	96.00	-4.0	08	150.000	138.66	-7.6	09	200.000	184.35	-7.8

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.76	-23.8	03	2.000	2.57	28.6	04	5.000	4.15	-17.0
05	20.000	21.92	9.6	06	50.000	54.30	8.6	07	100.000	99.01	-1.0
08	150.000	164.10	9.4	09	200.000	171.16	-14.4				

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	21.6	02	1.000	0.96	-4.4	03	2.000	1.80	-10.1
04	5.000	4.98	-0.5	05	20.000	20.54	2.7	06	50.000	52.90	5.8
07	100.000	97.43	-2.6	08	150.000	143.35	-4.4	09	200.000	183.80	-8.1

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.65	30.8	02	1.000	1.01	1.3	03	2.000	1.91	-4.6
04	5.000	4.64	-7.1	05	20.000	20.12	0.6	06	50.000	50.17	0.3
07	100.000	93.59	-6.4	08	150.000	137.89	-8.1	09	200.000	186.41	-6.8

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.2	02	1.000	0.93	-6.9	03	2.000	2.03	1.7
04	5.000	4.75	-5.0	05	20.000	21.22	6.1	06	50.000	54.20	8.4
07	100.000	104.40	4.4	08	150.000	155.52	3.7	09	200.000	203.41	1.7

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.04	4.4	02	2.000	1.94	-2.8	03	4.000	4.21	5.1
04	10.000	10.19	1.9	05	40.000	42.48	6.2	06	100.000	107.10	7.1
07	200.000	198.92	-0.5	08	300.000	275.20	-8.3	09	400.000	347.56	-13.1

00438

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.93	-7.2	03	2.000	1.75	-12.5	04	5.000	4.83	-3.5
05	20.000	20.17	0.8	06	50.000	54.51	9.0	07	100.000	107.54	7.5
08	150.000	161.07	7.4	09	200.000	196.68	-1.7				

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.9	02	1.000	1.05	4.9	03	2.000	2.09	4.5
04	5.000	5.33	6.5	05	20.000	21.45	7.2	06	50.000	54.01	8.0
07	100.000	95.95	-4.1	08	150.000	126.69	-15.5	09	200.000	156.97	-21.5

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.72	44.1	02	1.000	1.12	11.7	03	2.000	2.00	-0.1
04	5.000	4.51	-9.7	05	20.000	19.34	-3.3	06	50.000	49.27	-1.5
07	100.000	89.79	-10.2	08	150.000	126.33	-15.8	09	200.000	169.57	-15.2

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.6	02	1.000	1.15	14.6	03	2.000	2.22	11.2
04	5.000	5.43	8.6	05	20.000	22.24	11.2	06	50.000	53.74	7.5
07	100.000	90.61	-9.4	08	150.000	113.50	-24.3	09	200.000	138.06	-31.0

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.0	02	1.000	1.11	11.4	03	2.000	1.98	-1.0
04	5.000	5.01	0.1	05	20.000	20.17	0.9	06	50.000	50.35	0.7
07	100.000	96.76	-3.2	08	150.000	139.20	-7.2	09	200.000	182.68	-8.7

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.3	02	1.000	1.08	8.4	03	2.000	2.19	9.6
04	5.000	5.45	8.9	05	20.000	22.00	10.0	06	50.000	54.10	8.2
07	100.000	93.32	-6.7	08	150.000	121.02	-19.3	09	200.000	148.89	-25.6

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.4	02	1.000	1.02	2.0	03	2.000	2.09	4.3
04	5.000	4.89	-2.3	05	20.000	20.72	3.6	06	50.000	51.27	2.5
07	100.000	97.56	-2.4	08	150.000	149.38	-0.4	09	200.000	194.07	-3.0

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.8	02	1.000	1.10	10.0	03	2.000	2.03	1.6
04	5.000	5.22	4.3	05	20.000	21.33	6.6	06	50.000	53.14	6.3
07	100.000	95.17	-4.8	08	150.000	128.68	-14.2	09	200.000	166.75	-16.6

00439

Initial Calibration - Detailed Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.2	02	1.000	1.15	14.9	03	2.000	1.99	-0.3
04	5.000	4.88	-2.3	05	20.000	20.49	2.5	06	50.000	50.77	1.5
07	100.000	96.87	-3.1	08	150.000	140.45	-6.4	09	200.000	188.75	-5.6

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.2	02	1.000	0.92	-8.1	03	2.000	1.84	-8.1
04	5.000	4.56	-8.8	05	20.000	21.62	8.1	06	50.000	55.22	10.4
07	100.000	109.35	9.4	08	150.000	164.89	9.9	09	200.000	213.06	6.5

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	15.0	02	1.000	0.72	-28.4	03	2.000	1.86	-7.1
04	5.000	4.05	-19.0	05	20.000	18.12	-9.4	06	50.000	50.84	1.7
07	100.000	111.99	12.0	08	150.000	178.37	18.9	09	200.000	232.71	16.4

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FD 9/11/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	753822	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1083955	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	928832	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	489365	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	74005	10.48	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.96%#				
46) surr1,1,2-dichloroetha...	6.031	65	105194	10.96	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.92%#				
64) SURR3,Toluene-d8	8.494	98	271673	10.78	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.56%#				
69) SURR2,BFB	11.018	95	103470	9.73	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 19.46%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	3269	0.51	ug/L		85
3) Chloromethane	1.294	50	5271	0.62	ug/L		94
4) Vinyl Chloride	1.379	62	4788	0.64	ug/L		98
5) Bromomethane	1.623	94	2548	0.61	ug/L		83
6) Chloroethane	1.709	64	2581	0.61	ug/L		73
7) Freon 21	1.861	67	6945	0.57	ug/L		77
8) Trichlorofluoromethane	1.910	101	5045	0.54	ug/L		79
9) Diethyl Ether	2.166	59	3788	0.51	ug/L	#	73
10) Freon 123a	2.178	67	4182	0.52	ug/L	#	69
11) Freon 123	2.227	83	4059	0.46	ug/L		87
12) Acrolein	2.270	56	5846	2.39	ug/L		87
13) 1,1-Diclethene	2.361	96	3365	0.55	ug/L	#	73
14) Freon 113	2.373	101	4264	0.65	ug/L		87
15) Acetone	2.416	43	7663	1.22	ug/L		82
16) 2-Propanol	2.574	45	12242	8.63	ug/L		79
17) Iodomethane	2.513	142	2210m	0.33	ug/L		
18) Carbon Disulfide	2.568	76	11320	0.64	ug/L		93
19) Acetonitrile	2.708	40	3376m	2.93	ug/L		
20) Allyl Chloride	2.721	76	2186	0.61	ug/L	#	43
21) Methyl Acetate	2.763	43	5731	0.49	ug/L		87
22) Methylene Chloride	2.849	84	4544m	0.61	ug/L		
23) TBA	3.001	59	16076	8.20	ug/L		99
24) Acrylonitrile	3.141	53	10205	1.94	ug/L		84
25) Methyl-t-Butyl Ether	3.184	73	11788	0.46	ug/L		88
26) trans-1,2-Dichloroethene	3.178	96	3353m	0.51	ug/L		
27) 1,1-Diclethane	3.708	63	7865	0.59	ug/L		93
29) DIPE	3.861	45	16257	0.51	ug/L		90
30) 2-Chloro-1,3-Butadiene	3.855	53	7824m	0.54	ug/L		
31) ETBE	4.434	59	13233m	0.49	ug/L		
32) 2,2-Dichloropropane	4.604	77	5445m	0.53	ug/L		
33) cis-1,2-Dichloroethene	4.617	96	5159m	0.69	ug/L		
35) Propionitrile	4.775	54	5052m	2.36	ug/L		
36) Bromochloromethane	5.043	130	2414m	0.50	ug/L		
37) Methacrylonitrile	5.056	67	2836m	0.60	ug/L		

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Tetrahydrofuran	5.171	42	4219	0.81	ug/L		66
39) Chloroform	5.251	83	5803	0.45	ug/L		78
40) 1,1,1-Trichloroethane	5.513	97	5769m	0.53	ug/L		
42) Cyclohexane	5.592	41	5477m	0.59	ug/L		
44) Carbontetrachloride	5.793	121	1410	0.53	ug/L	#	23
45) 1,1-Dichloropropene	5.799	75	4734	0.51	ug/L		80
47) Benzene	6.110	78	15986	0.59	ug/L		78
48) 1,2-Dichloroethane	6.153	62	6702	0.54	ug/L		88
49) Iso-Butyl Alcohol	6.141	43	8662	8.84	ug/L		93
50) TAME	6.342	73	11337	0.50	ug/L		99
51) n-Heptane	6.592	43	9942	0.81	ug/L		90
52) 1-Butanol	7.073	56	8745m	16.58	ug/L		
53) Trichloroethene	7.031	130	5022	0.60	ug/L		91
54) Methylcyclohexane	7.256	55	6973	0.66	ug/L		91
55) 1,2-Diclpropane	7.317	63	3911m	0.48	ug/L		
56) Dibromomethane	7.445	93	2628	0.50	ug/L	#	69
57) 1,4-Dioxane	7.519	88	1194	6.31	ug/L		88
58) Methyl Methacrylate	7.531	69	3521	0.50	ug/L	#	81
59) Bromodichloromethane	7.671	83	4550	0.45	ug/L		92
60) 2-Nitropropane	7.945	41	2651m	0.78	ug/L		
61) 2-Chloroethylvinyl Ether	8.073	63	3040	0.49	ug/L		86
62) cis-1,3-Dichloropropene	8.195	75	5016	0.44	ug/L		95
63) 4-Methyl-2-pentanone	8.409	43	7990	0.54	ug/L		98
65) Toluene	8.567	91	15504	0.54	ug/L		83
66) trans-1,3-Dichloropropene	8.829	75	4362	0.39	ug/L		88
67) Ethyl Methacrylate	8.963	69	5812	0.48	ug/L		100
68) 1,1,2-Trichloroethane	9.018	97	2956	0.41	ug/L		81
71) Tetrachloroethene	9.146	164	3134	0.55	ug/L	#	79
72) 2-Hexanone	9.299	43	4721	0.42	ug/L		89
73) 1,3-Dichloropropane	9.177	76	5593	0.46	ug/L		82
74) Dibromochloromethane	9.396	129	2901	0.40	ug/L	#	61
75) N-Butyl Acetate	9.451	43	7589	0.40	ug/L	#	62
76) 1,2-Dibromoethane	9.500	107	3535	0.46	ug/L	#	76
77) 3-Chlorobenzotrifluoride	10.000	180	7235	0.65	ug/L	#	86
78) Chlorobenzene	9.988	112	9097	0.49	ug/L		97
79) 4-Chlorobenzotrifluoride	10.055	180	6160	0.63	ug/L		88
80) 1,1,1,2-Tetrachloroethane	10.073	131	2837	0.42	ug/L		89
81) Ethylbenzene	10.097	106	4882	0.50	ug/L	#	79
82) (m+p)Xylene	10.213	106	12616	1.07	ug/L	#	61
83) o-Xylene	10.567	106	6734	0.57	ug/L	#	84
84) Styrene	10.573	104	10041	0.50	ug/L		80
85) Bromoform	10.731	173	1969	0.36	ug/L	#	20
86) 2-Chlorobenzotrifluoride	10.811	180	5487	0.51	ug/L		84
87) Isopropylbenzene	10.896	105	16207	0.55	ug/L		94
88) Cyclohexanone	10.957	55	18397	8.52	ug/L		81
89) trans-1,4-Dichloro-2-B...	11.207	53	2209m	0.61	ug/L		
91) 1,1,2,2-Tetrachloroethane	11.146	83	2505	0.30	ug/L	#	67
92) Bromobenzene	11.146	156	5735	0.69	ug/L	#	66
93) 1,2,3-Trichloropropane	11.182	110	2283	0.70	ug/L	#	36
94) n-Propylbenzene	11.249	91	19662	0.59	ug/L		98
95) 2-Chlorotoluene	11.310	91	12183	0.57	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

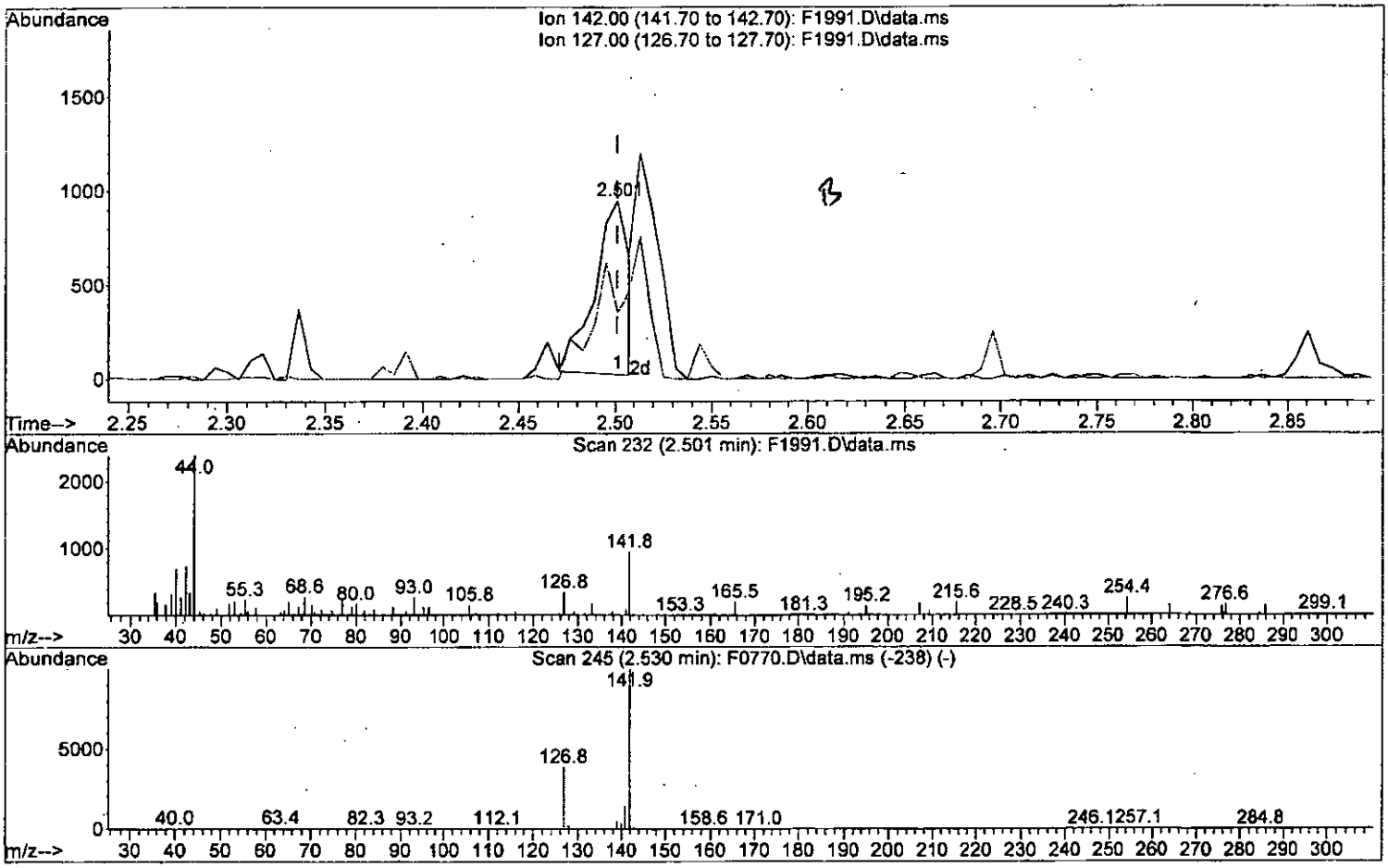
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
96)	3-Chlorotoluene	11.365	91	12036	0.55	ug/L		95
97)	4-Chlorotoluene	11.402	91	13376	0.54	ug/L		95
98)	1,3,5-Trimethylbenzene	11.402	105	13319	0.58	ug/L		93
99)	tert-Butylbenzene	11.676	119	11343	0.55	ug/L		98
100)	1,2,4-Trimethylbenzene	11.713	105	13550	0.57	ug/L		99
101)	3,4-Dichlorobenzotrifl...	11.774	214	5988	0.69	ug/L		93
102)	sec-Butylbenzene	11.853	105	16454	0.56	ug/L		85
103)	p-Isopropyltoluene	11.975	119	15091	0.62	ug/L		94
104)	1,3-Dclbenz	11.926	146	7805	0.52	ug/L		79
105)	1,4-Dclbenz	12.005	146	10113	0.63	ug/L		94
106)	2,4-Dichlorobenzotrifl...	12.060	214	5702	0.73	ug/L		96
107)	2,5-Dichlorobenzotrifl...	12.103	214	5772m	0.67	ug/L		
108)	n-Butylbenzene	12.304	91	14179	0.57	ug/L		98
109)	1,2-Dclbenz	12.310	146	8868	0.58	ug/L		96
110)	1,2-Dibromo-3-chloropr...	12.932	157	1006	0.41	ug/L	#	83
111)	Trielution Dichlorotol...	13.048	125	23768	1.75	ug/L		94
112)	1,3,5-Trichlorobenzene	13.097	180	7406	0.61	ug/L		89
113)	Coelution Dichlorotoluene	13.377	125	16988	1.14	ug/L		89
114)	1,2,4-Tcbenzene	13.584	180	7310	0.61	ug/L		97
115)	Hexachlorobt	13.712	225	3272	0.66	ug/L	#	68
116)	Naphthalen	13.773	128	19305	0.56	ug/L		96
117)	1,2,3-Tclbenzene	13.962	180	5949	0.49	ug/L	#	81
118)	2,4,5-Trichlorotoluene	14.548	159	5286	0.55	ug/L		94
119)	2,3,6-Trichlorotoluene	14.633	159	5415m	0.64	ug/L		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(17) Iodomethane

2.501min (+0.000) 0.17 ug/L

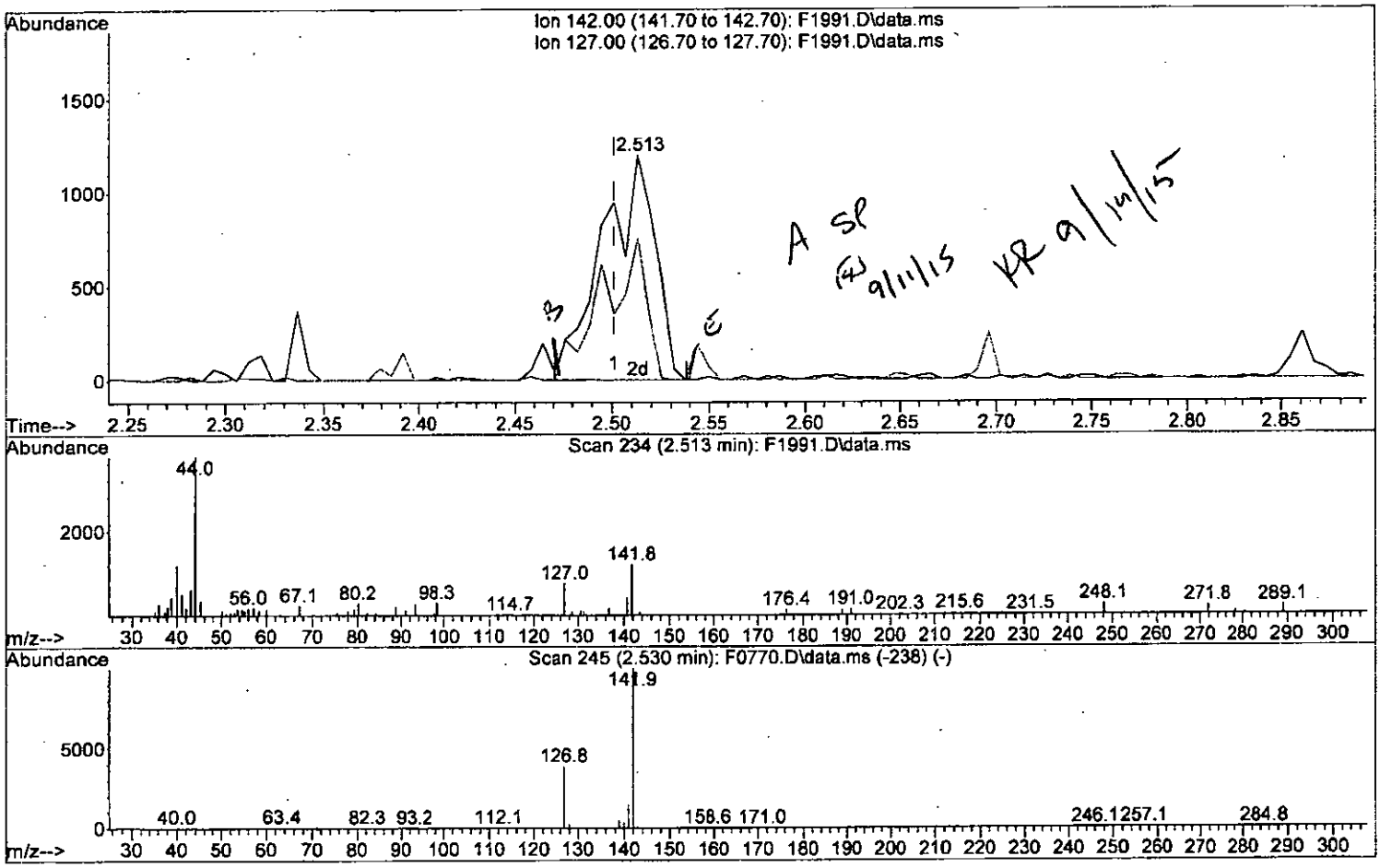
response 1154

Ion	Exp%	Act%
142.00	100	100
127.00	38.60	36.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(17) Iodomethane

2.513min (+0.012) 0.33 ug/L m

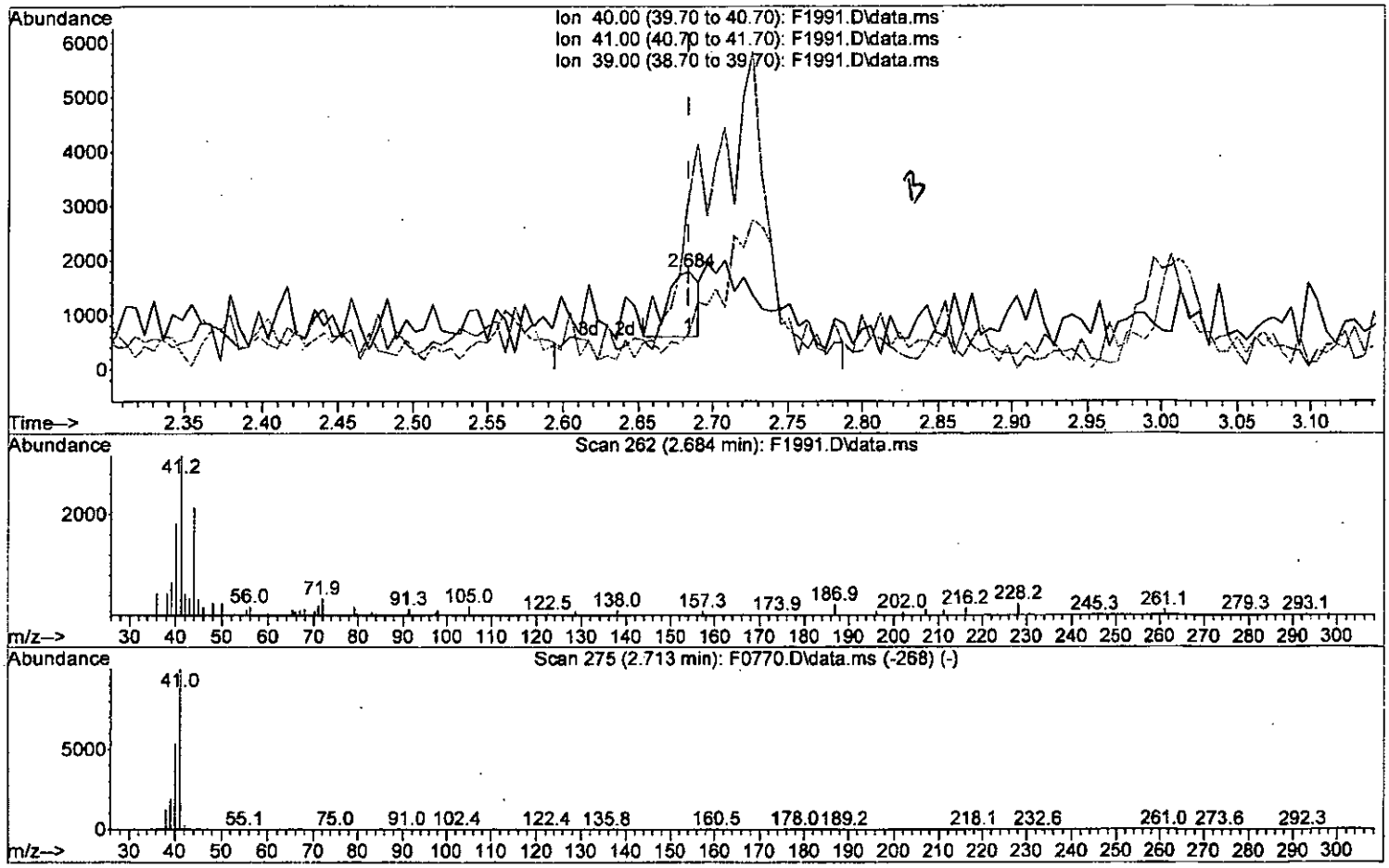
response 2210

Ion	Exp%	Act%
142.00	100	100
127.00	38.60	62.97#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(19) Acetonitrile

2.684min (+0.000) 1.64 ug/L

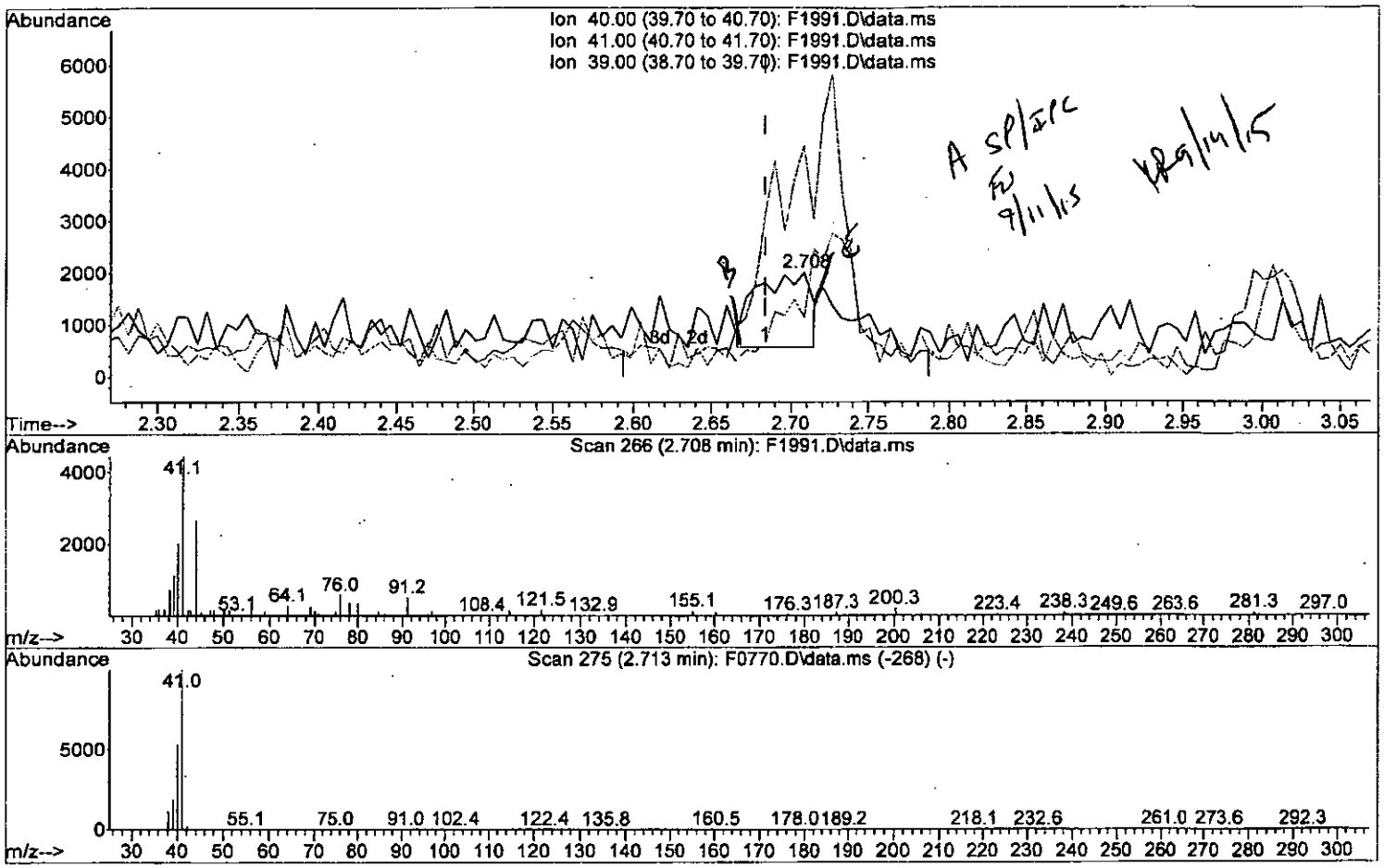
response 1693

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	175.79
39.00	35.30	36.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



A SP/SRC FW 9/11/15 KRG 9/14/15

TIC: F1991.D\data.ms

(19) Acetonitrile

2.708min (+0.024) 2.93 ug/L m

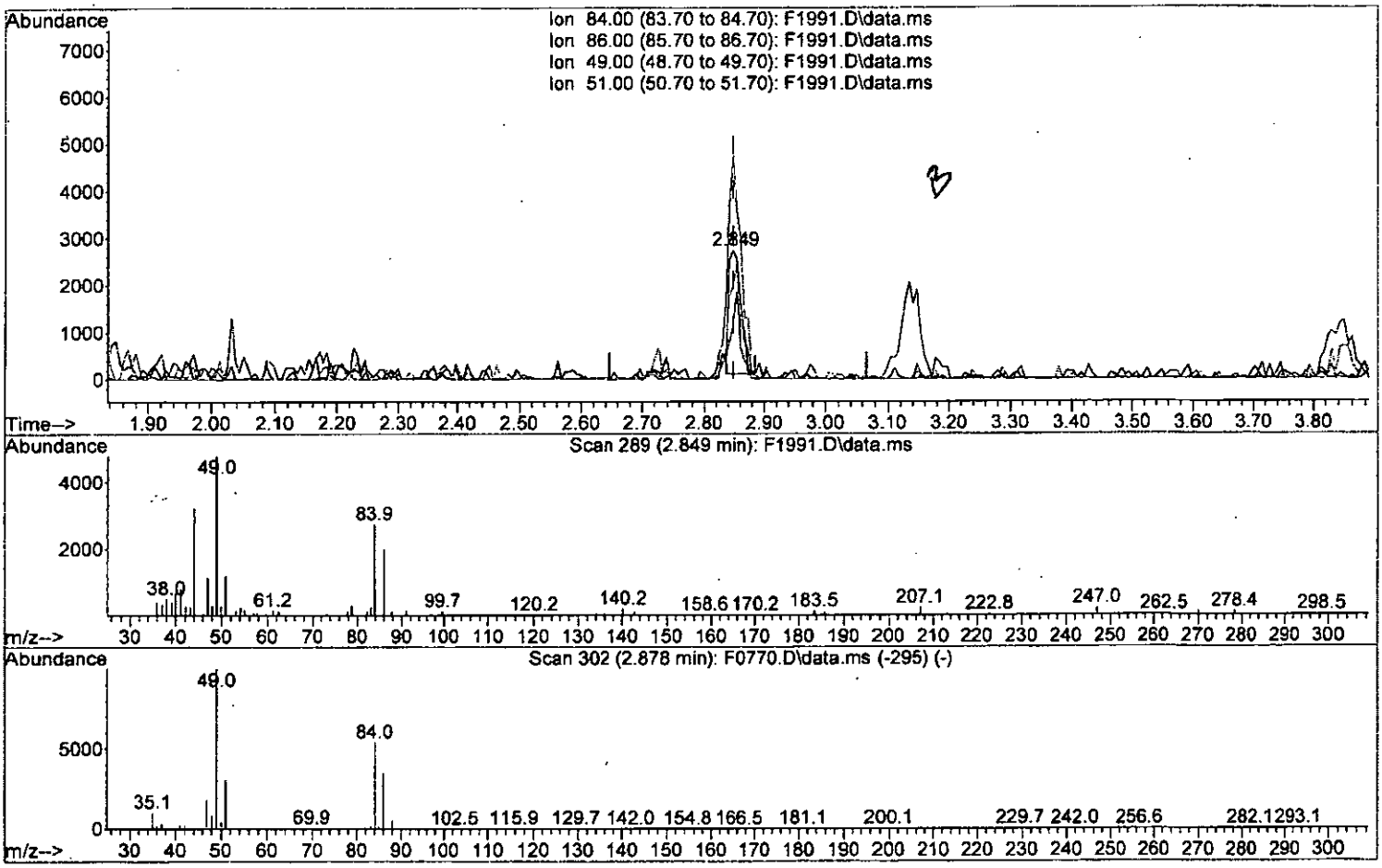
response 3376

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	221.74#
39.00	35.30	56.92#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(22) Methylene Chloride (P)

2.849min (+0.000) 0.50 ug/L

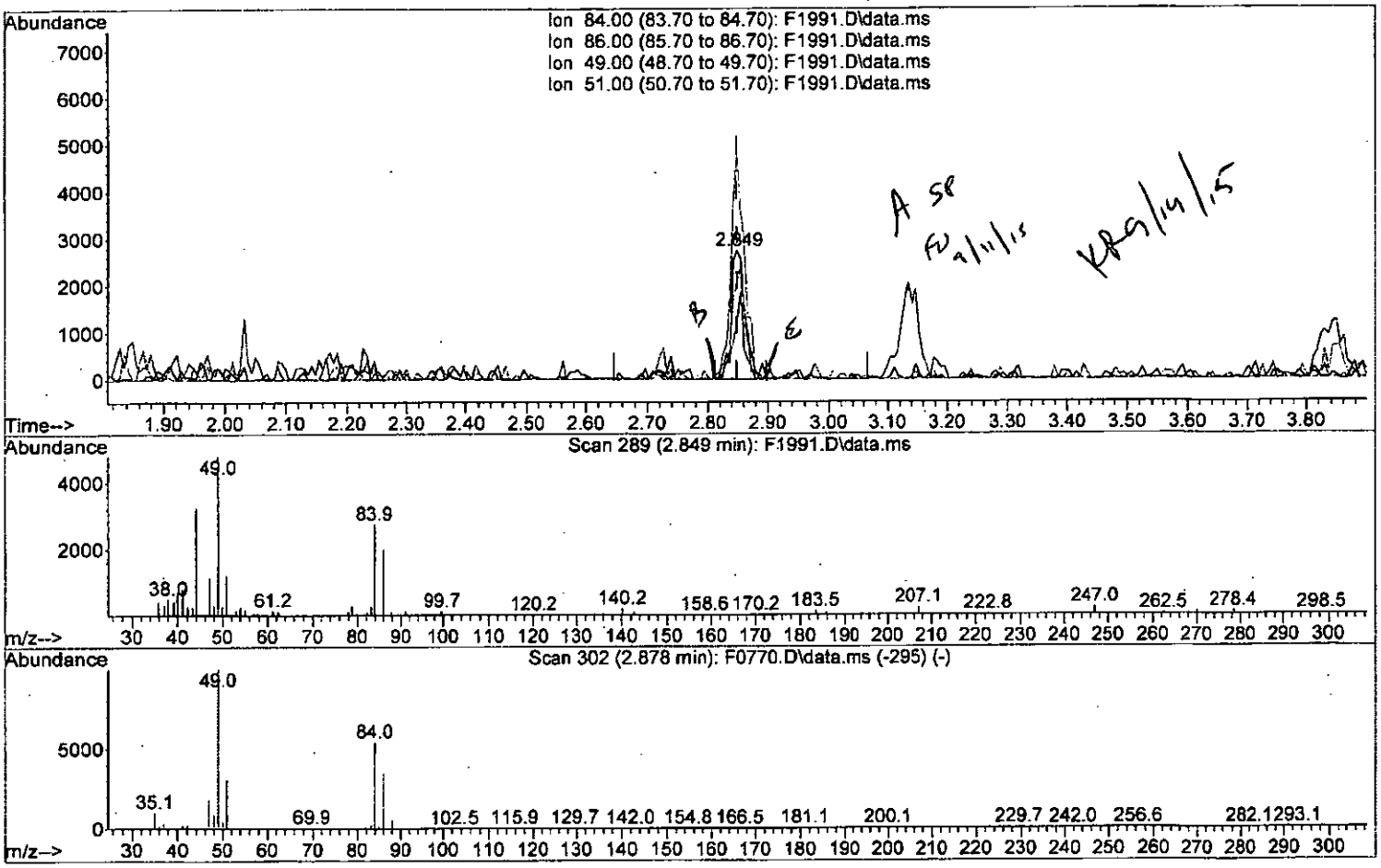
response 3739

Ion	Exp%	Act%
84.00	100	100
86.00	63.40	72.54
49.00	185.00	175.10
51.00	56.30	44.02

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(22) Methylene Chloride (P)

2.849min (+0.000) 0.61 ug/L m

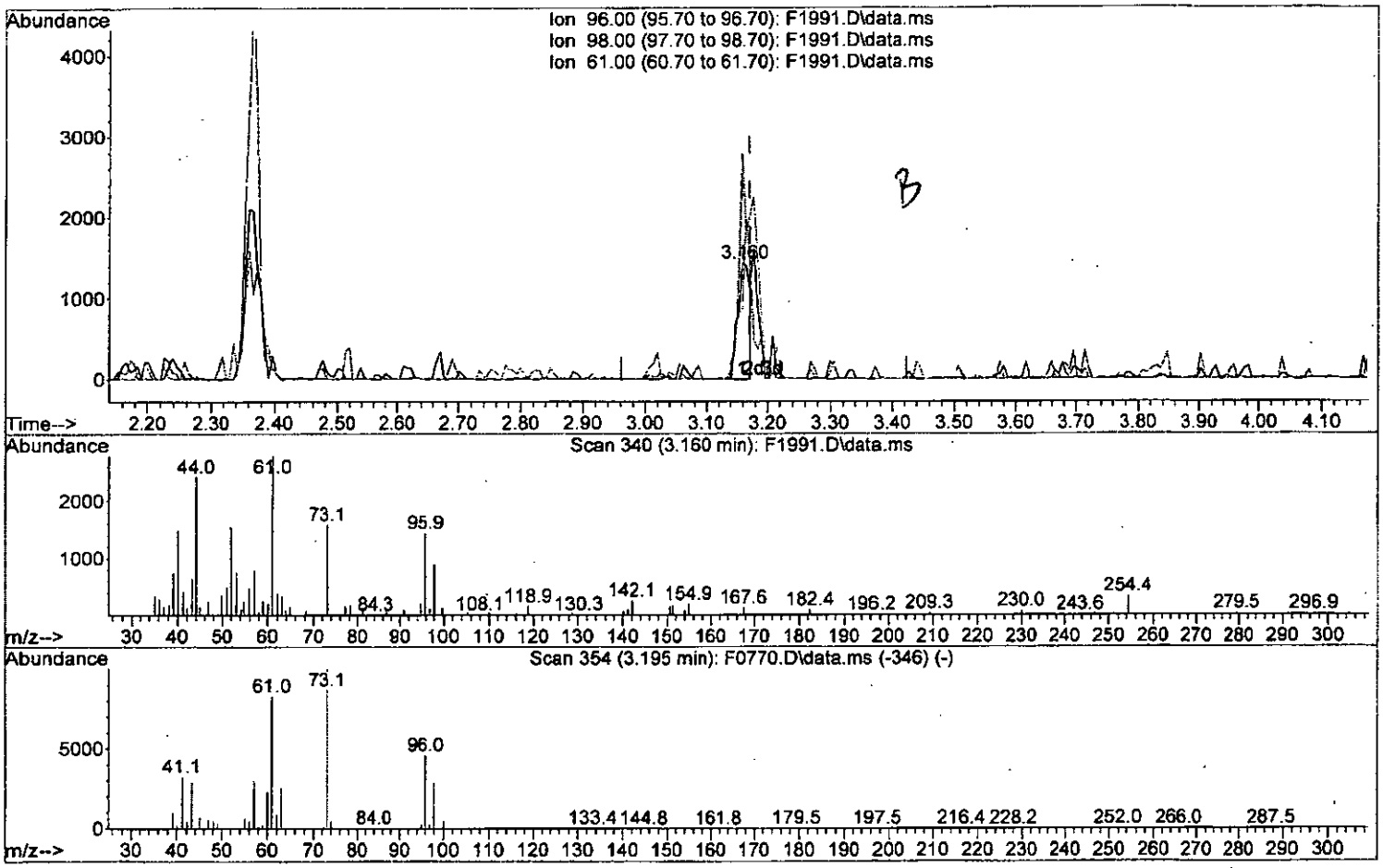
response 4544

Ion	Exp%	Act%
84.00	100	100
86.00	63.40	72.54
49.00	185.00	175.10
51.00	56.30	44.02

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.160min (-0.012) 0.30 ug/L

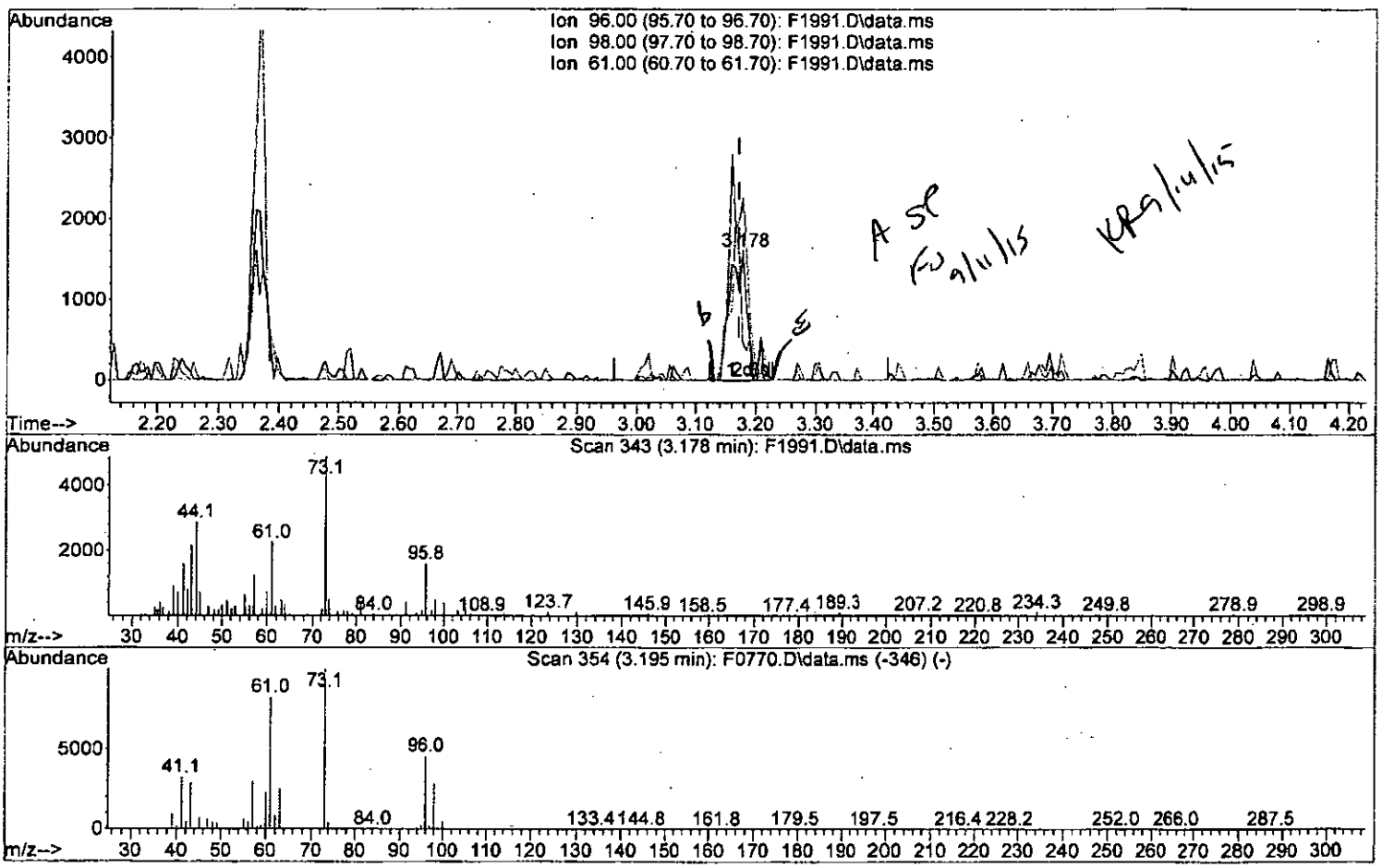
response 1978

Ion	Exp%	Act%
96.00	100	100
98.00	62.90	61.85
61.00	180.60	194.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



A SC 9/11/15 KPS 9/14/15

TIC: F1991.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.178min (+0.006) 0.51 ug/L m

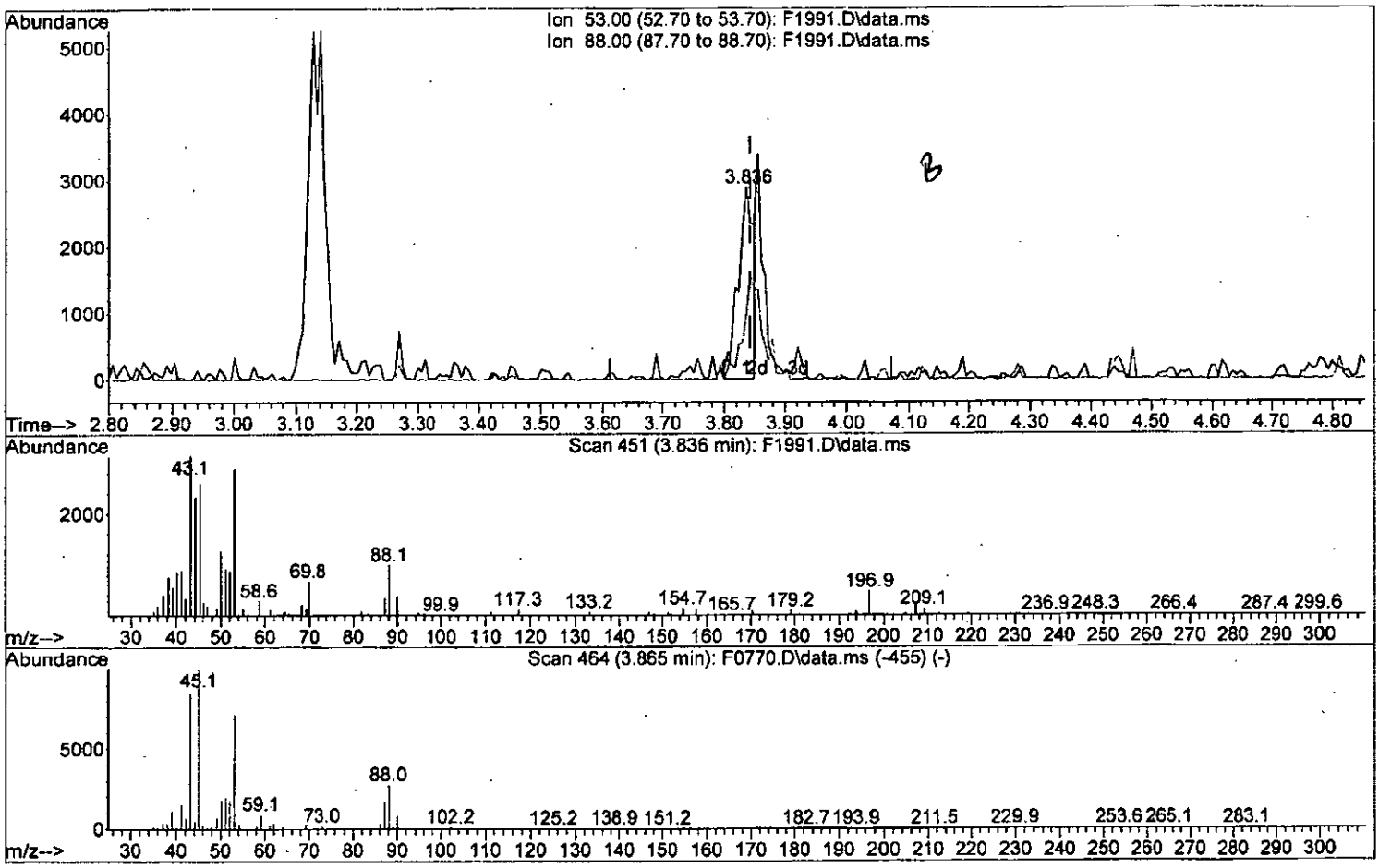
response 3353

Ion	Exp%	Act%
96.00	100	100
98.00	62.90	30.08#
61.00	180.60	140.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.836min (-0.006) 0.33 ug/L

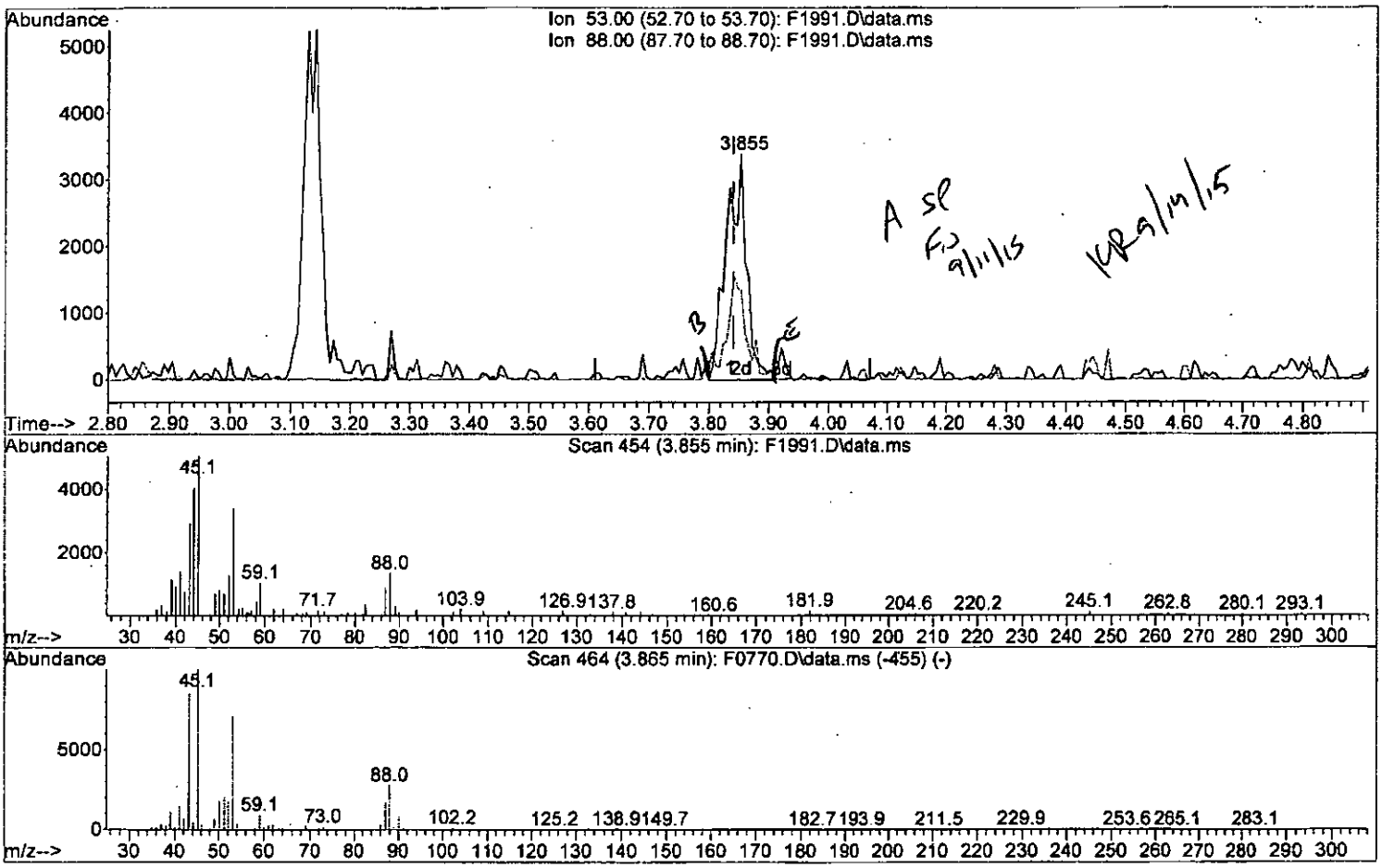
response 4793

Ion	Exp%	Act%
53.00	100	100
88.00	38.50	34.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(30) 2-Chloro-1,3-Butadiene

3.855min (+0.012) 0.54 ug/L m

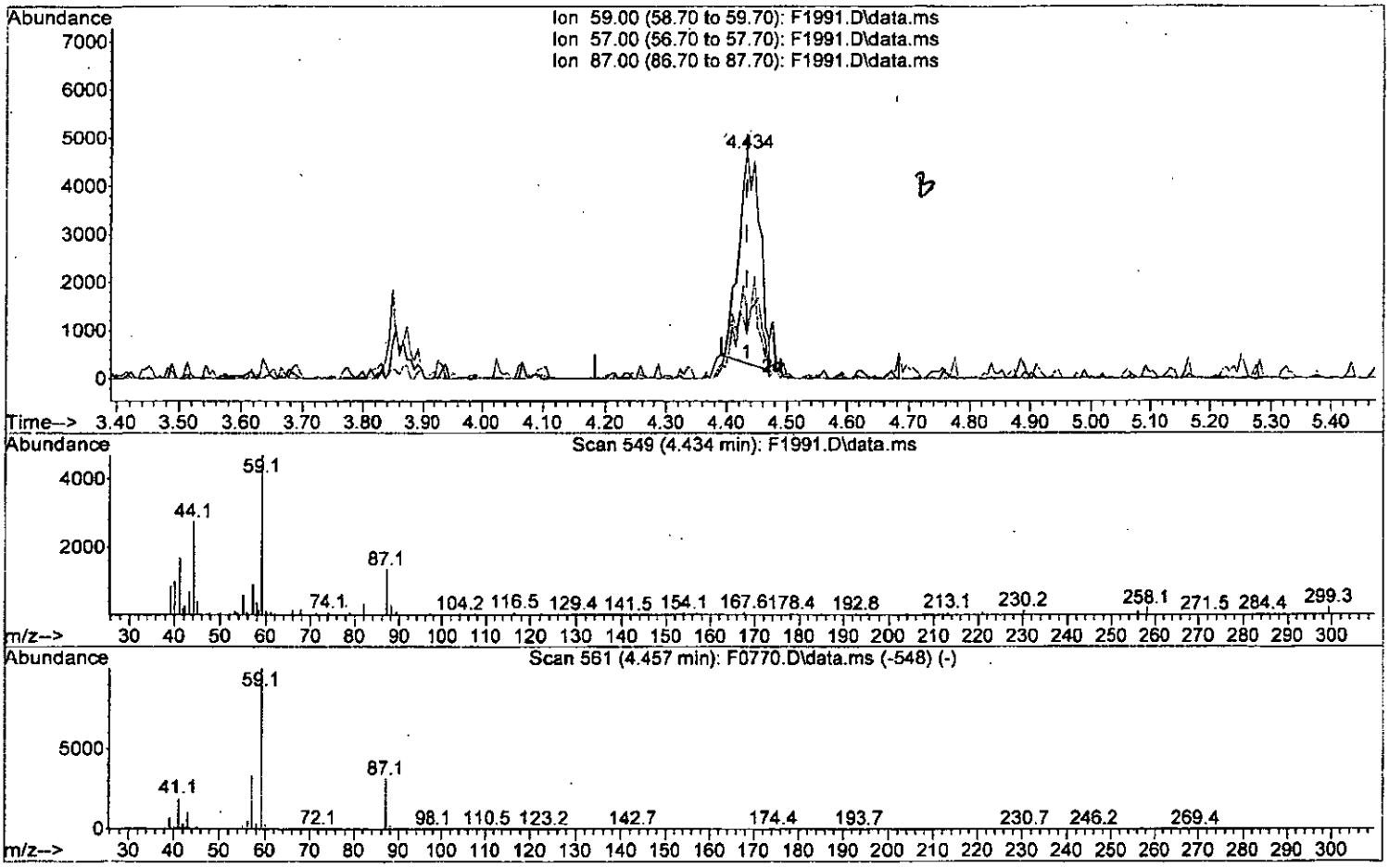
response 7824

Ion	Exp%	Act%
53.00	100	100
88.00	38.50	39.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(31) ETBE

4.434min (+0.000) 0.39 ug/L

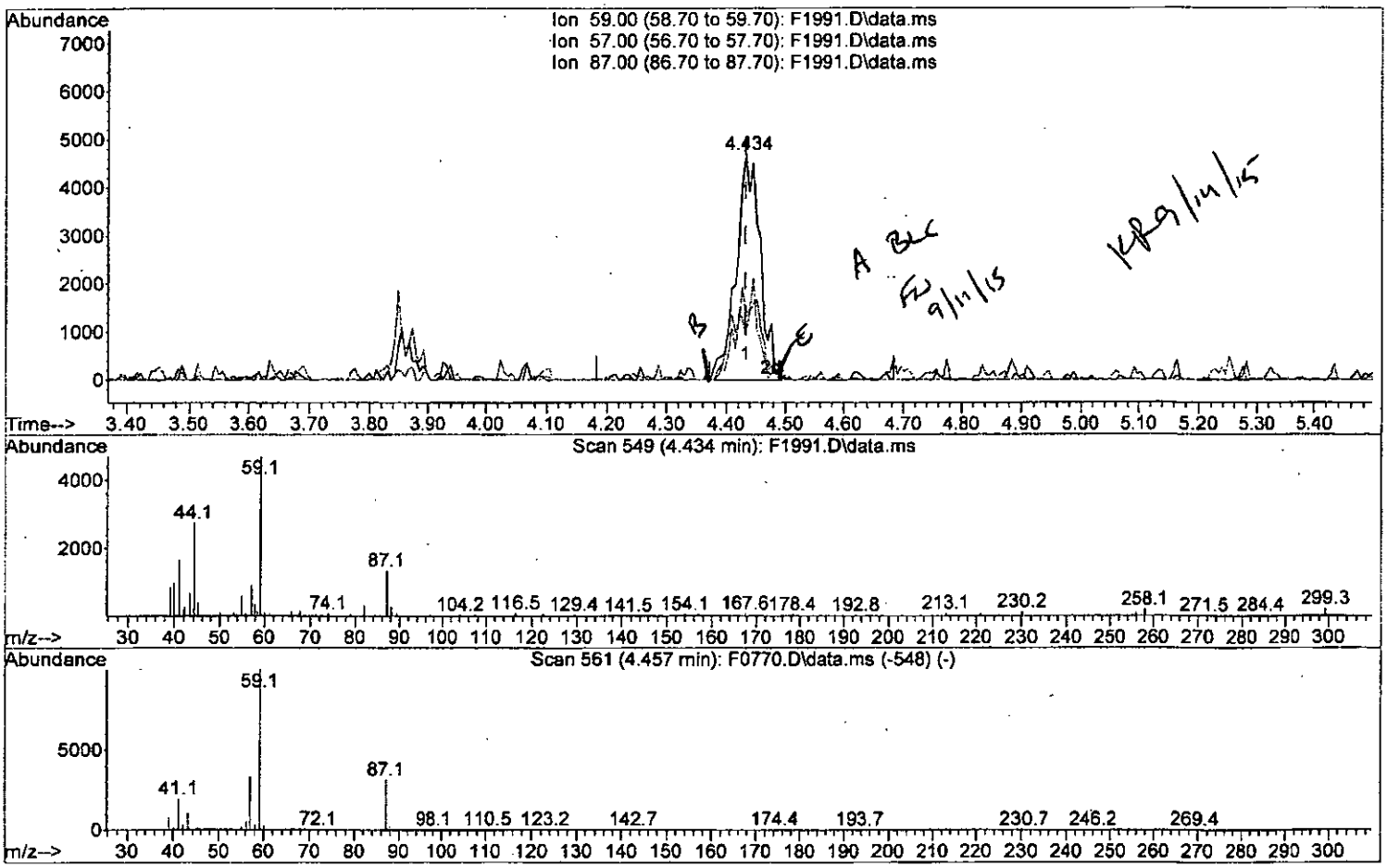
response 10652

Ion	Exp%	Act%
59.00	100	100
57.00	33.10	19.19
87.00	31.20	28.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(31) ETBE

4.434min (+0.000) 0.49 ug/L m

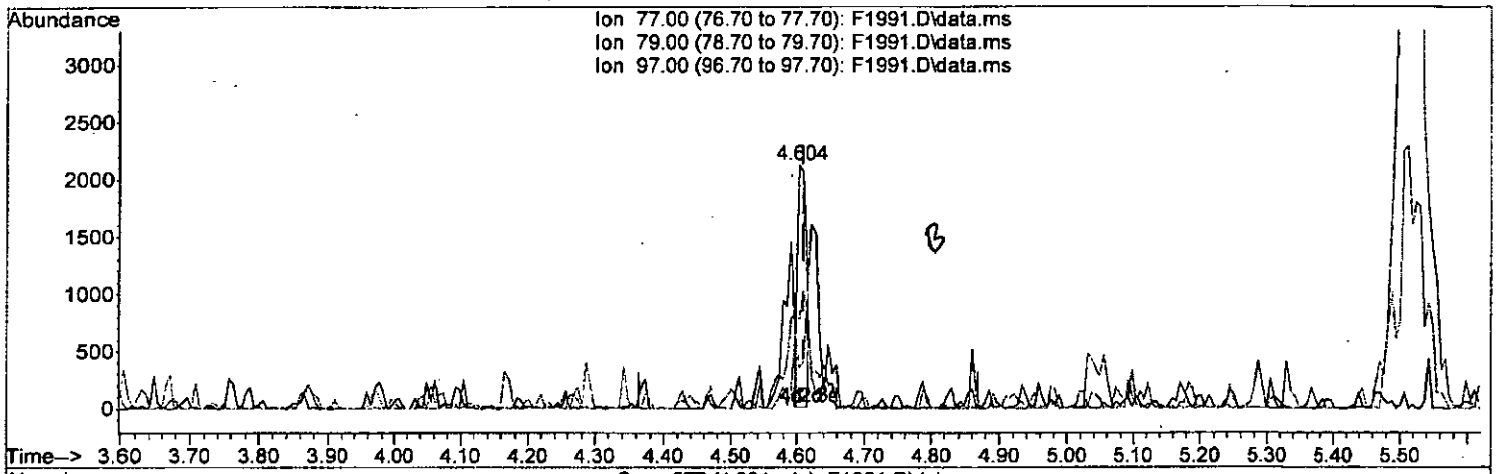
response 13233

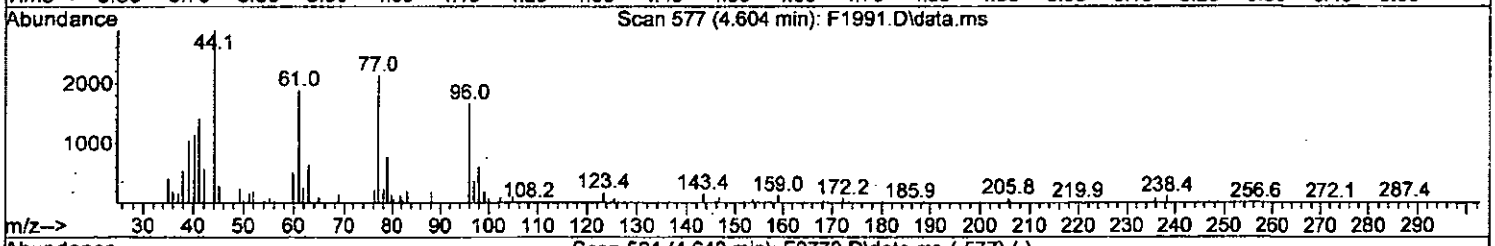
Ion	Exp%	Act%
59.00	100	100
57.00	33.10	19.19
87.00	31.20	28.46
0.00	0.00	0.00

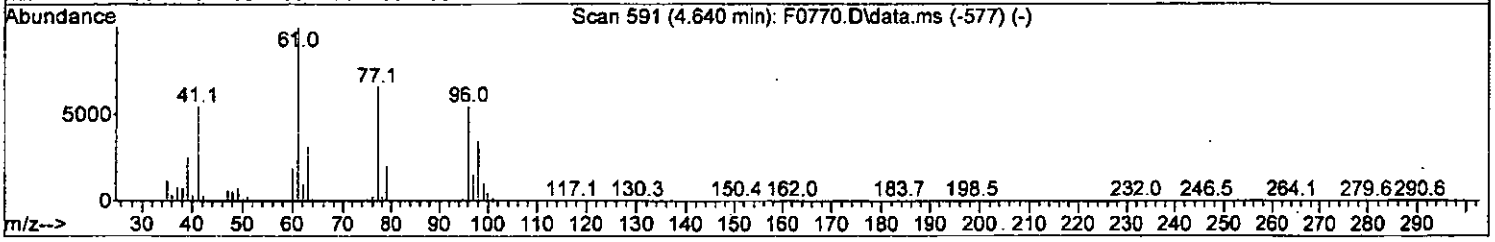
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(32) 2,2-Dichloropropane

4.604min (-0.006) 0.19 ug/L

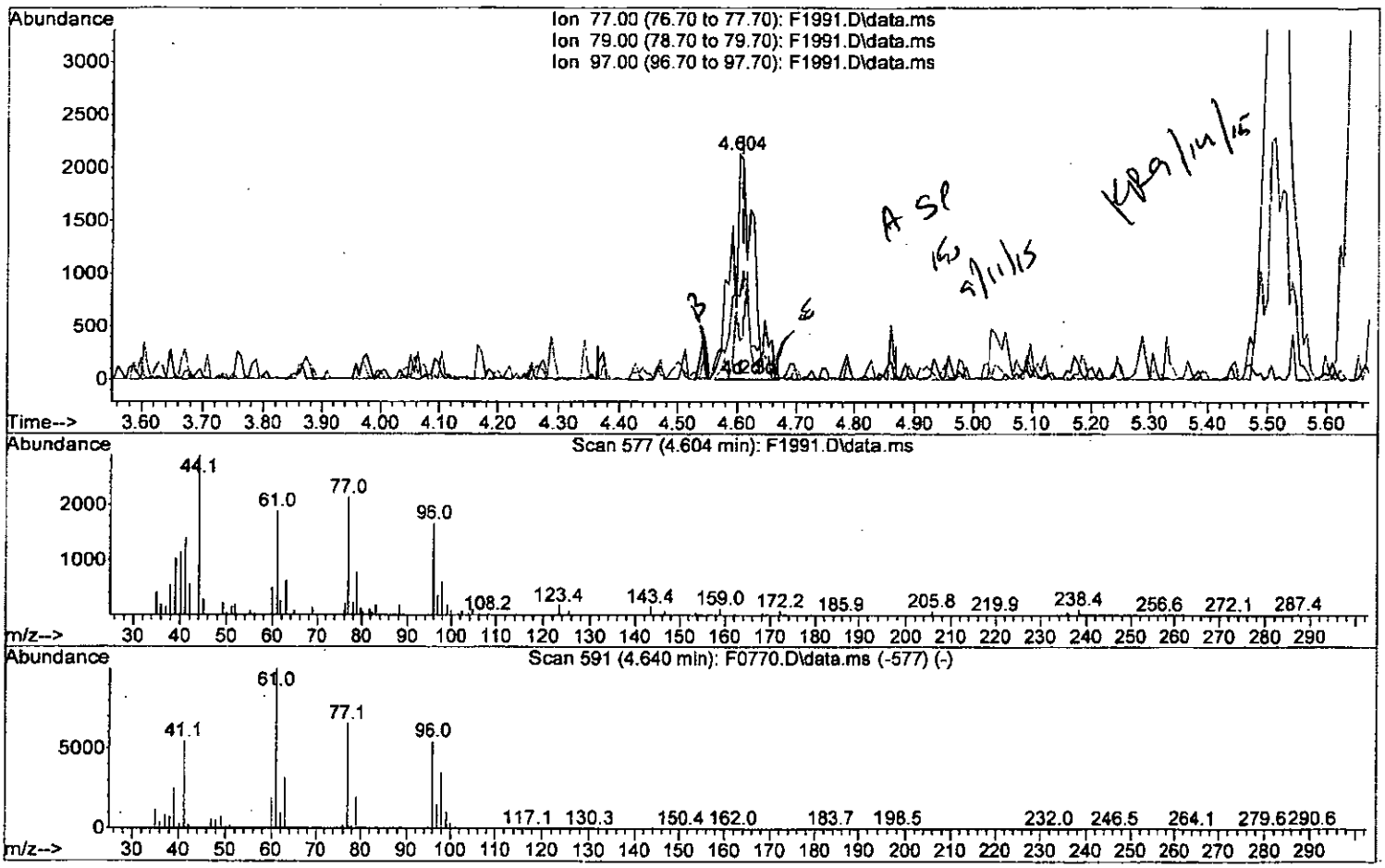
response 1931

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	36.18
97.00	22.40	16.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(32) 2,2-Dichloropropane

4.604min (-0.006) 0.53 ug/L m

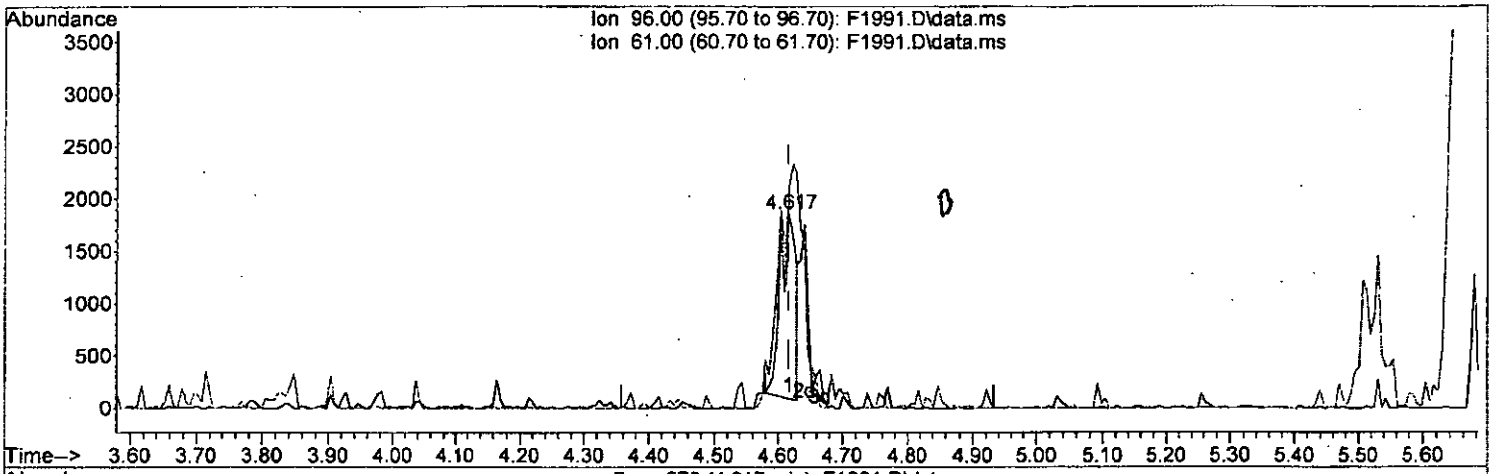
response 5445

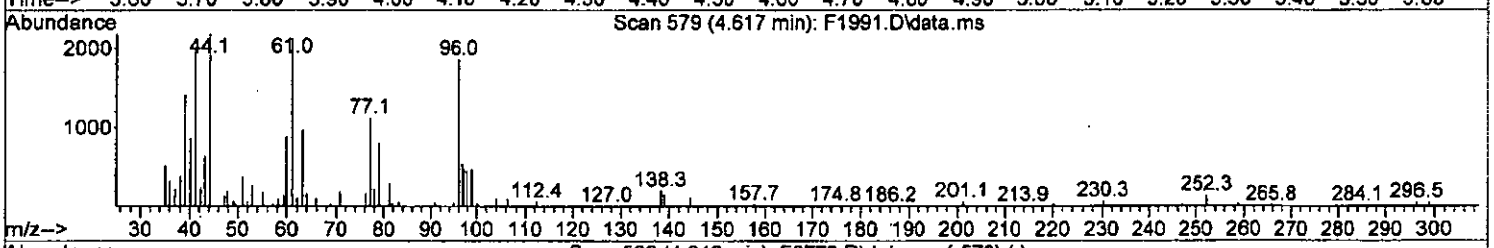
Ion	Exp%	Act%
77.00	100	100
79.00	30.40	36.18
97.00	22.40	16.78
0.00	0.00	0.00

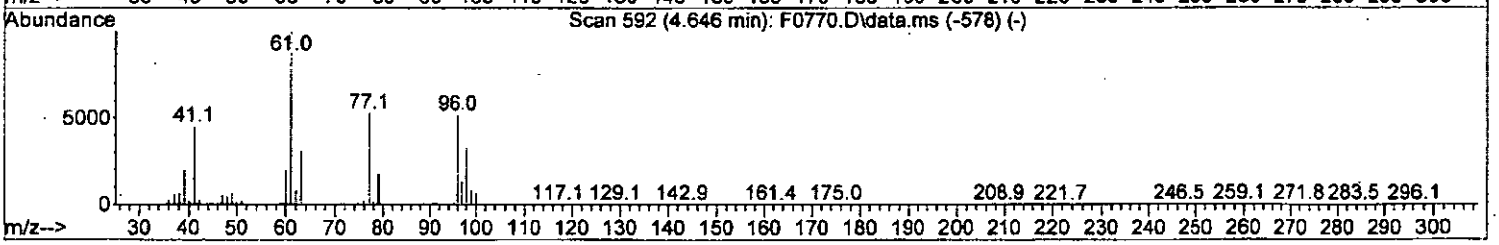
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (+0.000) 0.39 ug/L

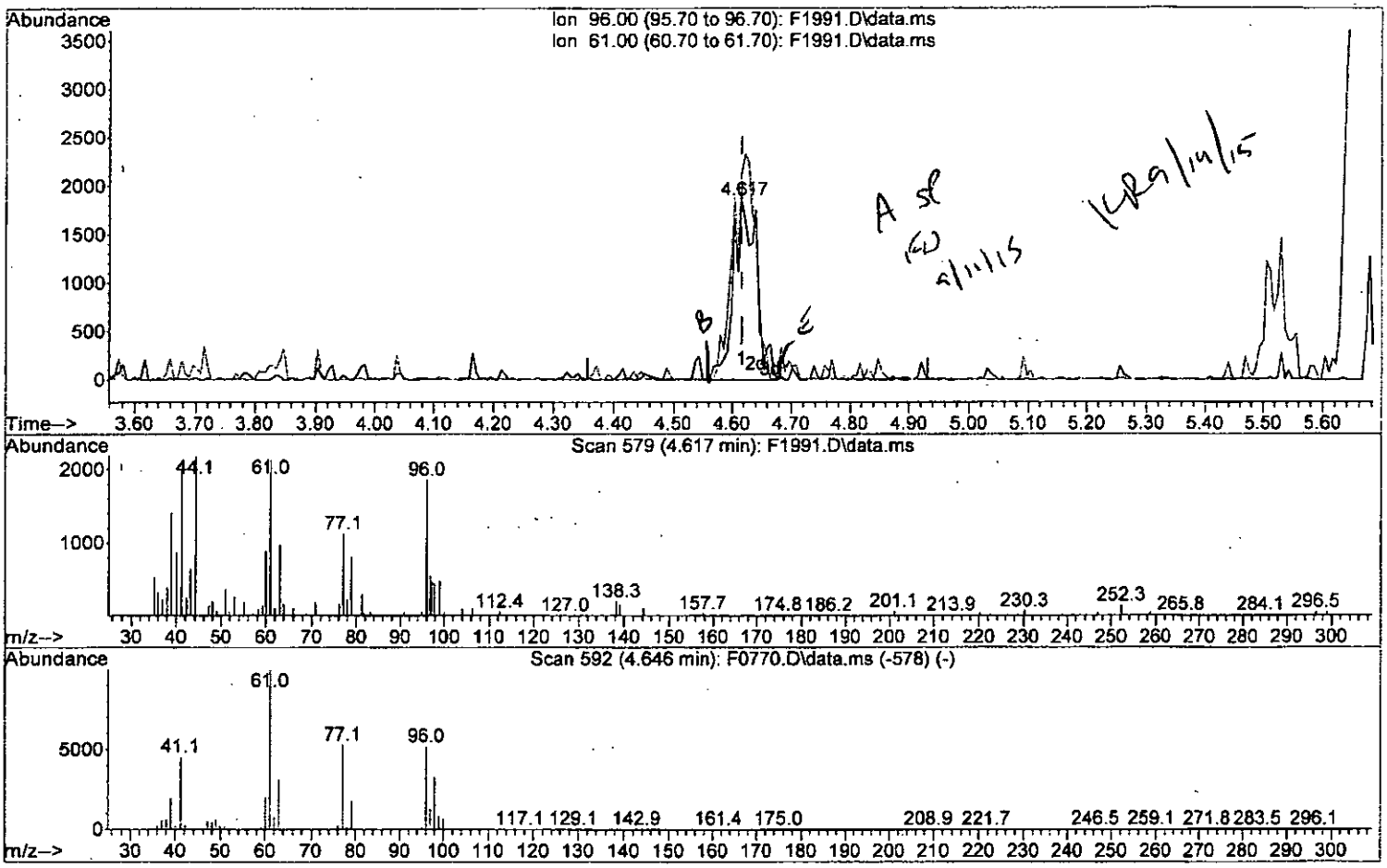
response 2908

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	114.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (+0.000) 0.69 ug/L m

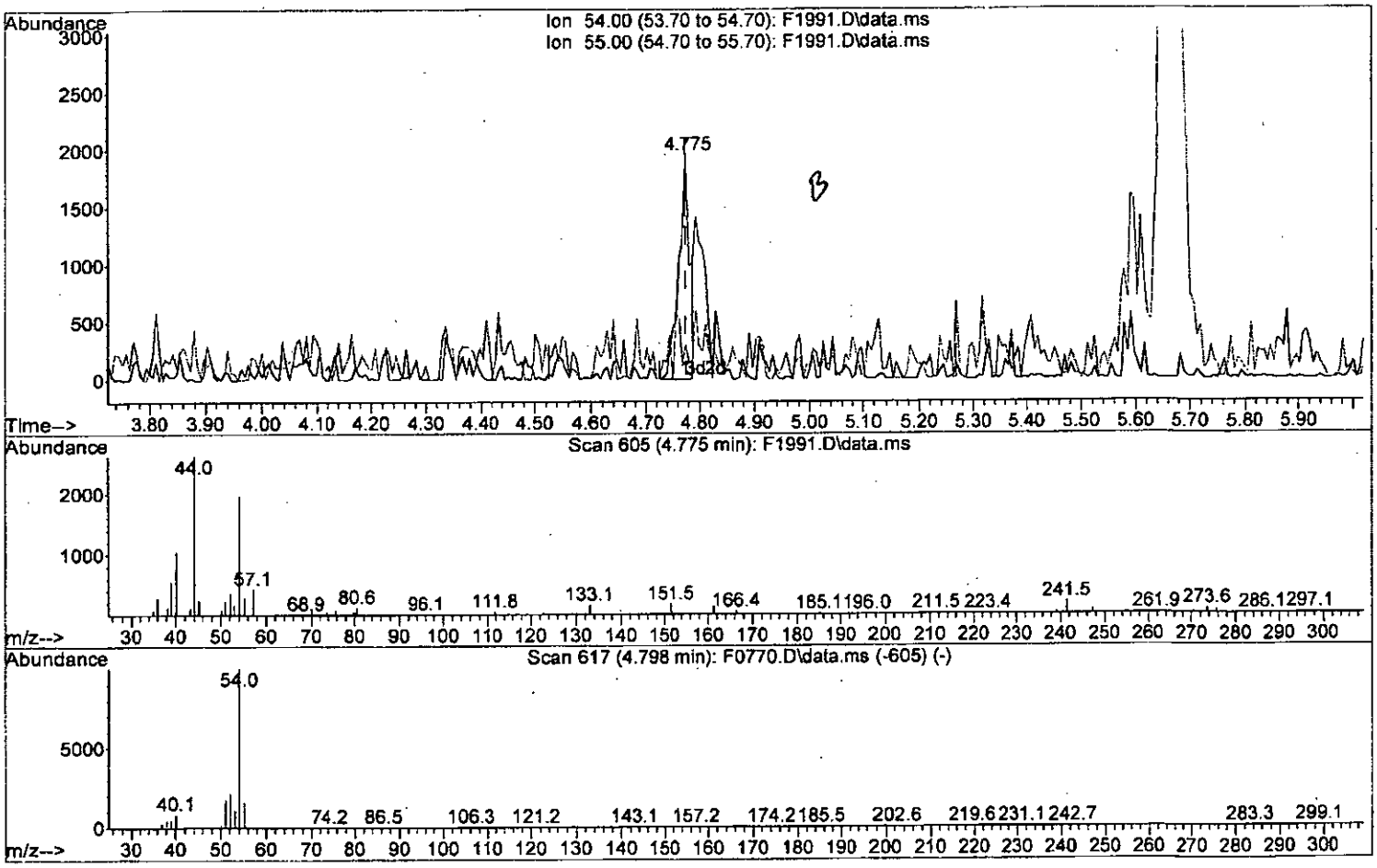
response 5159

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	114.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 ~ 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(35) Propionitrile

4.775min (+0.000) 1.27 ug/L

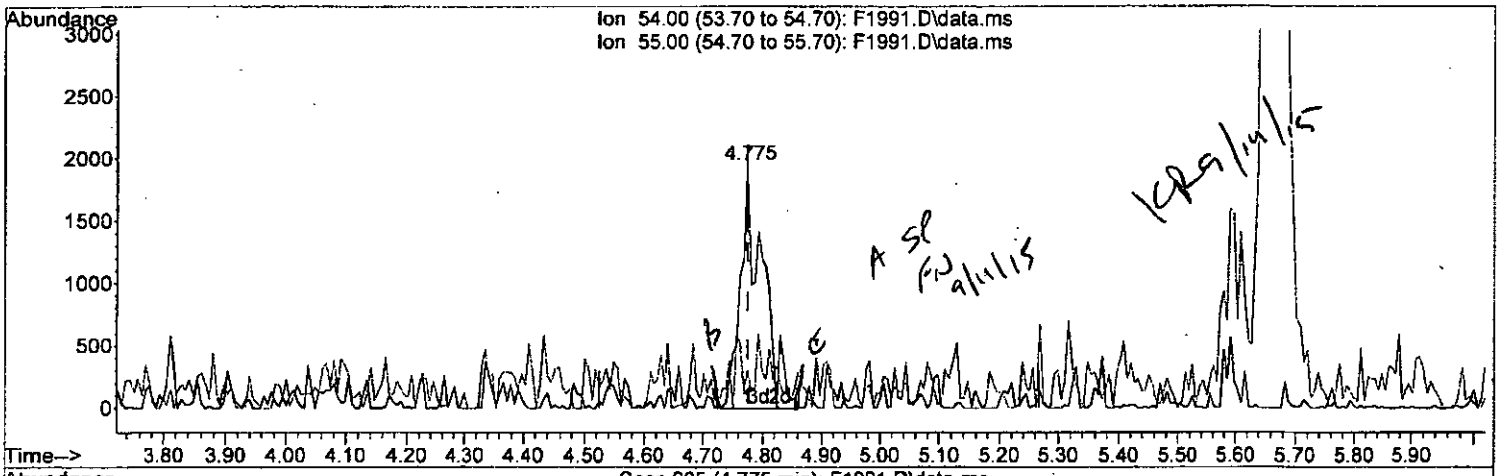
response 2723

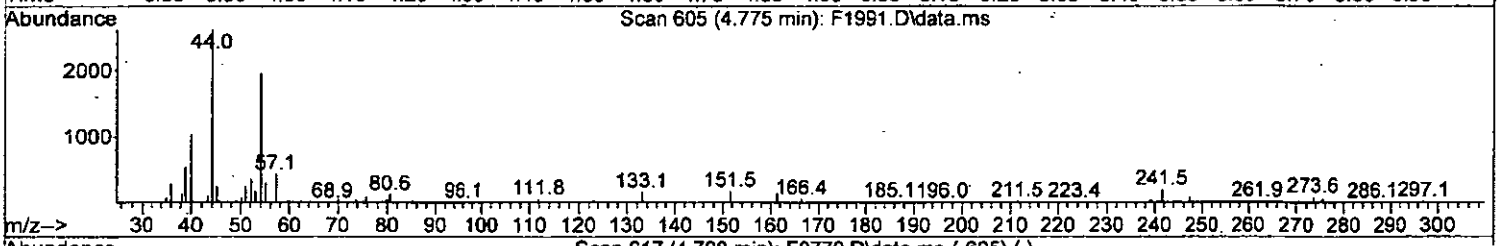
Ion	Exp%	Act%
54.00	100	100
55.00	16.30	15.24
0.00	0.00	0.00
0.00	0.00	0.00

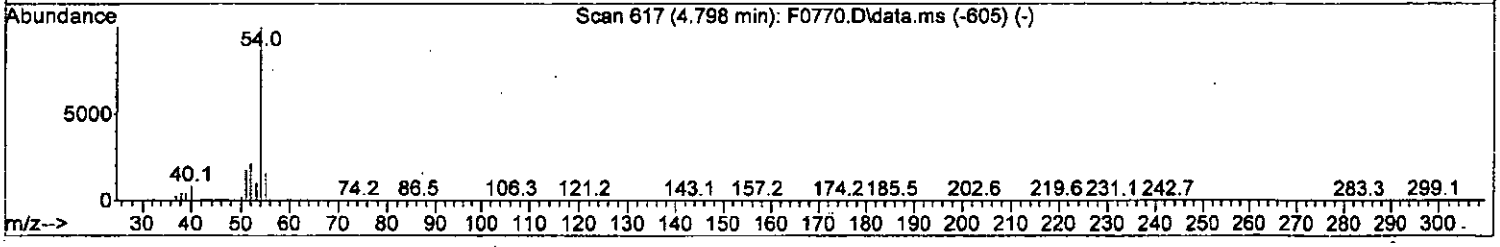
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(35) Propionitrile

4.775min (+0.000) 2.36 ug/L m

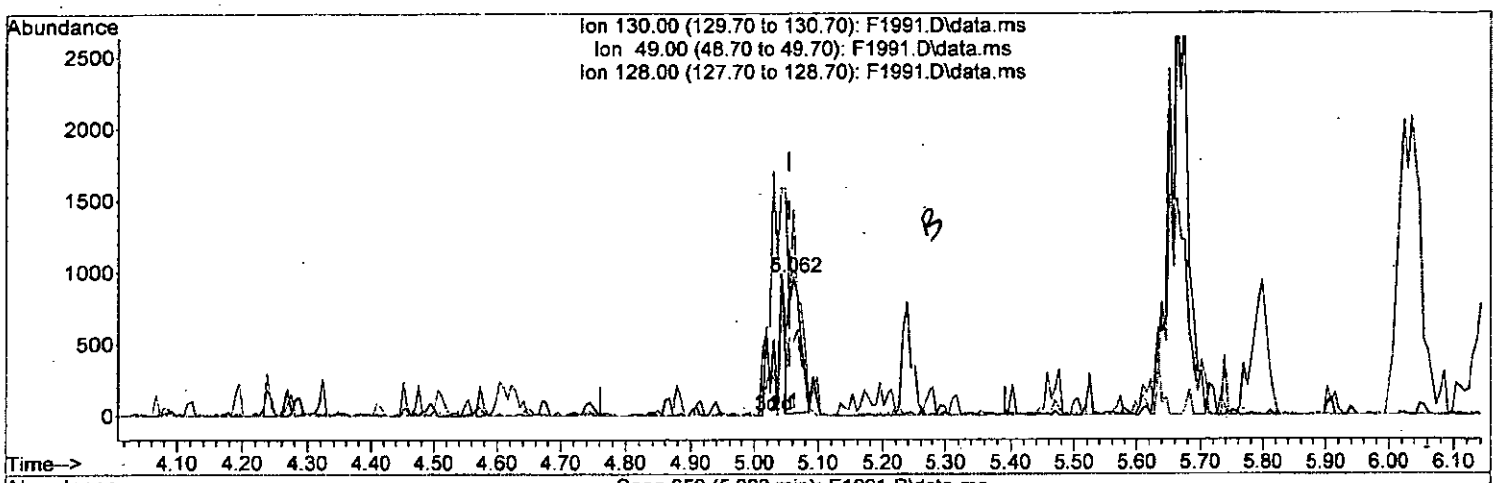
response 5052

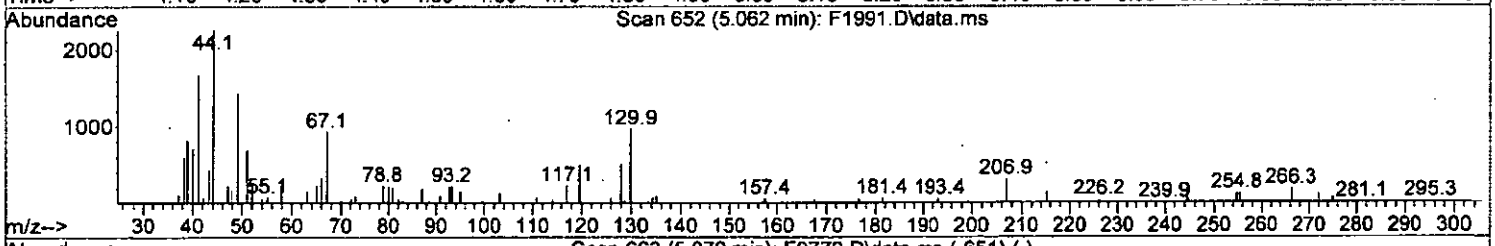
Ion	Exp%	Act%
54.00	100	100
55.00	16.30	15.24
0.00	0.00	0.00
0.00	0.00	0.00

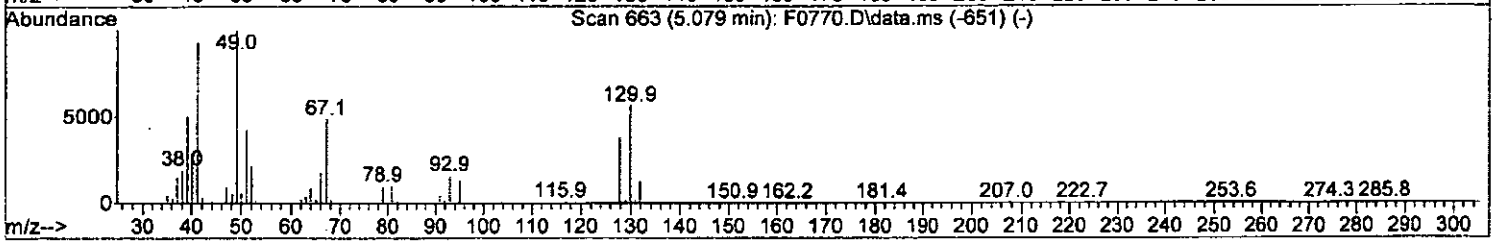
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(36) Bromochloromethane

5.062min (+0.006) 0.25 ug/L

response 1216

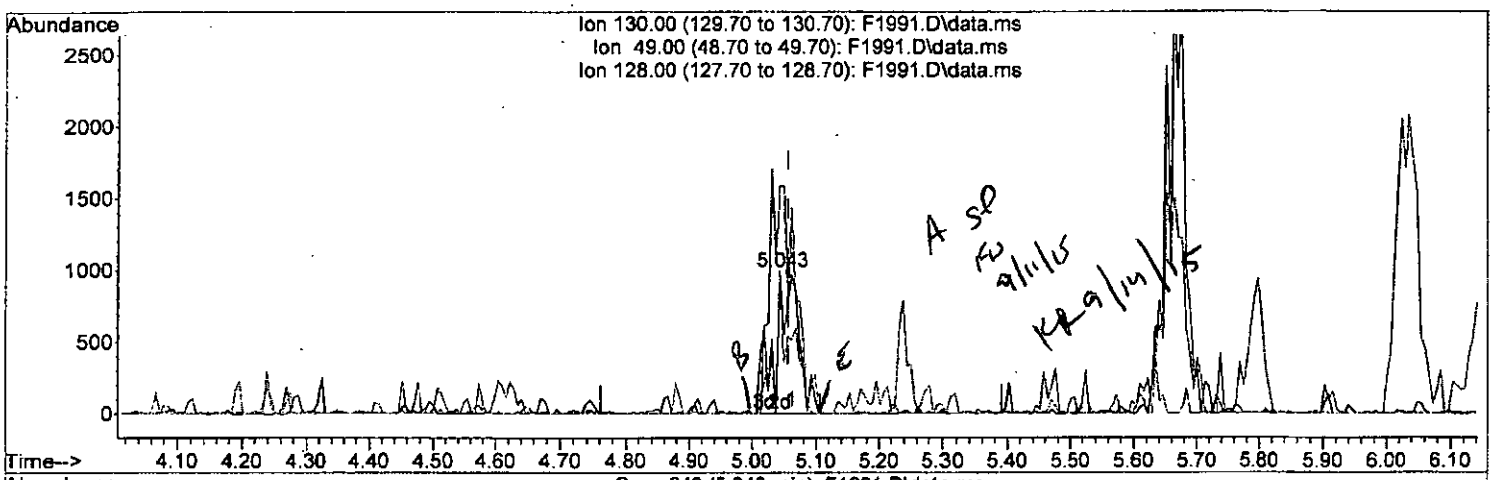
Ion	Exp%	Act%
130.00	100	100
49.00	177.90	148.70#
128.00	68.20	56.49
0.00	0.00	0.00

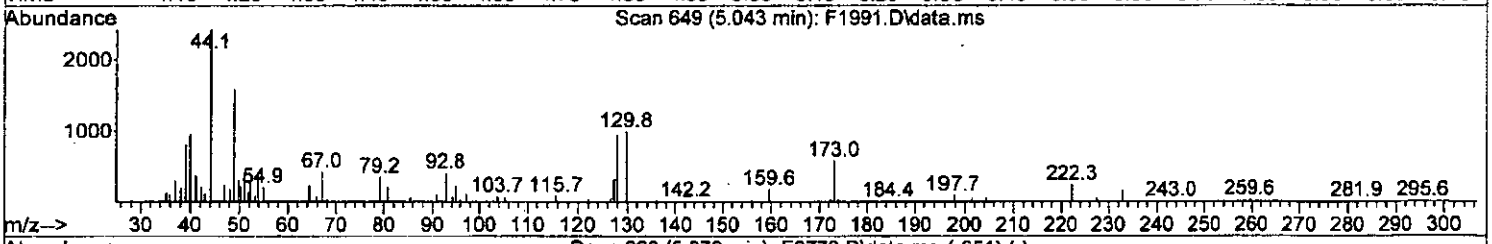
00462

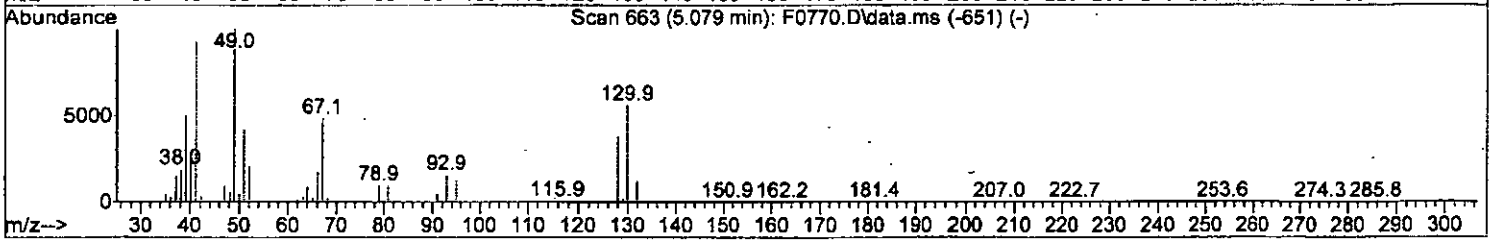
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(36) Bromochloromethane

5.043min (-0.012) 0.50 ug/L m

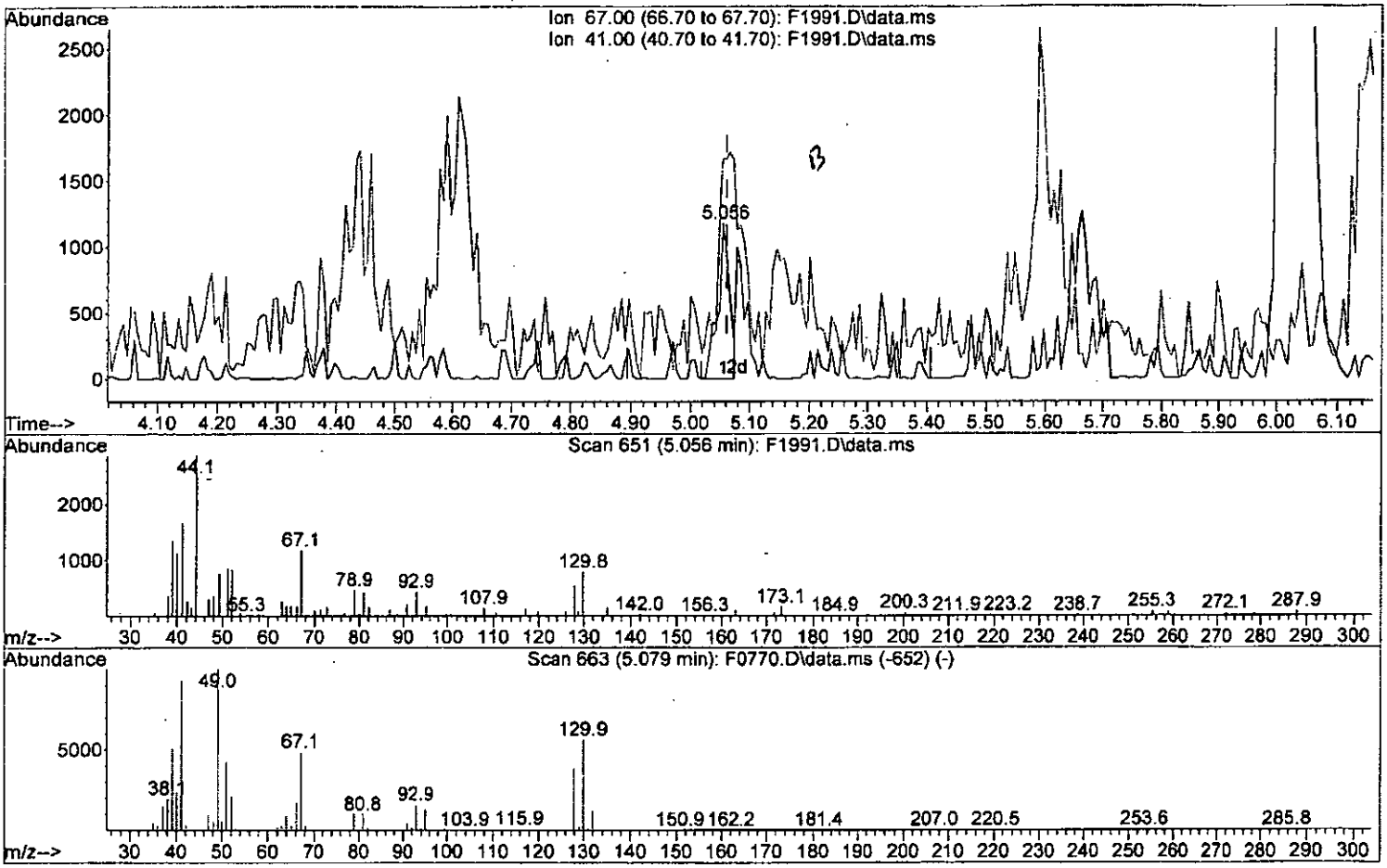
response 2414

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	160.22
128.00	68.20	96.05#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(37) Methacrylonitrile

5.056min (-0.006) 0.35 ug/L

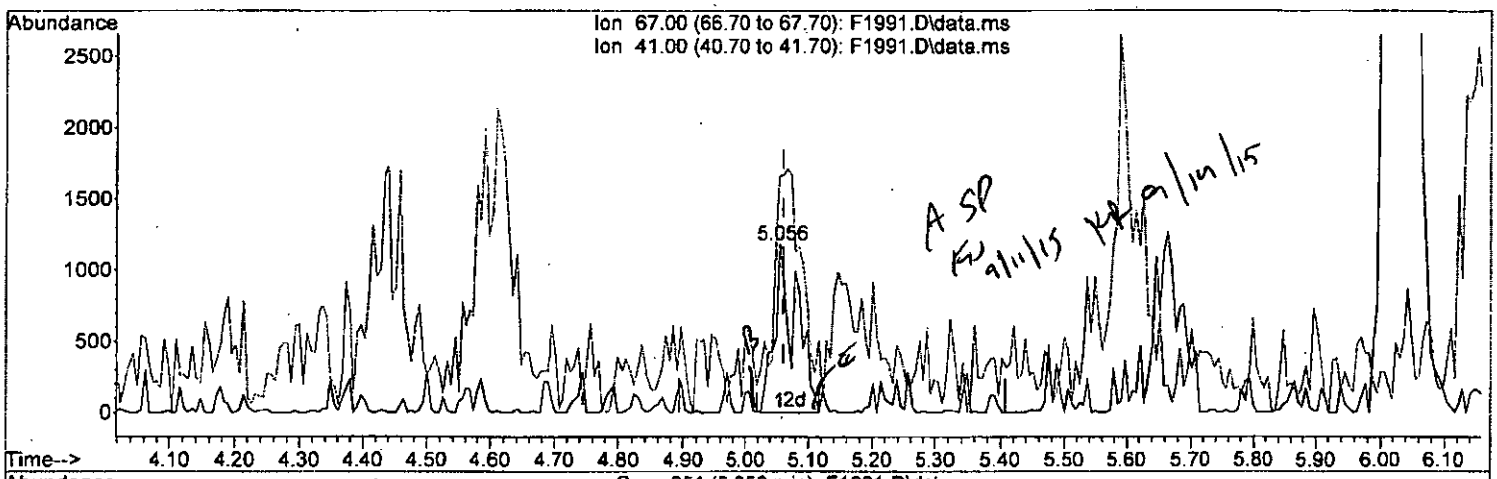
response 1671

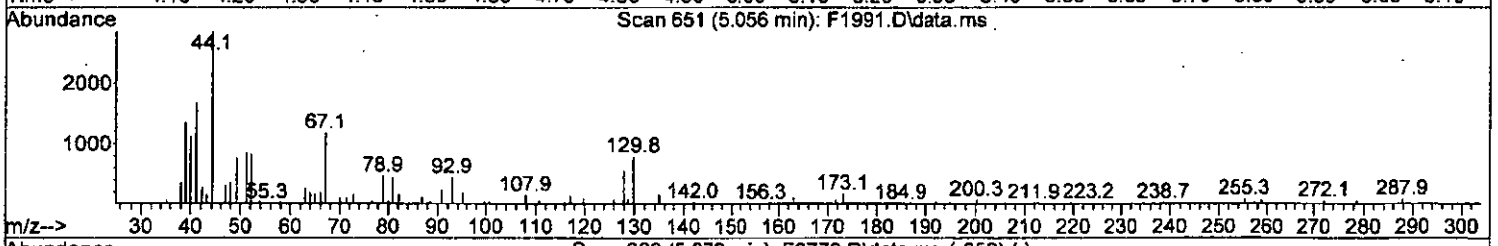
Ion	Exp%	Act%
67.00	100	100
41.00	191.80	140.90#
0.00	0.00	0.00
0.00	0.00	0.00

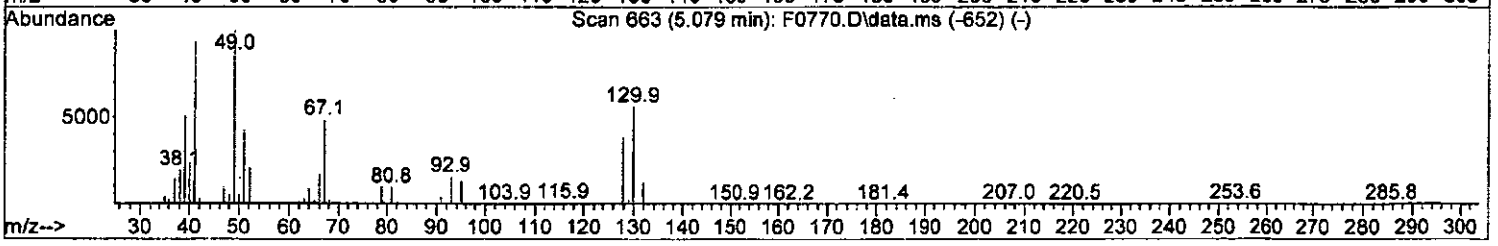
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(37) Methacrylonitrile

5.056min (-0.006) 0.60 ug/L m

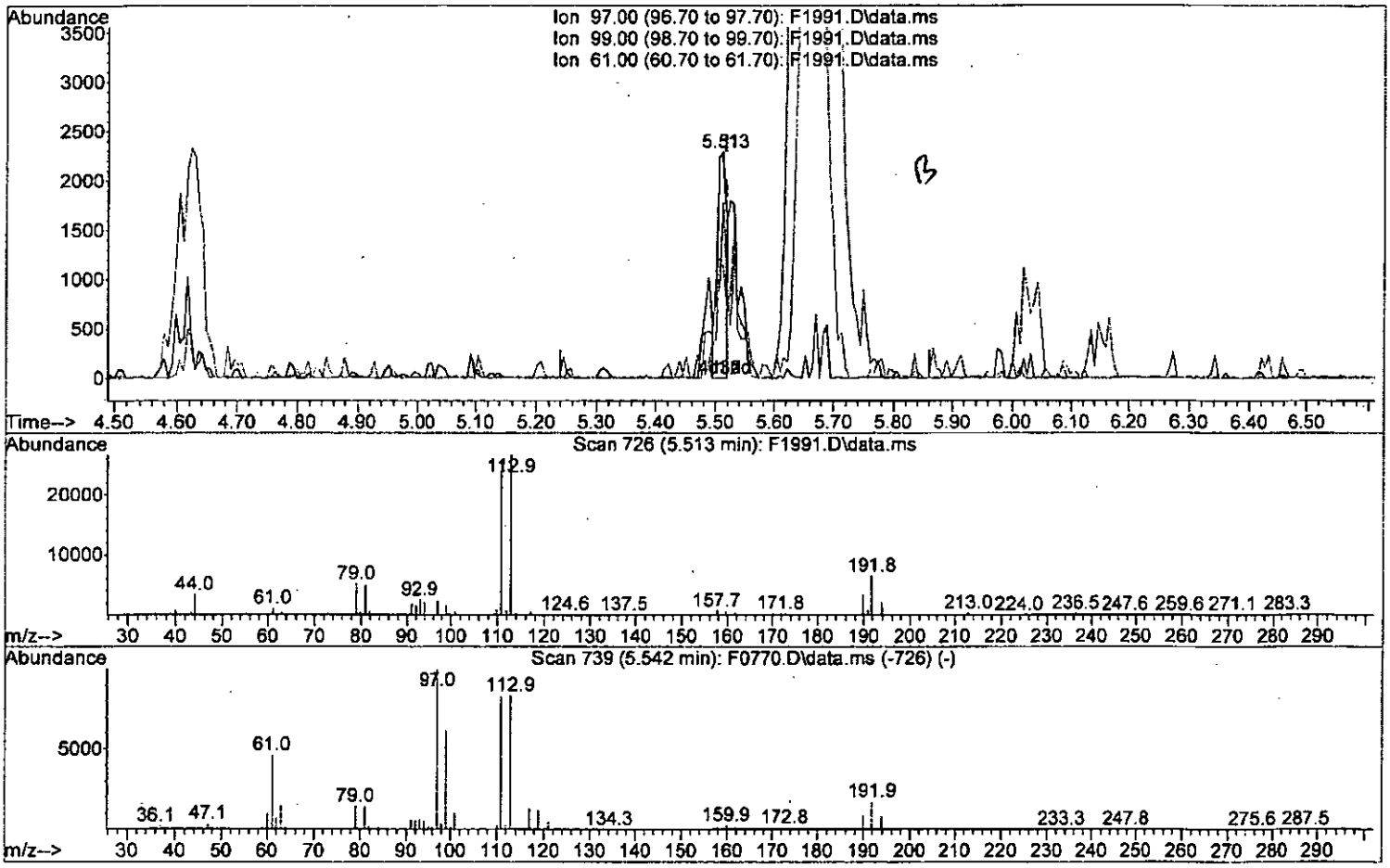
response 2836

Ion	Exp%	Act%
67.00	100	100
41.00	191.80	140.90#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.513min (-0.006) 0.23 ug/L

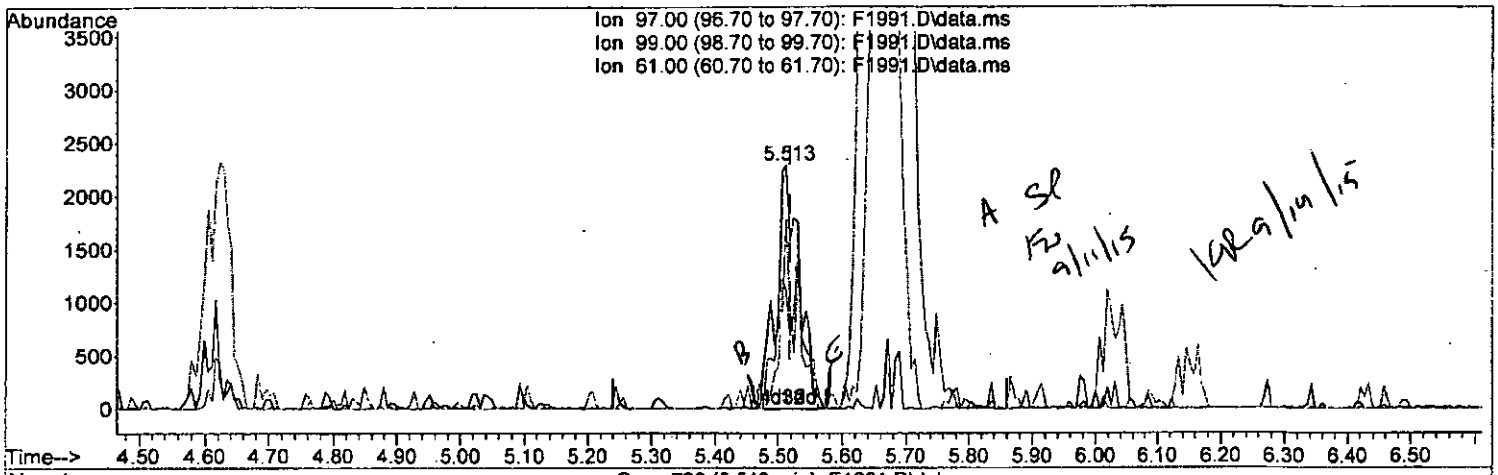
response 2511

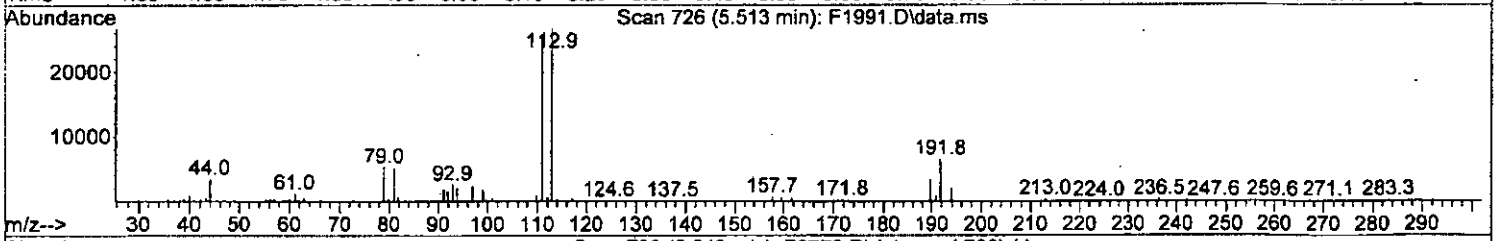
Ion	Exp%	Act%
97.00	100	100
99.00	61.50	77.48
61.00	46.40	54.95
0.00	0.00	0.00

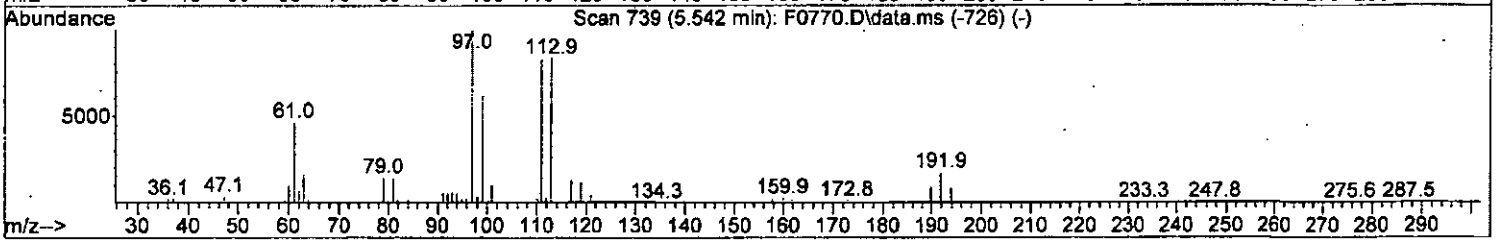
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.513min (-0.006) 0.53 ug/L m

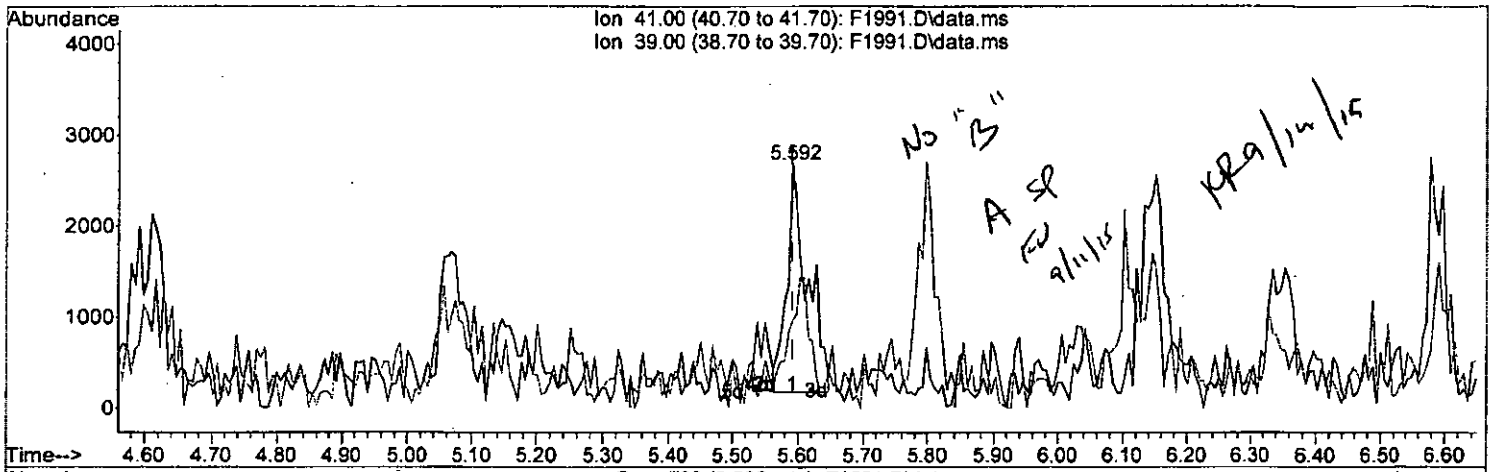
response 5769

Ion	Exp%	Act%
97.00	100	100
99.00	61.50	66.87
61.00	46.40	48.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(42) Cyclohexane (P)

5.592min (+0.000) 0.59 ug/L m

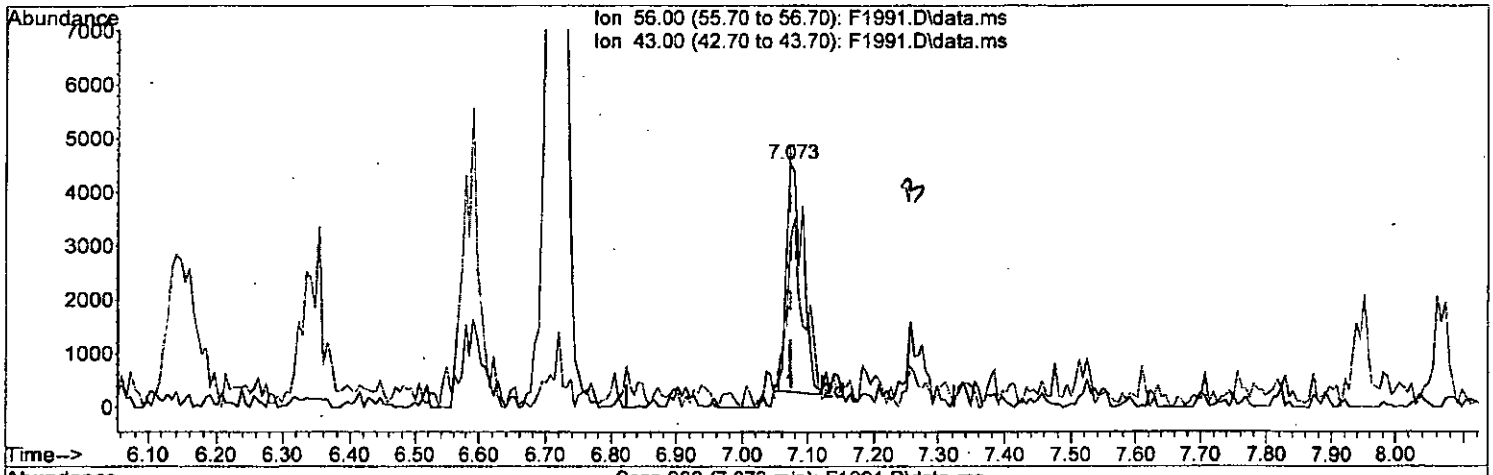
response 5477

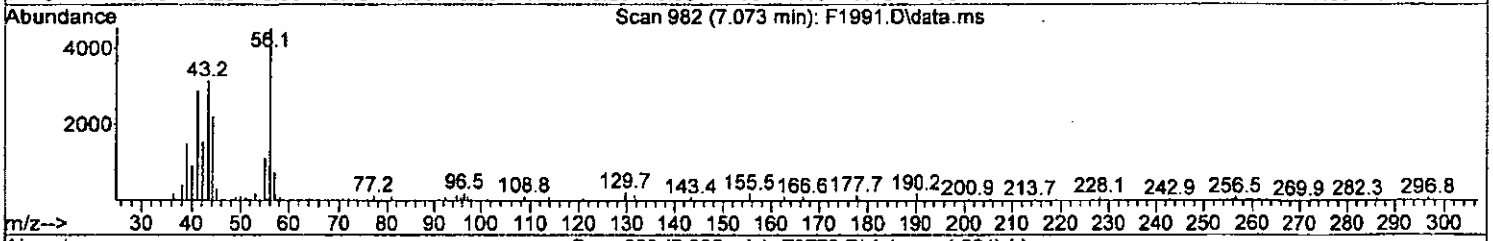
Ion	Exp%	Act%
41.00	100	100
39.00	42.40	35.86
0.00	0.00	0.00
0.00	0.00	0.00

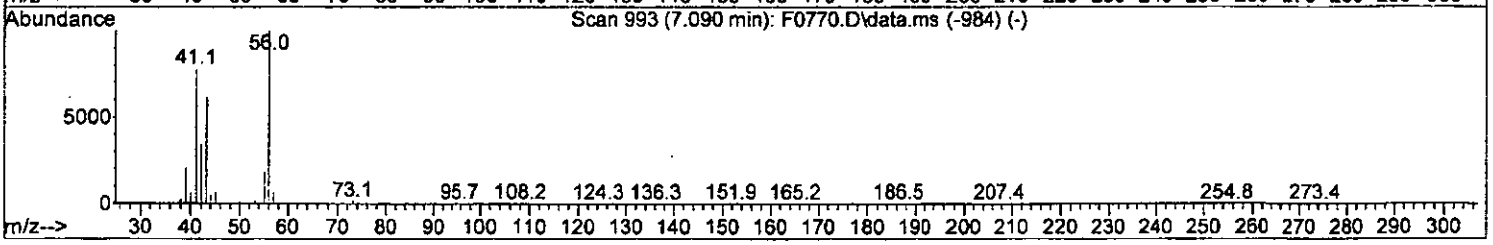
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(52) 1-Butanol

7.073min (+0.000) 13.86 ug/L

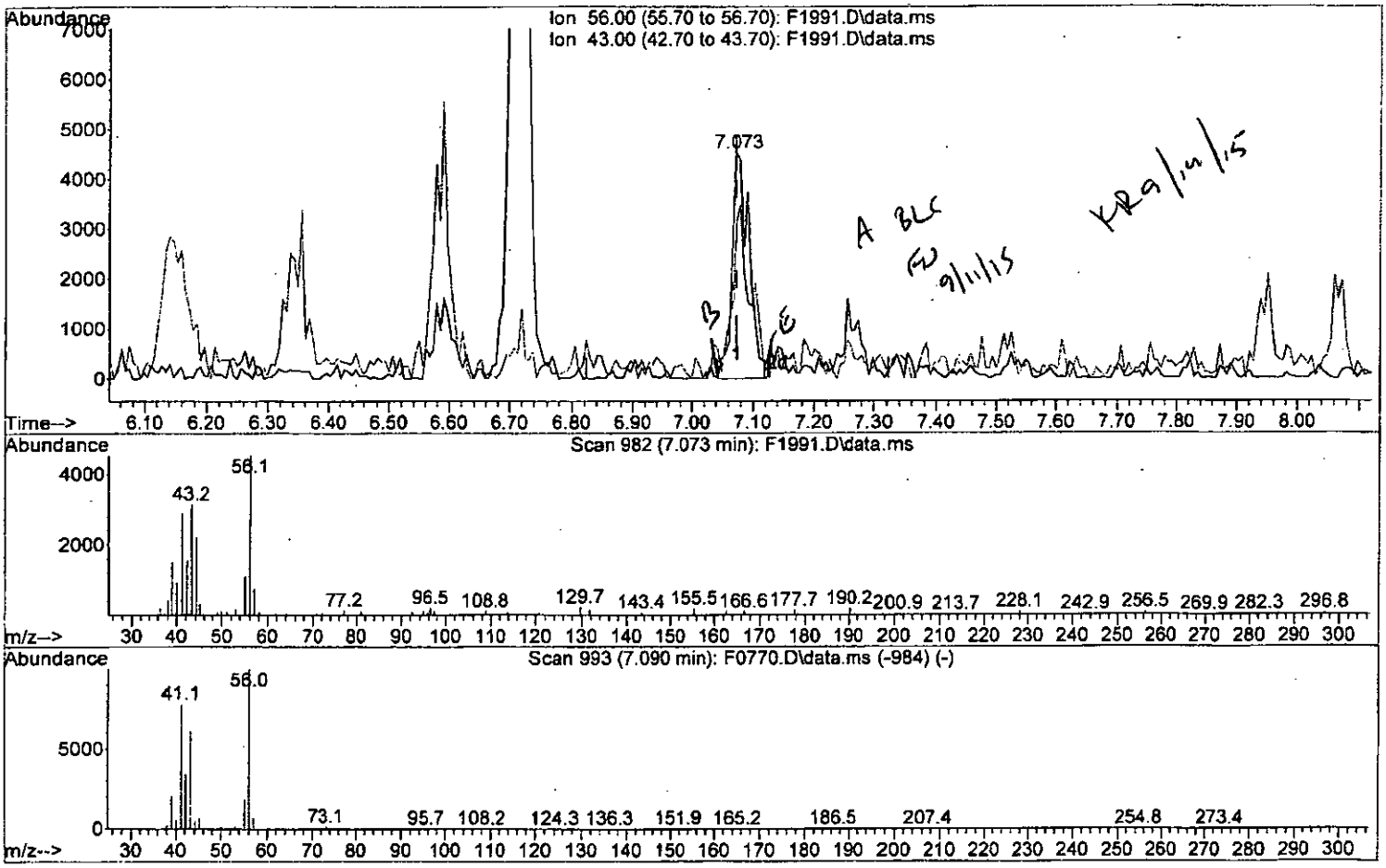
response 7312

Ion	Exp%	Act%
56.00	100	100
43.00	62.00	69.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(52) 1-Butanol

7.073min (+0.000) 16.58 ug/L m

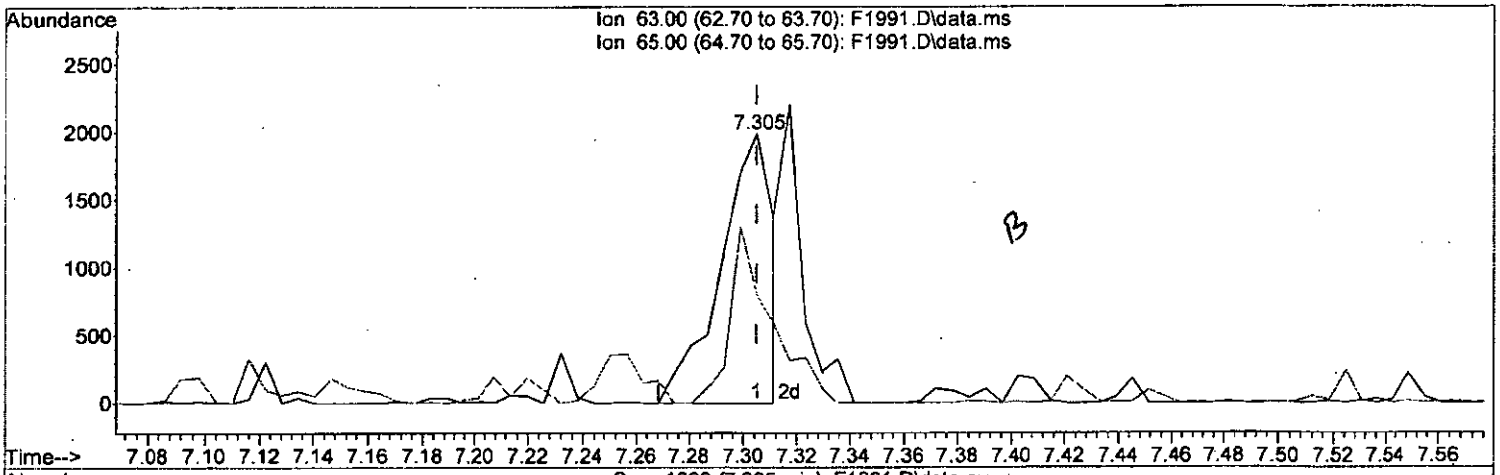
response 8745

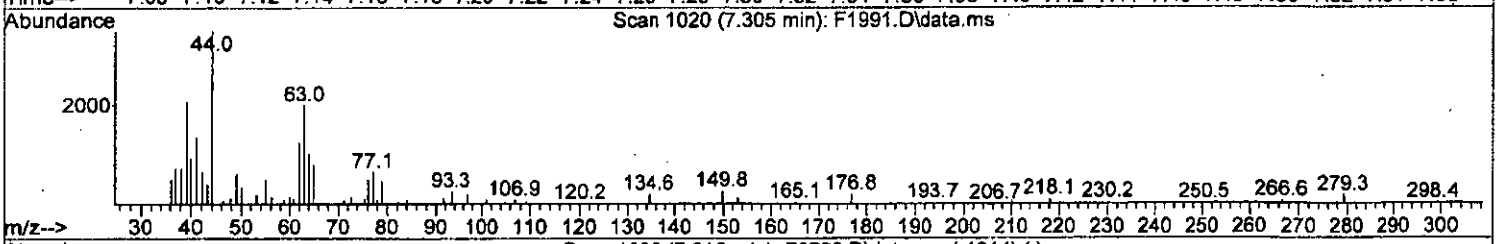
Ion	Exp%	Act%
56.00	100	100
43.00	62.00	69.26
0.00	0.00	0.00
0.00	0.00	0.00

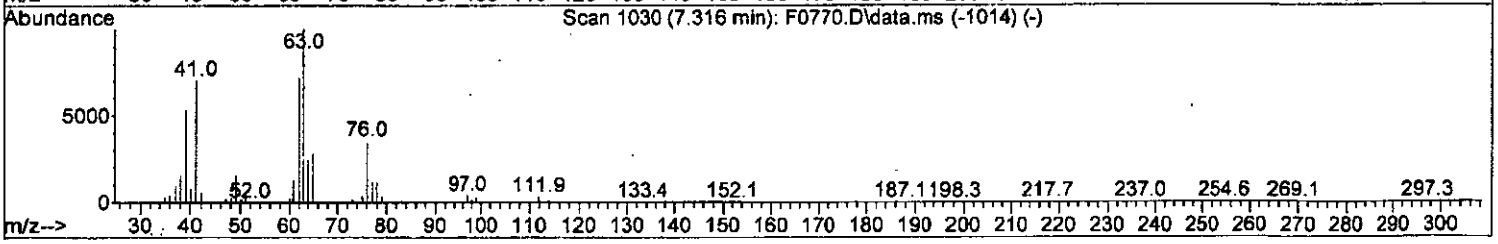
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1991.D\data.ms

(55) 1,2-Dichloropane (P)

7.305min (+0.000) 0.33 ug/L

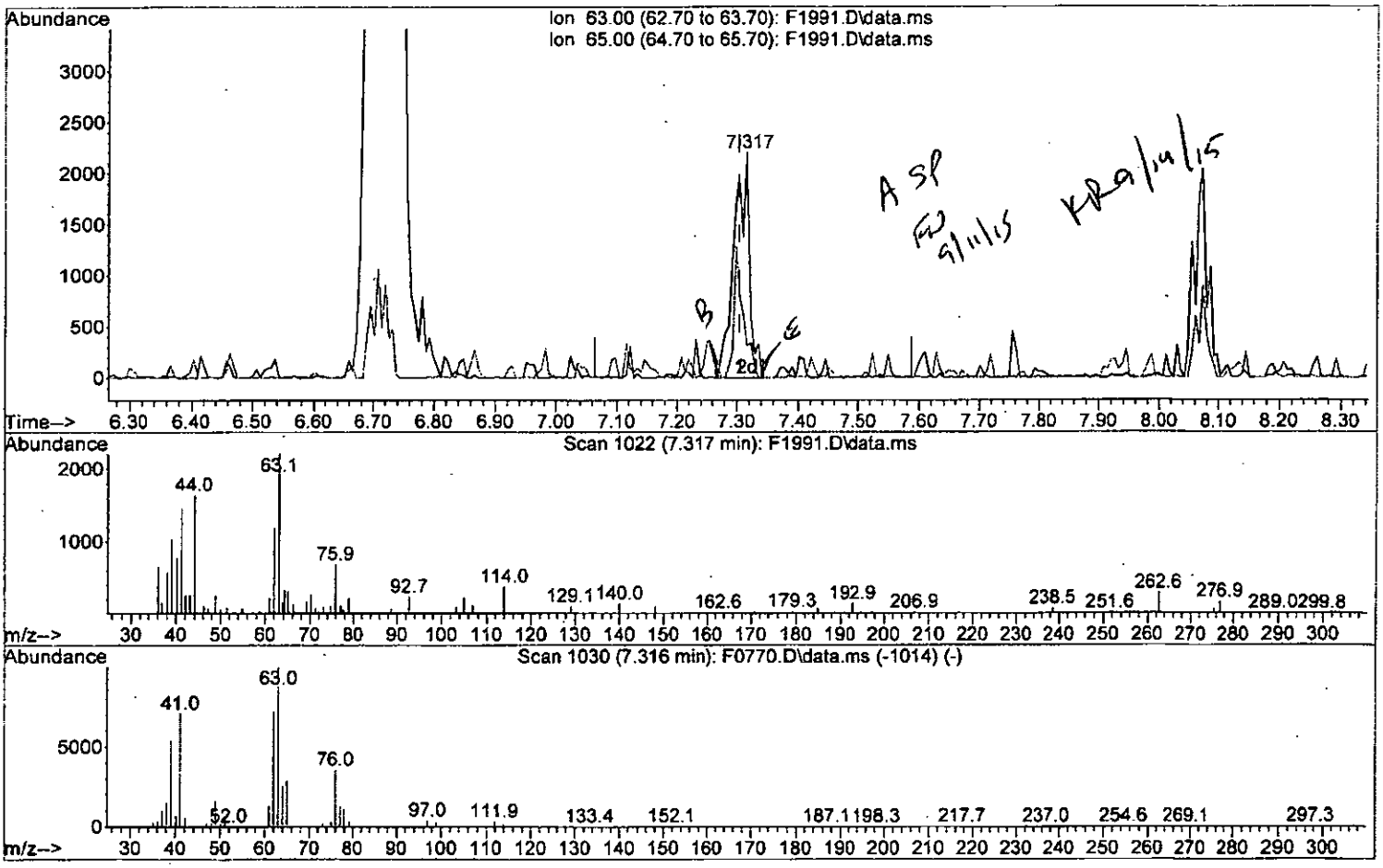
response 2686

Ion	Exp%	Act%
63.00	100	100
65.00	28.60	39.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(55) 1,2-Dicipropane (P)

7.317min (+0.012) 0.48 ug/L m

response 3911

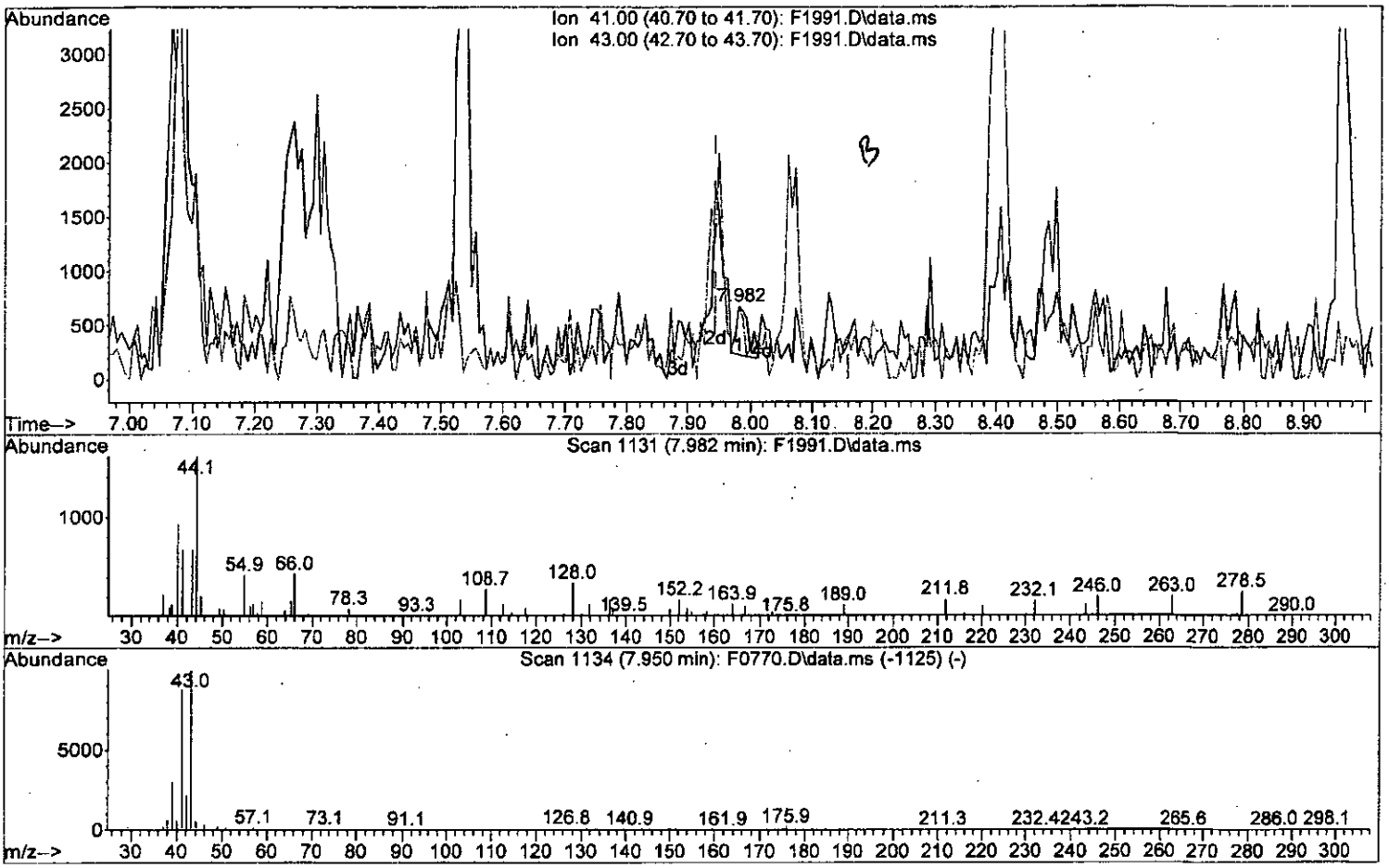
Ion	Exp%	Act%
63.00	100	100
65.00	28.60	14.22
0.00	0.00	0.00
0.00	0.00	0.00

00472

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(60) 2-Nitropropane

7.982min (+0.037) 0.18 ug/L

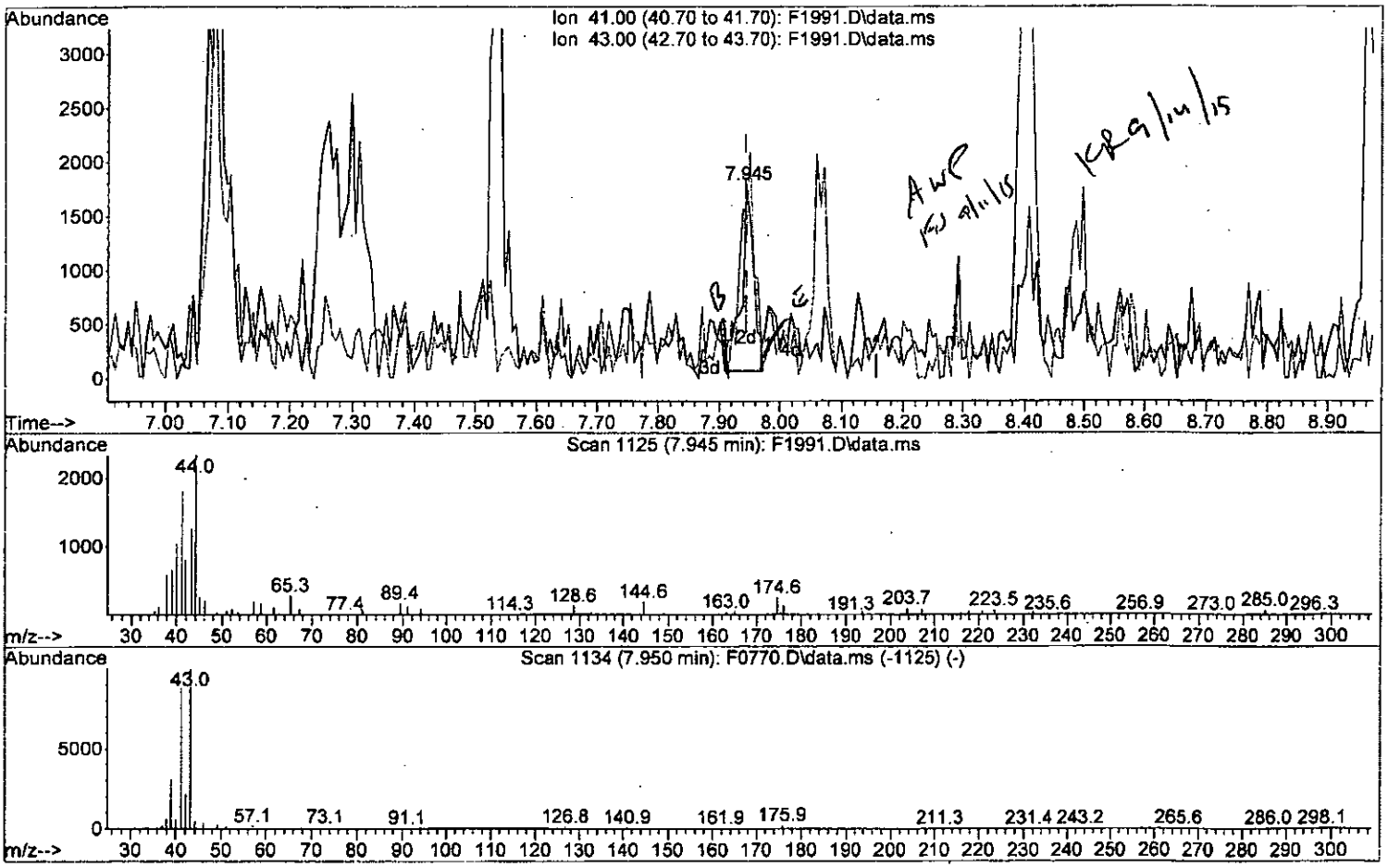
response 623

Ion	Exp%	Act%
41.00	100	100
43.00	113.90	98.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(60) 2-Nitropropane

7.945min (+0.000) 0.78 ug/L m

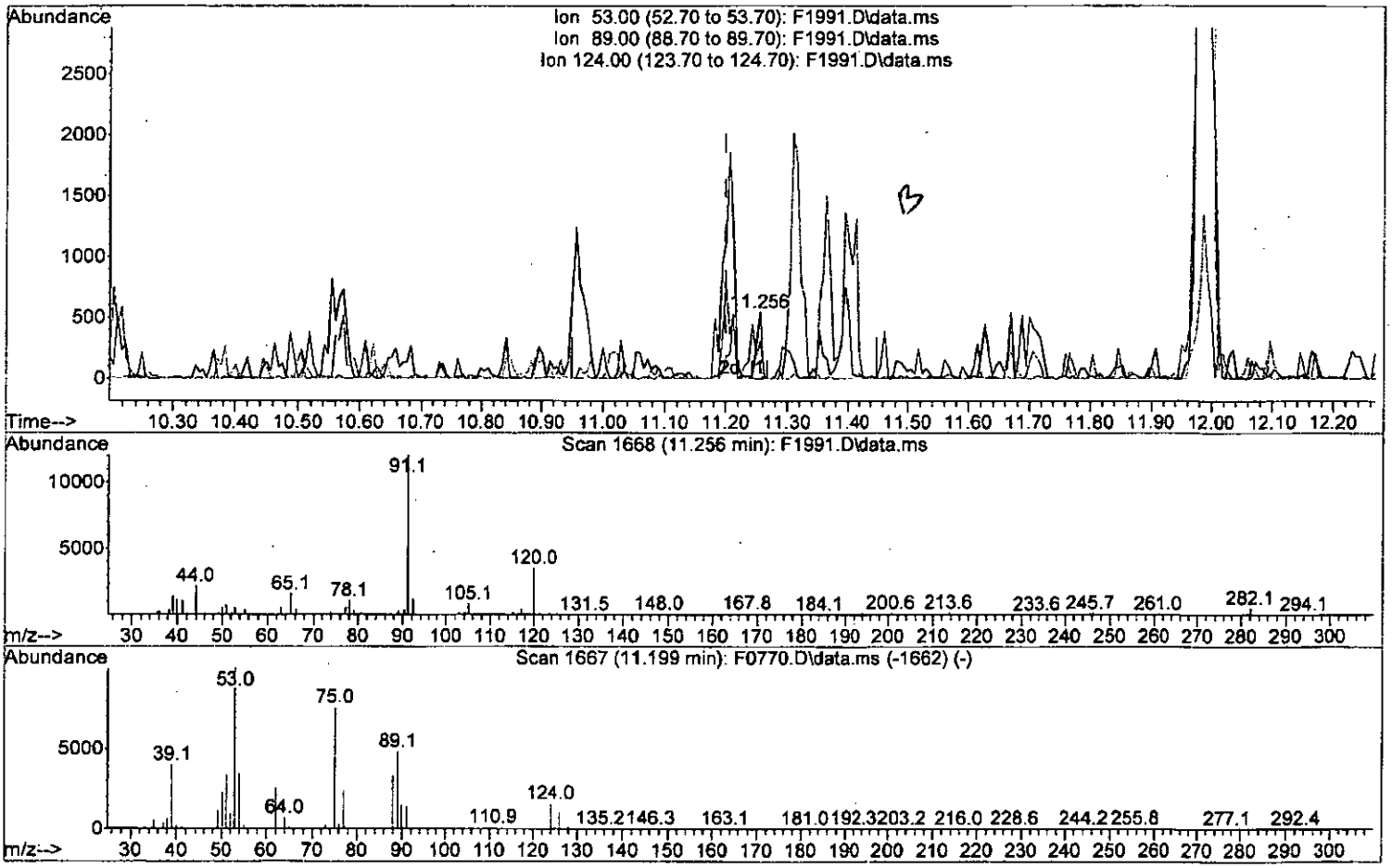
response 2651

Ion	Exp%	Act%
41.00	100	100
43.00	113.90	69.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

11.256min (+0.055) 0.08 ug/L

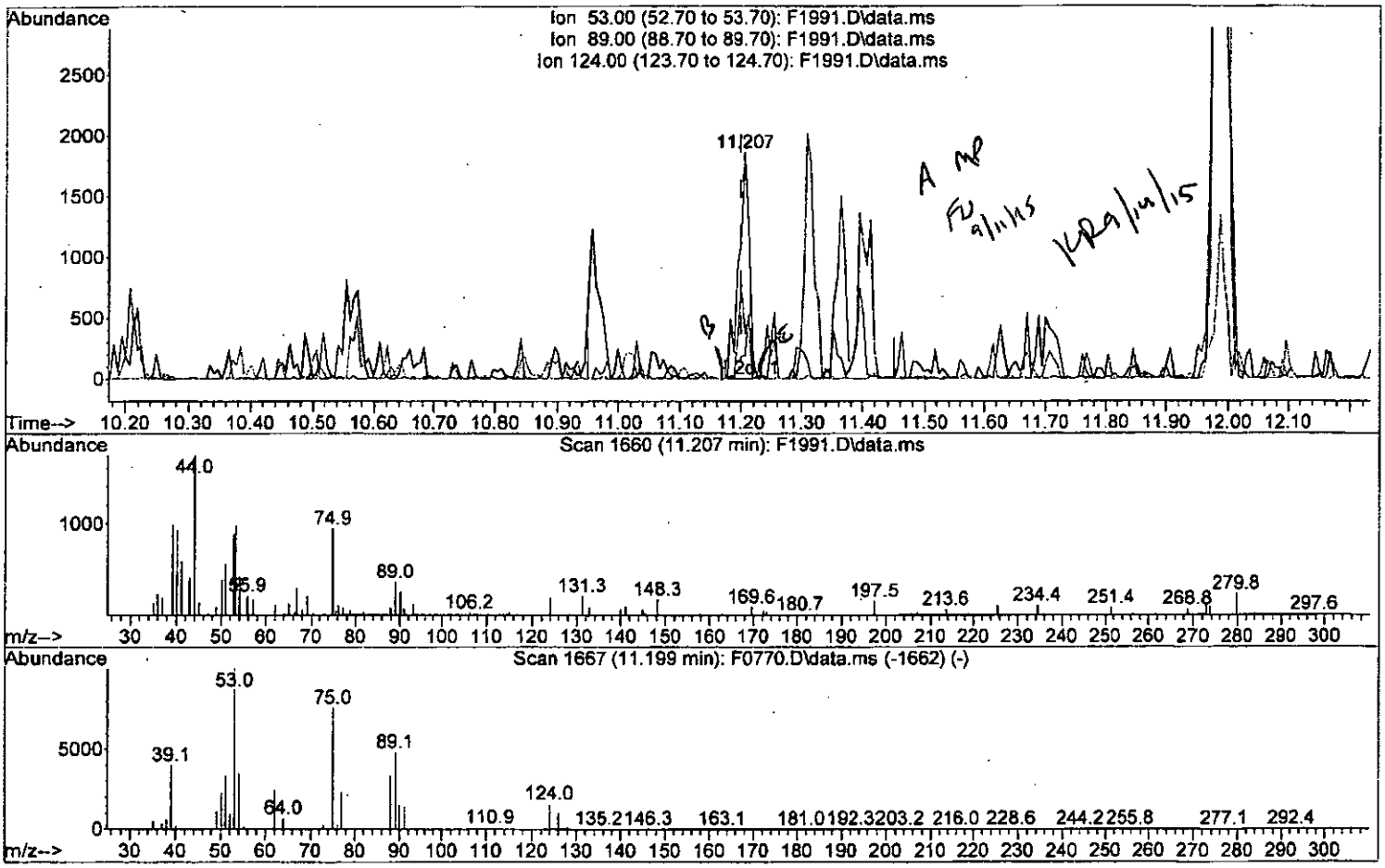
response 304

Ion	Exp%	Act%
53.00	100	100
89.00	48.00	56.83
124.00	15.80	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

11.207min (+0.006) 0.61 ug/L m

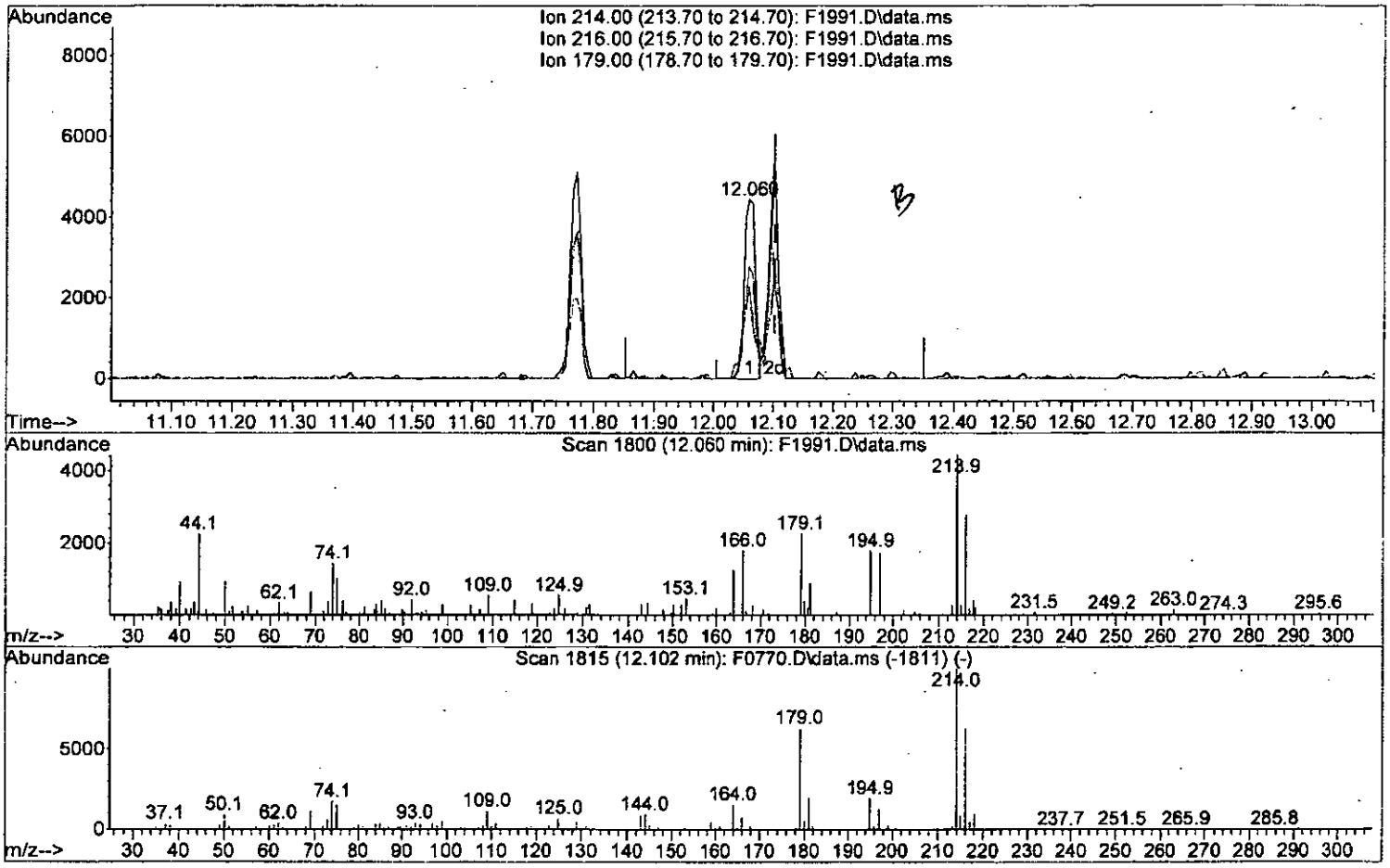
response 2209

Ion	Exp%	Act%
53.00	100	100
89.00	48.00	37.76
124.00	15.80	19.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(107) 2,5-Dichlorobenzotrifluoride

12.060min (-0.043) 0.66 ug/L

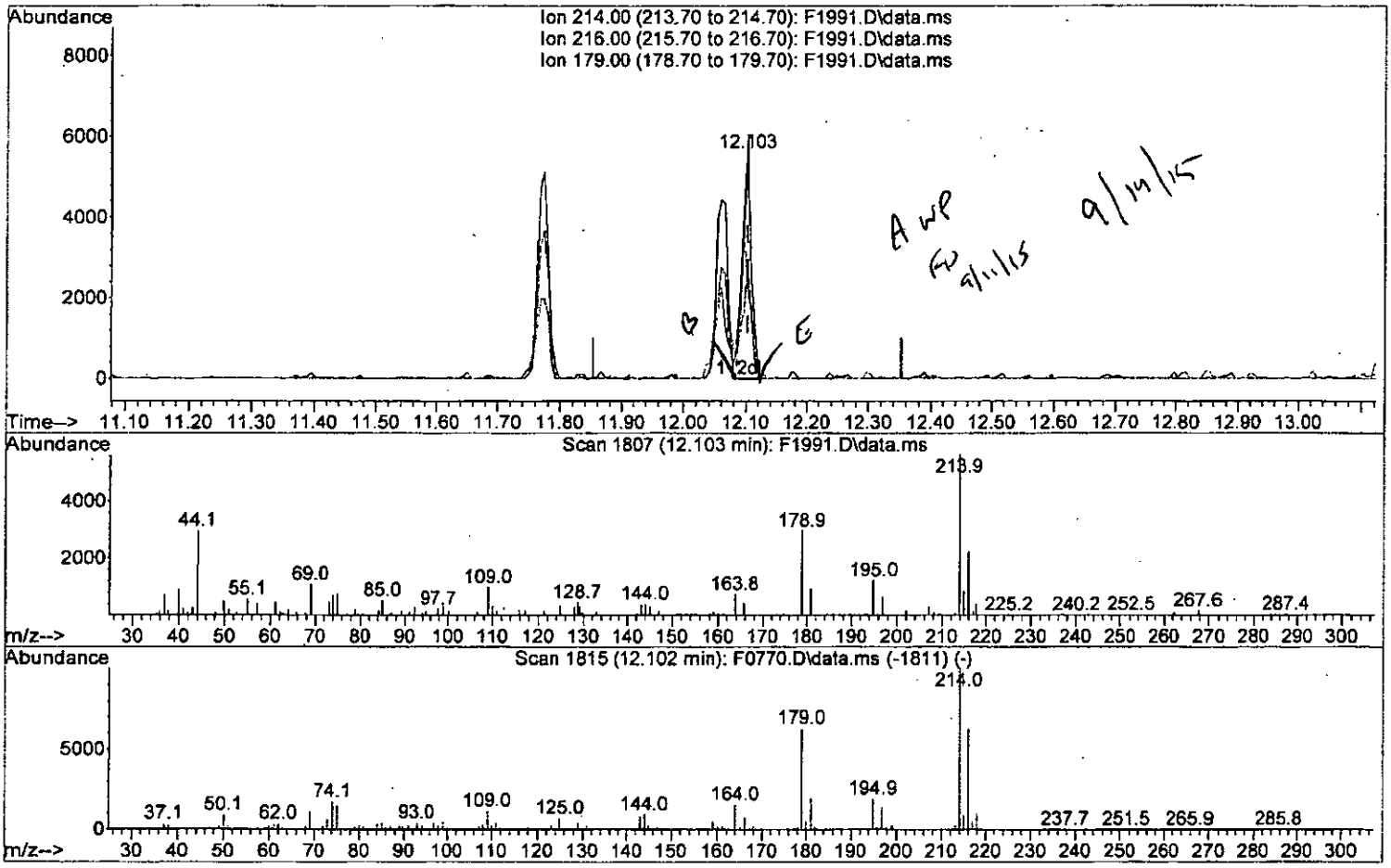
response 5702

Ion	Exp%	Act%
214.00	100	100
216.00	62.80	62.47
179.00	63.10	51.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(107) 2,5-Dichlorobenzotrifluoride

12.103min (+0.000) 0.67 ug/L m

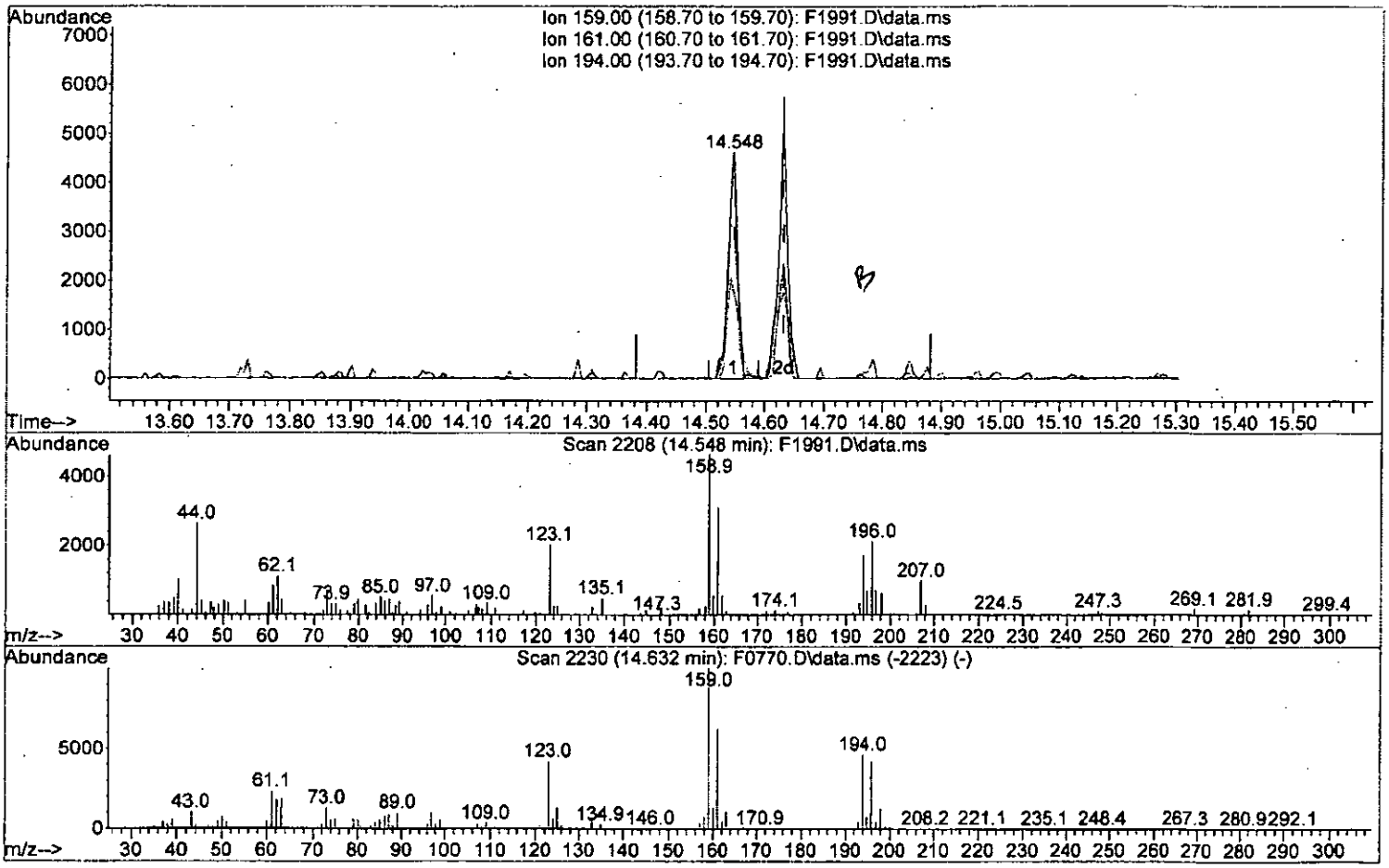
response 5772

Ion	Exp%	Act%
214.00	100	100
216.00	62.80	39.83#
179.00	63.10	52.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.548min (-0.085) 0.62 ug/L

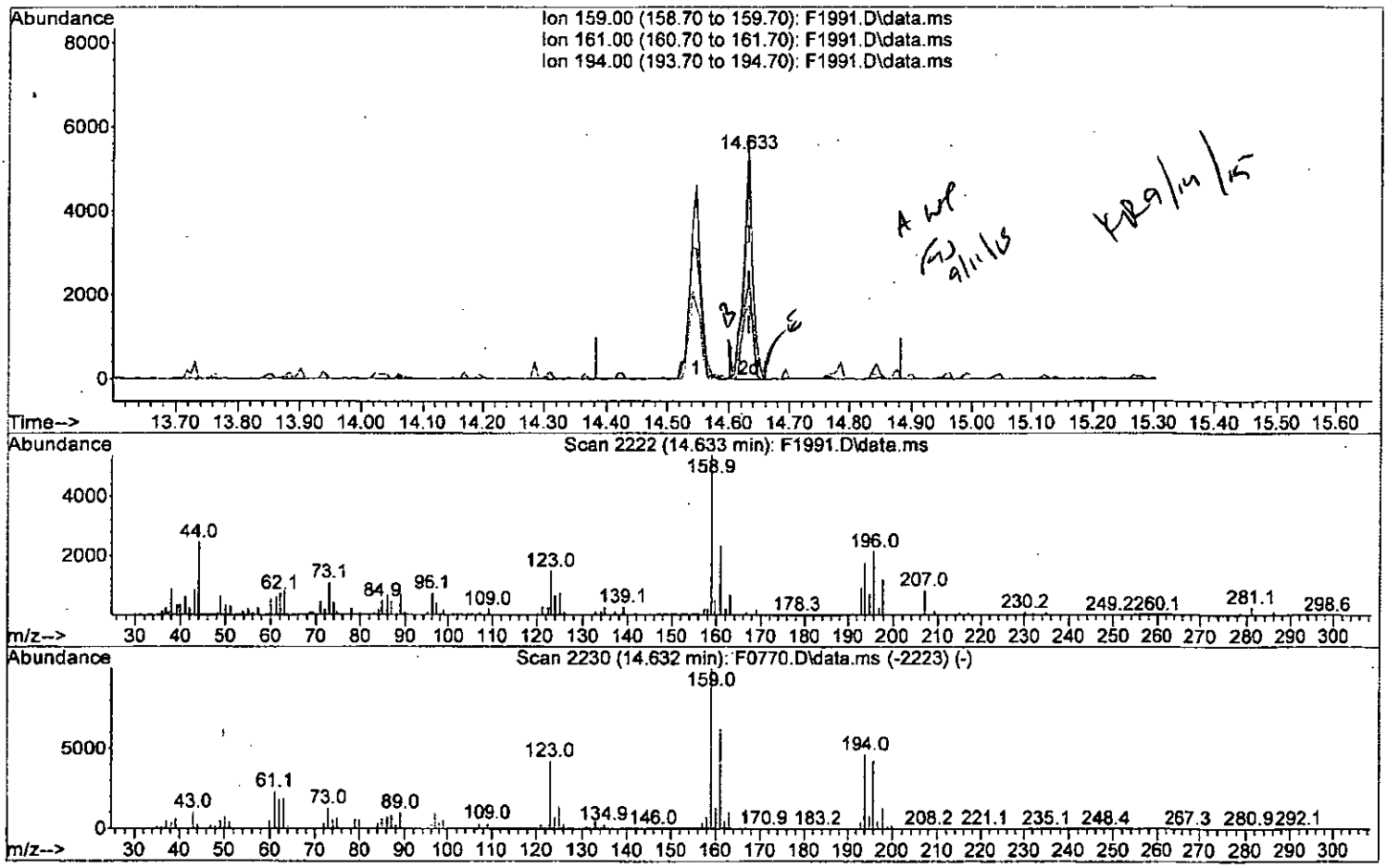
response 5286

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	66.88
194.00	46.40	37.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 17:55:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1991.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.633min (+0.000) 0.64 ug/L m

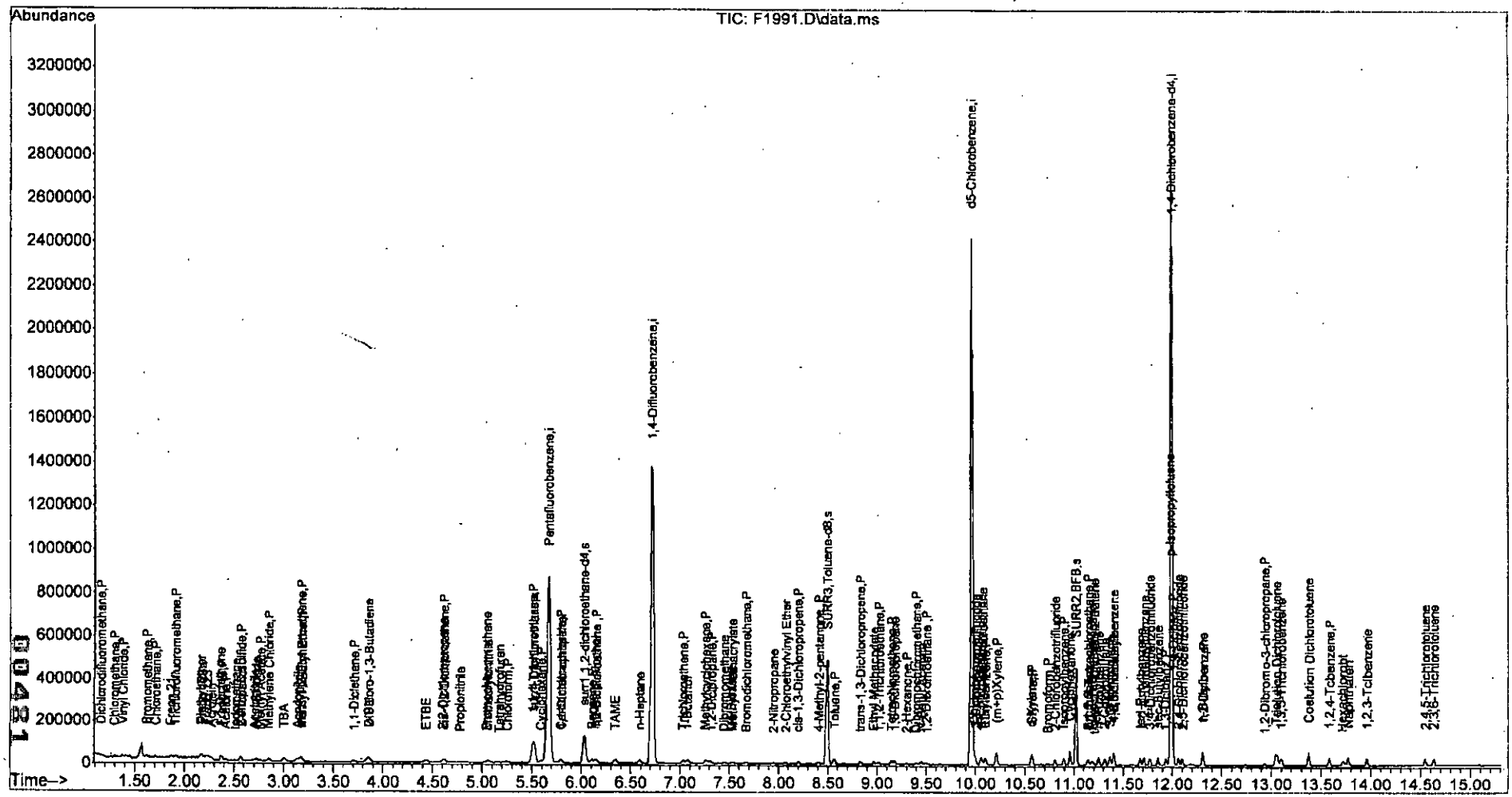
response 5415

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	43.27
194.00	46.40	32.53
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1991.D
Acq On : 10 Sep 2015 5:41 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 08:55:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FV 9/11/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	736249	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1054557	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	914502	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	479625	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	71482	10.40	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.80%#				
46) surr1,1,2-dichloroetha...	6.031	65	100123	10.72	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.44%#				
64) SURR3,Toluene-d8	8.488	98	266106	10.85	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.70%#				
69) SURR2,BFB	11.018	95	104622	10.11	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.22%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	6086	0.97	ug/L		96
3) Chloromethane	1.294	50	10100	1.22	ug/L		85
4) Vinyl Chloride	1.380	62	7349	1.01	ug/L		94
5) Bromomethane	1.617	94	5352	1.30	ug/L		91
6) Chloroethane	1.703	64	4701	1.15	ug/L		100
7) Freon 21	1.867	67	13830	1.15	ug/L		94
8) Trichlorofluoromethane	1.916	101	11033	1.22	ug/L		98
9) Diethyl Ether	2.166	59	7279	1.01	ug/L	#	79
10) Freon 123a	2.172	67	9331m	1.19	ug/L		
11) Freon 123	2.239	83	9419	1.09	ug/L		92
12) Acrolein	2.270	56	12742m	5.34	ug/L		
13) 1,1-Diclethene	2.373	96	6686	1.12	ug/L	#	62
14) Freon 113	2.373	101	6409	0.99	ug/L		84
15) Acetone	2.416	43	10232	1.67	ug/L		82
16) 2-Propanol	2.568	45	25381	18.33	ug/L		92
17) Iodomethane	2.501	142	3358	0.51	ug/L		75
18) Carbon Disulfide	2.568	76	17750	1.02	ug/L		82
19) Acetonitrile	2.684	40	6031	5.36	ug/L	#	58
20) Allyl Chloride	2.727	76	4594	1.31	ug/L	#	73
21) Methyl Acetate	2.757	43	9618	0.85	ug/L		80
22) Methylene Chloride	2.855	84	7938	1.09	ug/L	#	62
23) TBA	3.007	59	34790	18.16	ug/L		83
24) Acrylonitrile	3.129	53	24512	4.77	ug/L		97
25) Methyl-t-Butyl Ether	3.184	73	23835	0.95	ug/L		86
26) trans-1,2-Dichloroethene	3.166	96	7613	1.19	ug/L	#	70
27) 1,1-Diclethane	3.702	63	14938	1.16	ug/L		99
28) Vinyl Acetate	3.812	86	1087m	0.81	ug/L		
29) DIPE	3.855	45	34469	1.11	ug/L		92
30) 2-Chloro-1,3-Butadiene	3.836	53	14650	1.04	ug/L		99
31) ETBE	4.434	59	27607	1.04	ug/L		79
32) 2,2-Dichloropropane	4.623	77	11094m	1.11	ug/L		
33) cis-1,2-Dichloroethene	4.623	96	7807m	1.06	ug/L		
34) 2-Butanone	4.696	43	7575	0.91	ug/L		84
35) Propionitrile	4.794	54	10531	5.04	ug/L		90

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.050	130	4871	1.03	ug/L	#	82
37) Methacrylonitrile	5.068	67	4752	1.02	ug/L	#	68
38) Tetrahydrofuran	5.159	42	6243	1.23	ug/L		82
39) Chloroform	5.245	83	12152	0.97	ug/L		89
40) 1,1,1-Trichloroethane	5.519	97	10550	0.99	ug/L		89
42) Cyclohexane	5.598	41	14700	1.64	ug/L		100
44) Carbontetrachloride	5.781	121	2299	0.89	ug/L		78
45) 1,1-Dichloropropene	5.793	75	10517	1.16	ug/L		82
47) Benzene	6.110	78	28122	1.07	ug/L		88
48) 1,2-Dichloroethane	6.153	62	12386	1.02	ug/L		99
49) Iso-Butyl Alcohol	6.159	43	17009	17.84	ug/L		99
50) TAME	6.342	73	23518	1.06	ug/L		89
51) n-Heptane	6.592	43	14991	1.25	ug/L		82
52) 1-Butanol	7.074	56	19164	37.35	ug/L		86
53) Trichloroethene	7.031	130	9409	1.15	ug/L		91
54) Methylcyclohexane	7.263	55	12981	1.26	ug/L	#	79
55) 1,2-Diclpropane	7.311	63	8673	1.09	ug/L		90
56) Dibromomethane	7.439	93	5182	1.02	ug/L		84
57) 1,4-Dioxane	7.519	88	2649	14.39	ug/L		93
58) Methyl Methacrylate	7.531	69	6090	0.89	ug/L		93
59) Bromodichloromethane	7.677	83	9493	0.97	ug/L		90
60) 2-Nitropropane	7.951	41	5802m	1.75	ug/L		
61) 2-Chloroethylvinyl Ether	8.067	63	5904	0.98	ug/L		65
62) cis-1,3-Dichloropropene	8.201	75	10595	0.95	ug/L		89
63) 4-Methyl-2-pentanone	8.403	43	14013	0.97	ug/L		97
65) Toluene	8.561	91	31788	1.13	ug/L		86
66) trans-1,3-Dichloropropene	8.829	75	9654	0.90	ug/L		81
67) Ethyl Methacrylate	8.970	69	11030	0.94	ug/L		98
68) 1,1,2-Trichloroethane	9.012	97	7097	1.02	ug/L		89
71) Tetrachloroethene	9.146	164	7220	1.29	ug/L	#	68
72) 2-Hexanone	9.299	43	10076	0.92	ug/L		87
73) 1,3-Dichloropropane	9.177	76	12851	1.08	ug/L		97
74) Dibromochloromethane	9.408	129	5862	0.81	ug/L		96
75) N-Butyl Acetate	9.451	43	18454	0.98	ug/L		87
76) 1,2-Dibromoethane	9.500	107	7762	1.04	ug/L	#	79
77) 3-Chlorobenzotrifluoride	10.000	180	12795	1.17	ug/L	#	94
78) Chlorobenzene	9.982	112	21047	1.14	ug/L		97
79) 4-Chlorobenzotrifluoride	10.055	180	10165	1.06	ug/L		83
80) 1,1,1,2-Tetrachloroethane	10.067	131	5216	0.78	ug/L		92
81) Ethylbenzene	10.103	106	10200	1.06	ug/L	#	80
82) (m+p)Xylene	10.213	106	23116	2.00	ug/L		92
83) o-Xylene	10.567	106	13800	1.19	ug/L	#	81
84) Styrene	10.579	104	20498	1.03	ug/L		91
85) Bromoform	10.725	173	4300	0.80	ug/L		98
86) 2-Chlorobenzotrifluoride	10.805	180	12519	1.19	ug/L	#	78
87) Isopropylbenzene	10.896	105	31689	1.10	ug/L		97
88) Cyclohexanone	10.957	55	40833	19.20	ug/L		98
89) trans-1,4-Dichloro-2-B...	11.195	53	2709	0.77	ug/L		93
91) 1,1,2,2-Tetrachloroethane	11.152	83	6473	0.80	ug/L		95
92) Bromobenzene	11.140	156	8635	1.07	ug/L		97
93) 1,2,3-Trichloropropane	11.183	110	3535	1.11	ug/L	#	87

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

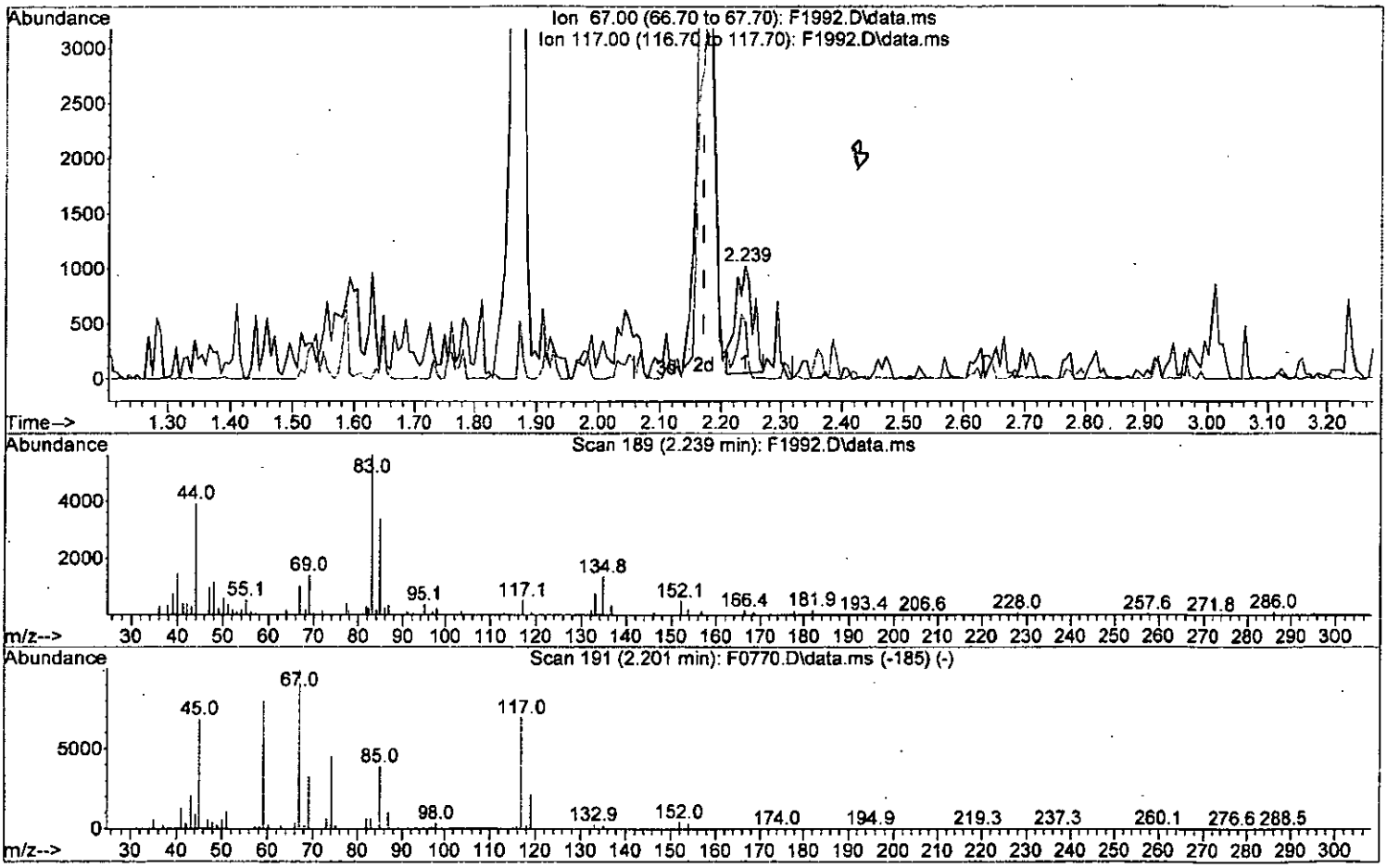
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	11.250	91	39596	1.22	ug/L		93
95)	2-Chlorotoluene	11.311	91	21603	1.04	ug/L		90
96)	3-Chlorotoluene	11.365	91	24439	1.14	ug/L		99
97)	4-Chlorotoluene	11.408	91	29528	1.22	ug/L		91
98)	1,3,5-Trimethylbenzene	11.402	105	25805	1.15	ug/L		89
99)	tert-Butylbenzene	11.670	119	22911	1.13	ug/L		97
100)	1,2,4-Trimethylbenzene	11.713	105	29389	1.26	ug/L		99
101)	3,4-Dichlorobenzotrifl...	11.774	214	9666	1.14	ug/L		97
102)	sec-Butylbenzene	11.853	105	32892	1.15	ug/L		95
103)	p-Isopropyltoluene	11.969	119	28917	1.21	ug/L		90
104)	1,3-Dclbenz	11.938	146	16214	1.09	ug/L		91
105)	1,4-Dclbenz	12.006	146	19114	1.22	ug/L		99
106)	2,4-Dichlorobenzotrifl...	12.060	214	7996	1.04	ug/L		87
107)	2,5-Dichlorobenzotrifl...	12.060	214	7996	0.95	ug/L		92
108)	n-Butylbenzene	12.304	91	26527	1.09	ug/L		82
109)	1,2-Dclbenz	12.310	146	16188	1.08	ug/L		90
110)	1,2-Dibromo-3-chloropr...	12.926	157	2489	1.03	ug/L	#	78
111)	Trielution Dichlorotol...	13.048	125	46634	3.50	ug/L		87
112)	1,3,5-Trichlorobenzene	13.097	180	14085	1.19	ug/L	#	73
113)	Coelution Dichlorotoluene	13.377	125	33741	2.31	ug/L		98
114)	1,2,4-Tcbenzene	13.585	180	13944	1.18	ug/L		91
115)	Hexachlorobt	13.719	225	4721	0.98	ug/L		90
116)	Naphthalen	13.774	128	35529	1.05	ug/L		100
117)	1,2,3-Tclbenzene	13.962	180	13551	1.14	ug/L		84
118)	2,4,5-Trichlorotoluene	14.548	159	10240	1.09	ug/L		93
119)	2,3,6-Trichlorotoluene	14.633	159	8367	1.01	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(10) Freon 123a

2.239min (+0.067) 0.24 ug/L

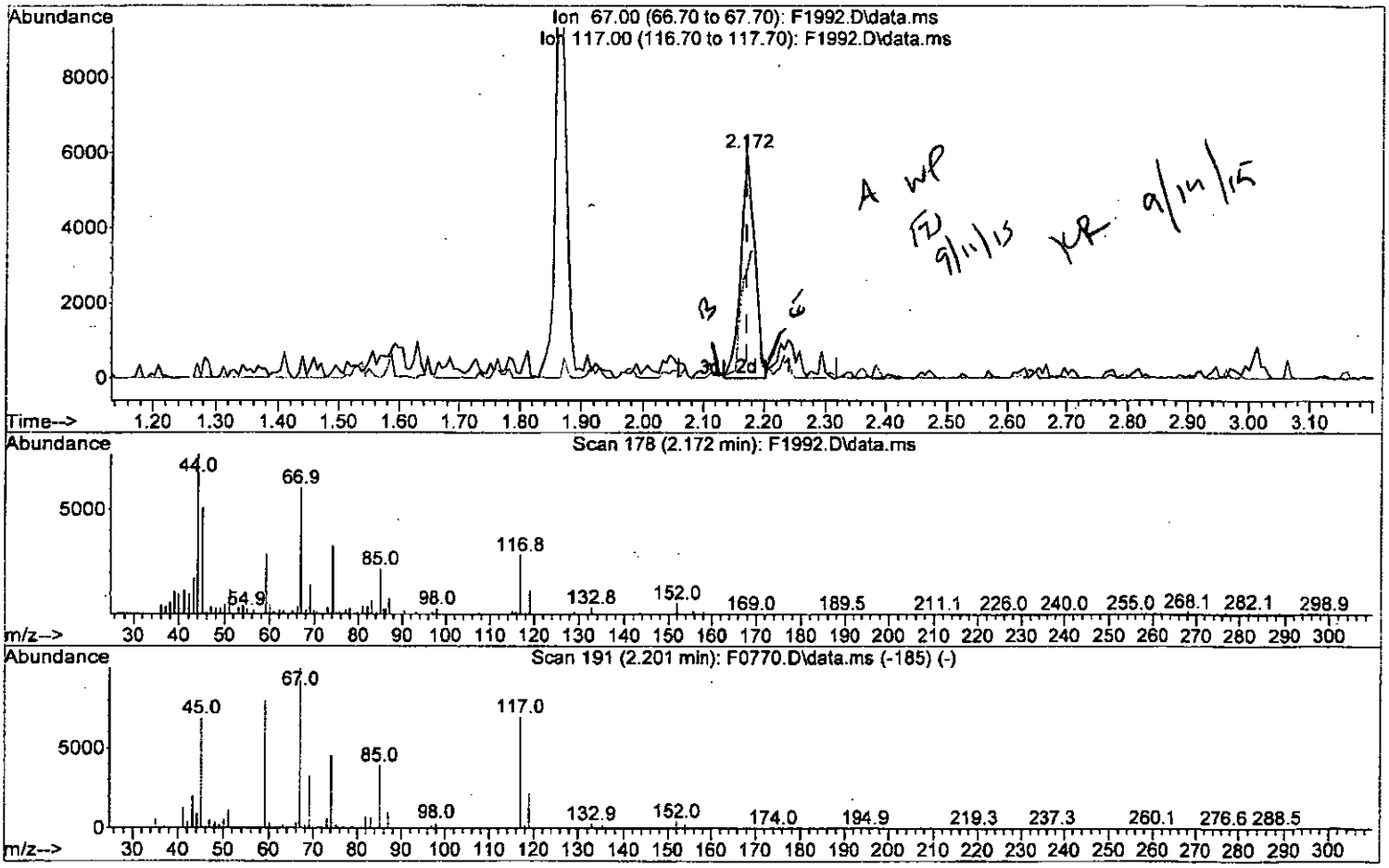
response 1909

Ion	Exp%	Act%
67.00	100	100
117.00	69.30	50.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(10) Freon 123a

2.172min (+0.000) 1.19 ug/L m

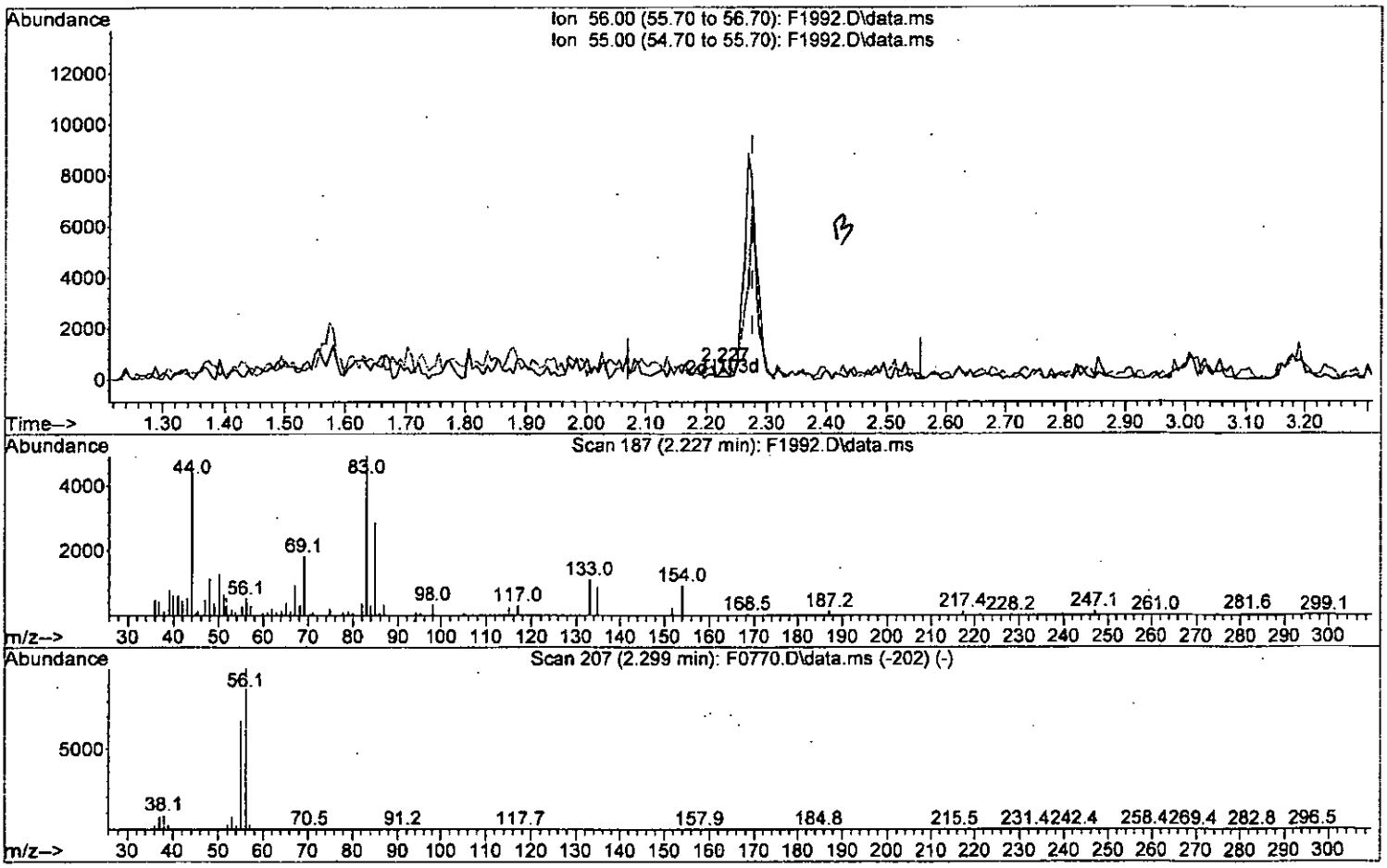
response 9331

Ion	Exp%	Act%
67.00	100	100
117.00	69.30	46.66#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(12) Acrolein

2.227min (-0.049) 0.10 ug/L

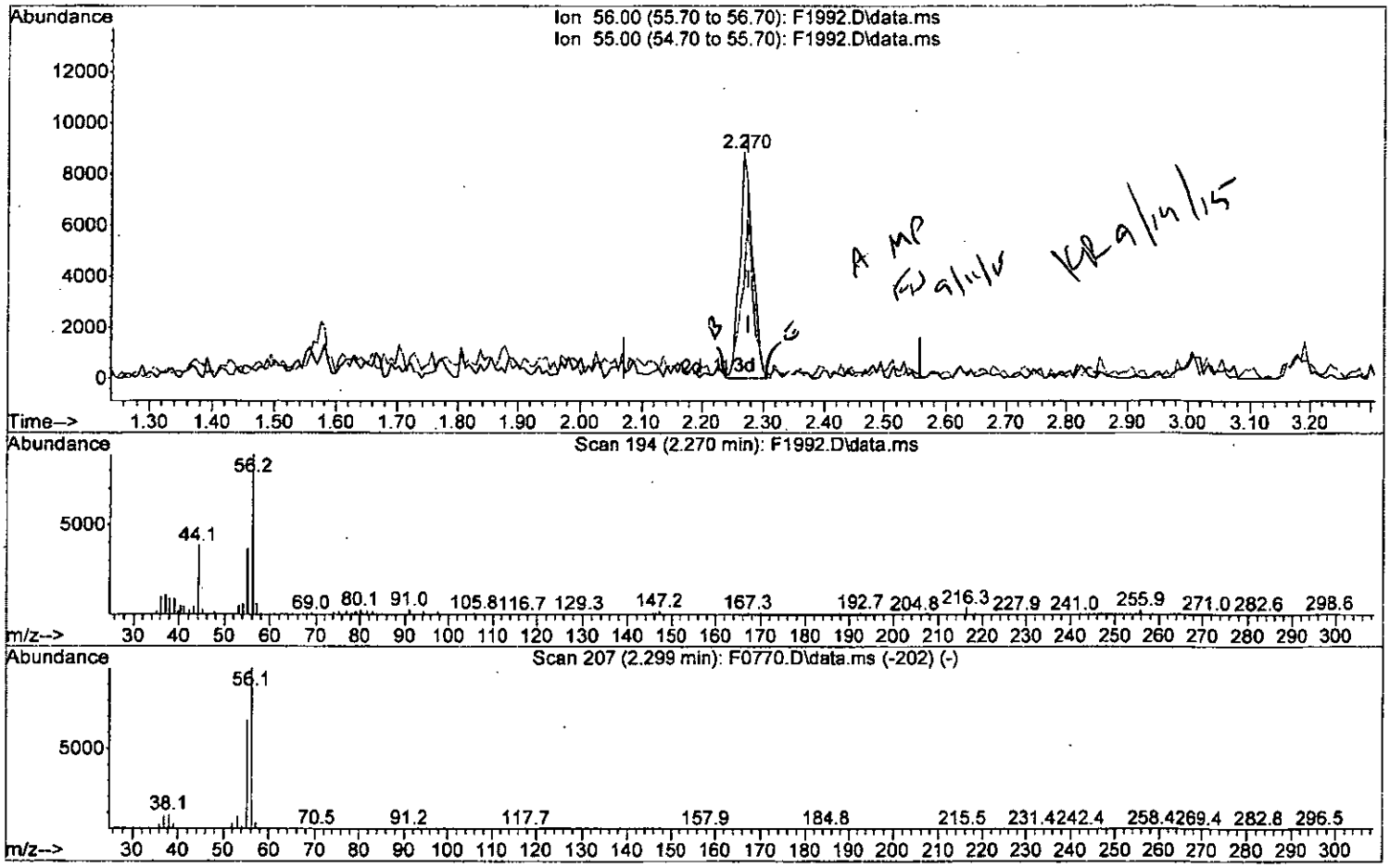
response 236

Ion	Exp%	Act%
56.00	100	100
55.00	67.90	56.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(12) Acrolein

2.270min (-0.006) 5.34 ug/L m

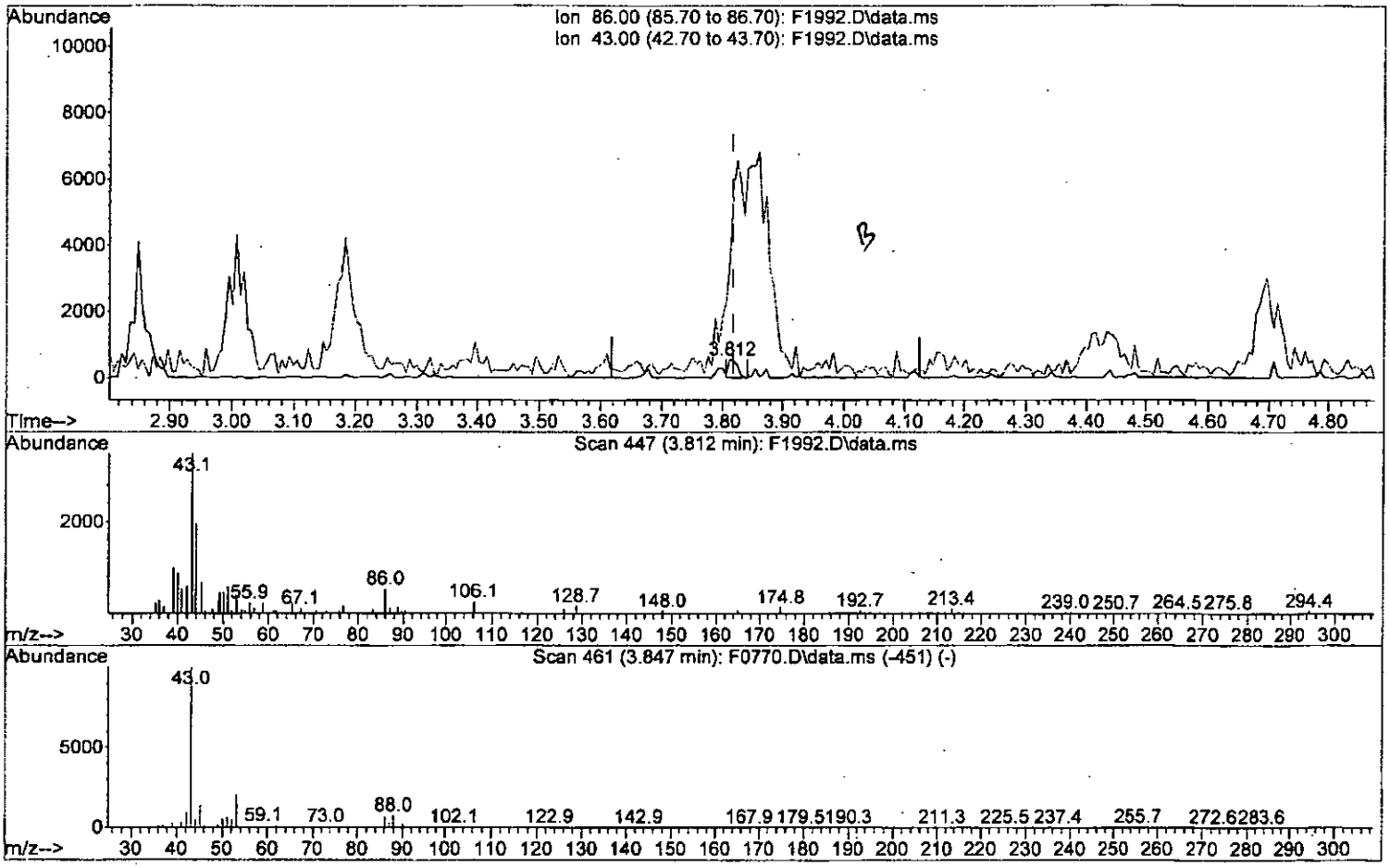
response 12742

Ion	Exp%	Act%
56.00	100	100
55.00	67.90	41.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(28) Vinyl Acetate

3.812min (-0.006) 0.42 ug/L

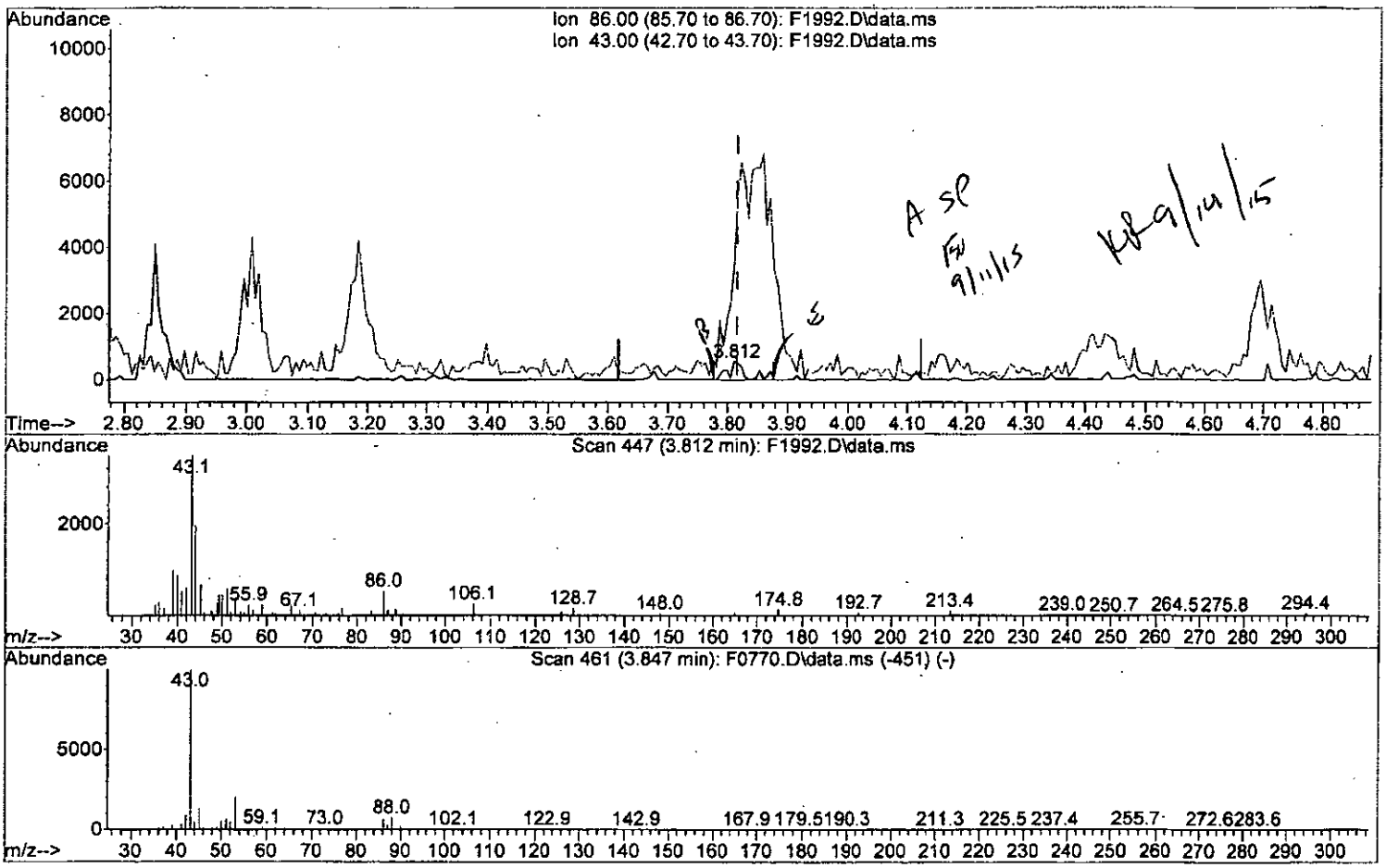
response 558

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	644.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(28) Vinyl Acetate

3.812min (-0.006) 0.81 ug/L m

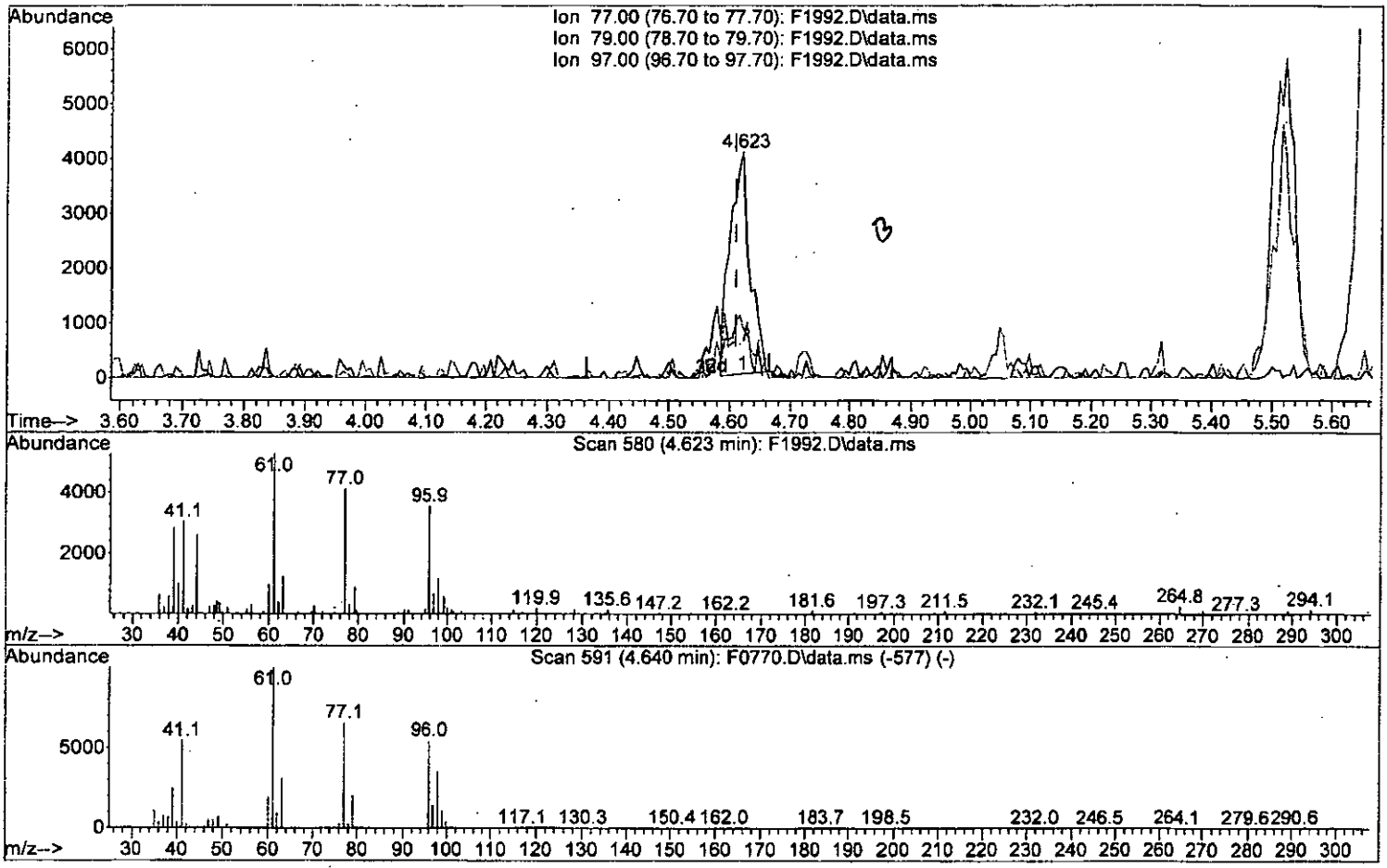
response 1087

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	644.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(32) 2,2-Dichloropropane

4.623min (+0.012) 0.91 ug/L

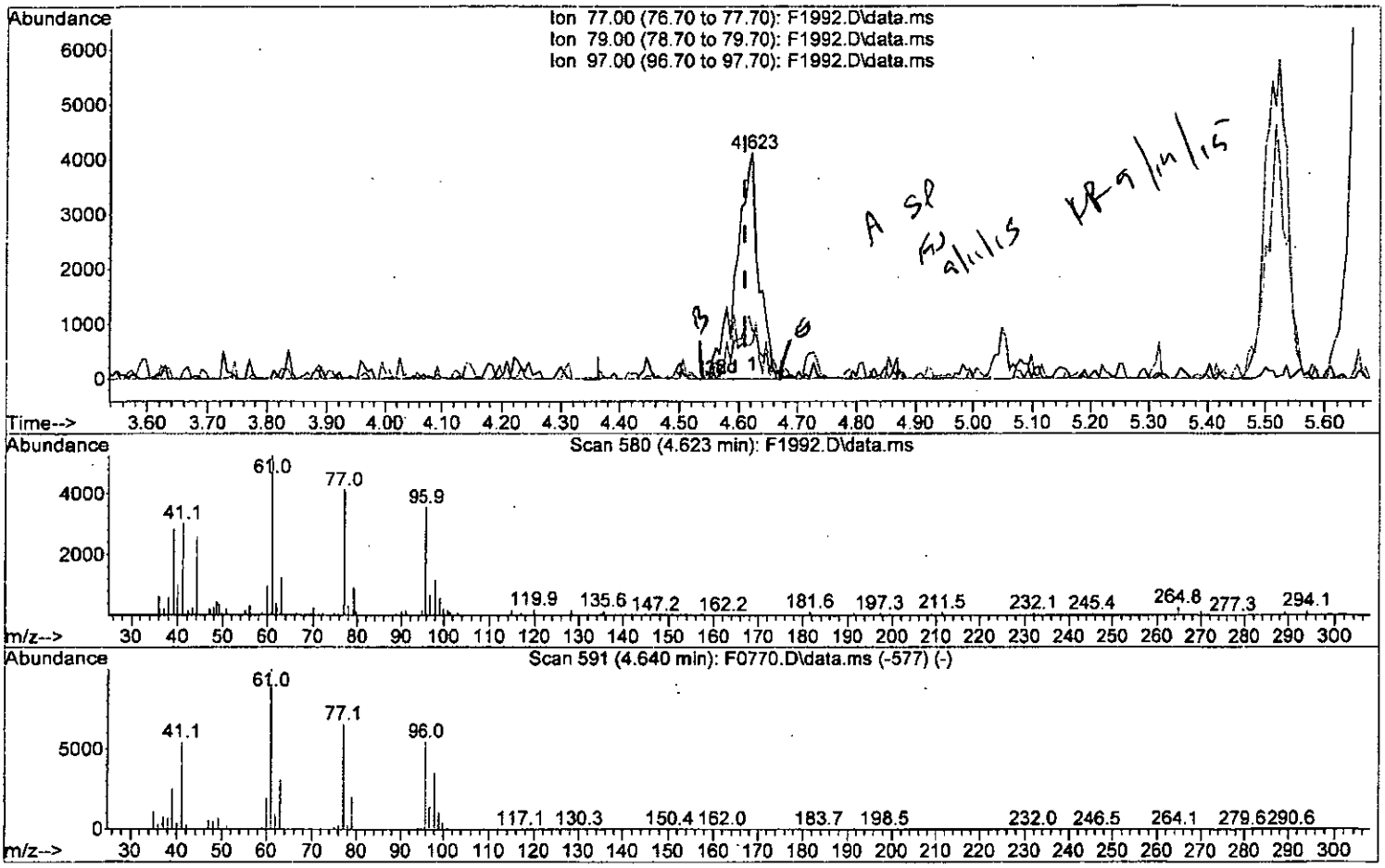
response 9085

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	24.37
97.00	22.40	15.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(32) 2,2-Dichloropropane

4.623min (+0.012) 1.11 ug/L m

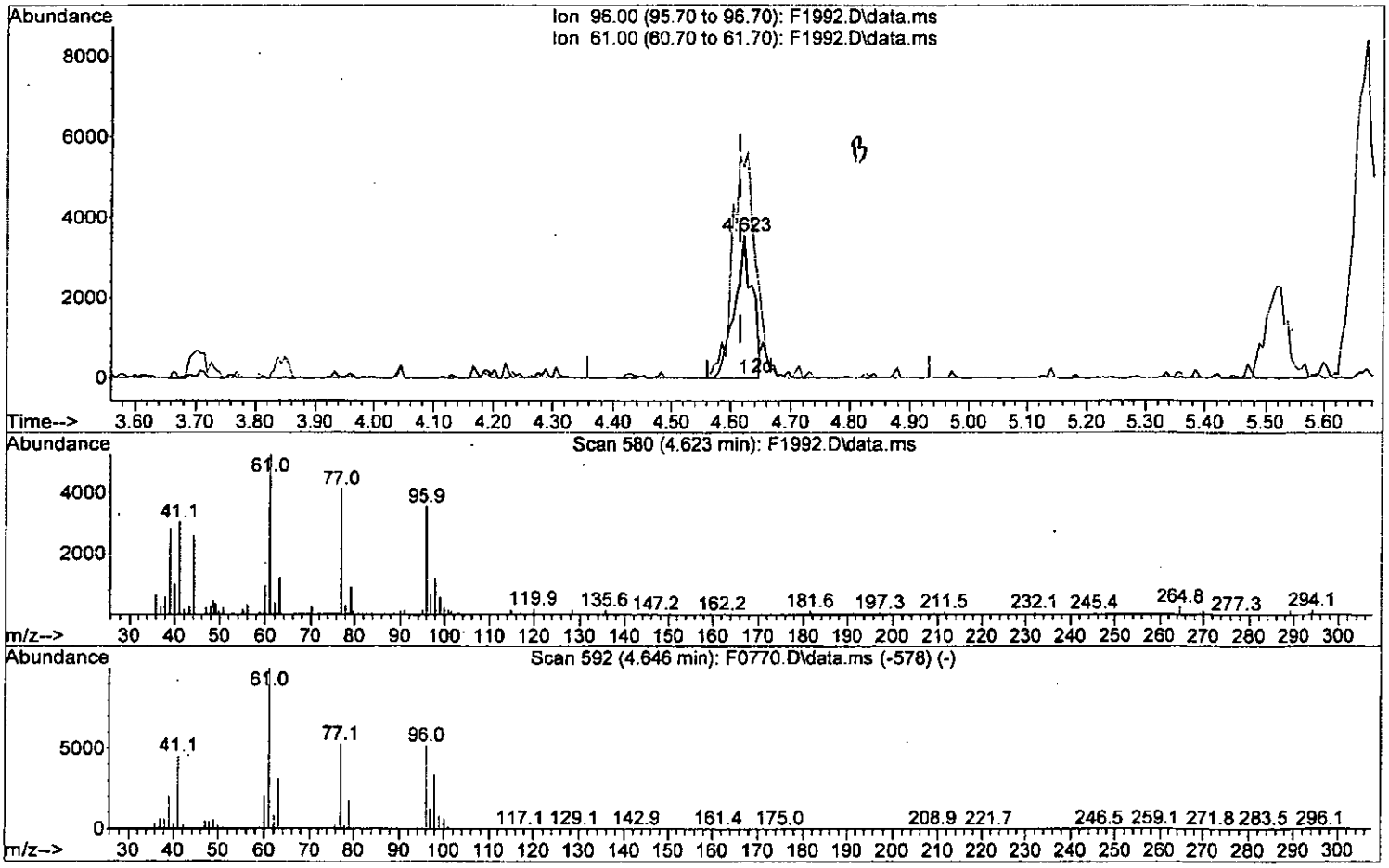
response 11094

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	21.66
97.00	22.40	15.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.623min (+0.006) 0.96 ug/L

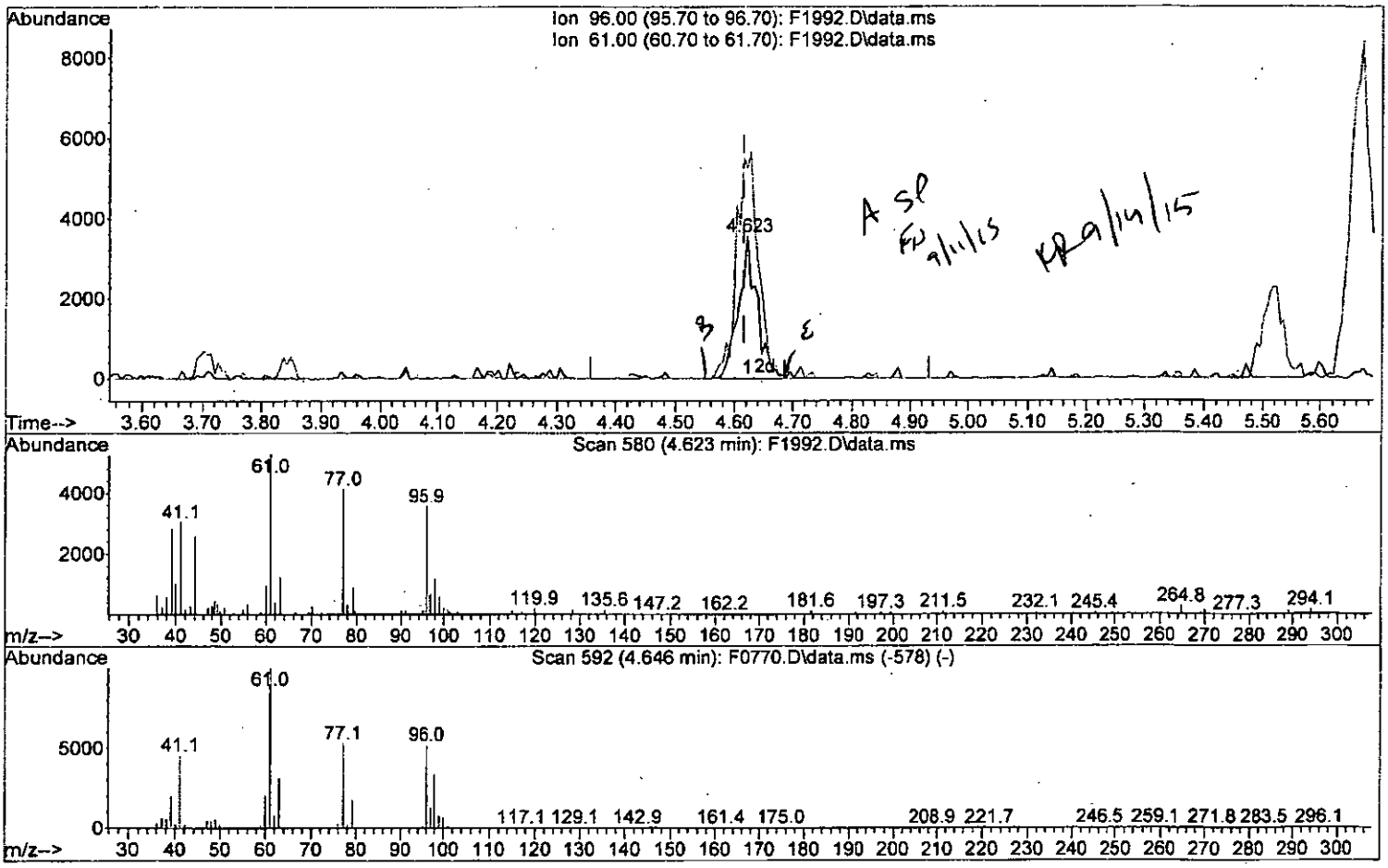
response 7046

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	148.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.623min (+0.006) 1.06 ug/L m

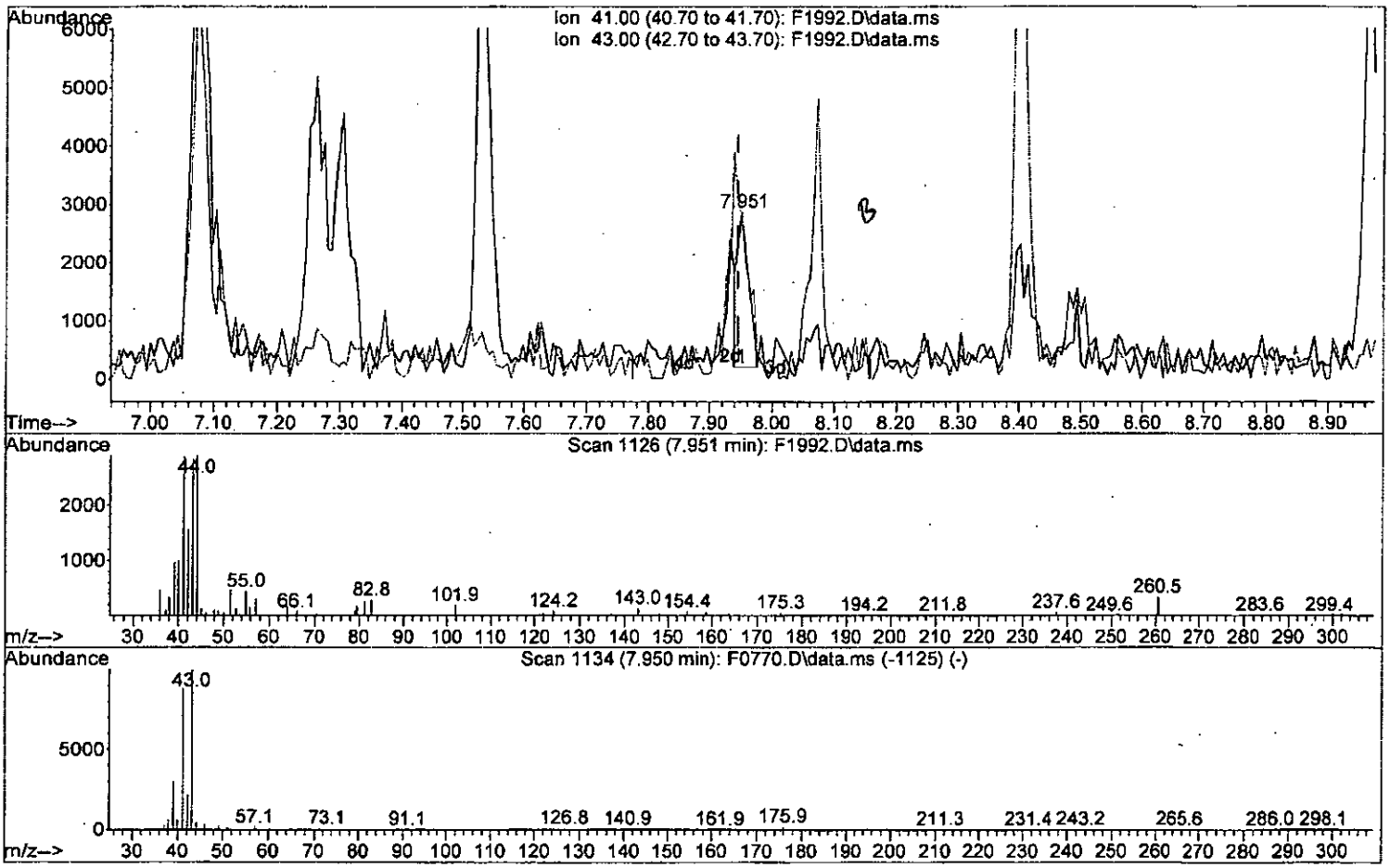
response 7807

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	148.02#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(60) 2-Nitropropane

7.951min (+0.006) 0.96 ug/L

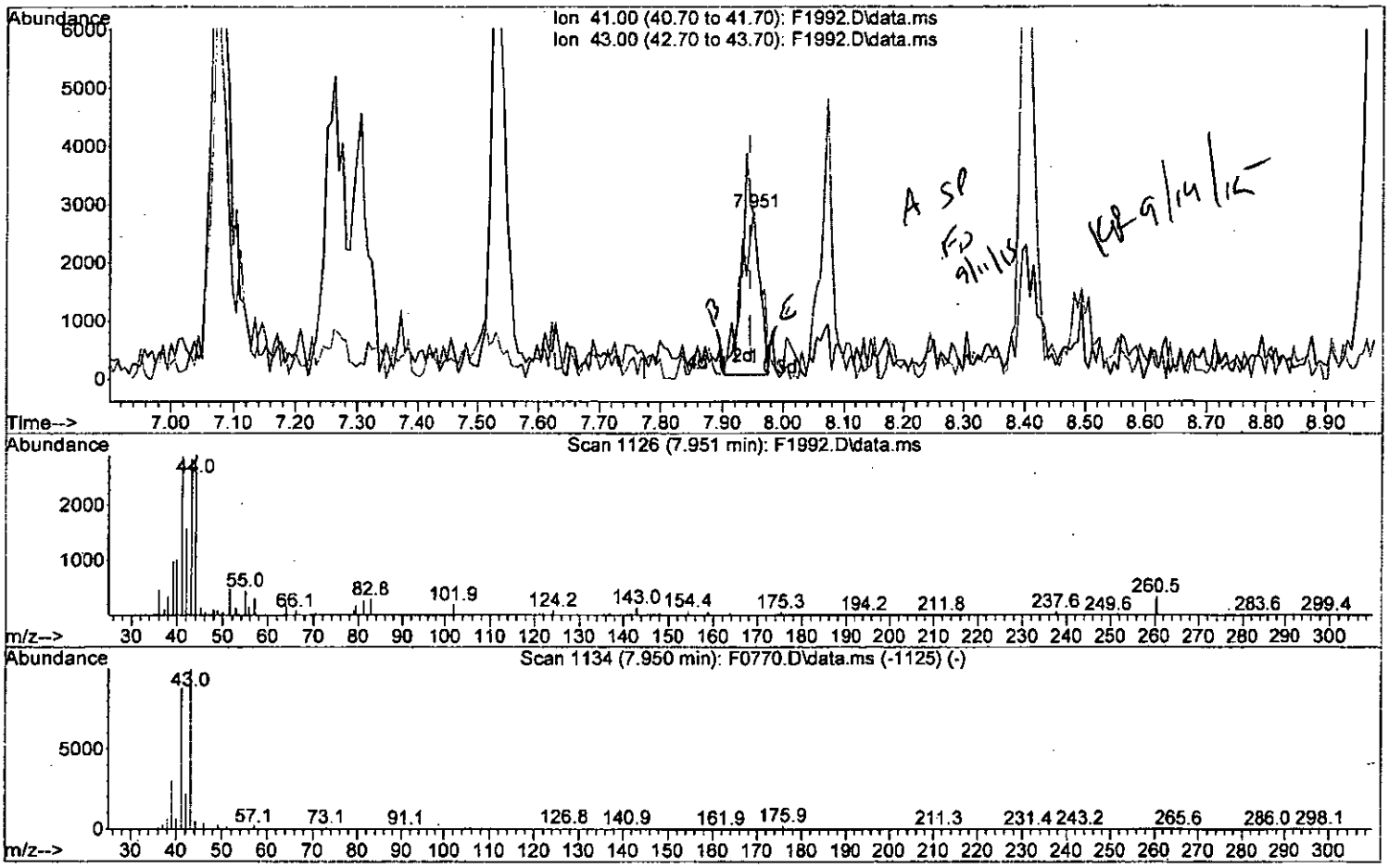
response 3183

Ion	Exp%	Act%
41.00	100	100
43.00	113.90	98.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 10 18:19:57 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1992.D\data.ms

(60) 2-Nitropropane

7.951min (+0.006) 1.75 ug/L m

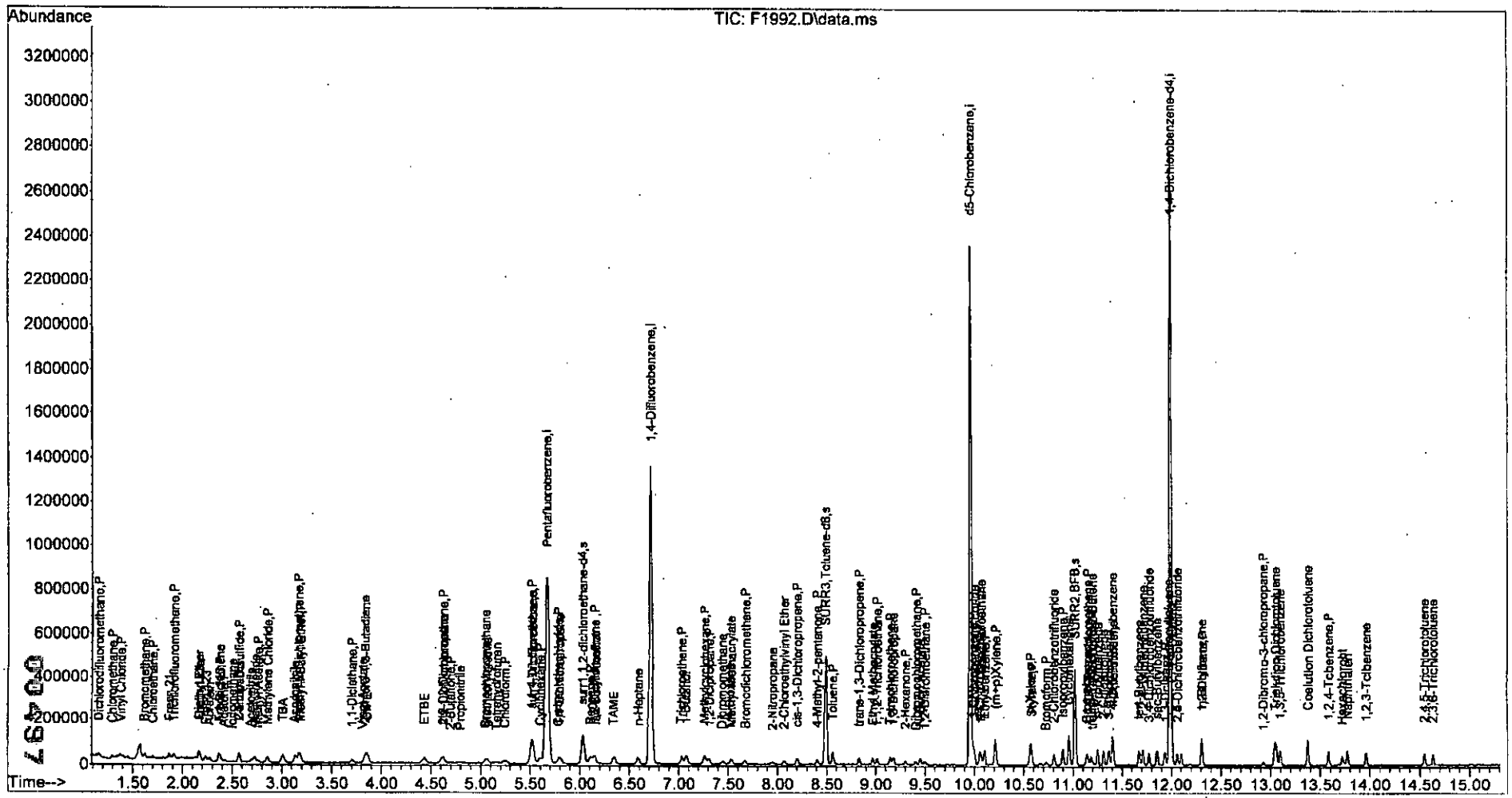
response 5802

Ion	Exp%	Act%
41.00	100	100
43.00	113.90	98.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1992.D
Acq On : 10 Sep 2015 6:05 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 09:02:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FW 9/11/15
KF 9/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	792996	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	1129647	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	982948	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	528125	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	70908	9.63	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 19.26%#			
46) surr1,1,2-dichloroetha...	6.031	65	105866	10.58	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.16%#			
64) SURR3,Toluene-d8	8.488	98	268749	10.23	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.46%#			
69) SURR2,BFB	11.018	95	106689	9.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 19.26%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	12110m	1.79	ug/L	
3) Chloromethane	1.294	50	18230	2.04	ug/L	93
4) Vinyl Chloride	1.373	62	14896	1.90	ug/L	90
5) Bromomethane	1.617	94	11137	2.52	ug/L	91
6) Chloroethane	1.703	64	10320	2.34	ug/L	79
7) Freon 21	1.867	67	27821	2.15	ug/L	92
8) Trichlorofluoromethane	1.910	101	20778	2.13	ug/L	87
9) Diethyl Ether	2.166	59	15411	1.98	ug/L	98
10) Freon 123a	2.172	67	21213	2.51	ug/L	93
11) Freon 123	2.233	83	19911	2.13	ug/L	93
12) Acrolein	2.276	56	26120	10.17	ug/L	89
13) 1,1-Diclethene	2.367	96	12951	2.02	ug/L	89
14) Freon 113	2.373	101	15013	2.16	ug/L	89
15) Acetone	2.416	43	16780	2.55	ug/L	90
16) 2-Propanol	2.574	45	55420	37.16	ug/L	81
17) Iodomethane	2.501	142	7312	1.03	ug/L #	53
18) Carbon Disulfide	2.562	76	42093	2.25	ug/L	94
19) Acetonitrile	2.690	40	19002	15.67	ug/L #	78
20) Allyl Chloride	2.721	76	8550	2.26	ug/L #	68
21) Methyl Acetate	2.757	43	25759	2.11	ug/L	98
22) Methylene Chloride	2.855	84	18595	2.37	ug/L #	72
23) TBA	3.013	59	75024	36.37	ug/L	85
24) Acrylonitrile	3.129	53	50453	9.12	ug/L	95
25) Methyl-t-Butyl Ether	3.178	73	54769	2.03	ug/L	92
26) trans-1,2-Dichloroethene	3.172	96	14236	2.07	ug/L	92
27) 1,1-Diclethane	3.714	63	32399	2.33	ug/L	86
28) Vinyl Acetate	3.818	86	3954m	2.74	ug/L	
29) DIPE	3.855	45	70980	2.12	ug/L	87
30) 2-Chloro-1,3-Butadiene	3.836	53	33671	2.23	ug/L	98
31) ETBE	4.434	59	57652	2.01	ug/L	94
32) 2,2-Dichloropropane	4.604	77	22959	2.13	ug/L	84
33) cis-1,2-Dichloroethene	4.617	96	15830	2.00	ug/L	88
34) 2-Butanone	4.702	43	16791	1.88	ug/L	84
35) Propionitrile	4.775	54	20464	9.08	ug/L	82

00498

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.050	130	10798m	2.12	ug/L		
37) Methacrylonitrile	5.068	67	9592	1.92	ug/L		95
38) Tetrahydrofuran	5.159	42	15045	2.75	ug/L		97
39) Chloroform	5.239	83	28020m	2.08	ug/L		
40) 1,1,1-Trichloroethane	5.525	97	23478	2.05	ug/L		95
42) Cyclohexane	5.592	41	21610	2.24	ug/L		92
44) Carbontetrachloride	5.781	121	6145	2.21	ug/L	#	68
45) 1,1-Dichloropropene	5.799	75	20900	2.16	ug/L		88
47) Benzene	6.104	78	62076	2.20	ug/L		76
48) 1,2-Dichloroethane	6.147	62	27569	2.12	ug/L		92
49) Iso-Butyl Alcohol	6.147	43	40590	39.74	ug/L		92
50) TAME	6.342	73	51560	2.17	ug/L		90
51) n-Heptane	6.592	43	28742	2.25	ug/L		97
52) 1-Butanol	7.080	56	46219	84.08	ug/L		99
53) Trichloroethene	7.031	130	18323	2.10	ug/L	#	79
54) Methylcyclohexane	7.263	55	25128	2.27	ug/L		87
55) 1,2-Diclpropane	7.305	63	17310	2.03	ug/L		97
56) Dibromomethane	7.445	93	9975	1.82	ug/L		78
57) 1,4-Dioxane	7.506	88	6883	34.92	ug/L		84
58) Methyl Methacrylate	7.537	69	14415	1.97	ug/L	#	81
59) Bromodichloromethane	7.671	83	20548	1.96	ug/L		96
60) 2-Nitropropane	7.945	41	14734	4.14	ug/L		89
61) 2-Chloroethylvinyl Ether	8.073	63	12159	1.89	ug/L		88
62) cis-1,3-Dichloropropene	8.201	75	24796	2.07	ug/L		90
63) 4-Methyl-2-pentanone	8.403	43	28407	1.84	ug/L		93
65) Toluene	8.561	91	65305	2.17	ug/L		96
66) trans-1,3-Dichloropropene	8.829	75	20680	1.80	ug/L		95
67) Ethyl Methacrylate	8.963	69	23499	1.87	ug/L		95
68) 1,1,2-Trichloroethane	9.012	97	15987	2.14	ug/L		84
71) Tetrachloroethene	9.146	164	12231	2.04	ug/L	#	63
72) 2-Hexanone	9.299	43	21950	1.86	ug/L		90
73) 1,3-Dichloropropane	9.183	76	27519	2.15	ug/L		91
74) Dibromochloromethane	9.396	129	13111	1.69	ug/L		87
75) N-Butyl Acetate	9.451	43	37423	1.84	ug/L		99
76) 1,2-Dibromoethane	9.500	107	14976	1.86	ug/L		93
77) 3-Chlorobenzotrifluoride	10.000	180	25196	2.15	ug/L		98
78) Chlorobenzene	9.982	112	43708	2.21	ug/L		95
79) 4-Chlorobenzotrifluoride	10.055	180	20640m	2.00	ug/L		
80) 1,1,1,2-Tetrachloroethane	10.067	131	13237	1.84	ug/L		89
81) Ethylbenzene	10.097	106	23001	2.23	ug/L	#	81
82) (m+p)Xylene	10.213	106	53770	4.33	ug/L		97
83) o-Xylene	10.561	106	26357	2.12	ug/L		99
84) Styrene	10.579	104	41897	1.96	ug/L		92
85) Bromoform	10.731	173	9151	1.58	ug/L		96
86) 2-Chlorobenzotrifluoride	10.805	180	24113	2.13	ug/L		100
87) Isopropylbenzene	10.896	105	69886	2.25	ug/L		99
88) Cyclohexanone	10.957	55	94472	41.34	ug/L		87
89) trans-1,4-Dichloro-2-B...	11.201	53	7556	1.99	ug/L		86
91) 1,1,2,2-Tetrachloroethane	11.152	83	17328	1.95	ug/L		97
92) Bromobenzene	11.140	156	18637	2.09	ug/L	#	73
93) 1,2,3-Trichloropropane	11.182	110	6500	1.85	ug/L	#	86

0045

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

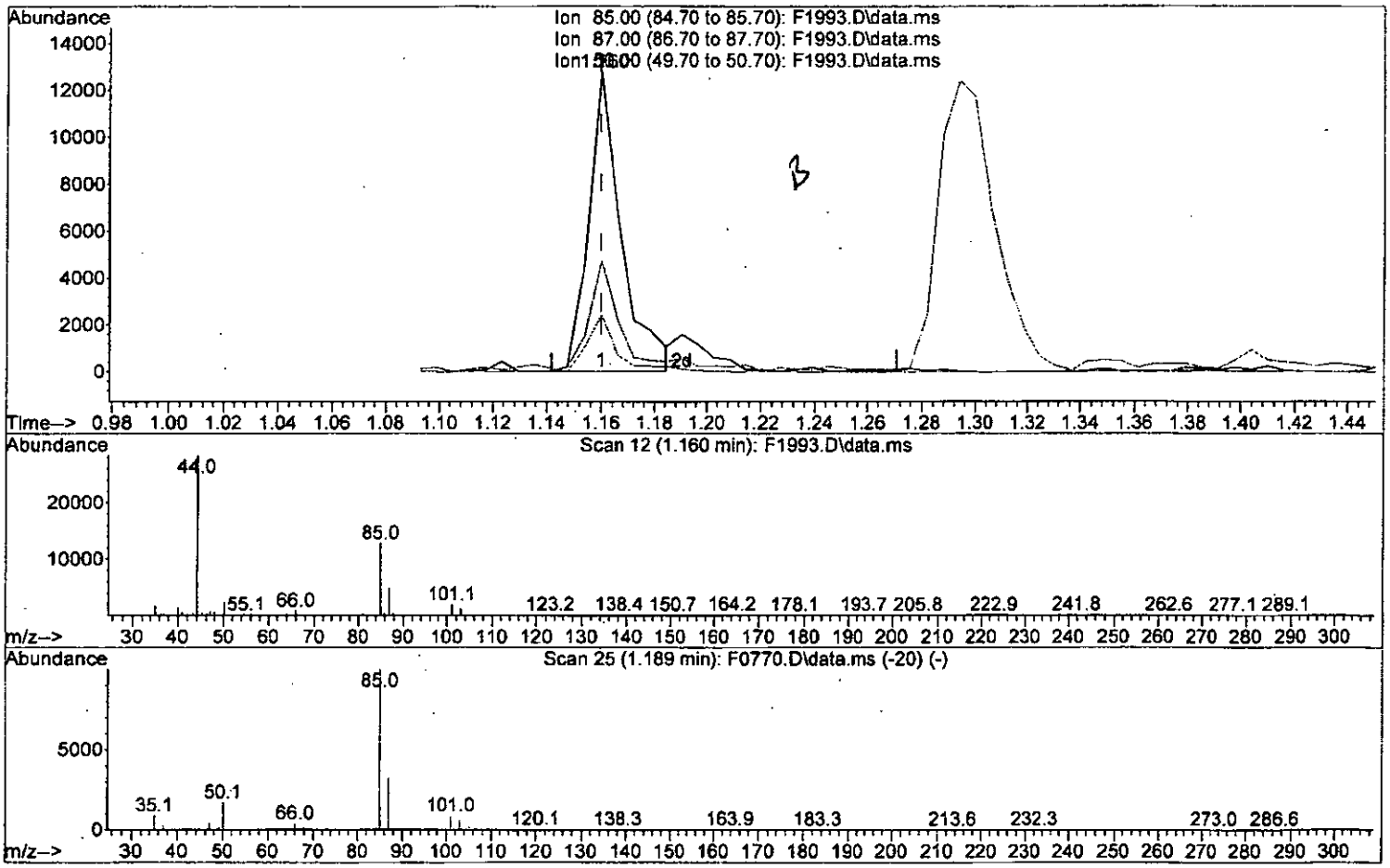
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	84593	2.37 ug/L	97
95)	2-Chlorotoluene	11.310	91	49657	2.17 ug/L	95
96)	3-Chlorotoluene	11.365	91	52056	2.21 ug/L	95
97)	4-Chlorotoluene	11.408	91	56843	2.13 ug/L	93
98)	1,3,5-Trimethylbenzene	11.402	105	59543	2.42 ug/L	98
99)	tert-Butylbenzene	11.676	119	46613	2.09 ug/L	93
100)	1,2,4-Trimethylbenzene	11.707	105	58065	2.25 ug/L	88
101)	3,4-Dichlorobenzotrifl...	11.774	214	20290	2.17 ug/L	92
102)	sec-Butylbenzene	11.853	105	73204	2.32 ug/L	99
103)	p-Isopropyltoluene	11.975	119	55973	2.12 ug/L	95
104)	1,3-Dclbenz	11.932	146	36692	2.25 ug/L	96
105)	1,4-Dclbenz	12.005	146	35201	2.03 ug/L	94
106)	2,4-Dichlorobenzotrifl...	12.060	214	17712	2.10 ug/L	96
107)	2,5-Dichlorobenzotrifl...	12.103	214	19091	2.06 ug/L	89
108)	n-Butylbenzene	12.304	91	58220	2.17 ug/L	94
109)	1,2-Dclbenz	12.310	146	34333	2.08 ug/L	95
110)	1,2-Dibromo-3-chloropr...	12.932	157	4859	1.83 ug/L	87
111)	Trielution Dichlorotol...	13.048	125	92607	6.32 ug/L	94
112)	1,3,5-Trichlorobenzene	13.097	180	27471	2.11 ug/L	99
113)	Coelution Dichlorotoluene	13.371	125	68436	4.26 ug/L	94
114)	1,2,4-Tcbenzene	13.584	180	27105	2.09 ug/L	98
115)	Hexachlorobt	13.725	225	10569	1.99 ug/L	93
116)	Naphthalen	13.773	128	74869	2.01 ug/L	95
117)	1,2,3-Tclbenzene	13.962	180	27675	2.12 ug/L	92
118)	2,4,5-Trichlorotoluene	14.542	159	20483	1.97 ug/L	97
119)	2,3,6-Trichlorotoluene	14.633	159	18413	2.02 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:10:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 1.57 ug/L

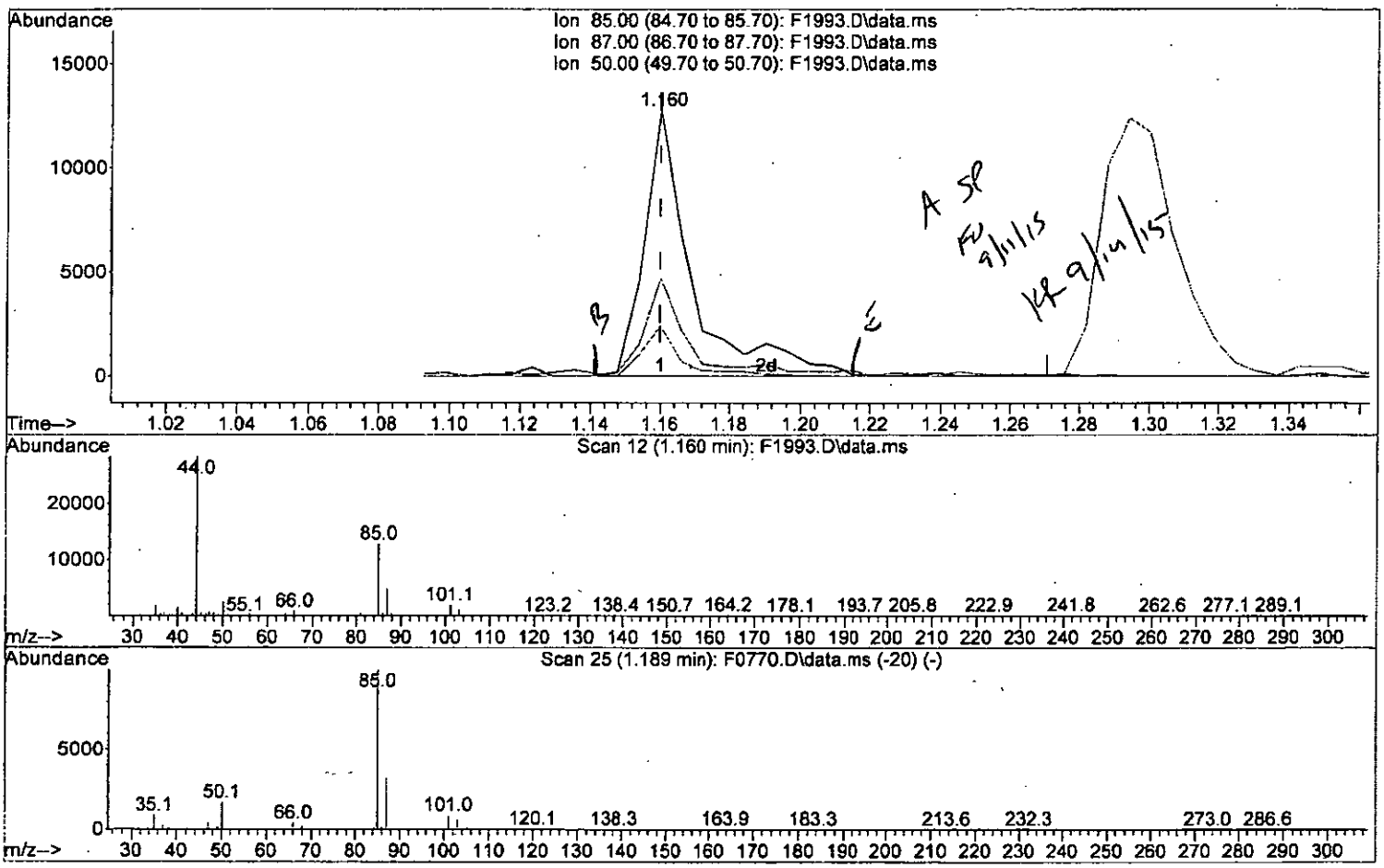
response 10646

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	36.88
50.00	17.40	18.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:10:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 1.79 ug/L m

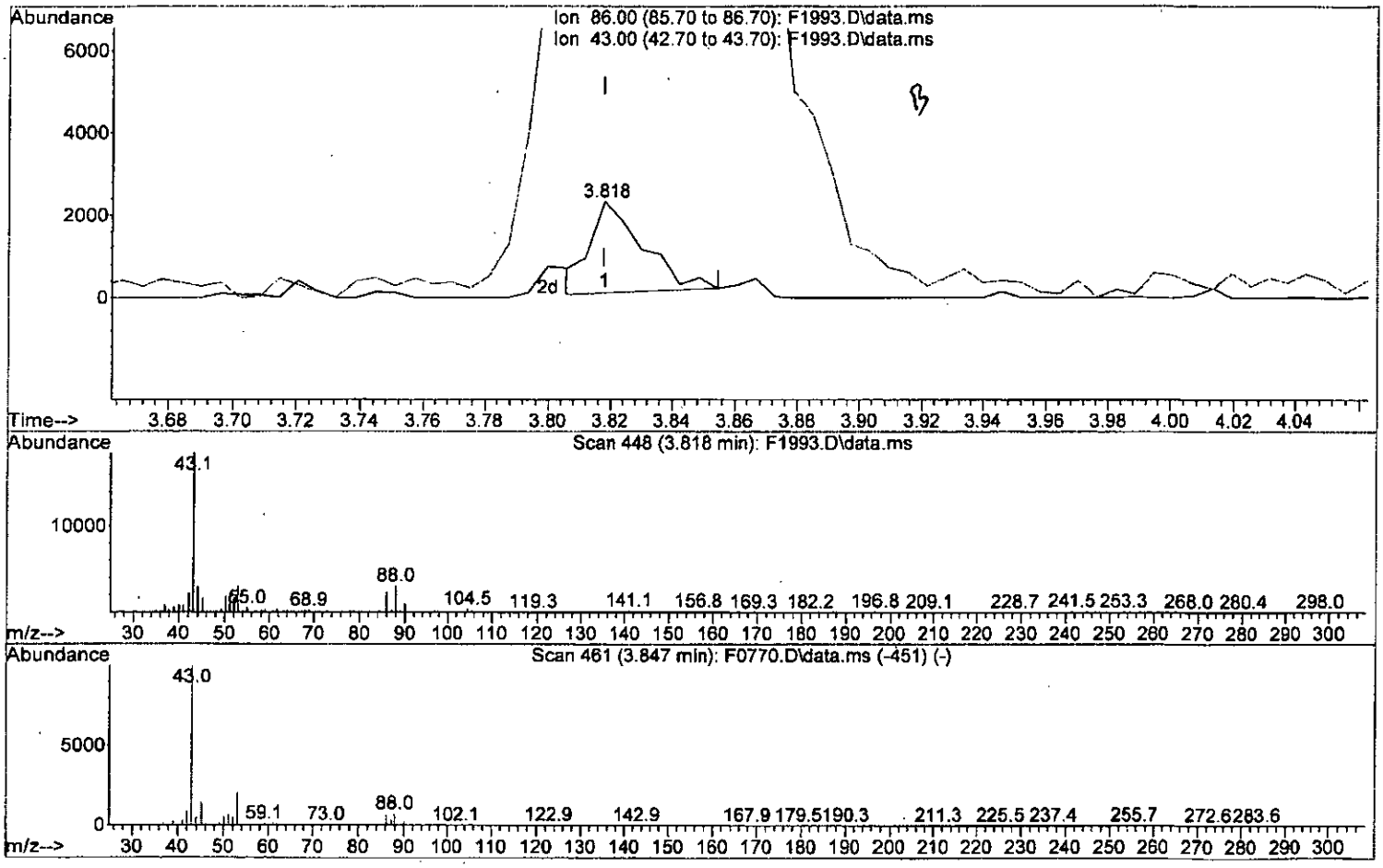
response 12110

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	36.88
50.00	17.40	18.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(28) Vinyl Acetate

3.818min (+0.000) 1.82 ug/L

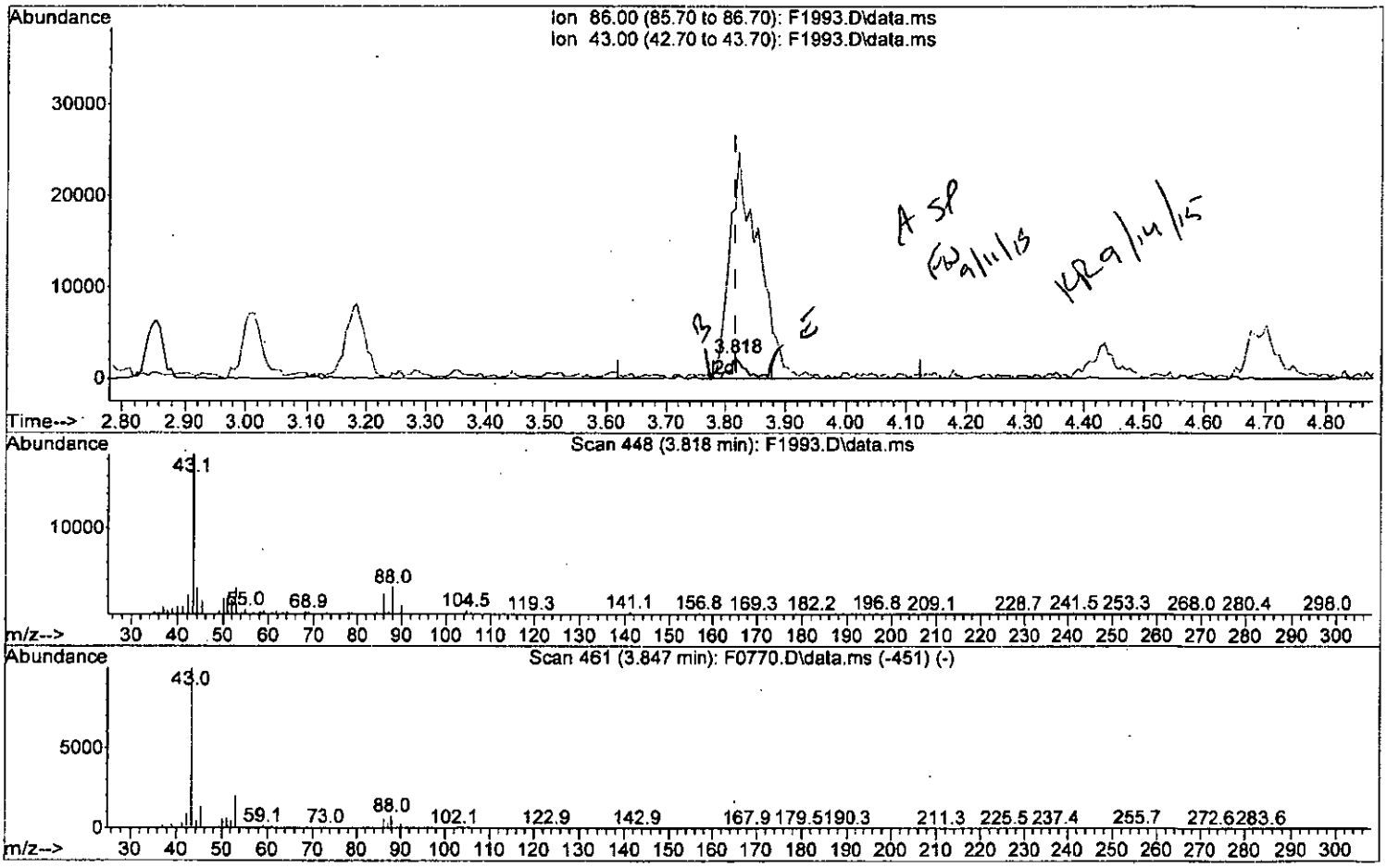
response 2624

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	792.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(28) Vinyl Acetate

3.818min (+0.000) 2.74 ug/L m

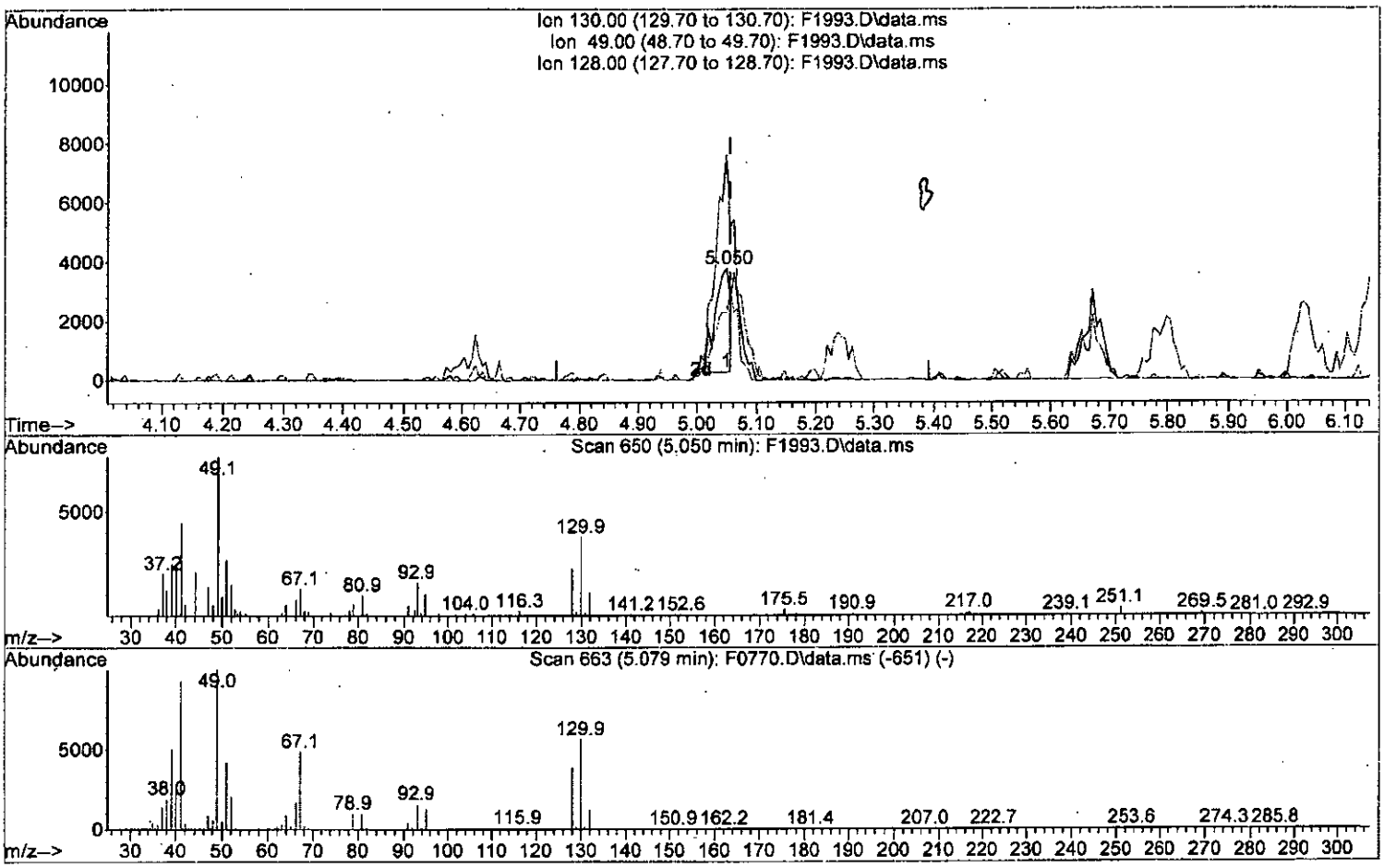
response 3954

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	792.80#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(36) Bromochloromethane

5.050min (-0.006) 1.17 ug/L

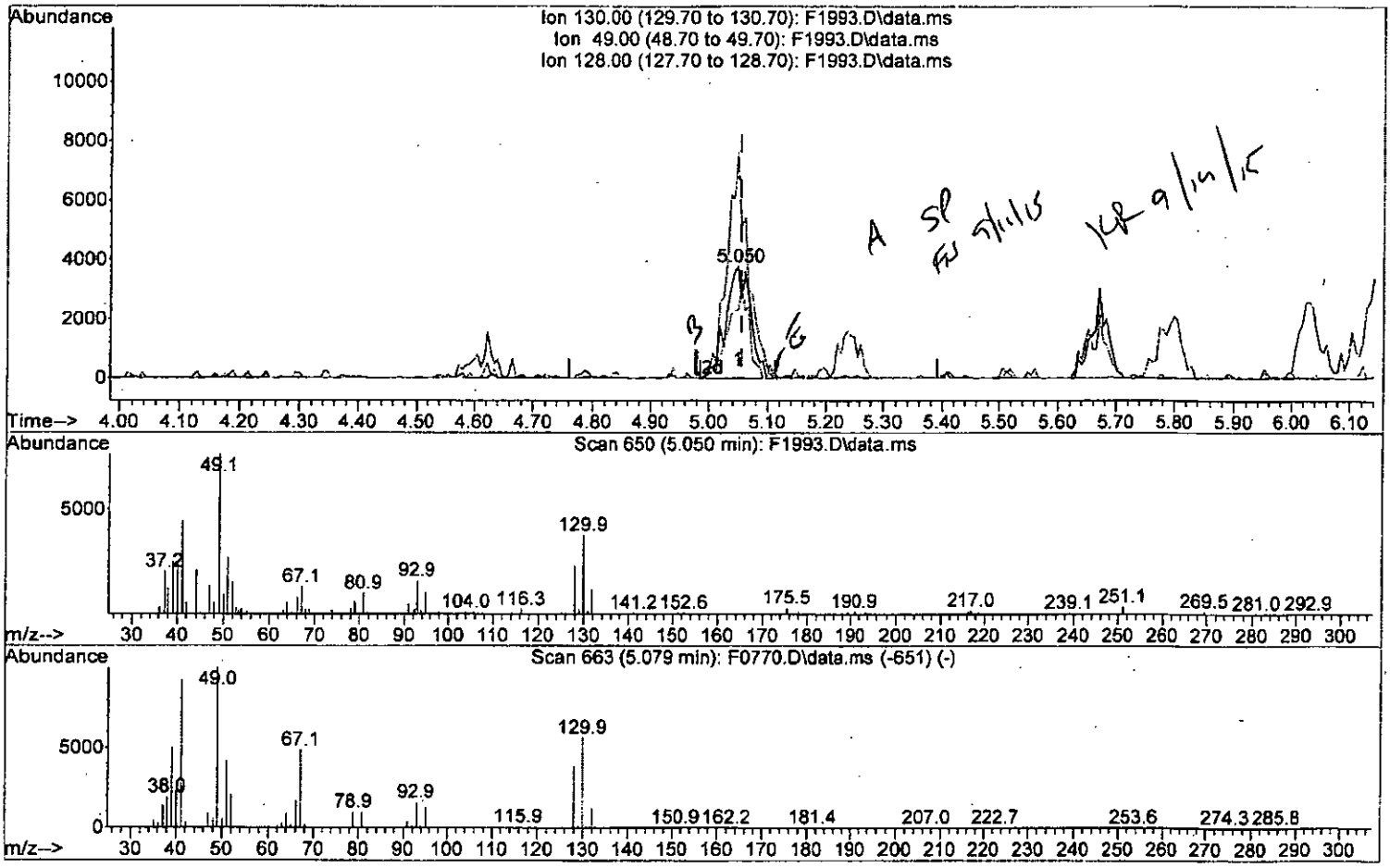
response 5977

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	202.15#
128.00	68.20	60.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(36) Bromochloromethane

5.050min (-0.006) 2.12 ug/L m

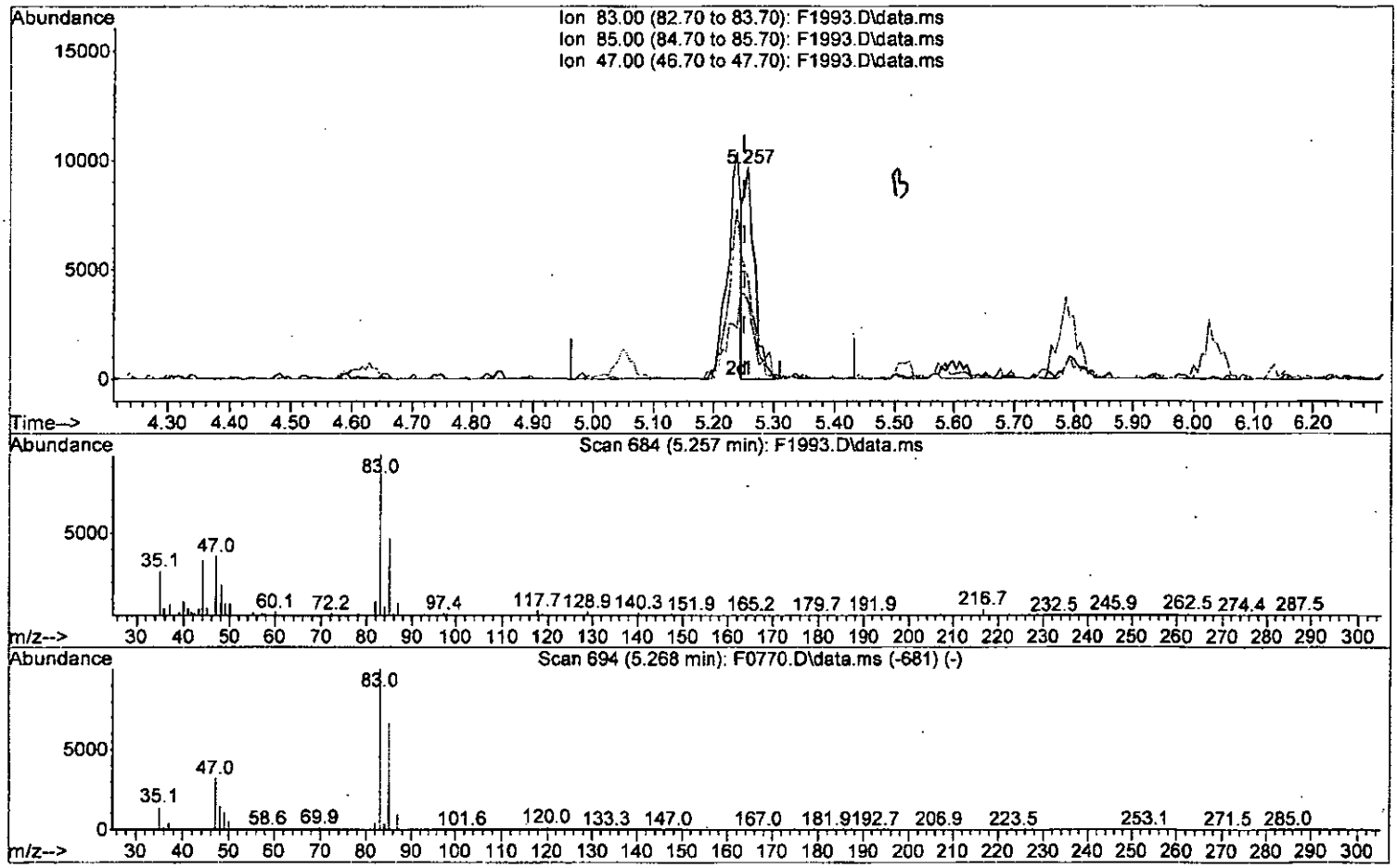
response 10798

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	202.15#
128.00	68.20	60.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(39) Chloroform (P)

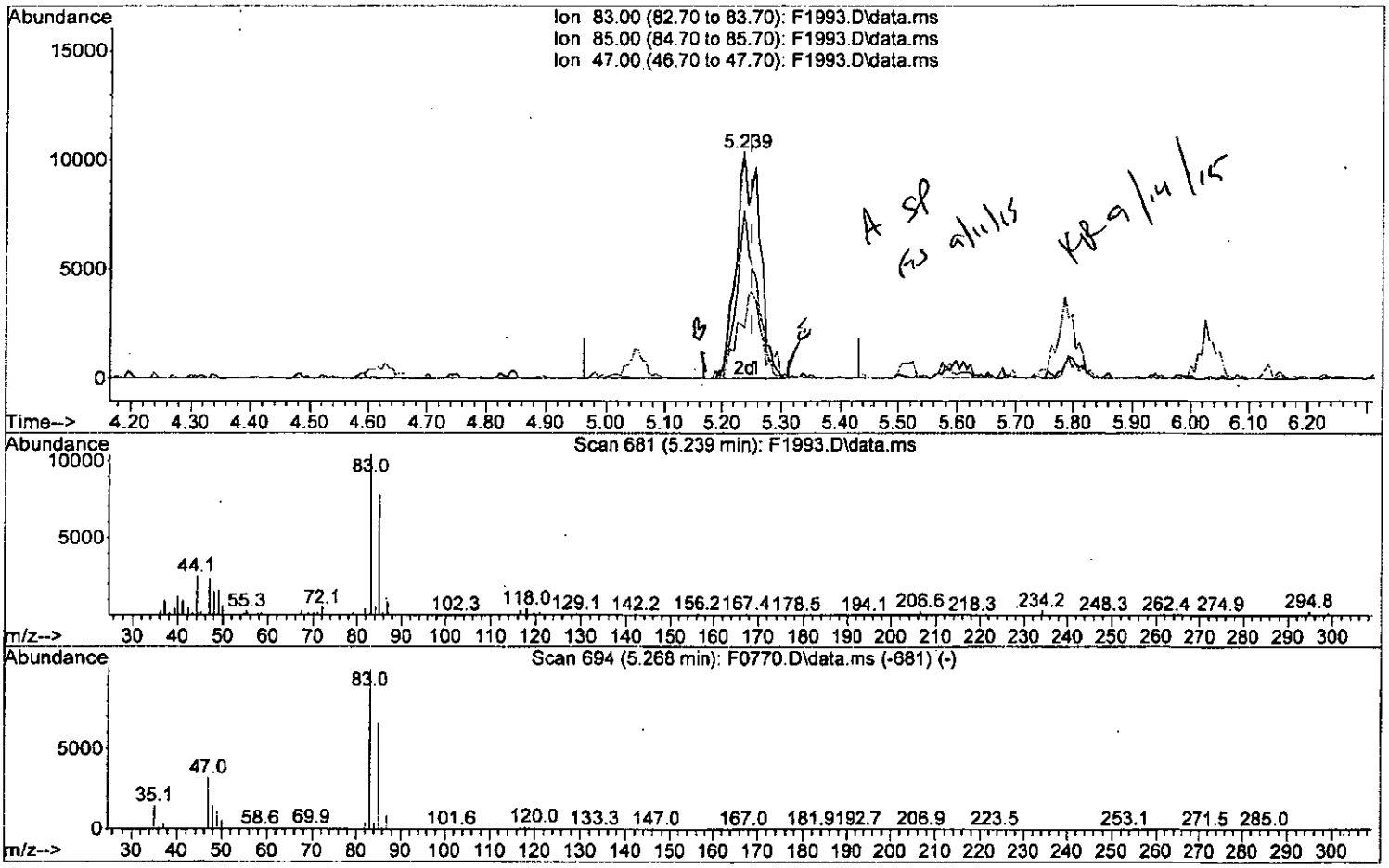
5.257min (+0.006) 0.92 ug/L

response 12356

Ion	Exp%	Act%
83.00	100	100
85.00	66.10	47.67
47.00	31.90	36.88
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(39) Chloroform (P)

5.239min (-0.012) 2.08 ug/L m

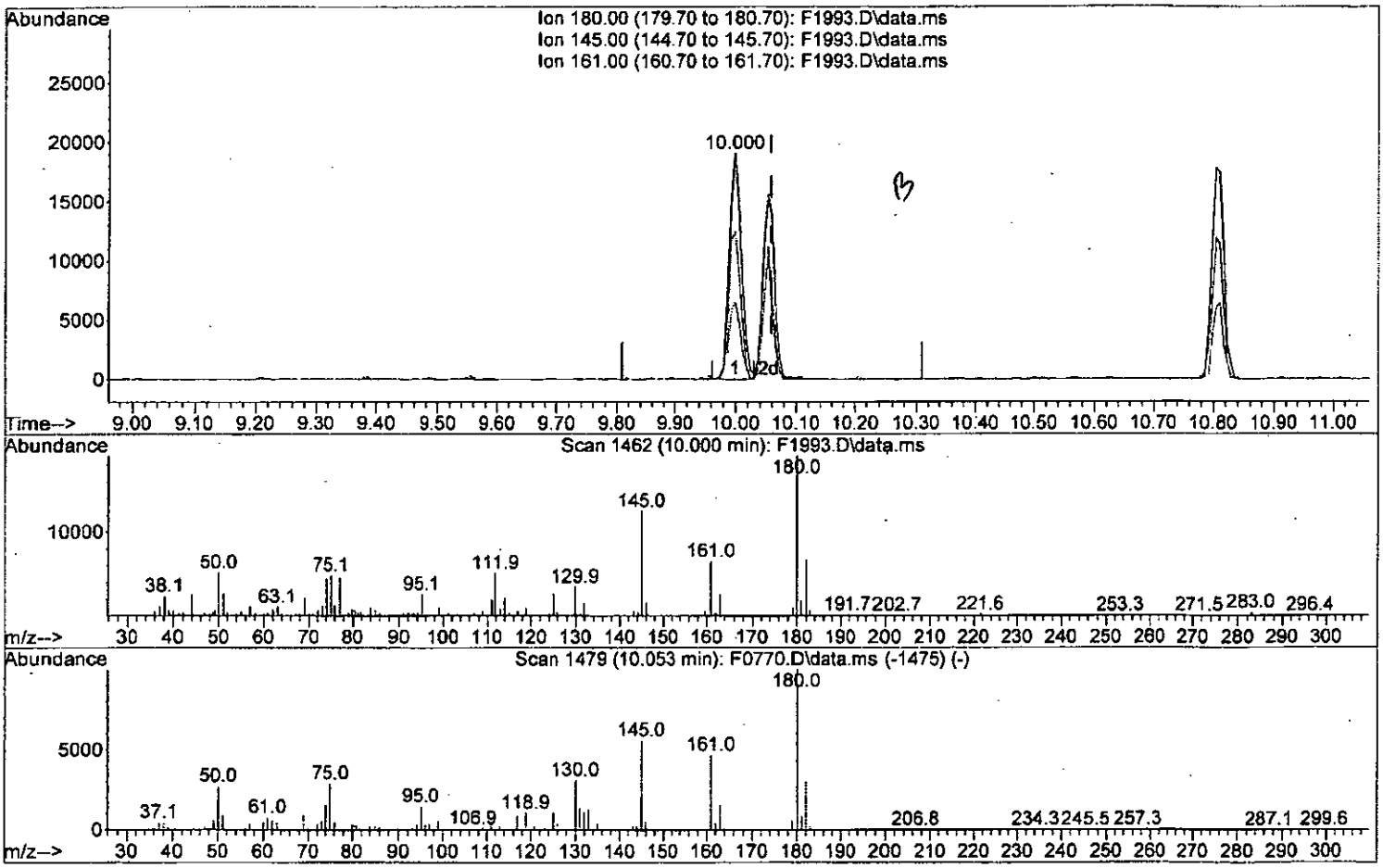
response 28020

Ion	Exp%	Act%
83.00	100	100
85.00	66.10	74.68
47.00	31.90	22.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(79) 4-Chlorobenzotrifluoride

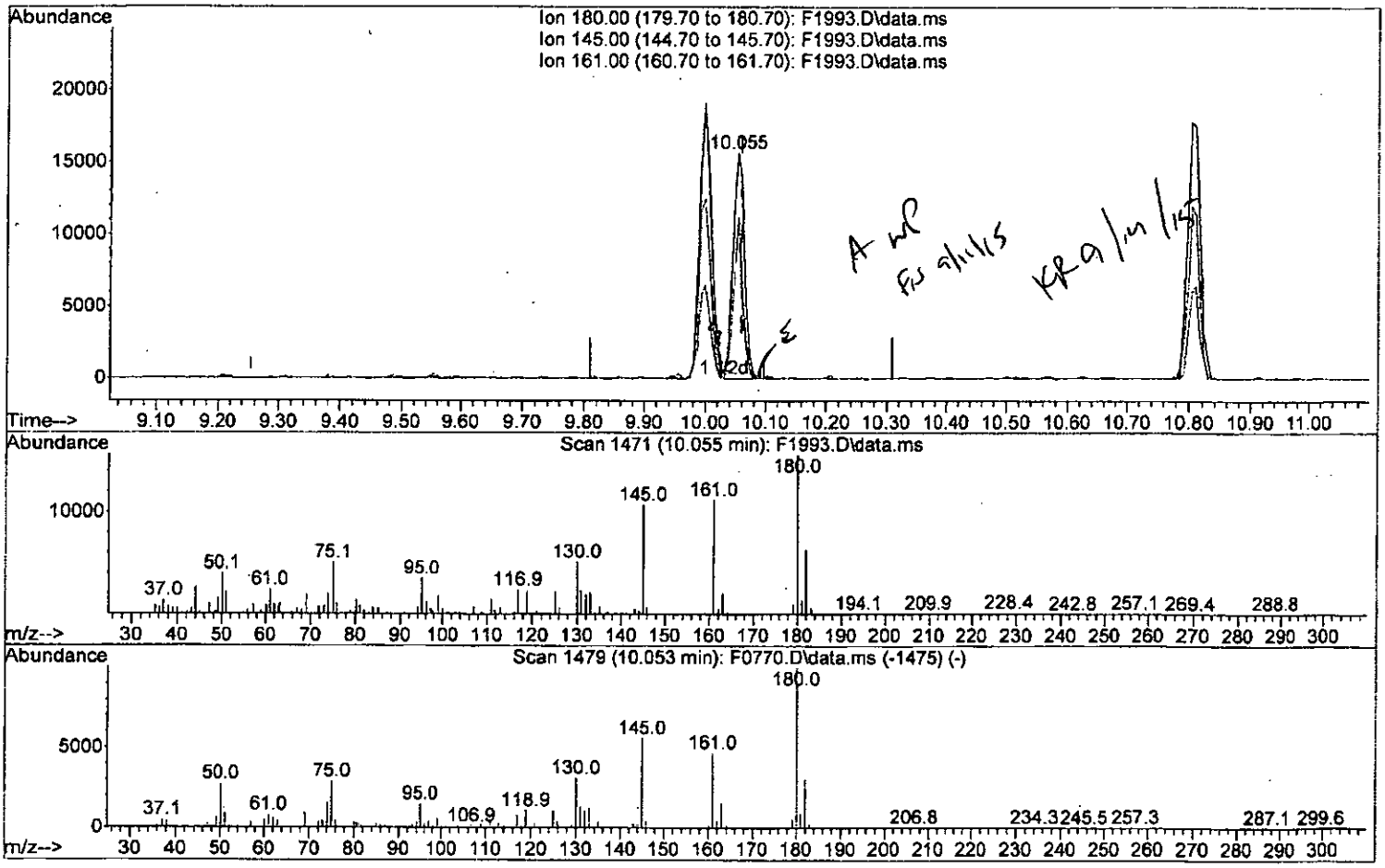
10.000min (-0.060) 2.44 ug/L

response 25196

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	65.26
161.00	46.60	33.93
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 10 18:44:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1993.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.055min (-0.005) 2.00 ug/L m

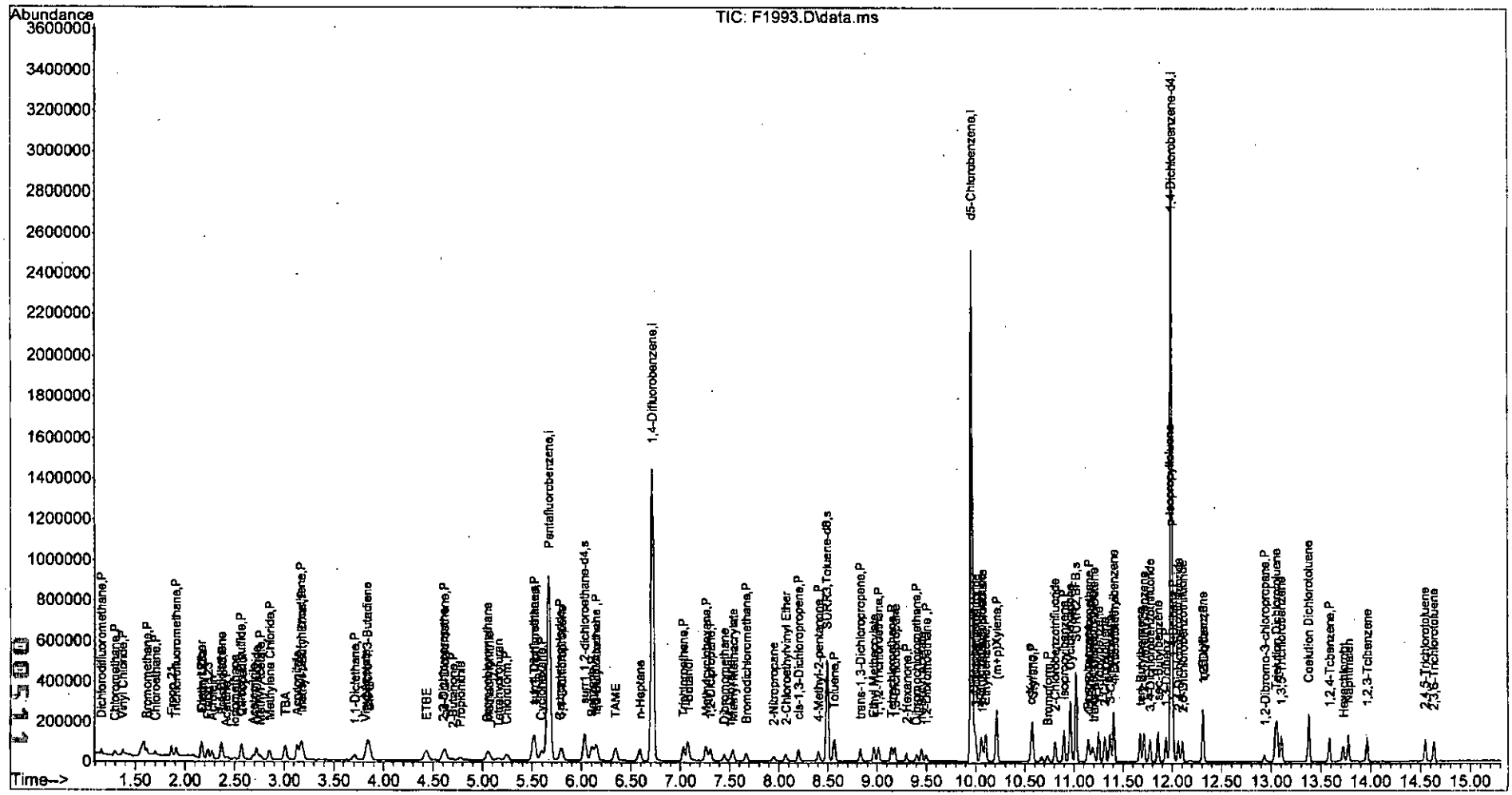
response 20640

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	68.52
161.00	46.60	71.61#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1993.D
Acq On : 10 Sep 2015 6:29 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 09:59:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FN 9/11/15
KH 9/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	766712	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1116140	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	965097	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	506071	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	71508	9.83	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	19.66%#		
46) surr1,1,2-dichloroetha...	6.031	65	111005	11.23	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	22.46%#		
64) SURR3,Toluene-d8	8.488	98	281811	10.86	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	21.72%#		
69) SURR2,BFB	11.018	95	103728	9.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	18.94%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	32152	4.91	ug/L	98
3) Chloromethane	1.294	50	41898	4.86	ug/L	94
4) Vinyl Chloride	1.379	62	39855	5.26	ug/L	88
5) Bromomethane	1.617	94	24394	5.70	ug/L	95
6) Chloroethane	1.703	64	23985	5.61	ug/L	93
7) Freon 21	1.867	67	69145	5.53	ug/L	99
8) Trichlorofluoromethane	1.910	101	50941	5.39	ug/L	96
9) Diethyl Ether	2.166	59	35422	4.72	ug/L	86
10) Freon 123a	2.172	67	45682	5.59	ug/L	89
11) Freon 123	2.233	83	44193	4.89	ug/L	92
12) Acrolein	2.276	56	60095	24.20	ug/L	94
13) 1,1-Diclethene	2.367	96	31222	5.03	ug/L	93
14) Freon 113	2.373	101	33403	4.97	ug/L	97
15) Acetone	2.416	43	37207	5.84	ug/L	89
16) 2-Propanol	2.580	45	137539	95.38	ug/L	89
17) Iodomethane	2.501	142	22565	3.28	ug/L	99
18) Carbon Disulfide	2.562	76	93809	5.18	ug/L	98
19) Acetonitrile	2.696	40	29466m	25.14	ug/L	
20) Allyl Chloride	2.727	76	18301	5.01	ug/L #	70
21) Methyl Acetate	2.757	43	60010	5.08	ug/L	96
22) Methylene Chloride	2.849	84	36851	4.85	ug/L #	85
23) TBA	3.013	59	196099	98.32	ug/L	98
24) Acrylonitrile	3.129	53	133015	24.86	ug/L	96
25) Methyl-t-Butyl Ether	3.184	73	134024	5.14	ug/L	93
26) trans-1,2-Dichloroethene	3.172	96	33711	5.08	ug/L	93
27) 1,1-Diclethane	3.708	63	72178	5.36	ug/L	92
28) Vinyl Acetate	3.812	86	6163	4.41	ug/L #	1
29) DIPE	3.861	45	172644	5.33	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.842	53	79376	5.44	ug/L	98
31) ETBE	4.434	59	144596	5.22	ug/L	94
32) 2,2-Dichloropropane	4.604	77	54925	5.26	ug/L	87
33) cis-1,2-Dichloroethene	4.617	96	37274	4.87	ug/L #	66
34) 2-Butanone	4.684	43	41033	4.75	ug/L	94
35) Propionitrile	4.775	54	53996	24.79	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.056	130	23968	4.86 ug/L		95
37) Methacrylonitrile	5.062	67	22594	4.67 ug/L		90
38) Tetrahydrofuran	5.159	42	29752	5.62 ug/L		87
39) Chloroform	5.245	83	68939	5.30 ug/L		95
40) 1,1,1-Trichloroethane	5.525	97	56553	5.10 ug/L		91
42) Cyclohexane	5.598	41	51651	5.43 ug/L		92
44) Carbontetrachloride	5.781	121	15279	5.57 ug/L		98
45) 1,1-Dichloropropene	5.799	75	48809	5.10 ug/L		86
47) Benzene	6.110	78	145735	5.22 ug/L		87
48) 1,2-Dichloroethane	6.147	62	65386	5.09 ug/L		94
49) Iso-Butyl Alcohol	6.147	43	92214	91.38 ug/L		83
50) TAME	6.342	73	119285	5.07 ug/L		95
51) n-Heptane	6.586	43	64131	5.07 ug/L		97
52) 1-Butanol	7.073	56	124869	229.91 ug/L		98
53) Trichloroethene	7.037	130	45328	5.25 ug/L		89
54) Methylcyclohexane	7.262	55	59676	5.46 ug/L		96
55) 1,2-Diclpropane	7.305	63	45971	5.45 ug/L		84
56) Dibromomethane	7.445	93	24032	4.45 ug/L		91
57) 1,4-Dioxane	7.506	88	18551	95.24 ug/L		86
58) Methyl Methacrylate	7.537	69	34151	4.73 ug/L		97
59) Bromodichloromethane	7.671	83	48722	4.70 ug/L		96
60) 2-Nitropropane	7.945	41	28555	8.13 ug/L	#	80
61) 2-Chloroethylvinyl Ether	8.067	63	31677	4.98 ug/L		97
62) cis-1,3-Dichloropropene	8.201	75	57219	4.84 ug/L		96
63) 4-Methyl-2-pentanone	8.402	43	75546	4.95 ug/L		91
65) Toluene	8.567	91	152764	5.13 ug/L		98
66) trans-1,3-Dichloropropene	8.829	75	50688	4.46 ug/L		95
67) Ethyl Methacrylate	8.963	69	57165	4.60 ug/L		96
68) 1,1,2-Trichloroethane	9.018	97	35043	4.74 ug/L		88
71) Tetrachloroethene	9.146	164	30919	5.24 ug/L		90
72) 2-Hexanone	9.299	43	58330	5.04 ug/L		88
73) 1,3-Dichloropropane	9.177	76	61387	4.88 ug/L		88
74) Dibromochloromethane	9.402	129	35349	4.64 ug/L		88
75) N-Butyl Acetate	9.451	43	101304	5.09 ug/L		91
76) 1,2-Dibromoethane	9.494	107	39231	4.96 ug/L		97
77) 3-Chlorobenzotrifluoride	10.000	180	60297	5.25 ug/L		98
78) Chlorobenzene	9.981	112	103314	5.33 ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	51818	5.10 ug/L		88
80) 1,1,1,2-Tetrachloroethane	10.073	131	33745	4.78 ug/L		93
81) Ethylbenzene	10.103	106	54371	5.36 ug/L		95
82) (m+p)Xylene	10.213	106	127939	10.48 ug/L		93
83) o-Xylene	10.567	106	65467	5.35 ug/L		93
84) Styrene	10.579	104	105435	5.03 ug/L		91
85) Bromoform	10.731	173	22615	3.98 ug/L		97
86) 2-Chlorobenzotrifluoride	10.811	180	59013	5.30 ug/L		86
87) Isopropylbenzene	10.896	105	164931	5.40 ug/L		93
88) Cyclohexanone	10.957	55	252002	112.30 ug/L		89
89) trans-1,4-Dichloro-2-B...	11.201	53	16163	4.33 ug/L		86
91) 1,1,2,2-Tetrachloroethane	11.158	83	39633	4.64 ug/L		95
92) Bromobenzene	11.140	156	45763	5.36 ug/L		89
93) 1,2,3-Trichloropropane	11.182	110	17294	5.13 ug/L		93

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

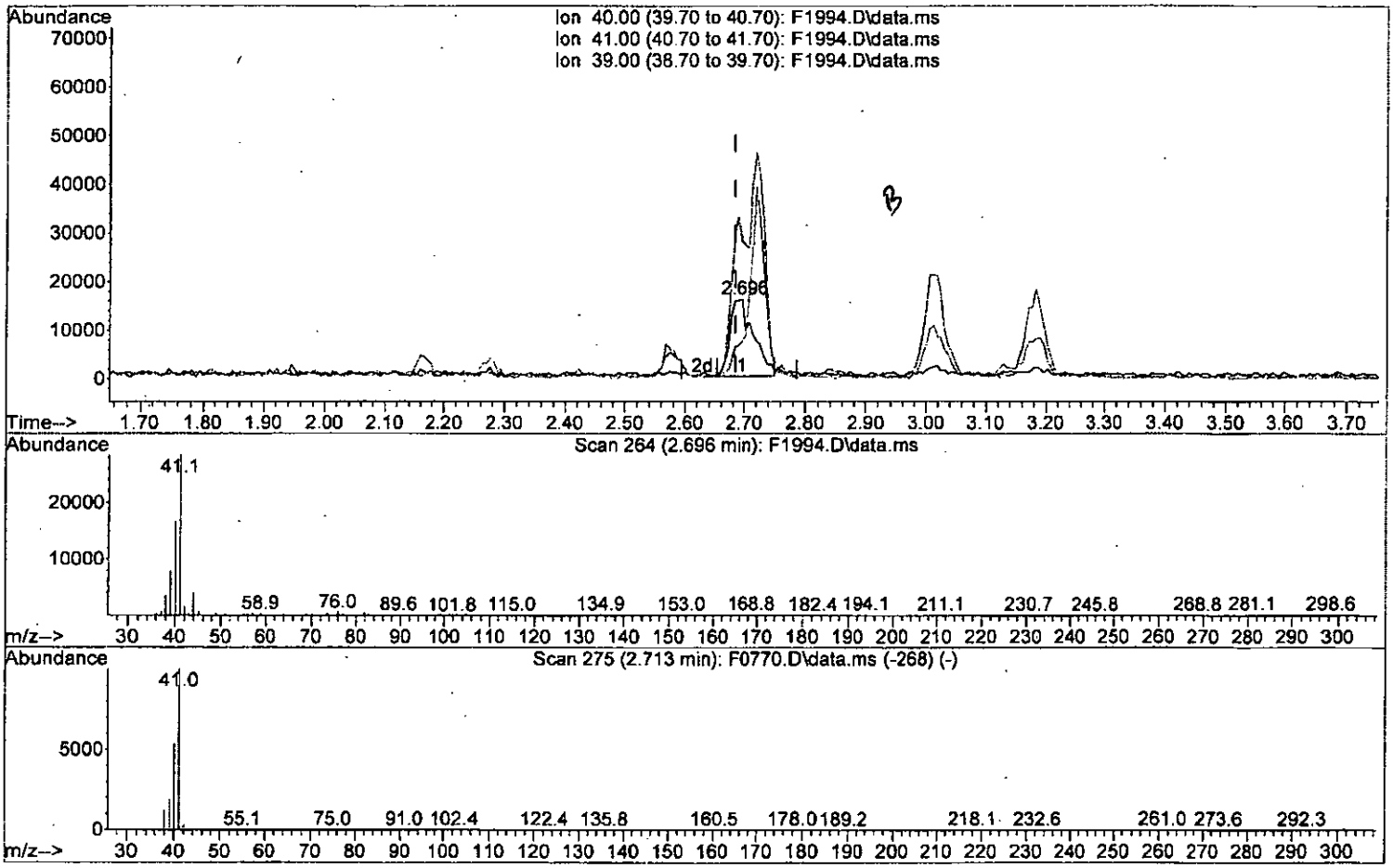
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	197875	5.79	ug/L	96
95)	2-Chlorotoluene	11.310	91	115416	5.26	ug/L	97
96)	3-Chlorotoluene	11.365	91	122820	5.43	ug/L	96
97)	4-Chlorotoluene	11.402	91	139521	5.45	ug/L	98
98)	1,3,5-Trimethylbenzene	11.402	105	141342	5.99	ug/L	97
99)	tert-Butylbenzene	11.670	119	114637	5.37	ug/L	95
100)	1,2,4-Trimethylbenzene	11.713	105	137432	5.57	ug/L	90
101)	3,4-Dichlorobenzotrifl...	11.774	214	45344	5.07	ug/L	94
102)	sec-Butylbenzene	11.853	105	174333	5.76	ug/L	97
103)	p-Isopropyltoluene	11.975	119	144800	5.73	ug/L	96
104)	1,3-Dclbenz	11.932	146	82347	5.26	ug/L	97
105)	1,4-Dclbenz	12.005	146	88325	5.33	ug/L	98
106)	2,4-Dichlorobenzotrifl...	12.060	214	43729	5.41	ug/L	96
107)	2,5-Dichlorobenzotrifl...	12.097	214	47303	5.33	ug/L	95
108)	n-Butylbenzene	12.304	91	142089	5.52	ug/L	95
109)	1,2-Dclbenz	12.310	146	82489	5.22	ug/L	93
110)	1,2-Dibromo-3-chloropr...	12.932	157	11088	4.35	ug/L	99
111)	Trielution Dichlorotol...	13.048	125	228233	16.25	ug/L	96
112)	1,3,5-Trichlorobenzene	13.103	180	66811	5.35	ug/L	94
113)	Coelution Dichlorotoluene	13.371	125	178374	11.58	ug/L	97
114)	1,2,4-Tcbenzene	13.584	180	63855	5.13	ug/L	93
115)	Hexachlorobt	13.725	225	26434	5.19	ug/L	86
116)	Naphthalen	13.773	128	199071	5.58	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	68042	5.43	ug/L	93
118)	2,4,5-Trichlorotoluene	14.548	159	49050	4.93	ug/L	95
119)	2,3,6-Trichlorotoluene	14.627	159	47329	5.41	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 19:08:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1994.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 37.45 ug/L

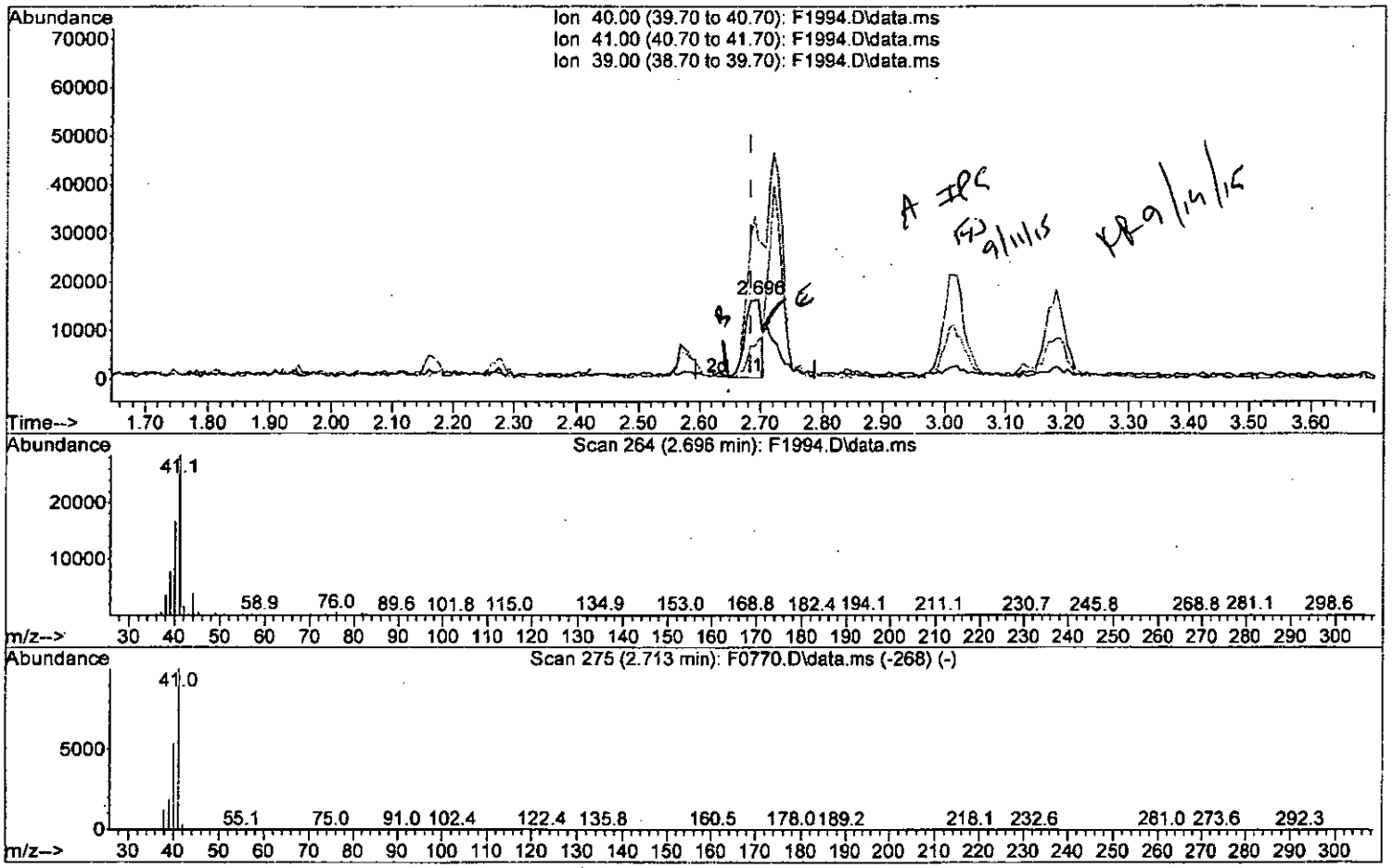
response 43895

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	171.88
39.00	35.30	47.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 10 19:08:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1994.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 25.14 ug/L m

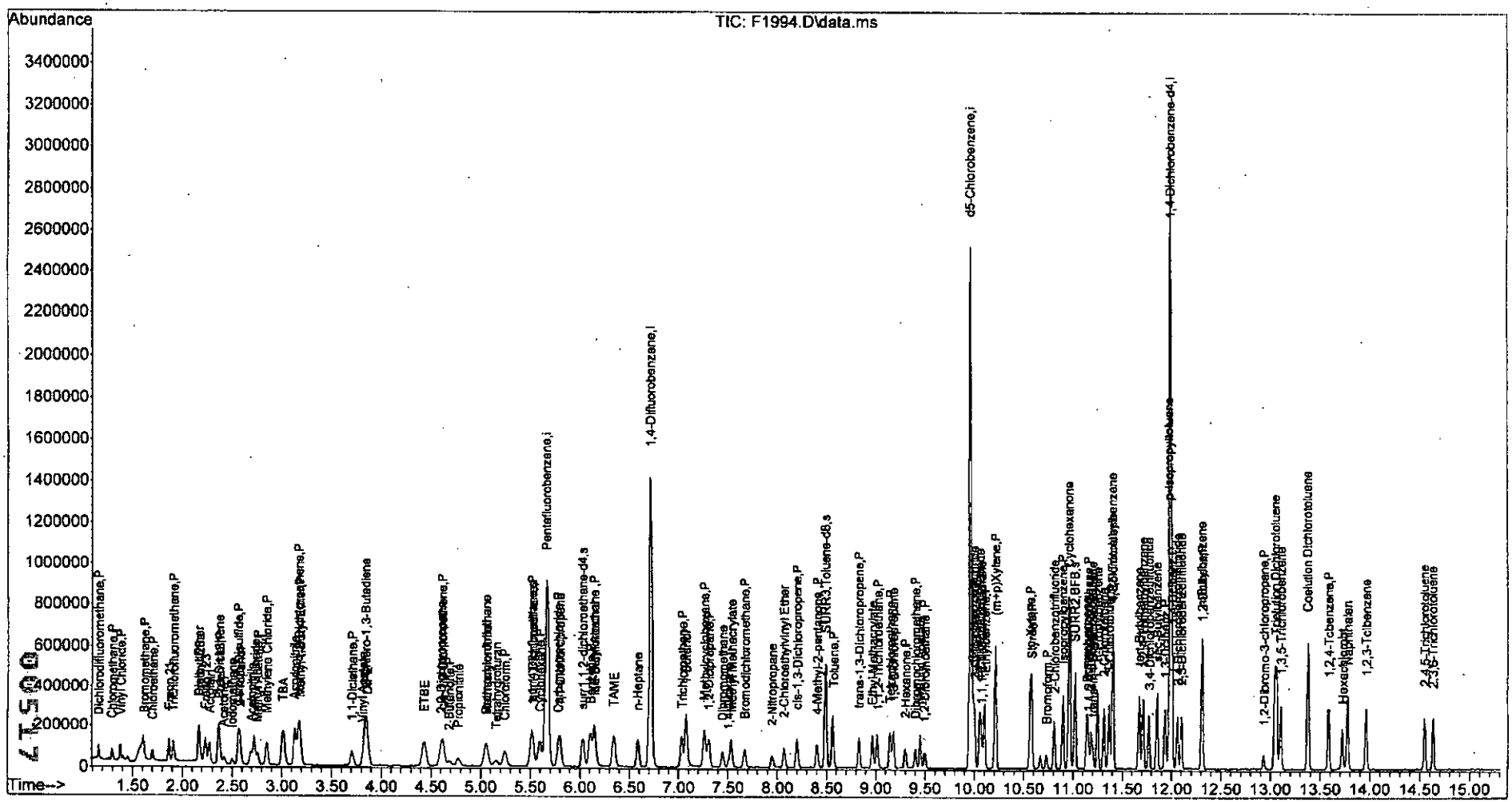
response 29466

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	171.88
39.00	35.30	47.54
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1994.D
Acq On : 10 Sep 2015 6:54 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 09:12:48 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FU 9/11/15
KP 9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	786265	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1119309	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	969415	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	526341	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	141407	19.39	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	38.78%#			
46) surr1,1,2-dichloroetha...	6.031	65	191173	19.28	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	38.56%#			
64) SURR3,Toluene-d8	8.494	98	514485	19.77	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	39.54%#			
69) SURR2,BFB	11.018	95	201208	18.32	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	36.64%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	151442	22.54	ug/L		97
3) Chloromethane	1.294	50	189973	21.48	ug/L		96
4) Vinyl Chloride	1.380	62	168732	21.74	ug/L		98
5) Bromomethane	1.623	94	88973	20.27	ug/L		99
6) Chloroethane	1.703	64	104520	23.86	ug/L		97
7) Freon 21	1.867	67	284218	22.18	ug/L		100
8) Trichlorofluoromethane	1.916	101	223784	23.10	ug/L		95
9) Diethyl Ether	2.166	59	153804	19.97	ug/L		93
10) Freon 123a	2.172	67	174335	20.79	ug/L		95
11) Freon 123	2.233	83	178222	19.23	ug/L		98
12) Acrolein	2.270	56	250571	98.40	ug/L		93
13) 1,1-Diclethene	2.367	96	126954	19.94	ug/L		90
14) Freon 113	2.373	101	144289	20.93	ug/L		100
15) Acetone	2.416	43	137914	21.11	ug/L		93
16) 2-Propanol	2.568	45	538801	364.35	ug/L		87
17) Iodomethane	2.501	142	175770	24.94	ug/L		93
18) Carbon Disulfide	2.568	76	375174	20.19	ug/L		100
19) Acetonitrile	2.684	40	138864	115.53	ug/L		91
20) Allyl Chloride	2.721	76	77371	20.67	ug/L	#	20
21) Methyl Acetate	2.757	43	246530	20.34	ug/L		99
22) Methylene Chloride	2.849	84	153960	19.77	ug/L		88
23) TBA	3.007	59	786965	384.74	ug/L		100
24) Acrylonitrile	3.129	53	565161	102.99	ug/L		96
25) Methyl-t-Butyl Ether	3.184	73	568911	21.28	ug/L		93
26) trans-1,2-Dichloroethene	3.166	96	145050	21.30	ug/L		90
27) 1,1-Diclethane	3.708	63	296930	21.52	ug/L		98
28) Vinyl Acetate	3.818	86	33408	23.31	ug/L	#	52
29) DIPE	3.855	45	712813	21.46	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.842	53	338046	22.57	ug/L		99
31) ETBE	4.434	59	596843	21.00	ug/L		97
32) 2,2-Dichloropropane	4.604	77	228199	21.32	ug/L		97
33) cis-1,2-Dichloroethene	4.617	96	165627	21.10	ug/L	#	71
34) 2-Butanone	4.678	43	167473	18.92	ug/L		95
35) Propionitrile	4.769	54	229882	102.92	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	Bromochloromethane	5.056	130	105147	20.77	ug/L	#	87
37)	Methacrylonitrile	5.062	67	97545	19.65	ug/L		93
38)	Tetrahydrofuran	5.147	42	102134	18.81	ug/L		86
39)	Chloroform	5.245	83	286198	21.46	ug/L		97
40)	1,1,1-Trichloroethane	5.519	97	249870	21.96	ug/L		96
42)	Cyclohexane	5.598	41	212279	22.25	ug/L		87
44)	Carbontetrachloride	5.787	121	62682	22.80	ug/L		84
45)	1,1-Dichloropropene	5.805	75	205278	21.40	ug/L		93
47)	Benzene	6.104	78	619444	22.14	ug/L		88
48)	1,2-Dichloroethane	6.147	62	286977	22.28	ug/L		95
49)	Iso-Butyl Alcohol	6.147	43	387853	383.26	ug/L		93
50)	TAME	6.342	73	507232	21.51	ug/L		99
51)	n-Heptane	6.586	43	275602	21.73	ug/L		93
52)	1-Butanol	7.074	56	533571	979.64	ug/L		91
53)	Trichloroethene	7.031	130	178000	20.55	ug/L		95
54)	Methylcyclohexane	7.263	55	242984	22.18	ug/L		88
55)	1,2-Diclpropane	7.305	63	179560	21.24	ug/L		96
56)	Dibromomethane	7.445	93	111817	20.64	ug/L		97
57)	1,4-Dioxane	7.506	88	72362	370.47	ug/L		91
58)	Methyl Methacrylate	7.531	69	148457	20.49	ug/L		89
59)	Bromodichloromethane	7.671	83	212086	20.39	ug/L		98
60)	2-Nitropropane	7.945	41	134779	38.24	ug/L		83
61)	2-Chloroethylvinyl Ether	8.067	63	131413	20.62	ug/L		99
62)	cis-1,3-Dichloropropene	8.201	75	256220	21.62	ug/L		98
63)	4-Methyl-2-pentanone	8.403	43	317401	20.72	ug/L		96
65)	Toluene	8.561	91	660292	22.12	ug/L		96
66)	trans-1,3-Dichloropropene	8.829	75	241074	21.14	ug/L		95
67)	Ethyl Methacrylate	8.963	69	255279	20.47	ug/L		95
68)	1,1,2-Trichloroethane	9.012	97	153718	20.75	ug/L		90
71)	Tetrachloroethene	9.146	164	125148	21.13	ug/L	#	87
72)	2-Hexanone	9.299	43	243708	20.97	ug/L		97
73)	1,3-Dichloropropane	9.177	76	276553	21.88	ug/L		97
74)	Dibromochloromethane	9.402	129	159909	20.89	ug/L		95
75)	N-Butyl Acetate	9.451	43	425136	21.25	ug/L		95
76)	1,2-Dibromoethane	9.500	107	167115	21.04	ug/L		97
77)	3-Chlorobenzotrifluoride	10.000	180	228245	19.77	ug/L		100
78)	Chlorobenzene	9.982	112	420452	21.58	ug/L		98
79)	4-Chlorobenzotrifluoride	10.055	180	197373	19.36	ug/L		94
80)	1,1,1,2-Tetrachloroethane	10.067	131	150341	21.18	ug/L		97
81)	Ethylbenzene	10.103	106	221822	21.79	ug/L		98
82)	(m+p)Xylene	10.213	106	535677	43.69	ug/L		92
83)	o-Xylene	10.567	106	264906	21.56	ug/L		97
84)	Styrene	10.579	104	456413	21.69	ug/L		99
85)	Bromoform	10.731	173	112117	19.67	ug/L		97
86)	2-Chlorobenzotrifluoride	10.805	180	226832	20.29	ug/L		98
87)	Isopropylbenzene	10.896	105	697943	22.77	ug/L		99
88)	Cyclohexanone	10.957	55	999455	443.41	ug/L		90
89)	trans-1,4-Dichloro-2-B...	11.201	53	72692	19.37	ug/L		97
91)	1,1,2,2-Tetrachloroethane	11.152	83	200329	22.57	ug/L		97
92)	Bromobenzene	11.140	156	185070	20.84	ug/L		90
93)	1,2,3-Trichloropropane	11.182	110	72731	20.75	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

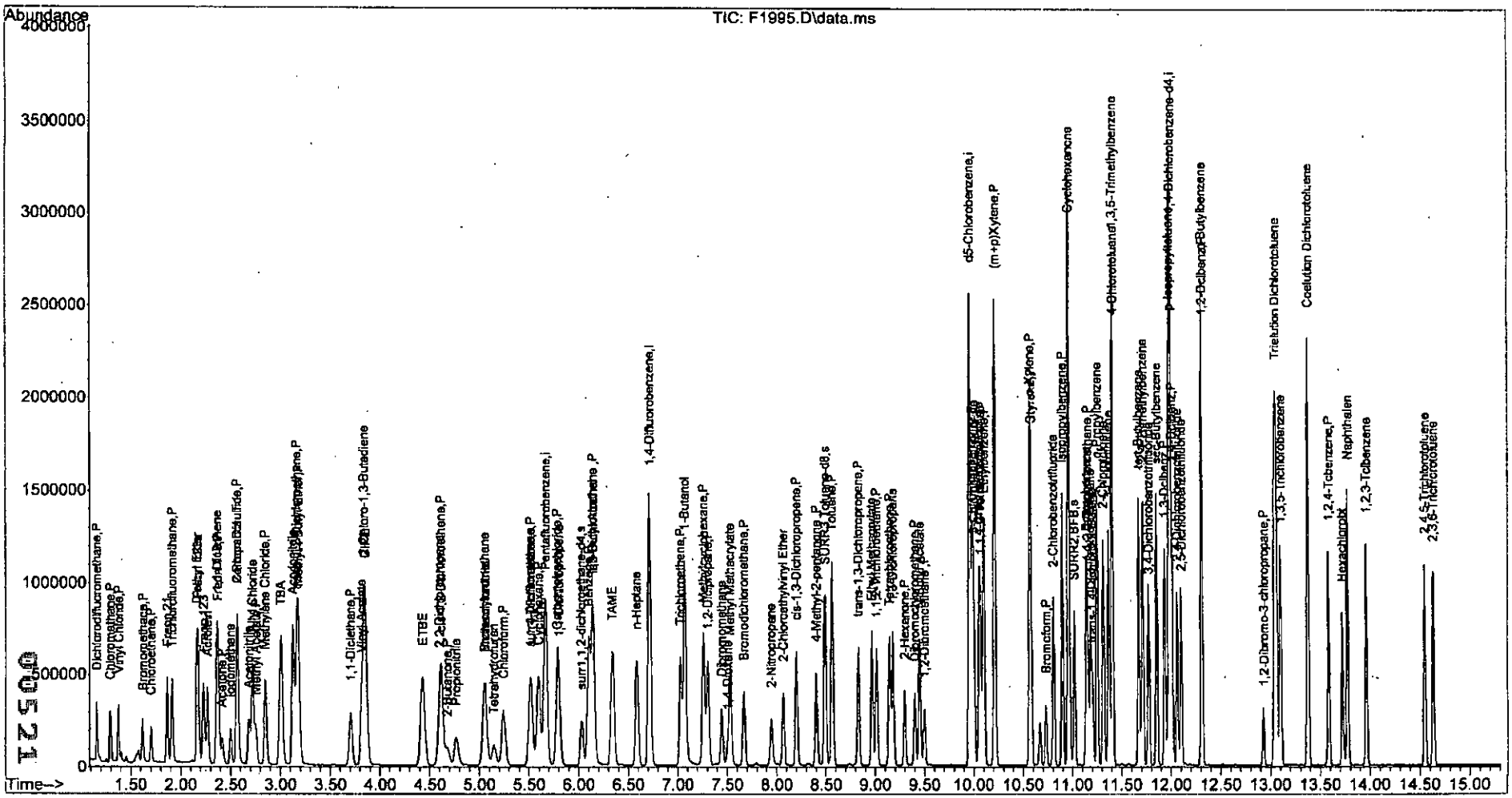
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	842880	23.71 ug/L	98
95)	2-Chlorotoluene	11.311	91	500430	21.95 ug/L	96
96)	3-Chlorotoluene	11.365	91	499779	21.25 ug/L	97
97)	4-Chlorotoluene	11.408	91	603008	22.64 ug/L	99
98)	1,3,5-Trimethylbenzene	11.402	105	581849	23.73 ug/L	97
99)	tert-Butylbenzene	11.670	119	487405	21.95 ug/L	98
100)	1,2,4-Trimethylbenzene	11.713	105	586360	22.84 ug/L	97
101)	3,4-Dichlorobenzotrifl...	11.774	214	173697	18.68 ug/L	99
102)	sec-Butylbenzene	11.853	105	732325	23.27 ug/L	98
103)	p-Isopropyltoluene	11.975	119	604973	23.03 ug/L	98
104)	1,3-Dclbenz	11.932	146	347391	21.34 ug/L	96
105)	1,4-Dclbenz	12.006	146	352481	20.44 ug/L	94
106)	2,4-Dichlorobenzotrifl...	12.060	214	168935	20.08 ug/L	97
107)	2,5-Dichlorobenzotrifl...	12.103	214	185969	20.14 ug/L	99
108)	n-Butylbenzene	12.304	91	595258	22.22 ug/L	100
109)	1,2-Dclbenz	12.310	146	341559	20.78 ug/L	99
110)	1,2-Dibromo-3-chloropr...	12.932	157	52002	19.63 ug/L	91
111)	Trielution Dichlorotol...	13.048	125	934852	64.01 ug/L	96
112)	1,3,5-Trichlorobenzene	13.103	180	266859	20.56 ug/L	93
113)	Coelution Dichlorotoluene	13.377	125	712896	44.48 ug/L	99
114)	1,2,4-Tcbenzene	13.584	180	267062	20.63 ug/L	95
115)	Hexachlorobt	13.719	225	110376	20.82 ug/L	96
116)	Naphthalen	13.773	128	848721	22.89 ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	276673	21.24 ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	216331	20.92 ug/L	92
119)	2,3,6-Trichlorotoluene	14.633	159	195924	21.52 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1995.D
Acq On : 10 Sep 2015 7:18 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 10 19:32:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FN 9/11/15

KF 9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	783952	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1119978	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	995526	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	558318	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	370719	50.79	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.58%				
46) surr1,1,2-dichloroetha...	6.031	65	523952	52.81	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 105.62%				
64) SURR3,Toluene-d8	8.494	98	1380567	53.01	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.02%				
69) SURR2,BFB	11.018	95	554363	50.45	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	398542	59.50	ug/L		98
3) Chloromethane	1.294	50	488159	55.37	ug/L		99
4) Vinyl Chloride	1.379	62	433237	55.97	ug/L		96
5) Bromomethane	1.611	94	184251	42.11	ug/L		94
6) Chloroethane	1.696	64	256399	58.70	ug/L		94
7) Freon 21	1.867	67	699876	54.78	ug/L		95
8) Trichlorofluoromethane	1.910	101	559313	57.92	ug/L		97
9) Diethyl Ether	2.166	59	407833	53.10	ug/L		97
10) Freon 123a	2.172	67	472668	56.53	ug/L		93
11) Freon 123	2.233	83	507372	54.91	ug/L		98
12) Acrolein	2.269	56	647301	254.95	ug/L		96
13) 1,1-Diclethene	2.361	96	323598	50.98	ug/L		95
14) Freon 113	2.373	101	364986	53.10	ug/L		94
15) Acetone	2.416	43	324323	49.78	ug/L		97
16) 2-Propanol	2.574	45	1489723	1010.35	ug/L		92
17) Iodomethane	2.501	142	507212	72.17	ug/L		87
18) Carbon Disulfide	2.562	76	959340	51.77	ug/L		99
19) Acetonitrile	2.684	40	345083m	287.94	ug/L		
20) Allyl Chloride	2.727	76	204169	54.70	ug/L	#	47
21) Methyl Acetate	2.757	43	640596	53.00	ug/L		98
22) Methylene Chloride	2.849	84	392936	50.60	ug/L		93
23) TBA	3.013	59	2043967	1002.22	ug/L		94
24) Acrylonitrile	3.129	53	1447765	264.60	ug/L		98
25) Methyl-t-Butyl Ether	3.184	73	1420034	53.27	ug/L		97
26) trans-1,2-Dichloroethene	3.166	96	358257	52.76	ug/L		96
27) 1,1-Diclethane	3.708	63	766323	55.71	ug/L		97
28) Vinyl Acetate	3.818	86	82497	57.72	ug/L	#	84
29) DIPE	3.855	45	1748826	52.80	ug/L		94
30) 2-Chloro-1,3-Butadiene	3.842	53	858606	57.50	ug/L		89
31) ETBE	4.434	59	1487217	52.48	ug/L		95
32) 2,2-Dichloropropane	4.610	77	585758	54.88	ug/L		98
33) cis-1,2-Dichloroethene	4.617	96	411737	52.60	ug/L	#	79
34) 2-Butanone	4.678	43	422093	47.82	ug/L		96
35) Propionitrile	4.769	54	591461	265.59	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.056	130	264522	52.41 ug/L		93
37) Methacrylonitrile	5.056	67	239887	48.46 ug/L		97
38) Tetrahydrofuran	5.147	42	264296	48.81 ug/L		85
39) Chloroform	5.245	83	724398	54.47 ug/L		95
40) 1,1,1-Trichloroethane	5.519	97	635250	55.99 ug/L		94
42) Cyclohexane	5.598	41	534382	55.98 ug/L		88
44) Carbontetrachloride	5.787	121	164602	59.83 ug/L		79
45) 1,1-Dichloropropene	5.799	75	521995	54.37 ug/L		98
47) Benzene	6.104	78	1573816	56.22 ug/L		85
48) 1,2-Dichloroethane	6.147	62	713564	55.36 ug/L		99
49) Iso-Butyl Alcohol	6.147	43	1051115	1038.05 ug/L		91
50) TAME	6.342	73	1255850	53.23 ug/L		100
51) n-Heptane	6.586	43	702460	55.35 ug/L		95
52) 1-Butanol	7.080	56	1464303	2686.85 ug/L		92
53) Trichloroethene	7.031	130	440106	50.77 ug/L		97
54) Methylcyclohexane	7.262	55	602994	55.00 ug/L		88
55) 1,2-Diclpropane	7.305	63	454363	53.72 ug/L		98
56) Dibromomethane	7.445	93	280232	51.70 ug/L		94
57) 1,4-Dioxane	7.506	88	184352	943.26 ug/L		92
58) Methyl Methacrylate	7.531	69	378594	52.21 ug/L		95
59) Bromodichloromethane	7.671	83	550425	52.89 ug/L		97
60) 2-Nitropropane	7.945	41	383769	108.83 ug/L		91
61) 2-Chloroethylvinyl Ether	8.067	63	343435	53.84 ug/L		91
62) cis-1,3-Dichloropropene	8.201	75	654832	55.23 ug/L		99
63) 4-Methyl-2-pentanone	8.402	43	795125	51.87 ug/L		97
65) Toluene	8.561	91	1652772	55.34 ug/L		97
66) trans-1,3-Dichloropropene	8.829	75	616155	53.99 ug/L		99
67) Ethyl Methacrylate	8.969	69	673194	53.94 ug/L		97
68) 1,1,2-Trichloroethane	9.012	97	392040	52.90 ug/L	#	88
71) Tetrachloroethene	9.146	164	323140	53.13 ug/L		89
72) 2-Hexanone	9.299	43	621778	52.11 ug/L		94
73) 1,3-Dichloropropane	9.177	76	678620	52.28 ug/L		99
74) Dibromochloromethane	9.402	129	427065	54.34 ug/L		99
75) N-Butyl Acetate	9.451	43	1179936	57.42 ug/L		95
76) 1,2-Dibromoethane	9.500	107	425557	52.17 ug/L		98
77) 3-Chlorobenzotrifluoride	10.000	180	565855	47.73 ug/L		98
78) Chlorobenzene	9.981	112	1077322	53.84 ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	503475	48.08 ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.073	131	399900	54.87 ug/L		99
81) Ethylbenzene	10.103	106	573583	54.86 ug/L		97
82) (m+p)Xylene	10.213	106	1386918	110.16 ug/L		93
83) o-Xylene	10.567	106	678997	53.81 ug/L		94
84) Styrene	10.579	104	1173510	54.30 ug/L		98
85) Bromoform	10.731	173	321914	54.99 ug/L		95
86) 2-Chlorobenzotrifluoride	10.810	180	547414	47.68 ug/L		99
87) Isopropylbenzene	10.896	105	1772693	56.31 ug/L		97
88) Cyclohexanone	10.957	55	2550354	1101.80 ug/L		88
89) trans-1,4-Dichloro-2-B...	11.201	53	209416	54.34 ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.152	83	558701	59.33 ug/L		95
92) Bromobenzene	11.140	156	476411	50.57 ug/L		91
93) 1,2,3-Trichloropropane	11.182	110	185268	49.82 ug/L	#	87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

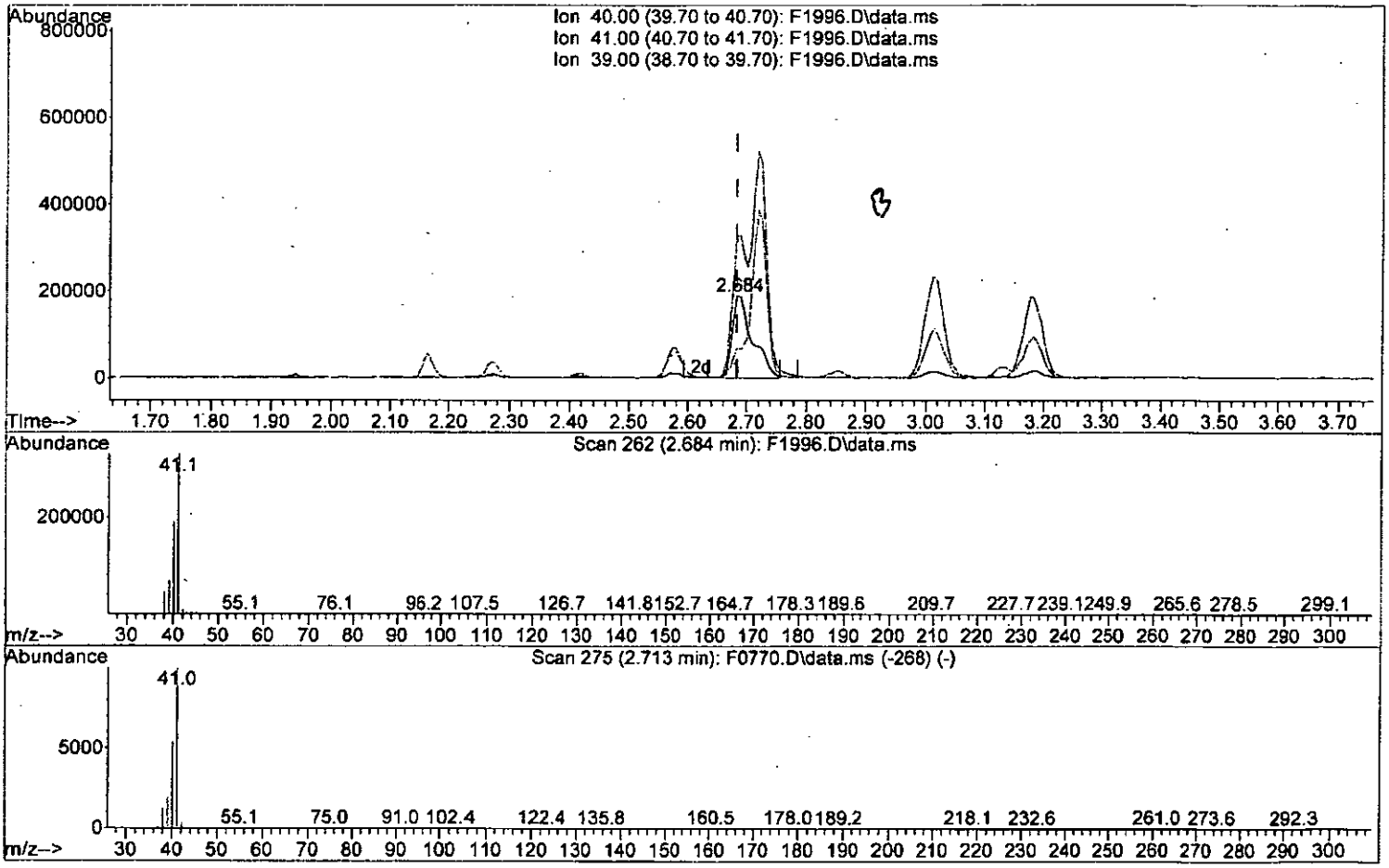
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	2160769	57.30	ug/L	96
95)	2-Chlorotoluene	11.310	91	1303371	53.89	ug/L	98
96)	3-Chlorotoluene	11.365	91	1240874	49.73	ug/L	99
97)	4-Chlorotoluene	11.408	91	1550083	54.86	ug/L	97
98)	1,3,5-Trimethylbenzene	11.402	105	1516028	58.28	ug/L	98
99)	tert-Butylbenzene	11.670	119	1288131	54.68	ug/L	98
100)	1,2,4-Trimethylbenzene	11.713	105	1534888	56.37	ug/L	96
101)	3,4-Dichlorobenzotrifl...	11.774	214	446871	45.30	ug/L	99
102)	sec-Butylbenzene	11.853	105	1910238	57.22	ug/L	96
103)	p-Isopropyltoluene	11.975	119	1583655	56.84	ug/L	95
104)	1,3-Dclbenz	11.932	146	892171	51.67	ug/L	97
105)	1,4-Dclbenz	12.005	146	921271	50.36	ug/L	98
106)	2,4-Dichlorobenzotrifl...	12.060	214	405137	45.40	ug/L	98
107)	2,5-Dichlorobenzotrifl...	12.103	214	468105	47.79	ug/L	97
108)	n-Butylbenzene	12.304	91	1589793	55.95	ug/L	98
109)	1,2-Dclbenz	12.310	146	905529	51.95	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.932	157	154510	55.00	ug/L	98
111)	Trielution Dichlorotol...	13.048	125	2349468	151.65	ug/L	96
112)	1,3,5-Trichlorobenzene	13.103	180	678158	49.26	ug/L	99
113)	Coelution Dichlorotoluene	13.377	125	1787438	105.14	ug/L	96
114)	1,2,4-Tcbenzene	13.584	180	714996	52.06	ug/L	97
115)	Hexachlorobt	13.718	225	314793	55.97	ug/L	99
116)	Naphthalen	13.773	128	2140524	54.42	ug/L	97
117)	1,2,3-Tclbenzene	13.962	180	729669	52.82	ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	527867	48.12	ug/L	94
119)	2,3,6-Trichlorotoluene	14.633	159	473717	49.06	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 19:57:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1996.D\data.ms

(19) Acetonitrile

2.684min (-0.000) 382.90 ug/L

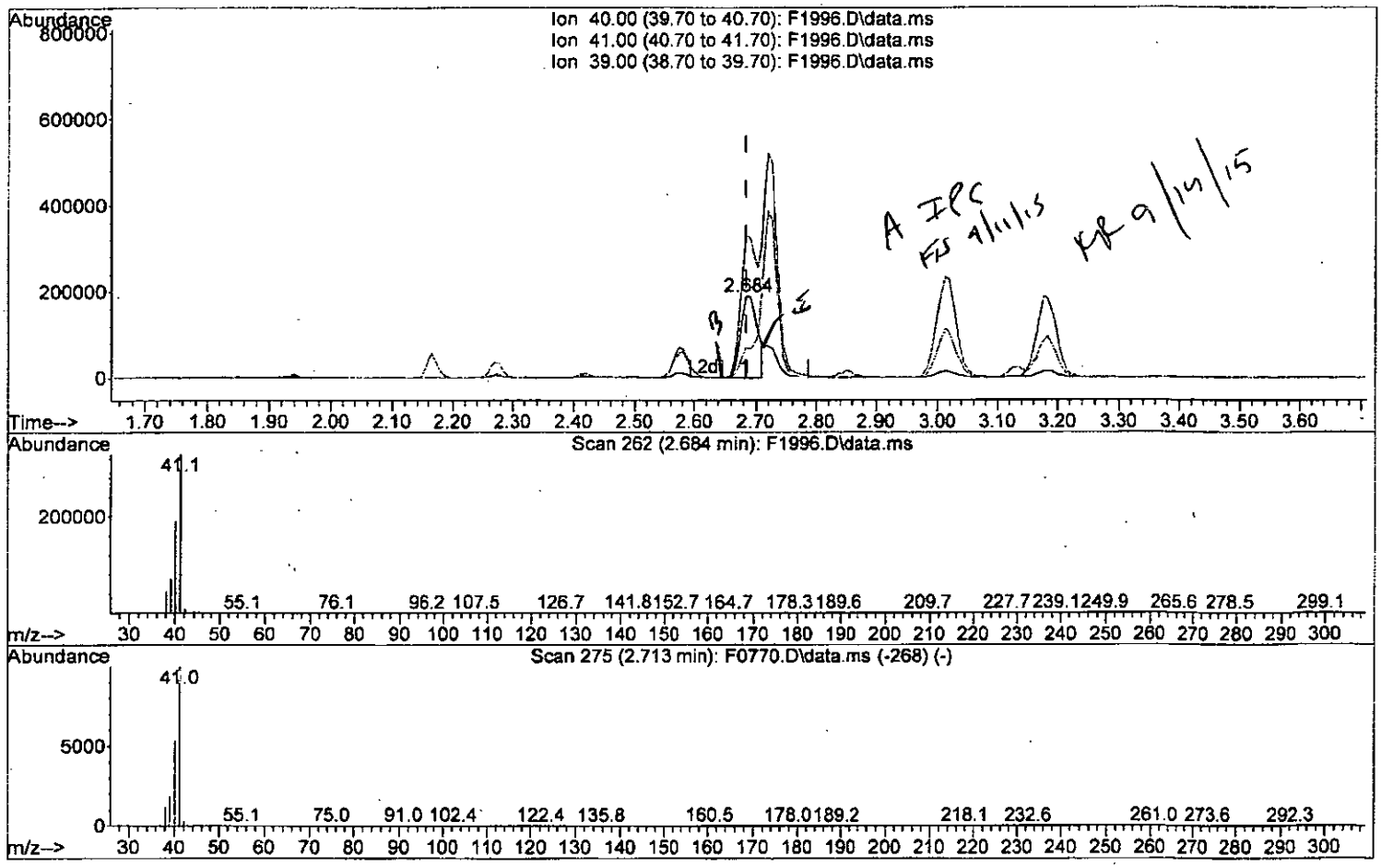
response 458880

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	173.98
39.00	35.30	36.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 10 19:57:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1996.D\data.ms

(19) Acetonitrile

2.684min (-0.000) 287.94 ug/L m

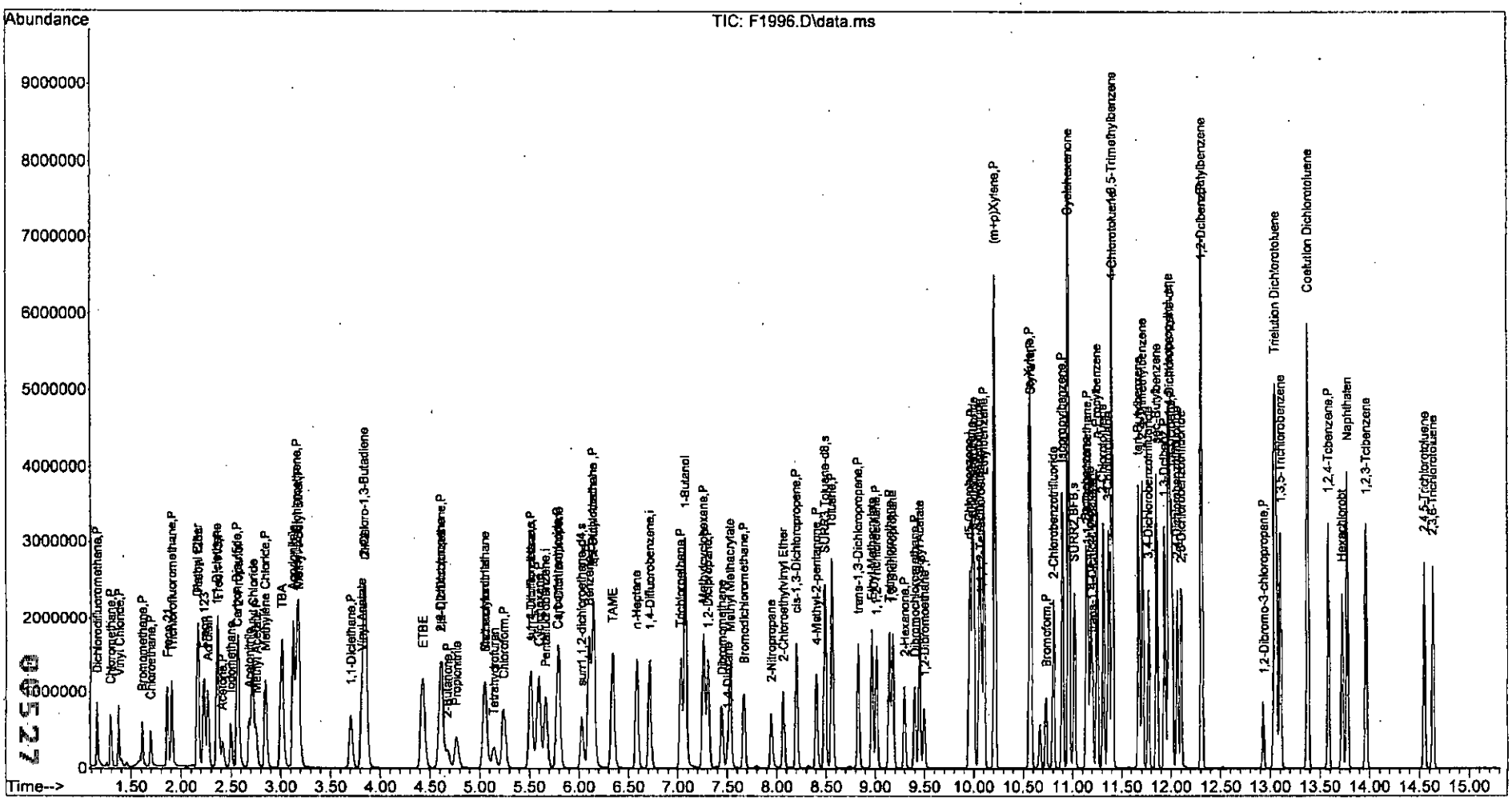
response 345083

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	173.98
39.00	35.30	36.40
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1996.D
Acq On : 10 Sep 2015 7:42 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 09:19:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FD 9/11/15 KF 9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	819279	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1159307	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	1026873	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	608298	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	751121	99.43	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 198.86%#				
46) surr1,1,2-dichloroetha...	6.031	65	1063065	103.52	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 207.04%#				
64) SURR3,Toluene-d8	8.494	98	2707005	100.41	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 200.82%#				
69) SURR2,BFB	11.018	95	1172559	103.08	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 206.16%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	754181m	107.74	ug/L		
3) Chloromethane	1.294	50	953834	103.52	ug/L		98
4) Vinyl Chloride	1.380	62	833818	103.08	ug/L		97
5) Bromomethane	1.611	94	286352	62.62	ug/L		100
6) Chloroethane	1.690	64	490023	107.34	ug/L		93
7) Freon 21	1.861	67	1383825	103.64	ug/L		94
8) Trichlorofluoromethane	1.910	101	1057214	104.75	ug/L		99
9) Diethyl Ether	2.166	59	819834	102.15	ug/L		97
10) Freon 123a	2.172	67	916498	104.89	ug/L		97
11) Freon 123	2.233	83	1005264	104.10	ug/L		96
12) Acrolein	2.276	56	1272526	479.59	ug/L		93
13) 1,1-Diclethene	2.361	96	638980	96.33	ug/L		98
14) Freon 113	2.367	101	698194	97.19	ug/L		95
15) Acetone	2.422	43	671100	98.57	ug/L		97
16) 2-Propanol	2.593	45	3101511	2012.78	ug/L		89
17) Iodomethane	2.501	142	1033846	140.77	ug/L		91
18) Carbon Disulfide	2.562	76	1974453	101.96	ug/L		99
19) Acetonitrile	2.690	40	729517m	582.47	ug/L		
20) Allyl Chloride	2.721	76	402512	103.19	ug/L	#	29
21) Methyl Acetate	2.757	43	1297815	102.75	ug/L		97
22) Methylene Chloride	2.849	84	784618	96.69	ug/L		93
23) TBA	3.032	59	4263889	2000.56	ug/L		94
24) Acrylonitrile	3.135	53	2832415	495.34	ug/L		94
25) Methyl-t-Butyl Ether	3.184	73	2789846	100.15	ug/L		96
26) trans-1,2-Dichloroethene	3.166	96	714395	100.66	ug/L		92
27) 1,1-Diclethane	3.708	63	1501163	104.42	ug/L		96
28) Vinyl Acetate	3.818	86	157208	105.26	ug/L	#	87
29) DIPE	3.855	45	3448447	99.63	ug/L		90
30) 2-Chloro-1,3-Butadiene	3.842	53	1725824	110.59	ug/L		88
31) ETBE	4.434	59	2921713	98.66	ug/L		95
32) 2,2-Dichloropropane	4.611	77	1128313	101.16	ug/L		95
33) cis-1,2-Dichloroethene	4.623	96	802597	98.11	ug/L	#	83
34) 2-Butanone	4.684	43	890882	96.58	ug/L		95
35) Propionitrile	4.775	54	1206214	518.28	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.050	130	532322	100.92	ug/L		97
37) Methacrylonitrile	5.068	67	494565	95.59	ug/L		91
38) Tetrahydrofuran	5.147	42	544776	96.28	ug/L		87
39) Chloroform	5.245	83	1428225	102.77	ug/L		98
40) 1,1,1-Trichloroethane	5.519	97	1251678	105.57	ug/L		97
42) Cyclohexane	5.598	41	1082091	109.51	ug/L		87
44) Carbontetrachloride	5.787	121	327709	115.07	ug/L		82
45) 1,1-Dichloropropene	5.799	75	1024594	103.11	ug/L		99
47) Benzene	6.104	78	3054975	105.42	ug/L		86
48) 1,2-Dichloroethane	6.147	62	1393223	104.41	ug/L		96
49) Iso-Butyl Alcohol	6.159	43	2256783	2153.12	ug/L		91
50) TAME	6.342	73	2473785	101.30	ug/L		96
51) n-Heptane	6.586	43	1325139	100.87	ug/L		95
52) 1-Butanol	7.086	56	3132749	5553.28	ug/L		91
53) Trichloroethene	7.031	130	860401	95.89	ug/L		96
54) Methylcyclohexane	7.263	55	1188902	104.77	ug/L		90
55) 1,2-Diclpropane	7.305	63	894371	102.15	ug/L		95
56) Dibromomethane	7.445	93	548354	97.74	ug/L		93
57) 1,4-Dioxane	7.506	88	395442	1954.68	ug/L		95
58) Methyl Methacrylate	7.531	69	769058	102.46	ug/L		95
59) Bromodichloromethane	7.671	83	1087080	100.91	ug/L		99
60) 2-Nitropropane	7.945	41	837860	229.55	ug/L		97
61) 2-Chloroethylvinyl Ether	8.067	63	692199	104.84	ug/L		98
62) cis-1,3-Dichloropropene	8.201	75	1305602	106.37	ug/L		99
63) 4-Methyl-2-pentanone	8.403	43	1669554	105.23	ug/L		98
65) Toluene	8.561	91	3188620	103.14	ug/L		95
66) trans-1,3-Dichloropropene	8.829	75	1263111	106.93	ug/L		97
67) Ethyl Methacrylate	8.970	69	1348233	104.36	ug/L		100
68) 1,1,2-Trichloroethane	9.012	97	774588	100.96	ug/L		88
71) Tetrachloroethene	9.146	164	627936	100.08	ug/L		93
72) 2-Hexanone	9.299	43	1323336	107.52	ug/L		96
73) 1,3-Dichloropropane	9.183	76	1351010	100.90	ug/L		96
74) Dibromochloromethane	9.402	129	875690	108.02	ug/L		97
75) N-Butyl Acetate	9.451	43	2401296	113.30	ug/L		97
76) 1,2-Dibromoethane	9.500	107	846798	100.64	ug/L		99
77) 3-Chlorobenzotrifluoride	10.000	180	1181165	96.60	ug/L		98
78) Chlorobenzene	9.981	112	2061708	99.89	ug/L		95
79) 4-Chlorobenzotrifluoride	10.055	180	1050038	97.21	ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.073	131	809603	107.70	ug/L		99
81) Ethylbenzene	10.103	106	1124684	104.28	ug/L	#	83
82) (m+p)Xylene	10.213	106	2657078	204.61	ug/L	#	81
83) o-Xylene	10.567	106	1346082	103.41	ug/L		100
84) Styrene	10.579	104	2325901	104.33	ug/L		95
85) Bromoform	10.731	173	672767	111.41	ug/L		99
86) 2-Chlorobenzotrifluoride	10.811	180	1194615	100.87	ug/L		99
87) Isopropylbenzene	10.896	105	3320493	102.26	ug/L		93
88) Cyclohexanone	10.963	55	4979234	2085.46	ug/L		82
89) trans-1,4-Dichloro-2-B...	11.201	53	475802	119.69	ug/L		99
91) 1,1,2,2-Tetrachloroethane	11.158	83	1195295	116.51	ug/L		98
92) Bromobenzene	11.140	156	951065	92.66	ug/L	#	88
93) 1,2,3-Trichloropropane	11.189	110	383810	94.73	ug/L	#	90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

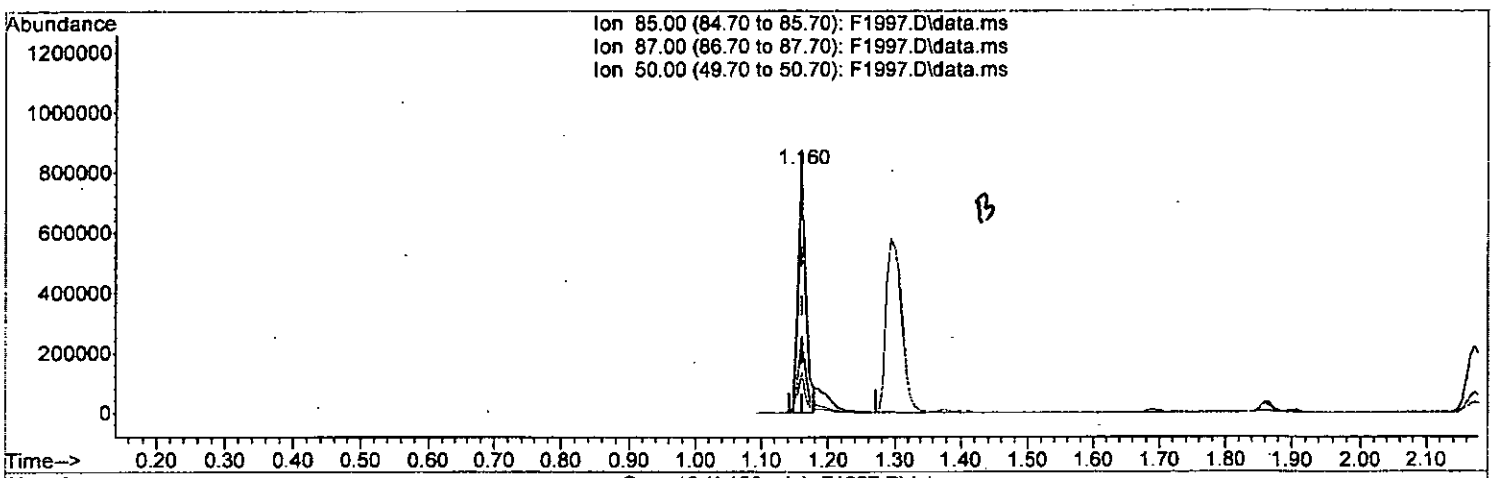
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	3969020	96.60	ug/L	93
95)	2-Chlorotoluene	11.310	91	2542190	96.47	ug/L	97
96)	3-Chlorotoluene	11.365	91	2614762	96.19	ug/L	98
97)	4-Chlorotoluene	11.408	91	2988763	97.08	ug/L	94
98)	1,3,5-Trimethylbenzene	11.402	105	2907285	102.59	ug/L	93
99)	tert-Butylbenzene	11.670	119	2513584	97.93	ug/L	99
100)	1,2,4-Trimethylbenzene	11.713	105	2953143	99.54	ug/L	91
101)	3,4-Dichlorobenzotrifl...	11.774	214	947940	88.19	ug/L	98
102)	sec-Butylbenzene	11.853	105	3589816	98.69	ug/L	92
103)	p-Isopropyltoluene	11.975	119	3073282	101.24	ug/L	90
104)	1,3-Dclbenz	11.938	146	1831808	97.38	ug/L	99
105)	1,4-Dclbenz	12.012	146	1871581	93.90	ug/L	96
106)	2,4-Dichlorobenzotrifl...	12.060	214	914039	94.01	ug/L	100
107)	2,5-Dichlorobenzotrifl...	12.103	214	1026682	96.19	ug/L	97
108)	n-Butylbenzene	12.304	91	3077274	99.40	ug/L	95
109)	1,2-Dclbenz	12.310	146	1851897	97.51	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.926	157	336307	109.87	ug/L	89
111)	Trielution Dichlorotol...	13.048	125	4920249	291.50	ug/L	93
112)	1,3,5-Trichlorobenzene	13.103	180	1478842	98.59	ug/L	98
113)	Coelution Dichlorotoluene	13.377	125	3593549	194.01	ug/L	89
114)	1,2,4-Tcbenzene	13.584	180	1434319	95.86	ug/L	100
115)	Hexachlorobt	13.719	225	630018	102.82	ug/L	95
116)	Naphthalen	13.773	128	4039019	94.25	ug/L	91
117)	1,2,3-Tclbenzene	13.962	180	1454451	96.63	ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	1129342	94.50	ug/L	96
119)	2,3,6-Trichlorotoluene	14.633	159	985816	93.71	ug/L	99

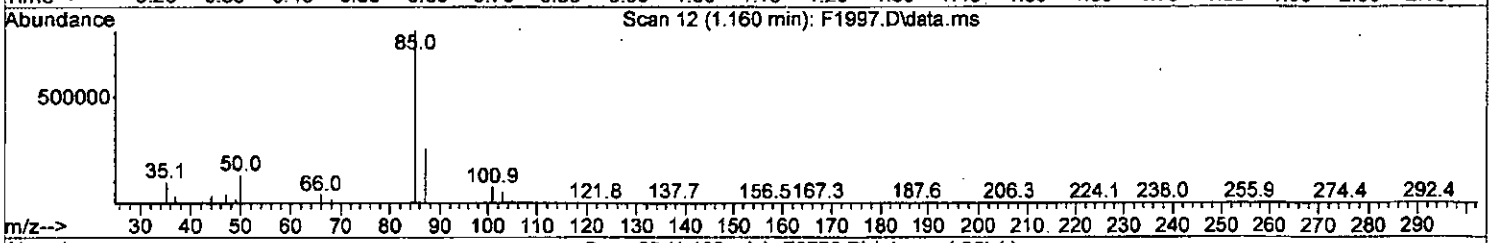
(#) = qualifier out of range (m) = manual integration (+) = signals summed

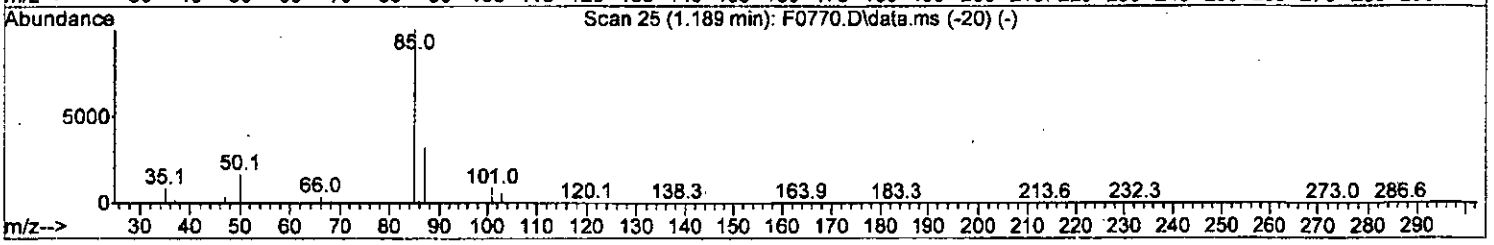
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration







TIC: F1997.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 90.59 ug/L

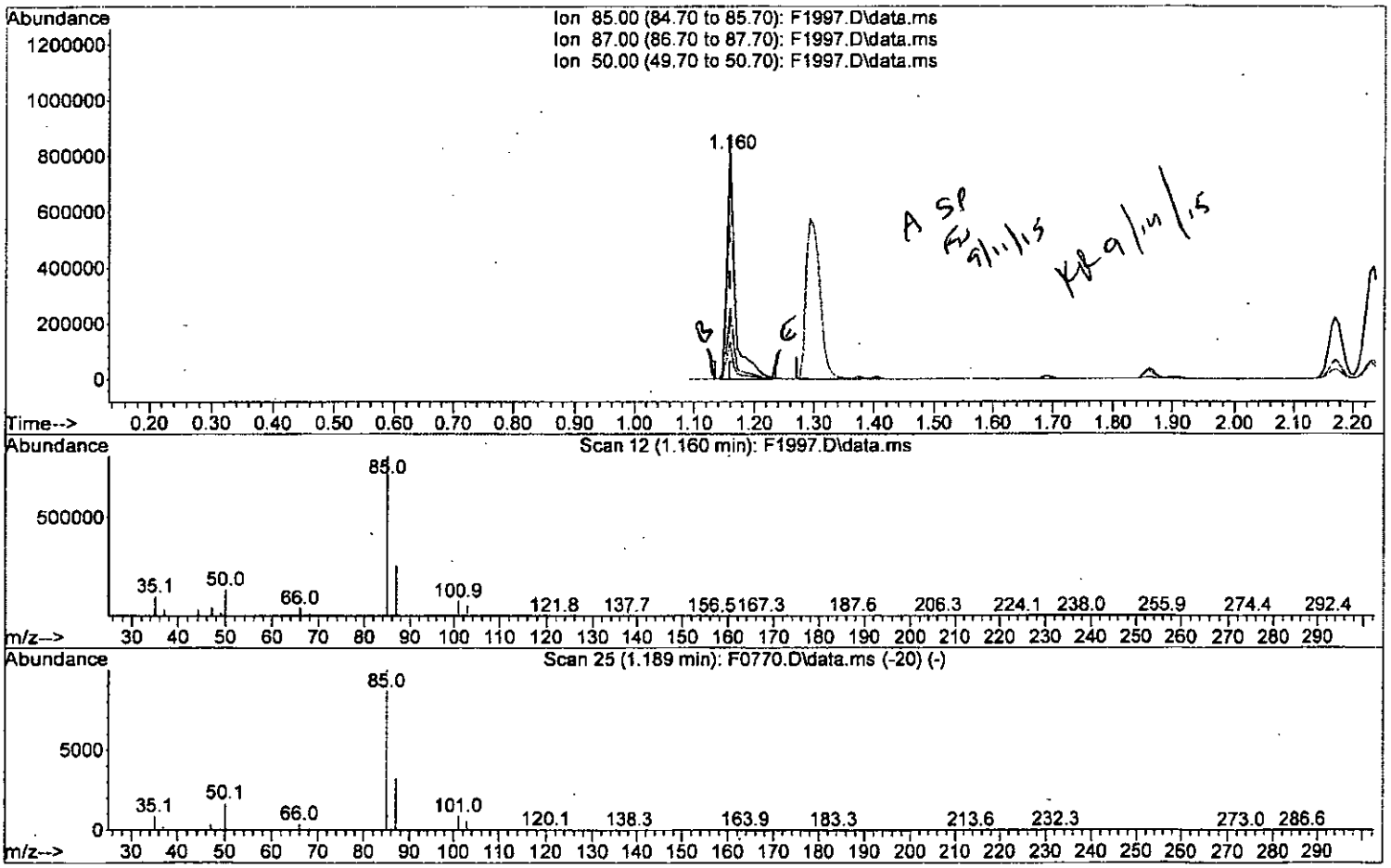
response 634138

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	31.13
50.00	17.40	16.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1997.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 107.74 ug/L m

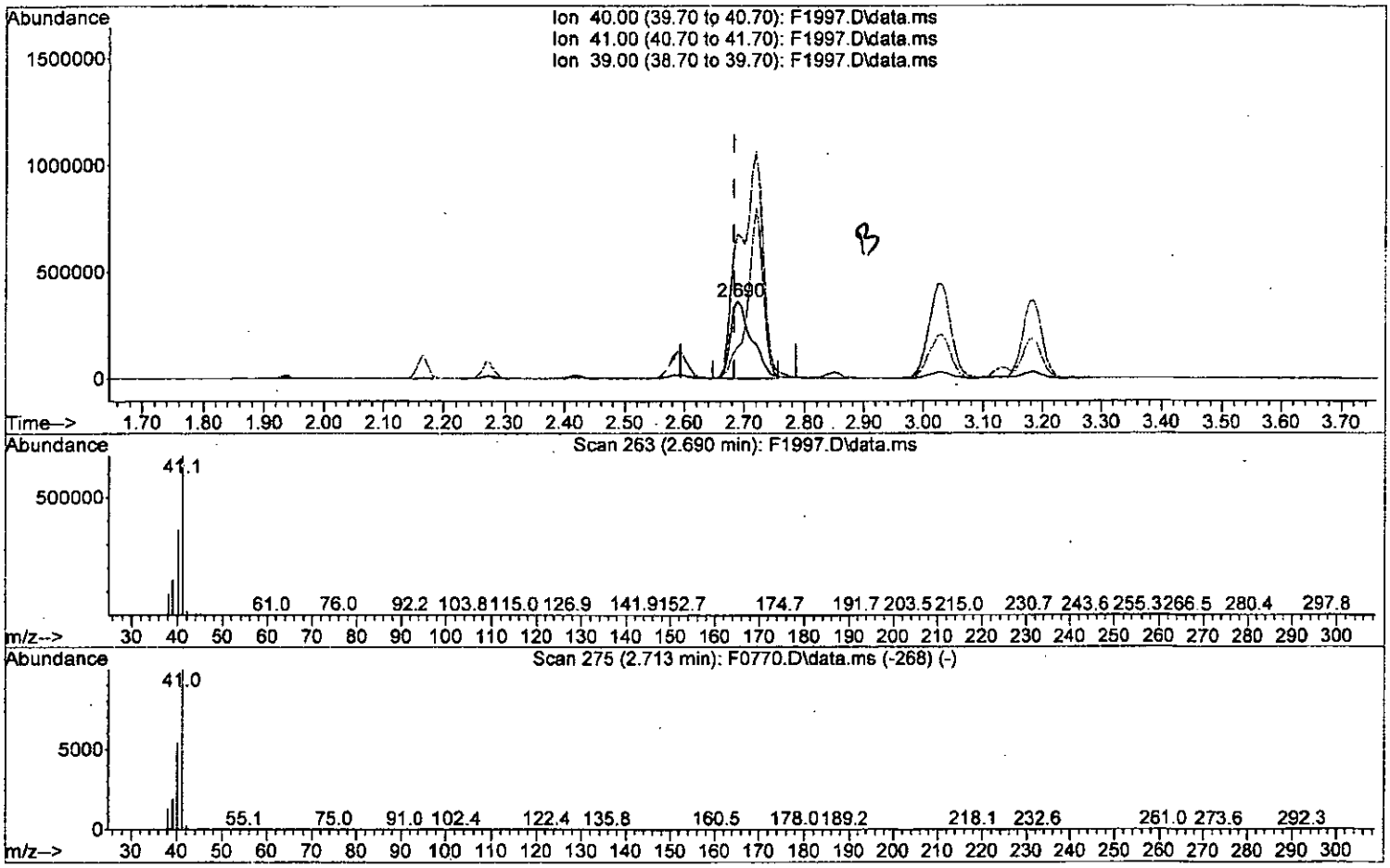
response 754181

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	31.13
50.00	17.40	16.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1997.D\data.ms

(19) Acetonitrile

2.690min (+0.006) 714.60 ug/L

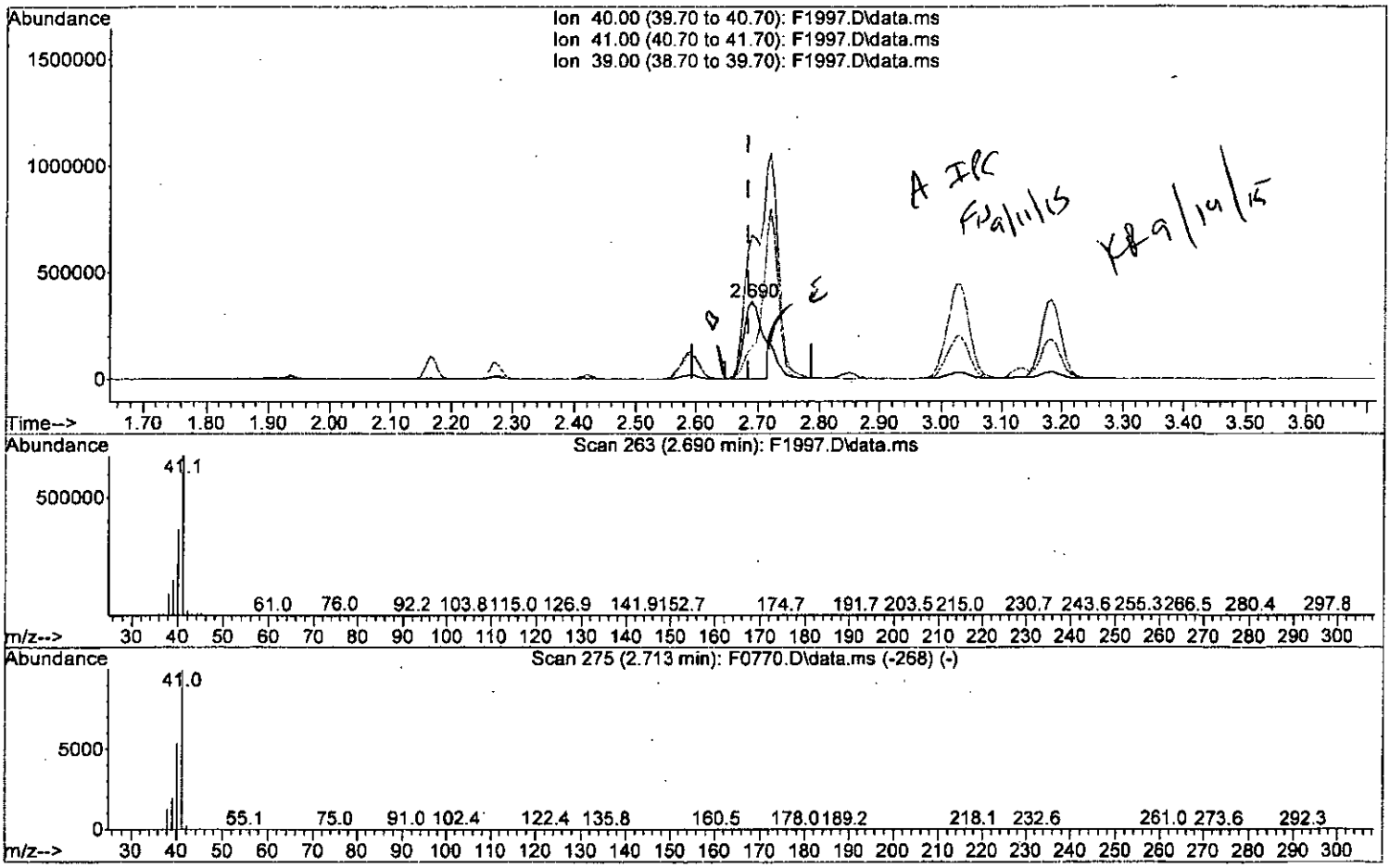
response 894996

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.02
39.00	35.30	41.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 10 20:21:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1997.D\data.ms

(19) Acetonitrile

2.690min (+0.006) 582.47 ug/L m

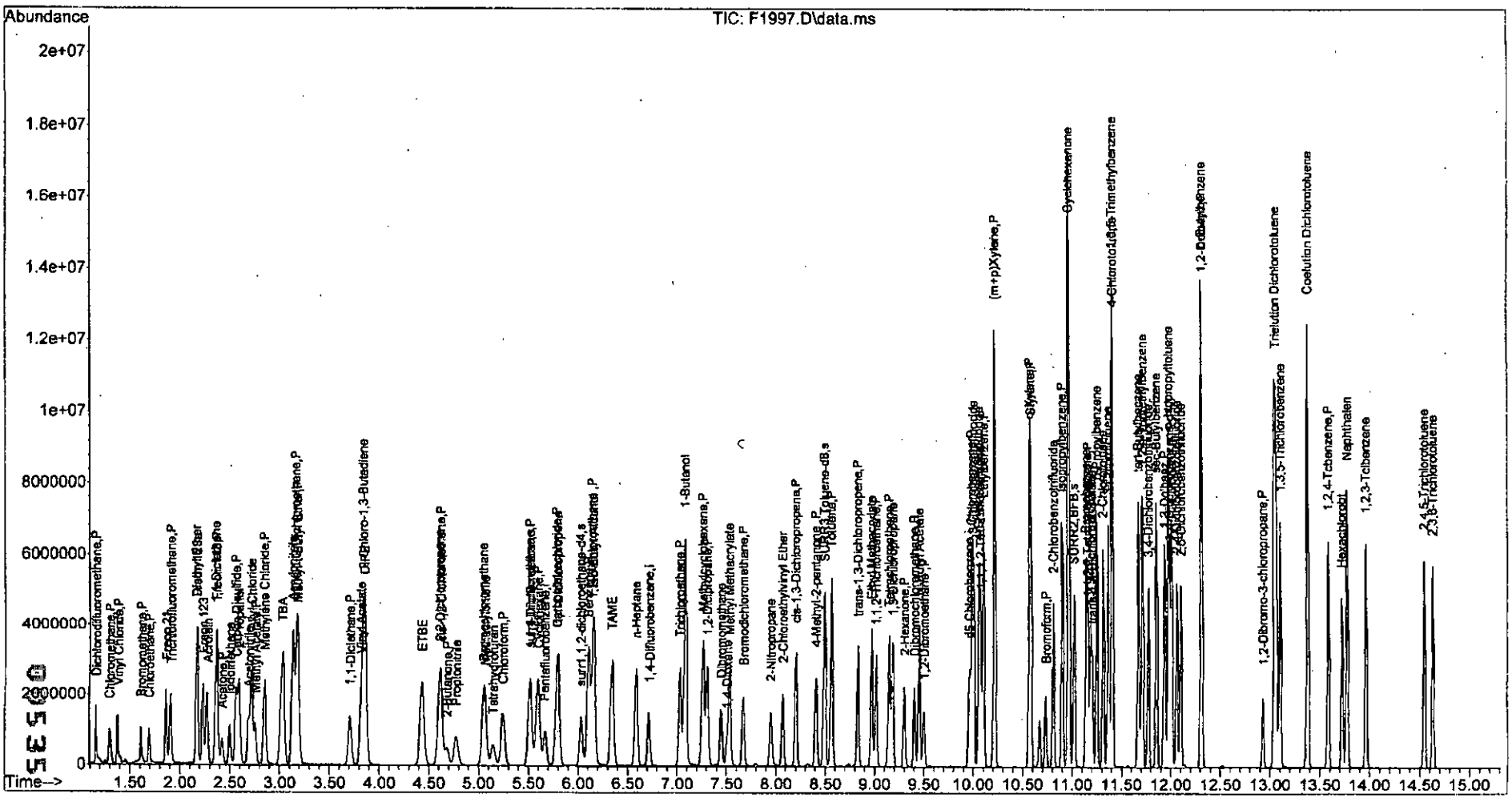
response 729517

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.02
39.00	35.30	41.33
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1997.D
Acq On : 10 Sep 2015 8:06 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 09:25:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FP 9/11/15

9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	771381	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1101623	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	1012343	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	632461	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	1418787	197.64	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 395.28%#				
46) surr1,1,2-dichloroetha...	6.031	65	1923070	197.07	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 394.14%#				
64) SURR3,Toluene-d8	8.494	98	4703963	183.63	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 367.26%#				
69) SURR2,BFB	11.024	95	2261186	209.20	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 418.40%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	1045655	158.65	ug/L		97
3) Chloromethane	1.294	50	1311524	151.17	ug/L		98
4) Vinyl Chloride	1.379	62	1155173	151.68	ug/L		99
5) Bromomethane	1.611	94	385146	89.45	ug/L		99
6) Chloroethane	1.684	64	623179	144.98	ug/L		94
7) Freon 21	1.861	67	2013337	160.15	ug/L		95
8) Trichlorofluoromethane	1.898	101	1437813	151.31	ug/L		98
9) Diethyl Ether	2.166	59	1125182	148.90	ug/L		96
10) Freon 123a	2.172	67	1306271	158.78	ug/L		96
11) Freon 123	2.233	83	1445724	159.01	ug/L		96
12) Acrolein	2.276	56	1854905	742.49	ug/L		94
13) 1,1-Diclethene	2.361	96	871483	139.53	ug/L		96
14) Freon 113	2.367	101	973256	143.90	ug/L		97
15) Acetone	2.422	43	959077	149.62	ug/L		96
16) 2-Propanol	2.617	45	4829152	3328.57	ug/L		88
17) Iodomethane	2.495	142	1470781	212.69	ug/L		90
18) Carbon Disulfide	2.556	76	2778778	152.40	ug/L		99
19) Acetonitrile	2.696	40	949112m	804.86	ug/L		
20) Allyl Chloride	2.721	76	559148	152.24	ug/L	#	19
21) Methyl Acetate	2.757	43	1816104	152.71	ug/L		99
22) Methylene Chloride	2.849	84	1089154	142.55	ug/L		91
23) TBA	3.056	59	6719115	3348.27	ug/L		91
24) Acrylonitrile	3.135	53	4064020	754.86	ug/L		96
25) Methyl-t-Butyl Ether	3.184	73	3882969	148.04	ug/L		96
26) trans-1,2-Dichloroethene	3.166	96	975209	145.95	ug/L		90
27) 1,1-Diclethane	3.702	63	2042778	150.91	ug/L		97
28) Vinyl Acetate	3.818	86	245323	174.46	ug/L	#	76
29) DIPE	3.861	45	4964965	152.36	ug/L		93
30) 2-Chloro-1,3-Butadiene	3.836	53	2459058	167.36	ug/L		91
31) ETBE	4.434	59	4192028	150.35	ug/L		95
32) 2,2-Dichloropropane	4.610	77	1528371	145.53	ug/L		99
33) cis-1,2-Dichloroethene	4.623	96	1113427	144.55	ug/L	#	79
34) 2-Butanone	4.690	43	1319101	151.89	ug/L		93
35) Propionitrile	4.781	54	1845550	842.22	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	744694	149.95	ug/L		94
37) Methacrylonitrile	5.068	67	732531	150.38	ug/L		96
38) Tetrahydrofuran	5.147	42	828454	155.51	ug/L		85
39) Chloroform	5.244	83	1972014	150.71	ug/L		96
40) 1,1,1-Trichloroethane	5.519	97	1696294	151.96	ug/L		97
42) Cyclohexane	5.598	41	1542893	164.32	ug/L		87
44) Carbontetrachloride	5.787	121	439946	162.57	ug/L		80
45) 1,1-Dichloropropene	5.799	75	1394463	147.68	ug/L		99
47) Benzene	6.104	78	4105343	149.09	ug/L		87
48) 1,2-Dichloroethane	6.147	62	1912760	150.86	ug/L		98
49) Iso-Butyl Alcohol	6.177	43	3642485	3657.15	ug/L		93
50) TAME	6.348	73	3599127	155.09	ug/L		97
51) n-Heptane	6.586	43	1771713	141.93	ug/L		95
52) 1-Butanol	7.098	56	4838264	9025.66	ug/L		87
53) Trichloroethene	7.031	130	1132248	132.79	ug/L		98
54) Methylcyclohexane	7.262	55	1725340	160.00	ug/L		91
55) 1,2-Diclpropane	7.305	63	1229034	147.73	ug/L		97
56) Dibromomethane	7.445	93	783527	146.97	ug/L		93
57) 1,4-Dioxane	7.512	88	640573	3332.17	ug/L		96
58) Methyl Methacrylate	7.537	69	1136161	159.30	ug/L		98
59) Bromodichloromethane	7.671	83	1546376	151.06	ug/L		99
60) 2-Nitropropane	7.951	41	1322621	381.33	ug/L		99
61) 2-Chloroethylvinyl Ether	8.073	63	1007770	160.63	ug/L		89
62) cis-1,3-Dichloropropene	8.201	75	1848134	158.46	ug/L		99
63) 4-Methyl-2-pentanone	8.408	43	2583625	171.37	ug/L		98
65) Toluene	8.567	91	4239886	144.33	ug/L		94
66) trans-1,3-Dichloropropene	8.829	75	1809908	161.25	ug/L		97
67) Ethyl Methacrylate	8.969	69	2019940	164.54	ug/L		99
68) 1,1,2-Trichloroethane	9.012	97	1129212	154.90	ug/L		90
71) Tetrachloroethene	9.146	164	870291	140.70	ug/L		93
72) 2-Hexanone	9.299	43	2079669	171.39	ug/L		93
73) 1,3-Dichloropropane	9.183	76	1936295	146.68	ug/L		98
74) Dibromochloromethane	9.402	129	1285610	160.86	ug/L		100
75) N-Butyl Acetate	9.451	43	3545778	169.70	ug/L		97
76) 1,2-Dibromoethane	9.500	107	1231170	148.41	ug/L		100
77) 3-Chlorobenzotrifluoride	10.000	180	1756902	145.75	ug/L		95
78) Chlorobenzene	9.987	112	2901273	142.58	ug/L		96
79) 4-Chlorobenzotrifluoride	10.054	180	1584051	148.76	ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.073	131	1157483	156.19	ug/L		95
81) Ethylbenzene	10.103	106	1593248	149.84	ug/L	#	72
82) (m+p)Xylene	10.213	106	3623942	283.06	ug/L	#	71
83) o-Xylene	10.567	106	1909054	148.77	ug/L		88
84) Styrene	10.579	104	3269040	148.74	ug/L		90
85) Bromoform	10.731	173	1067256	179.28	ug/L		100
86) 2-Chlorobenzotrifluoride	10.810	180	1835272	157.19	ug/L		99
87) Isopropylbenzene	10.902	105	4501352	140.61	ug/L		90
88) Cyclohexanone	10.963	55	6468725	2748.19	ug/L		80
89) trans-1,4-Dichloro-2-B...	11.207	53	747087	190.63	ug/L		90
91) 1,1,2,2-Tetrachloroethane	11.158	83	1886754	176.88	ug/L		97
92) Bromobenzene	11.146	156	1402189	131.39	ug/L		98
93) 1,2,3-Trichloropropane	11.188	110	607914	144.31	ug/L	#	87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

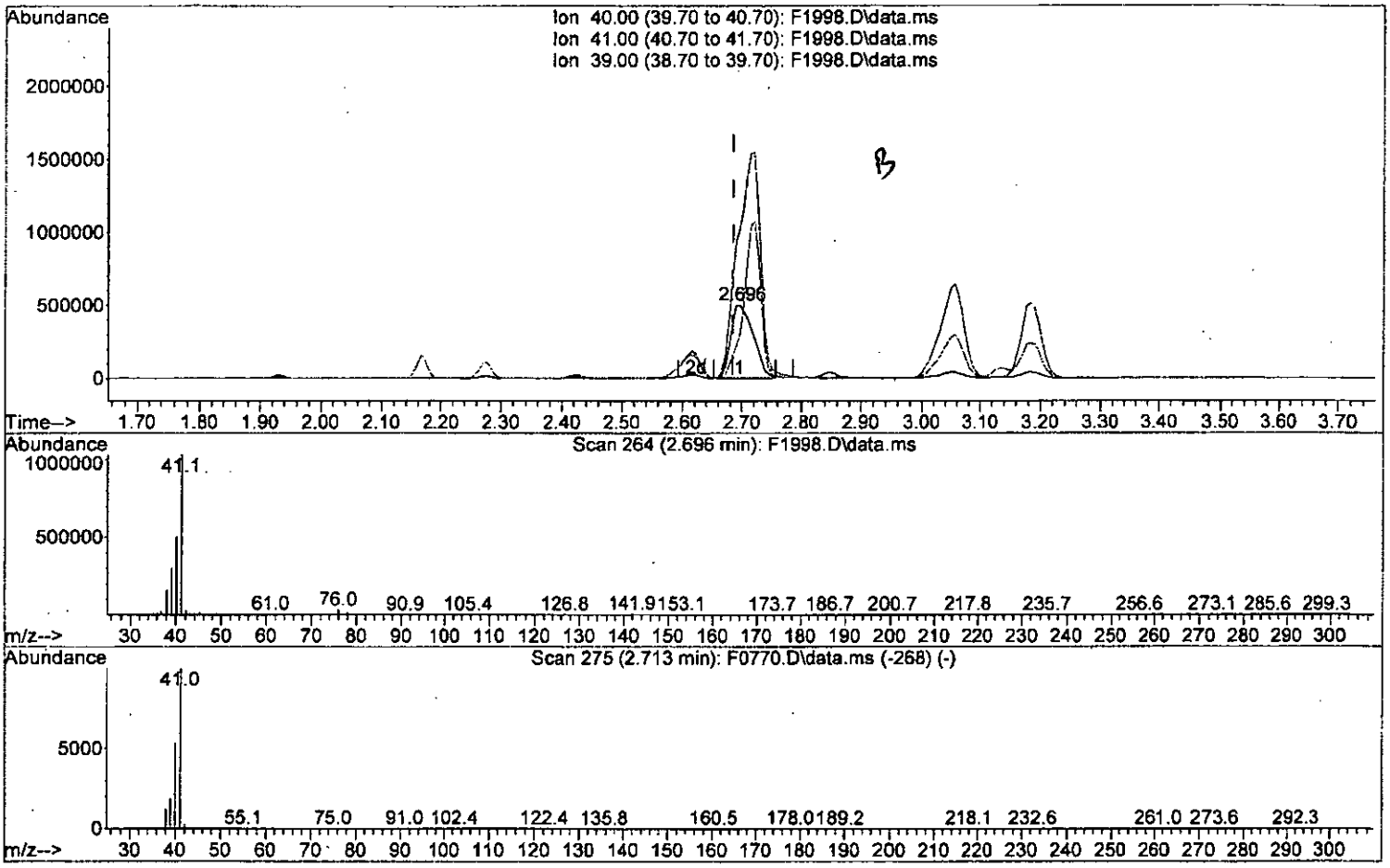
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	5169280	121.01	ug/L	84
95)	2-Chlorotoluene	11.316	91	3554387	129.73	ug/L	93
96)	3-Chlorotoluene	11.365	91	3786113	133.96	ug/L	92
97)	4-Chlorotoluene	11.408	91	4179494	130.58	ug/L	88
98)	1,3,5-Trimethylbenzene	11.402	105	4001796	135.81	ug/L	88
99)	tert-Butylbenzene	11.676	119	3533575	132.41	ug/L	94
100)	1,2,4-Trimethylbenzene	11.713	105	4077491	132.19	ug/L	83
101)	3,4-Dichlorobenzotrifl...	11.774	214	1506282	134.78	ug/L	98
102)	sec-Butylbenzene	11.853	105	4840318	127.98	ug/L	86
103)	p-Isopropyltoluene	11.975	119	4250381	134.67	ug/L	83
104)	1,3-Dclbenz	11.938	146	2672969	136.67	ug/L	94
105)	1,4-Dclbenz	12.011	146	2767250	133.53	ug/L	96
106)	2,4-Dichlorobenzotrifl...	12.060	214	1412381	139.72	ug/L	99
107)	2,5-Dichlorobenzotrifl...	12.103	214	1603668	144.51	ug/L	98
108)	n-Butylbenzene	12.304	91	4224611	131.24	ug/L	89
109)	1,2-Dclbenz	12.310	146	2684977	135.97	ug/L	91
110)	1,2-Dibromo-3-chloropr...	12.932	157	536299	168.52	ug/L	95
111)	Trielution Dichlorotol...	13.054	125	7143568	407.04	ug/L	84
112)	1,3,5-Trichlorobenzene	13.103	180	2219721	142.33	ug/L	96
113)	Coelution Dichlorotoluene	13.377	125	5017053	260.51	ug/L	79
114)	1,2,4-Tcbenzene	13.584	180	2136171	137.31	ug/L	99
115)	Hexachlorobt	13.724	225	898327	141.01	ug/L	97
116)	Naphthalen	13.773	128	5420905	121.66	ug/L	83
117)	1,2,3-Tclbenzene	13.962	180	2141662	136.86	ug/L	98
118)	2,4,5-Trichlorotoluene	14.547	159	1703501	137.10	ug/L	96
119)	2,3,6-Trichlorotoluene	14.633	159	1495317	136.72	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 20:45:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1998.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 1126.05 ug/L

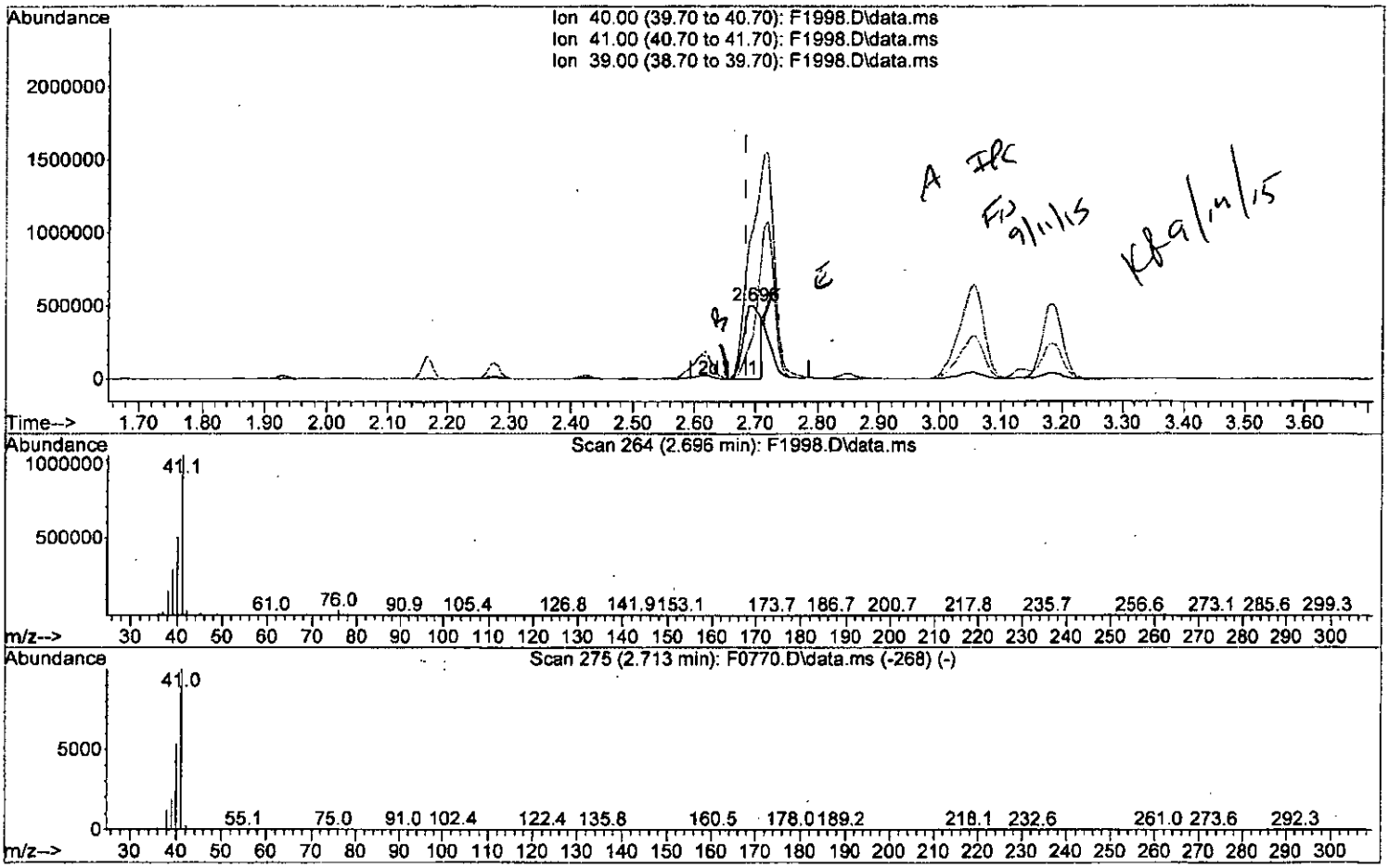
response 1327870

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	205.00
39.00	35.30	59.32#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 10 20:45:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1998.D\data.ms

(19) Acetonitrile

2.696min (+0.012) 804.86 ug/L m

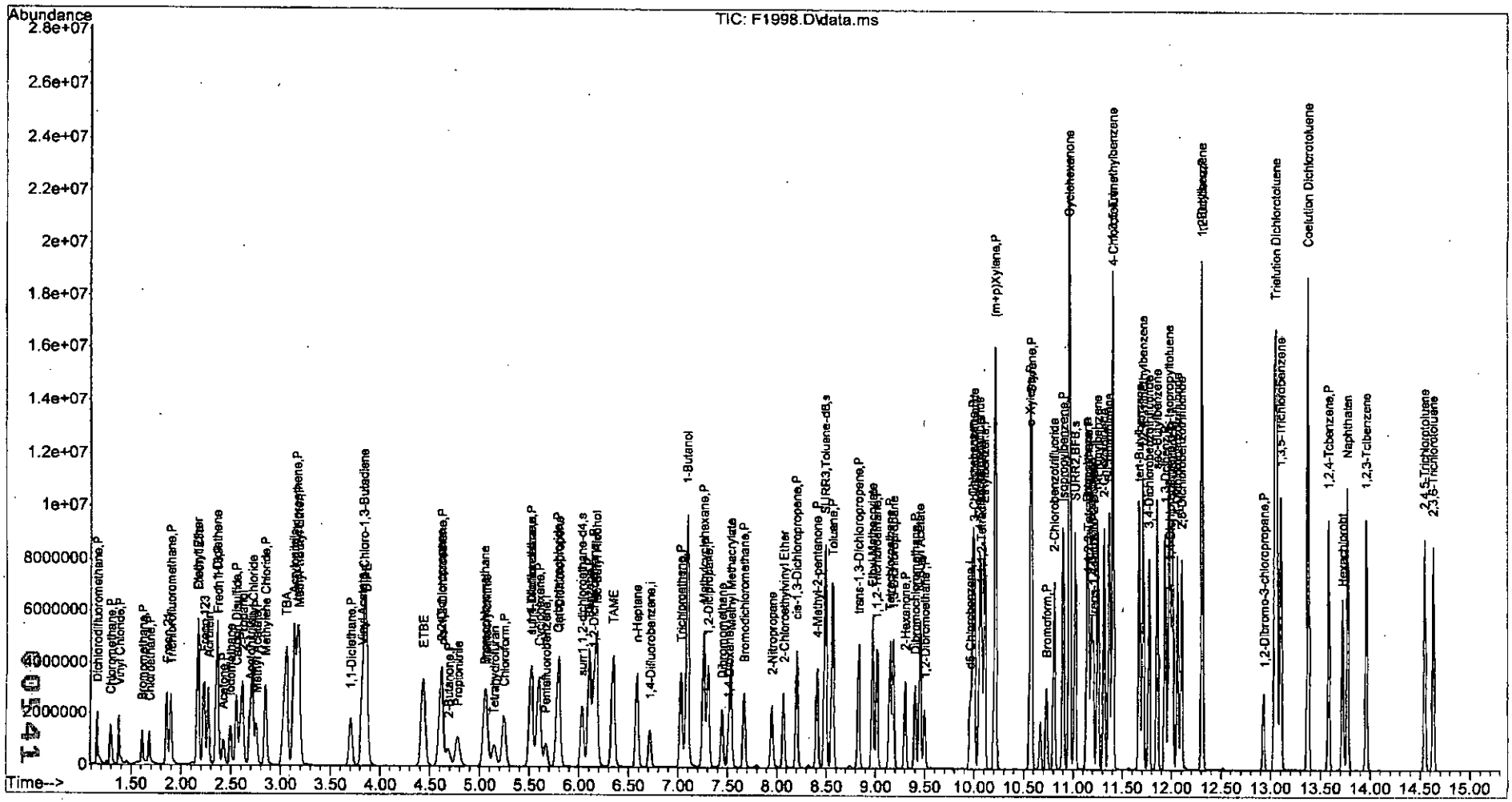
response 949112

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	205.00
39.00	35.30	59.32#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1998.D
Acq On : 10 Sep 2015 8:31 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 09:27:47 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

FN 9/11/15
KB 9/14/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	844953	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1200598	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	1072720	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	639567	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	397572	50.82	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.64%				
46) surr1,1,2-dichloroetha...	6.031	65	542203	50.98	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.96%				
64) SURR3,Toluene-d8	8.494	98	1435472	51.42	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.84%				
69) SURR2,BFB	11.024	95	616420	52.33	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	1471248	203.79	ug/L		97
3) Chloromethane	1.294	50	1857909	195.51	ug/L		98
4) Vinyl Chloride	1.379	62	1622354	194.47	ug/L		100
5) Bromomethane	1.611	94	565776	119.97	ug/L		99
6) Chloroethane	1.690	64	976581	207.42	ug/L		93
7) Freon 21	1.861	67	2781927	202.02	ug/L		92
8) Trichlorofluoromethane	1.904	101	2093821	201.16	ug/L		98
9) Diethyl Ether	2.166	59	1634299	197.44	ug/L		97
10) Freon 123a	2.172	67	1887234	209.43	ug/L		98
11) Freon 123	2.233	83	2063198	207.16	ug/L		98
12) Acrolein	2.276	56	2520828	921.18	ug/L		94
13) 1,1-Diclethene	2.361	96	1293498	189.07	ug/L		95
14) Freon 113	2.373	101	1445631	195.13	ug/L		96
15) Acetone	2.422	43	1366818	194.66	ug/L		96
16) 2-Propanol	2.599	45	6243983	3929.02	ug/L		86
17) Iodomethane	2.501	142	2236401	295.25	ug/L		88
18) Carbon Disulfide	2.562	76	3916346	196.09	ug/L		98
19) Acetonitrile	2.690	40	1527767m	1182.76	ug/L		
20) Allyl Chloride	2.721	76	821169	204.11	ug/L	#	34
21) Methyl Acetate	2.757	43	2606427	200.08	ug/L		97
22) Methylene Chloride	2.849	84	1567636	187.31	ug/L		93
23) TBA	3.038	59	8528859	3880.03	ug/L		88
24) Acrylonitrile	3.135	53	5479288	929.12	ug/L		93
25) Methyl-t-Butyl Ether	3.184	73	5443619	189.47	ug/L		99
26) trans-1,2-Dichloroethene	3.166	96	1435583	196.14	ug/L		92
27) 1,1-Diclethane	3.708	63	3010653	203.05	ug/L		97
28) Vinyl Acetate	3.818	86	280268	181.95	ug/L	#	85
29) DIPE	3.861	45	6996115	195.99	ug/L		90
30) 2-Chloro-1,3-Butadiene	3.842	53	3504325	217.74	ug/L		86
31) ETBE	4.434	59	6060887	198.45	ug/L		95
32) 2,2-Dichloropropane	4.604	77	2231153	193.96	ug/L		97
33) cis-1,2-Dichloroethene	4.623	96	1648745	195.41	ug/L	#	84
34) 2-Butanone	4.684	43	1836119	193.01	ug/L		93
35) Propionitrile	4.781	54	2508264	1044.98	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.056	130	1077798	198.13 ug/L		90
37) Methacrylonitrile	5.068	67	1011089	189.49 ug/L	#	84
38) Tetrahydrofuran	5.147	42	1104579	189.29 ug/L		86
39) Chloroform	5.245	83	2859986	199.54 ug/L		97
40) 1,1,1-Trichloroethane	5.519	97	2519978	206.09 ug/L		95
42) Cyclohexane	5.598	41	2220190	216.97 ug/L		88
44) Carbontetrachloride	5.787	121	668816	226.77 ug/L		86
45) 1,1-Dichloropropene	5.799	75	2059576	200.13 ug/L		99
47) Benzene	6.110	78	5824392	194.08 ug/L		86
48) 1,2-Dichloroethane	6.147	62	2777397	200.99 ug/L		98
49) Iso-Butyl Alcohol	6.171	43	4805816	4427.38 ug/L		91
50) TAME	6.348	73	5096072	201.50 ug/L		94
51) n-Heptane	6.586	43	2591669	190.50 ug/L		97
52) 1-Butanol	7.098	56	6254798	10706.27 ug/L		85
53) Trichloroethene	7.031	130	1681752	180.98 ug/L		97
54) Methylcyclohexane	7.262	55	2465775	209.82 ug/L		90
55) 1,2-Diclpropane	7.305	63	1814882	200.17 ug/L		99
56) Dibromomethane	7.445	93	1132486	194.92 ug/L		98
57) 1,4-Dioxane	7.512	88	847627	4045.75 ug/L		89
58) Methyl Methacrylate	7.537	69	1602826	206.20 ug/L		96
59) Bromodichloromethane	7.671	83	2234922	200.32 ug/L		98
60) 2-Nitropropane	7.951	41	1861442	492.43 ug/L		98
61) 2-Chloroethylvinyl Ether	8.073	63	1421995	207.97 ug/L		93
62) cis-1,3-Dichloropropene	8.201	75	2634386	207.25 ug/L		99
63) 4-Methyl-2-pentanone	8.409	43	3426449	208.53 ug/L		99
65) Toluene	8.567	91	5709920	178.34 ug/L		87
66) trans-1,3-Dichloropropene	8.829	75	2548682	208.35 ug/L		98
67) Ethyl Methacrylate	8.969	69	2767350	206.84 ug/L		100
68) 1,1,2-Trichloroethane	9.018	97	1589427	200.05 ug/L		90
71) Tetrachloroethene	9.146	164	1274906	194.52 ug/L		94
72) 2-Hexanone	9.299	43	2753371	214.14 ug/L		96
73) 1,3-Dichloropropane	9.183	76	2676627	191.35 ug/L		98
74) Dibromochloromethane	9.402	129	1823249	215.30 ug/L		99
75) N-Butyl Acetate	9.451	43	4587796	207.21 ug/L		94
76) 1,2-Dibromoethane	9.500	107	1720208	195.70 ug/L		98
77) 3-Chlorobenzotrifluoride	10.006	180	2416540	189.18 ug/L		97
78) Chlorobenzene	9.988	112	3914118	181.53 ug/L		92
79) 4-Chlorobenzotrifluoride	10.055	180	2161708	191.58 ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.073	131	1638765	208.68 ug/L		95
81) Ethylbenzene	10.103	106	2245768	199.32 ug/L	#	54
82) (m+p)Xylene	10.213	106	4849872m	357.50 ug/L		
83) o-Xylene	10.567	106	2654694	195.23 ug/L	#	77
84) Styrene	10.579	104	4326479	185.77 ug/L		85
85) Bromoform	10.731	173	1485241	235.45 ug/L		99
86) 2-Chlorobenzotrifluoride	10.811	180	2493343	201.53 ug/L		99
87) Isopropylbenzene	10.902	105	5816299	171.46 ug/L		81
88) Cyclohexanone	10.963	55	7703312	3088.49 ug/L		78
89) trans-1,4-Dichloro-2-B...	11.207	53	1032777	248.70 ug/L		89
91) 1,1,2,2-Tetrachloroethane	11.158	83	2448652	227.01 ug/L		96
92) Bromobenzene	11.146	156	1936742	179.47 ug/L		98
93) 1,2,3-Trichloropropane	11.189	110	817221	191.84 ug/L		92

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration

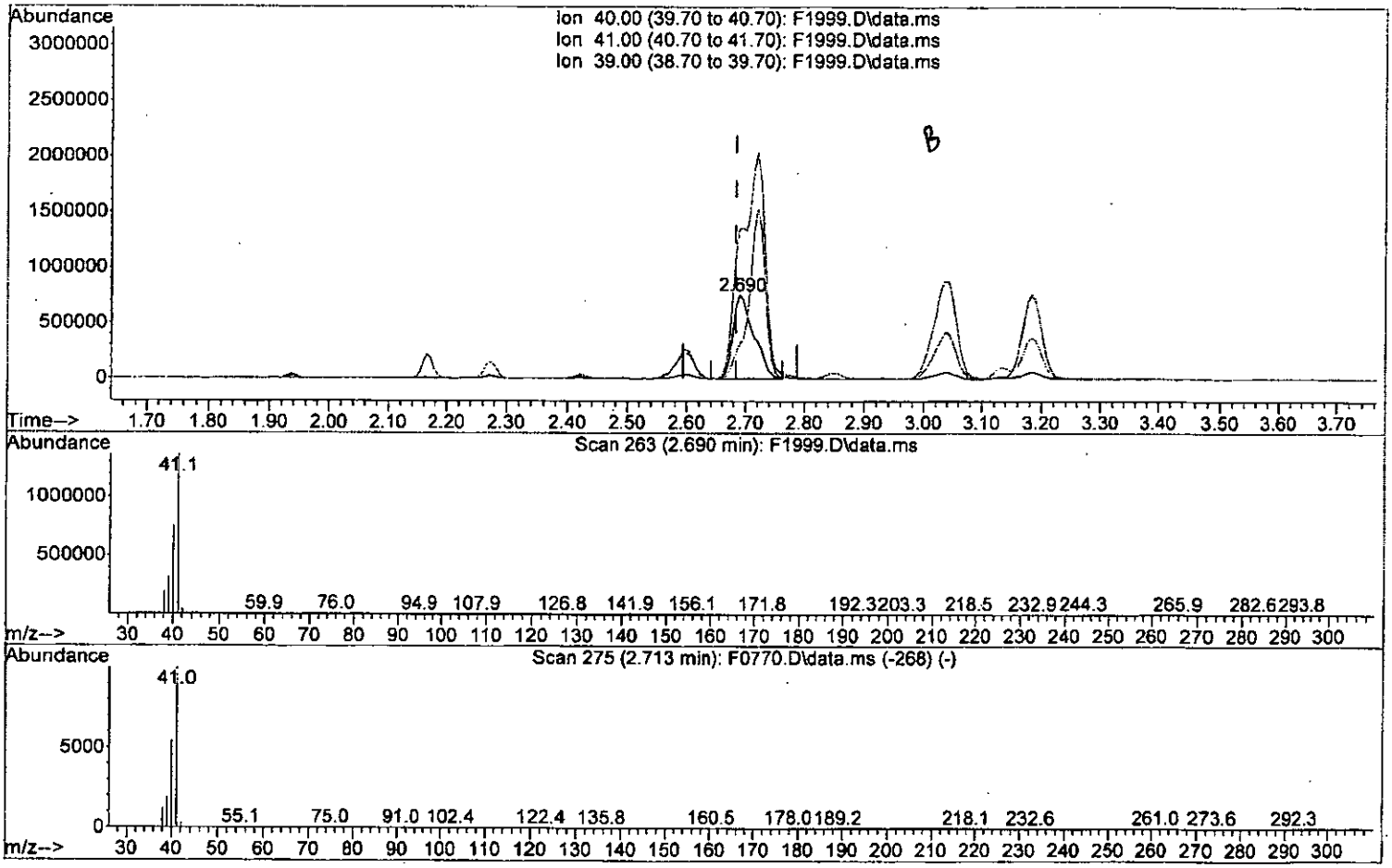
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	6358621	147.19	ug/L	73
95)	2-Chlorotoluene	11.317	91	4604605	166.20	ug/L	85
96)	3-Chlorotoluene	11.365	91	5073631	177.52	ug/L	87
97)	4-Chlorotoluene	11.408	91	5053499	156.13	ug/L	80
98)	1,3,5-Trimethylbenzene	11.402	105	5062768	169.91	ug/L	79
99)	tert-Butylbenzene	11.676	119	4630575	171.59	ug/L	88
100)	1,2,4-Trimethylbenzene	11.713	105	5181875	166.13	ug/L	73
101)	3,4-Dichlorobenzotrifl...	11.774	214	2010549	177.91	ug/L	97
102)	sec-Butylbenzene	11.853	105	6021843	157.45	ug/L	77
103)	p-Isopropyltoluene	11.975	119	5342153	167.38	ug/L	74
104)	1,3-Dclbenz	11.938	146	3538358	178.90	ug/L	91
105)	1,4-Dclbenz	12.012	146	3641397	173.75	ug/L	92
106)	2,4-Dichlorobenzotrifl...	12.060	214	1979192	193.62	ug/L	99
107)	2,5-Dichlorobenzotrifl...	12.103	214	2097393	186.91	ug/L	98
108)	n-Butylbenzene	12.304	91	5293134	162.61	ug/L	80
109)	1,2-Dclbenz	12.310	146	3536271	177.09	ug/L	89
110)	1,2-Dibromo-3-chloropr...	12.932	157	739715	229.85	ug/L	97
111)	Trielution Dichlorotol...	13.054	125	8854967	498.96	ug/L	76
112)	1,3,5-Trichlorobenzene	13.103	180	2982261	189.10	ug/L	96
113)	Coelution Dichlorotoluene	13.377	125	6193824	318.05	ug/L	68
114)	1,2,4-Tcbenzene	13.584	180	2817391	179.08	ug/L	97
115)	Hexachlorobt	13.725	225	1257125	195.13	ug/L	94
116)	Naphthalen	13.773	128	6474089	143.68	ug/L	74
117)	1,2,3-Tclbenzene	13.962	180	2845664	179.82	ug/L	98
118)	2,4,5-Trichlorotoluene	14.548	159	2304934	183.44	ug/L	94
119)	2,3,6-Trichlorotoluene	14.633	159	2025992	183.18	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1999.D\data.ms

(19) Acetonitrile

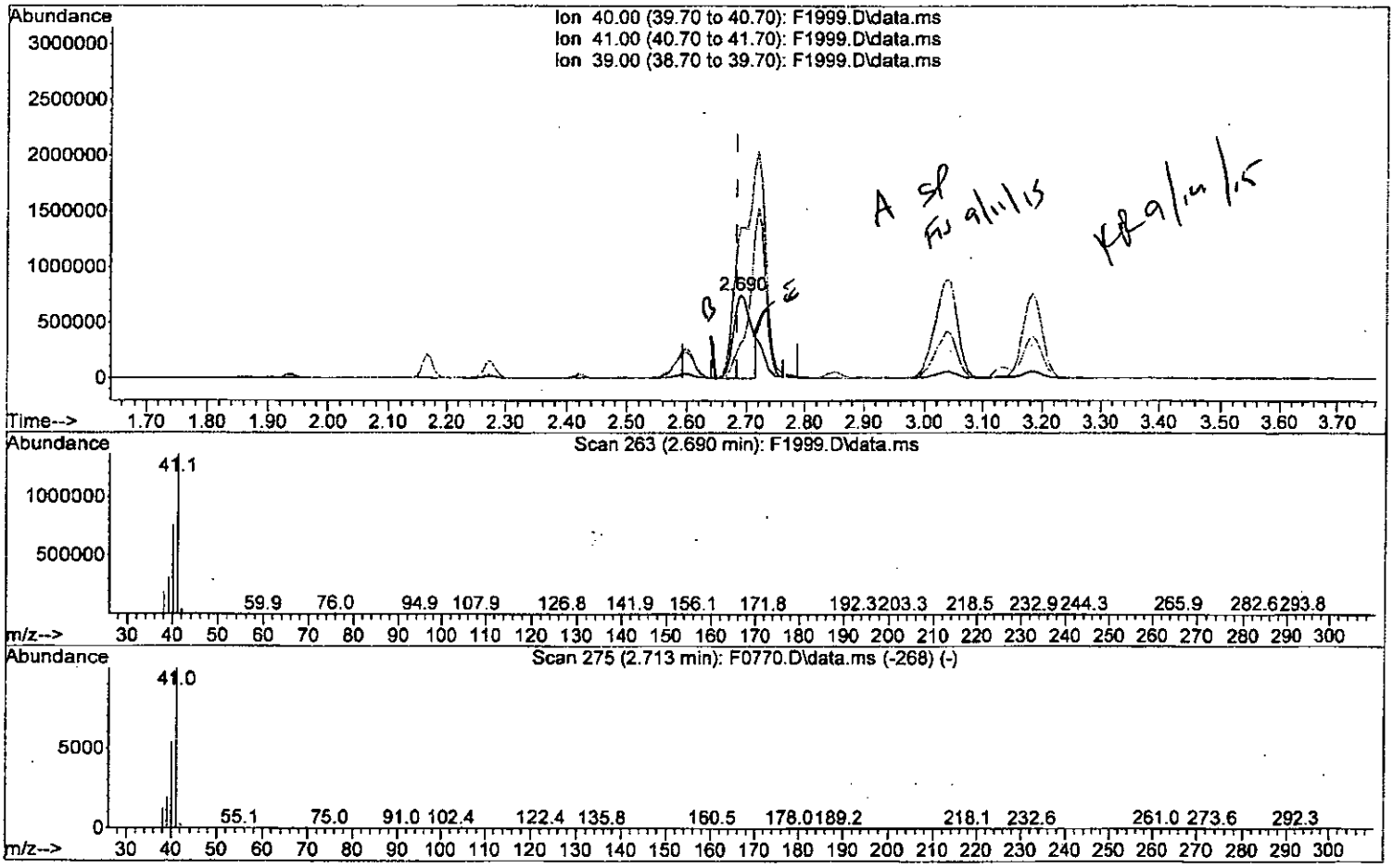
2.690min (+0.006) 1443.51 ug/L

response 1864588

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	180.88
39.00	35.30	41.57
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1999.D\data.ms

(19) Acetonitrile

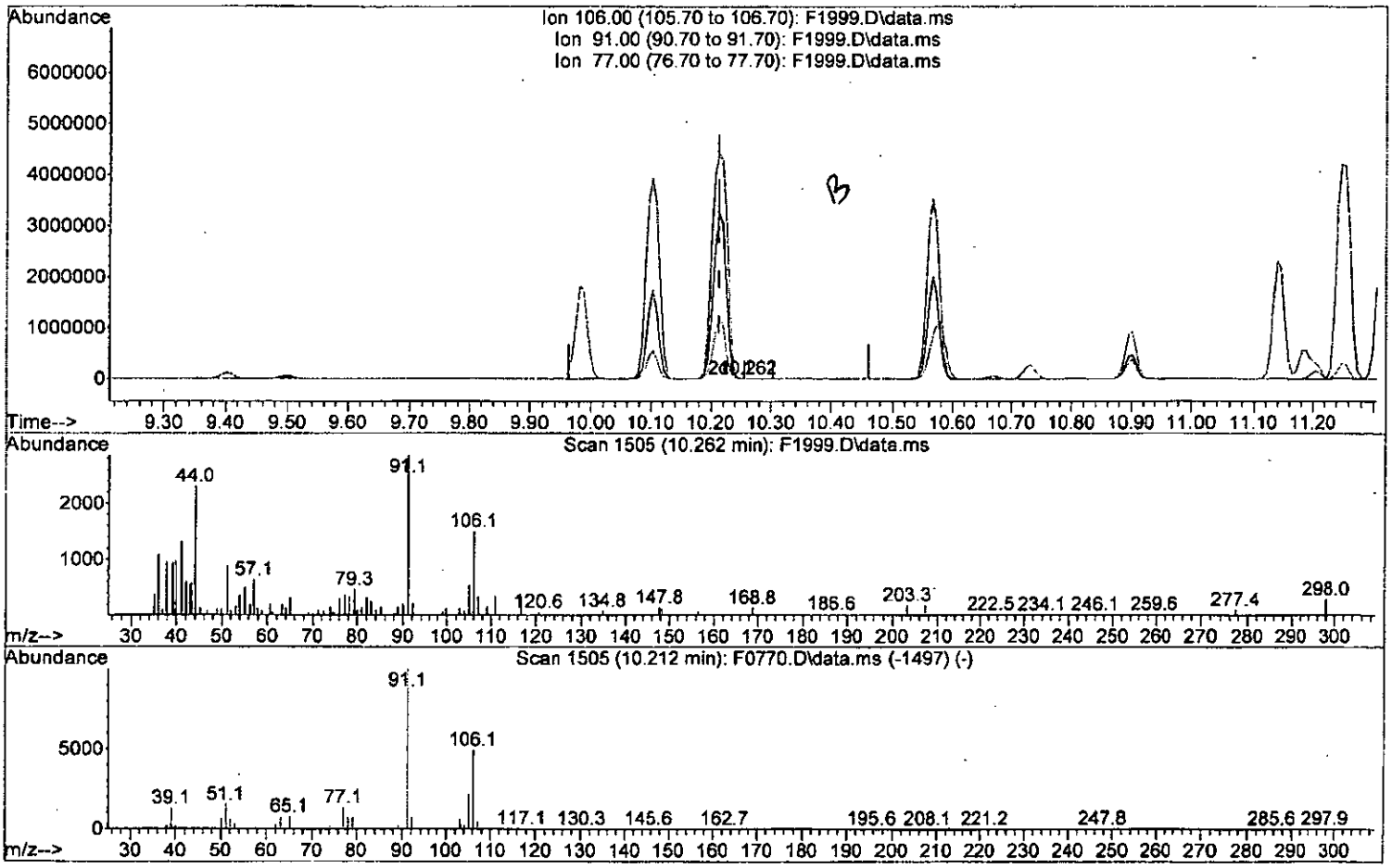
2.690min (+0.006) 1182.76 ug/L m

response 1527767

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	180.88
39.00	35.30	41.57
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1999.D\data.ms

(82) (m+p)Xylene (P)

10.262min (+0.049) 0.10 ug/L

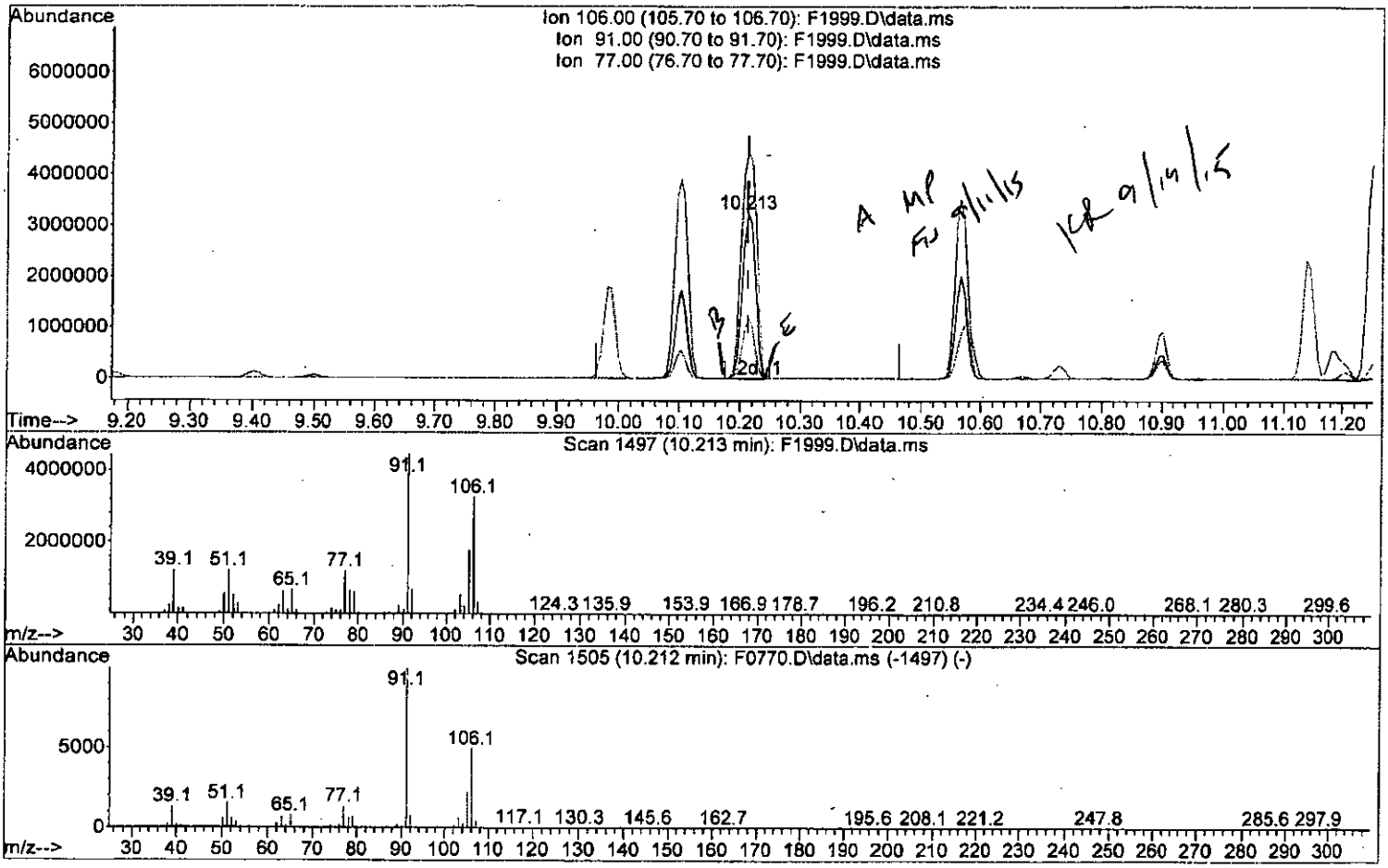
response 1409

Ion	Exp%	Act%
106.00	100	100
91.00	203.10	191.10
77.00	26.90	24.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 10 21:10:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



TIC: F1999.D\data.ms

(82) (m+p)Xylene (P)

10.213min (+0.000) 357.50 ug/L m

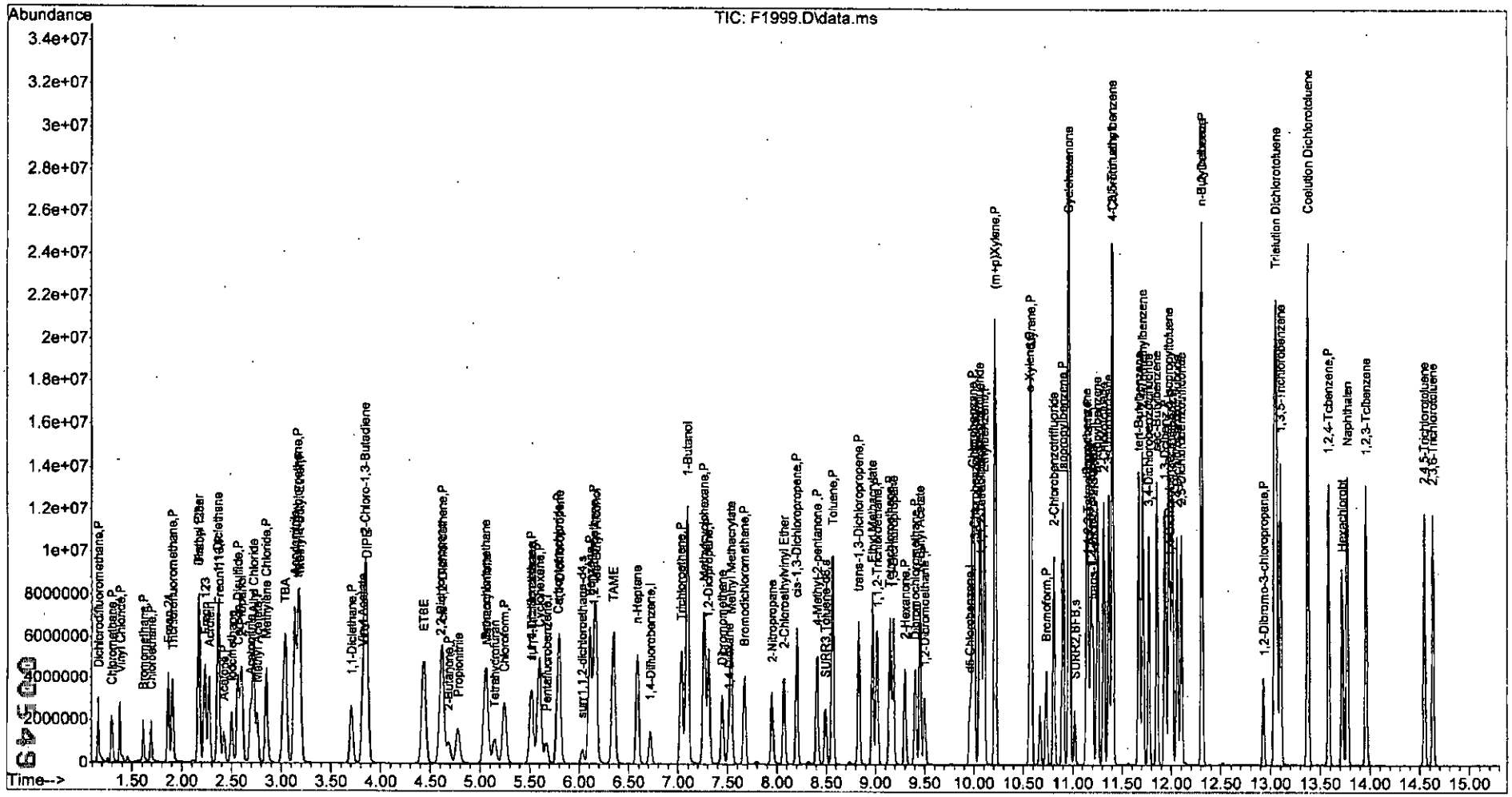
response 4849872

Ion	Exp%	Act%
106.00	100	100
91.00	203.10	136.70#
77.00	26.90	36.66
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1999.D
Acq On : 10 Sep 2015 8:55 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 09:31:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu Sep 10 16:21:06 2015
Response via : Initial Calibration



Initial Calibration Verification Summary Report

Calibration ID: RC1500091 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500091-10	T	Average RF	50	53.11	ppm	6.2	<=30
1,1,1-Trichloroethane (TCA)	RC1500091-10	T	Average RF	50	52.99	ppm	6.0	<=30
1,1,2,2-Tetrachloroethane	RC1500091-10	T	Linear	50	52.86	ppm	5.7	<=30
1,1,2-Trichloroethane	RC1500091-10	T	Average RF	50	50.29	ppm	0.6	<=30
1,1,2-Trichlorotrifluoroethane	RC1500091-10	T	Average RF	50	45.79	ppm	-8.4	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500091-10	T	Average RF	50	51.32	ppm	2.6	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500091-10	T	Average RF	50	51.35	ppm	2.7	<=30
1,1-Dichloropropene	RC1500091-10	T	Average RF	50	48.38	ppm	-3.2	<=30
1,2,3-Trichlorobenzene	RC1500091-10	T	Average RF	50	51.20	ppm	2.4	<=30
1,2,3-Trichloropropane	RC1500091-10	T	Average RF	50	51.86	ppm	3.7	<=30
1,2,4-Trichlorobenzene	RC1500091-10	T	Average RF	50	50.30	ppm	0.6	<=30
1,2,4-Trimethylbenzene	RC1500091-10	T	Average RF	50	50.88	ppm	1.8	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500091-10	T	Average RF	50	55.34	ppm	10.7	<=30
1,2-Dibromoethane	RC1500091-10	T	Average RF	50	51.01	ppm	2.0	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500091-10	T	Average RF	50	56.84	ppm	13.7	<=30
1,2-Dichlorobenzene	RC1500091-10	T	Average RF	50	49.44	ppm	-1.1	<=30
1,2-Dichloroethane	RC1500091-10	T	Average RF	50	51.36	ppm	2.7	<=30
1,2-Dichloropropane	RC1500091-10	T	Average RF	50	50.81	ppm	1.6	<=30
1,3,5-Trichlorobenzene	RC1500091-10	T	Average RF	50	49.64	ppm	-0.7	<=30
1,3,5-Trimethylbenzene	RC1500091-10	T	Average RF	50	51.06	ppm	2.1	<=30
1,3-Dichlorobenzene	RC1500091-10	T	Average RF	50	49.53	ppm	-0.9	<=30
1,3-Dichloropropane	RC1500091-10	T	Average RF	50	50.24	ppm	0.5	<=30
1,4-Dichlorobenzene	RC1500091-10	T	Average RF	50	46.99	ppm	-6.0	<=30
1,4-Dioxane	RC1500091-10	T	Average RF	1000	1047	ppm	4.7	<=30
1-Butanol	RC1500091-10	T	Average RF	2500	2810	ppm	12.4	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500091-10	T	Average RF	50	49.29	ppm	-1.4	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500091-10	T	Average RF	50	56.84	ppm	13.7	<=30
2,2-Dichloropropane	RC1500091-10	T	Average RF	50	46.91	ppm	-6.2	<=30
2,3,6-Trichlorotoluene	RC1500091-10	T	Average RF	50	51.58	ppm	3.2	<=30
2,4,5-Trichlorotoluene	RC1500091-10	T	Average RF	50	53.26	ppm	6.5	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500091-10	T	Average RF	150	156.9	ppm	4.6	<=30
2,4-Dichlorobenzotrifluoride	RC1500091-10	T	Average RF	50	47.64	ppm	-4.7	<=30
2,5-Dichlorobenzotrifluoride	RC1500091-10	T	Average RF	50	49.60	ppm	-0.8	<=30
2-Butanone (MEK)	RC1500091-10	T	Average RF	50	56.00	ppm	12.0	<=30
2-Chloro-1,3-butadiene	RC1500091-10	T	Average RF	50	49.43	ppm	-1.1	<=30
2-Chlorobenzotrifluoride	RC1500091-10	T	Average RF	50	50.01	ppm	0.0	<=30
2-Chloroethyl Vinyl Ether	RC1500091-10	T	Average RF	50	54.09	ppm	8.2	<=30
2-Chlorotoluene	RC1500091-10	T	Average RF	50	50.64	ppm	1.3	<=30
2-Hexanone	RC1500091-10	T	Average RF	50	55.79	ppm	11.6	<=30
2-Methyl-1-propanol	RC1500091-10	T	Average RF	1000	1082	ppm	8.2	<=30
2-Methyl-2-propanol	RC1500091-10	T	Average RF	1000	1115	ppm	11.5	<=30
2-Nitropropane	RC1500091-10	T	Average RF	100	107.7	ppm	7.7	<=30
2-Propanol	RC1500091-10	T	Average RF	1000	1093	ppm	9.3	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500091-10	T	Average RF	100	106.8	ppm	6.8	<=30
3,4-Dichlorobenzotrifluoride	RC1500091-10	T	Average RF	50	47.31	ppm	-5.4	<=30
3-Chloro-1-propene	RC1500091-10	T	Average RF	50	48.51	ppm	-3.0	<=30
3-Chlorobenzotrifluoride	RC1500091-10	T	Average RF	50	49.83	ppm	-0.3	<=30
3-Chlorotoluene	RC1500091-10	T	Average RF	50	51.67	ppm	3.3	<=30
4-Chlorotoluene	RC1500091-10	T	Average RF	50	50.89	ppm	1.8	<=30
4-Isopropyltoluene	RC1500091-10	T	Average RF	50	51.80	ppm	3.6	<=30
4-Methyl-2-pentanone	RC1500091-10	T	Average RF	50	53.34	ppm	6.7	<=30

00550

Initial Calibration Verification Summary Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500091-10	T	Average RF	50	58.43	ppm	16.9	<=30
Acetonitrile	RC1500091-10	T	Average RF	250	242.8	ppm	-2.9	<=30
Acrolein	RC1500091-10	T	Average RF	100	96.74	ppm	-3.3	<=30
Acrylonitrile	RC1500091-10	T	Average RF	250	270.8	ppm	8.3	<=30
Benzene	RC1500091-10	T	Average RF	50	50.30	ppm	0.6	<=30
Bromobenzene	RC1500091-10	T	Average RF	50	50.16	ppm	0.3	<=30
Bromochloromethane	RC1500091-10	T	Average RF	50	52.93	ppm	5.9	<=30
Bromodichloromethane	RC1500091-10	T	Average RF	50	53.09	ppm	6.2	<=30
Bromoform	RC1500091-10	T	Average RF	50	55.50	ppm	11.0	<=30
Bromomethane	RC1500091-10	T	Quadratic	50	45.77	ppm	-8.5	<=30
Carbon Disulfide	RC1500091-10	T	Average RF	50	56.76	ppm	13.5	<=30
Carbon Tetrachloride	RC1500091-10	T	Average RF	50	52.96	ppm	5.9	<=30
Chlorobenzene	RC1500091-10	T	Average RF	50	50.26	ppm	0.5	<=30
Chloroethane	RC1500091-10	T	Average RF	50	52.35	ppm	4.7	<=30
Chloroform	RC1500091-10	T	Average RF	50	53.04	ppm	6.1	<=30
Chloromethane	RC1500091-10	T	Average RF	50	49.16	ppm	-1.7	<=30
Cyclohexane	RC1500091-10	T	Average RF	50	49.16	ppm	-1.7	<=30
Cyclohexanone	RC1500091-10	T	Average RF	1000	1162	ppm	16.2	<=30
Dibromochloromethane	RC1500091-10	T	Average RF	50	54.16	ppm	8.3	<=30
Dibromomethane	RC1500091-10	T	Average RF	50	50.43	ppm	0.9	<=30
Dichlorodifluoromethane (CFC 12)	RC1500091-10	T	Average RF	50	57.98	ppm	16.0	<=30
Dichlorofluoromethane (CFC 21)	RC1500091-10	T	Average RF	50	59.52	ppm	19.0	<=30
Dichloromethane	RC1500091-10	T	Average RF	50	49.47	ppm	-1.1	<=30
Diethyl Ether	RC1500091-10	T	Average RF	50	51.51	ppm	3.0	<=30
Diisopropyl Ether	RC1500091-10	T	Average RF	50	48.68	ppm	-2.6	<=30
Ethyl Methacrylate	RC1500091-10	T	Average RF	50	53.63	ppm	7.3	<=30
Ethyl tert-Butyl Ether	RC1500091-10	T	Average RF	50	48.12	ppm	-3.8	<=30
Ethylbenzene	RC1500091-10	T	Average RF	50	46.06	ppm	-7.9	<=30
Hexachlorobutadiene	RC1500091-10	T	Average RF	50	50.78	ppm	1.6	<=30
Iodomethane	RC1500091-10	T	Quadratic	50	48.60	ppm	-2.8	<=30
Isopropylbenzene (Cumene)	RC1500091-10	T	Average RF	50	51.33	ppm	2.7	<=30
Methacrylonitrile	RC1500091-10	T	Average RF	50	51.23	ppm	2.5	<=30
Methyl Acetate	RC1500091-10	T	Average RF	50	54.83	ppm	9.7	<=30
Methyl Methacrylate	RC1500091-10	T	Average RF	50	52.56	ppm	5.1	<=30
Methyl tert-Butyl Ether	RC1500091-10	T	Average RF	50	53.47	ppm	6.9	<=30
Methylcyclohexane	RC1500091-10	T	Average RF	50	48.68	ppm	-2.6	<=30
Naphthalene	RC1500091-10	T	Average RF	50	55.62	ppm	11.2	<=30
Propionitrile	RC1500091-10	T	Average RF	250	273.5	ppm	9.4	<=30
Styrene	RC1500091-10	T	Average RF	50	51.27	ppm	2.5	<=30
Tetrachloroethene (PCE)	RC1500091-10	T	Average RF	50	49.51	ppm	-1.0	<=30
Tetrahydrofuran (THF)	RC1500091-10	T	Average RF	50	49.56	ppm	-0.9	<=30
Toluene	RC1500091-10	T	Average RF	50	50.56	ppm	1.1	<=30
Trichloroethene (TCE)	RC1500091-10	T	Average RF	50	47.63	ppm	-4.7	<=30
Trichlorofluoromethane (CFC 11)	RC1500091-10	T	Average RF	50	53.57	ppm	7.1	<=30
Vinyl Acetate	RC1500091-10	T	Average RF	50	56.10	ppm	12.2	<=30
Vinyl Chloride	RC1500091-10	T	Average RF	50	56.49	ppm	13.0	<=30
cis-1,2-Dichloroethene	RC1500091-10	T	Average RF	50	49.35	ppm	-1.3	<=30
cis-1,3-Dichloropropene	RC1500091-10	T	Average RF	50	51.50	ppm	3.0	<=30
m,p-Xylenes	RC1500091-10	T	Average RF	100	103.3	ppm	3.3	<=30
n-Butyl Acetate	RC1500091-10	T	Average RF	50	57.65	ppm	15.3	<=30
n-Butylbenzene	RC1500091-10	T	Average RF	50	52.43	ppm	4.9	<=30

00551

Initial Calibration Verification Summary Report

Calibration ID:	RC1500091	**Instrument ID:**	R-MS-10
		Column Name:	I

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500091-10	T	Average RF	50	43.99	ppm	-12.0	<=30
n-Propylbenzene	RC1500091-10	T	Average RF	50	52.07	ppm	4.1	<=30
o-Xylene	RC1500091-10	T	Average RF	50	50.13	ppm	0.3	<=30
sec-Butylbenzene	RC1500091-10	T	Average RF	50	52.63	ppm	5.3	<=30
tert-Amyl Methyl Ether	RC1500091-10	T	Average RF	50	49.23	ppm	-1.5	<=30
tert-Butylbenzene	RC1500091-10	T	Average RF	50	51.46	ppm	2.9	<=30
trans-1,2-Dichloroethene	RC1500091-10	T	Average RF	50	50.95	ppm	1.9	<=30
trans-1,3-Dichloropropene	RC1500091-10	T	Average RF	50	53.42	ppm	6.8	<=30
trans-1,4-Dichloro-2-butene	RC1500091-10	T	Average RF	50	52.56	ppm	5.1	<=30
1,2-Dichloroethane-d4	RC1500091-10	S	Average RF	50	51.03	ppm	2.1	<=30
4-Bromofluorobenzene	RC1500091-10	S	Average RF	50	49.86	ppm	-0.3	<=30
Dibromofluoromethane	RC1500091-10	S	Average RF	50	50.62	ppm	1.2	<=30
Toluene-d8	RC1500091-10	S	Average RF	50	51.14	ppm	2.3	<=30

00552

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FU 9/11/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	772305	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	1123887	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	996869	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	554080	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrfimethane	5.519	113	367059	50.62	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.24%				
46) surr1,1,2-dichloroetha...	6.037	65	524676	51.03	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.06%				
64) SURR3,Toluene-d8	8.494	98	1351777	51.14	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.28%				
69) SURR2,BFB	11.018	95	544228	49.86	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	396584	57.98	ug/L		99
3) Chloromethane	1.294	50	458293	49.16	ug/L		98
4) Vinyl Chloride	1.373	62	455760	56.49	ug/L		99
5) Bromomethane	1.611	94	173719	45.77	ug/L		99
6) Chloroethane	1.697	64	253030	52.35	ug/L		93
7) Freon 21	1.861	67	814510	59.52	ug/L		96
8) Trichlorofluoromethane	1.910	101	556121	53.57	ug/L		99
9) Diethyl Ether	2.166	59	391129	51.51	ug/L		96
10) Freon 123a	2.172	67	516258	56.84	ug/L		99
11) Freon 123	2.233	83	531138	56.84	ug/L		97
12) Acrolein	2.276	56	238910	96.74	ug/L		94
13) 1,1-Diclethene	2.361	96	324438	51.35	ug/L		98
14) Freon 113	2.373	101	322848	45.79	ug/L		99
15) Acetone	2.416	43	385991	58.43	ug/L		95
16) 2-Propanol	2.581	45	1531250	1092.78	ug/L		90
17) Iodomethane	2.501	142	460279	48.60	ug/L		92
18) Carbon Disulfide	2.562	76	1094745	56.76	ug/L		98
19) Acetonitrile	2.690	40	335848m	242.80	ug/L		
20) Allyl Chloride	2.727	76	195392	48.51	ug/L	#	49
21) Methyl Acetate	2.757	43	654651	54.83	ug/L		98
22) Methylene Chloride	2.849	84	391669	49.47	ug/L		95
23) TBA	3.019	59	2158389	1115.08	ug/L		97
24) Acrylonitrile	3.129	53	1403092	270.82	ug/L		97
25) Methyl-t-Butyl Ether	3.184	73	1401037	53.47	ug/L		95
26) trans-1,2-Dichloroethene	3.166	96	354181	50.95	ug/L	#	89
27) 1,1-Diclethane	3.708	63	760303	51.32	ug/L		97
28) Vinyl Acetate	3.812	86	83961	56.10	ug/L	#	73
29) DIPE	3.861	45	1654627	48.68	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.842	53	801839	49.43	ug/L		87
31) ETBE	4.434	59	1363898	48.12	ug/L		95
32) 2,2-Dichloropropane	4.611	77	515063	46.91	ug/L		96
33) cis-1,2-Dichloroethene	4.623	96	398977	49.35	ug/L	#	83
34) 2-Butanone	4.684	43	465690	56.00	ug/L		97
35) Propionitrile	4.769	54	609766	273.47	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.050	130	267198	52.93	ug/L		89
37) Methacrylonitrile	5.068	67	248818	51.23	ug/L		89
38) Tetrahydrofuran	5.141	42	283780	49.56	ug/L		99
39) Chloroform	5.245	83	708381	53.04	ug/L		96
40) 1,1,1-Trichloroethane	5.513	97	619035	52.99	ug/L		96
42) Cyclohexane	5.592	41	551341	49.16	ug/L		93
44) Carbontetrachloride	5.787	121	160387	52.96	ug/L		92
45) 1,1-Dichloropropene	5.799	75	489685	48.38	ug/L		95
47) Benzene	6.104	78	1513534	50.30	ug/L		87
48) 1,2-Dichloroethane	6.147	62	697542	51.36	ug/L		98
49) Iso-Butyl Alcohol	6.153	43	1109565	1082.12	ug/L		91
50) TAME	6.342	73	1210122	49.23	ug/L		99
51) n-Heptane	6.586	43	629347	43.99	ug/L		96
52) 1-Butanol	7.080	56	1526419	2809.90	ug/L		93
53) Trichloroethene	7.031	130	425286	47.63	ug/L		97
54) Methylcyclohexane	7.263	55	605282	48.68	ug/L		86
55) 1,2-Diclpropane	7.305	63	445319	50.81	ug/L		97
56) Dibromomethane	7.445	93	268708	50.43	ug/L		93
57) 1,4-Dioxane	7.506	88	199298	1046.95	ug/L		93
58) Methyl Methacrylate	7.531	69	382957	52.56	ug/L		90
59) Bromodichloromethane	7.671	83	547414	53.09	ug/L		98
60) 2-Nitropropane	7.945	41	401069	107.74	ug/L		94
61) 2-Chloroethylvinyl Ether	8.067	63	352965	54.09	ug/L		99
62) cis-1,3-Dichloropropene	8.201	75	624361	51.50	ug/L		99
63) 4-Methyl-2-pentanone	8.403	43	844747	53.34	ug/L		96
65) Toluene	8.561	91	1584616	50.56	ug/L		99
66) trans-1,3-Dichloropropene	8.829	75	598189	53.42	ug/L		98
67) Ethyl Methacrylate	8.970	69	673977	53.63	ug/L		95
68) 1,1,2-Trichloroethane	9.012	97	373955	50.29	ug/L	#	88
71) Tetrachloroethene	9.146	164	318096	49.51	ug/L		93
72) 2-Hexanone	9.299	43	673083	55.79	ug/L		96
73) 1,3-Dichloropropane	9.177	76	662699	50.24	ug/L		98
74) Dibromochloromethane	9.402	129	413726	54.16	ug/L		96
75) N-Butyl Acetate	9.451	43	1249738	57.65	ug/L		95
76) 1,2-Dibromoethane	9.500	107	414638	51.01	ug/L		99
77) 3-Chlorobenzotrifluoride	10.000	180	600919	49.83	ug/L		97
78) Chlorobenzene	9.982	112	1040951	50.26	ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	527589	49.29	ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.067	131	379234	53.11	ug/L		97
81) Ethylbenzene	10.103	106	507694	46.06	ug/L		97
82) (m+p)Xylene	10.213	106	1338960	103.26	ug/L		96
83) o-Xylene	10.567	106	677027	50.13	ug/L		96
84) Styrene	10.579	104	1128220	51.27	ug/L		98
85) Bromoform	10.731	173	323632	55.50	ug/L		95
86) 2-Chlorobenzotrifluoride	10.811	180	598407	50.01	ug/L		98
87) Isopropylbenzene	10.896	105	1705354	51.33	ug/L		98
88) Cyclohexanone	10.957	55	2665271	1161.55	ug/L		85
89) trans-1,4-Dichloro-2-B...	11.201	53	216771	52.56	ug/L		98
91) 1,1,2,2-Tetrachloroethane	11.152	83	555758	52.86	ug/L		97
92) Bromobenzene	11.140	156	465329	50.16	ug/L	#	88
93) 1,2,3-Trichloropropane	11.183	110	190403	51.86	ug/L	#	80

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

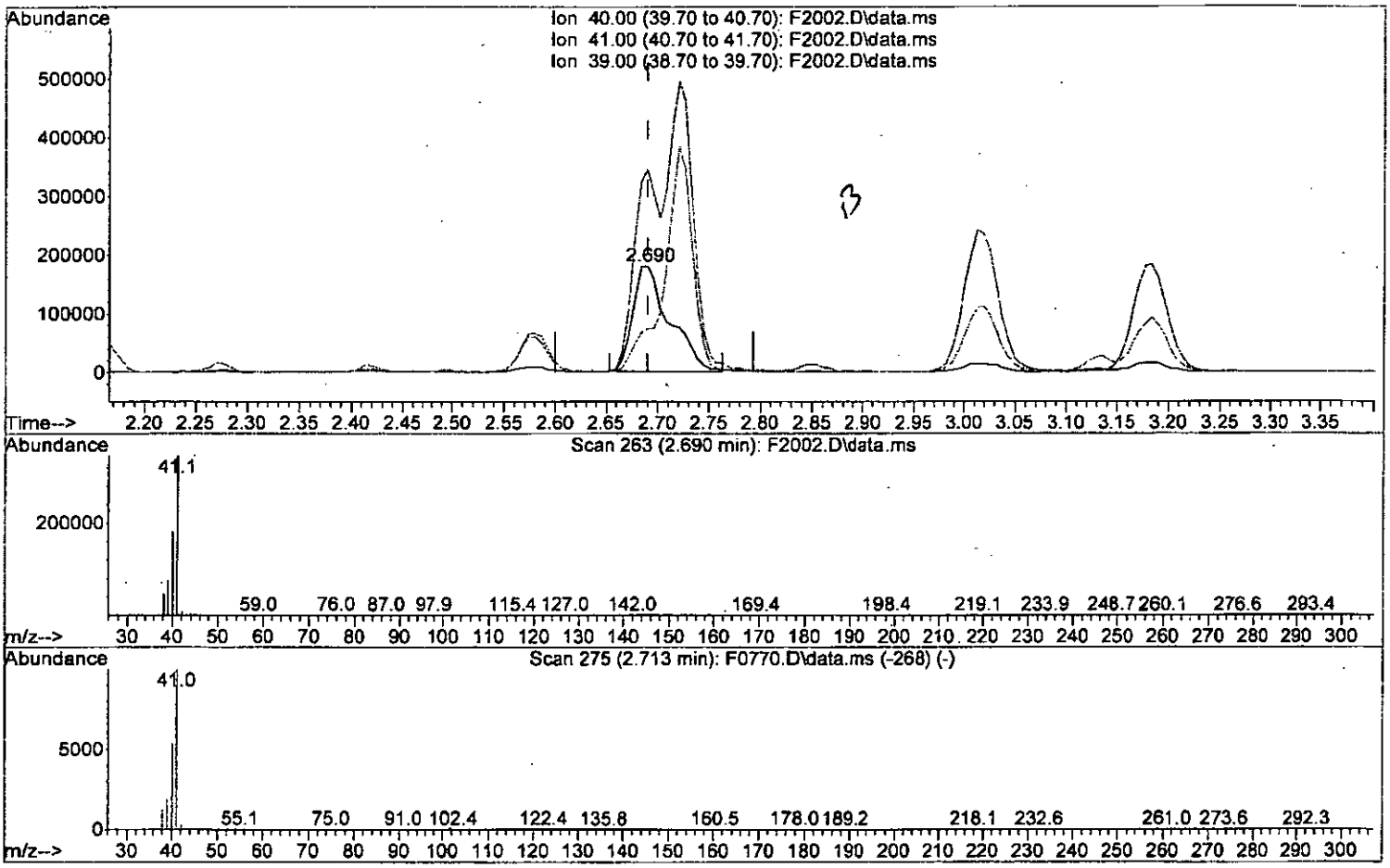
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	2077714	52.07 ug/L	98
95)	2-Chlorotoluene	11.311	91	1237513	50.64 ug/L	99
96)	3-Chlorotoluene	11.365	91	1312132	51.67 ug/L	99
97)	4-Chlorotoluene	11.408	91	1474818	50.89 ug/L	96
98)	1,3,5-Trimethylbenzene	11.402	105	1444690	51.06 ug/L	96
99)	tert-Butylbenzene	11.670	119	1238103	51.46 ug/L	98
100)	1,2,4-Trimethylbenzene	11.713	105	1468007	50.88 ug/L	95
101)	3,4-Dichlorobenzotrifl...	11.774	214	470234	47.31 ug/L	96
102)	sec-Butylbenzene	11.853	105	1844227	52.63 ug/L	98
103)	p-Isopropyltoluene	11.975	119	1541663	51.80 ug/L	95
104)	1,3-Dclbenz	11.932	146	865612	49.53 ug/L	98
105)	1,4-Dclbenz	12.006	146	880248	46.99 ug/L	95
106)	2,4-Dichlorobenzotrifl...	12.060	214	439881	47.64 ug/L	97
107)	2,5-Dichlorobenzotrifl...	12.103	214	493602	49.60 ug/L	96
108)	n-Butylbenzene	12.304	91	1531681	52.43 ug/L	97
109)	1,2-Dclbenz	12.310	146	871600	49.44 ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.932	157	155782	55.34 ug/L	94
111)	Trielution Dichlorotol...	13.048	125	2481738	156.93 ug/L	97
112)	1,3,5-Trichlorobenzene	13.103	180	711246	49.64 ug/L	95
113)	Coelution Dichlorotoluene	13.377	125	1864229	106.77 ug/L	96
114)	1,2,4-Tcbenzene	13.584	180	708940	50.30 ug/L	96
115)	Hexachlorobt	13.719	225	297246	50.78 ug/L	99
116)	Naphthalen	13.773	128	2171036	55.62 ug/L	97
117)	1,2,3-Tclbenzene	13.962	180	714906	51.20 ug/L	97
118)	2,4,5-Trichlorotoluene	14.548	159	576225	53.26 ug/L	95
119)	2,3,6-Trichlorotoluene	14.633	159	505265	51.58 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:28:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2002.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 318.42 ug/L

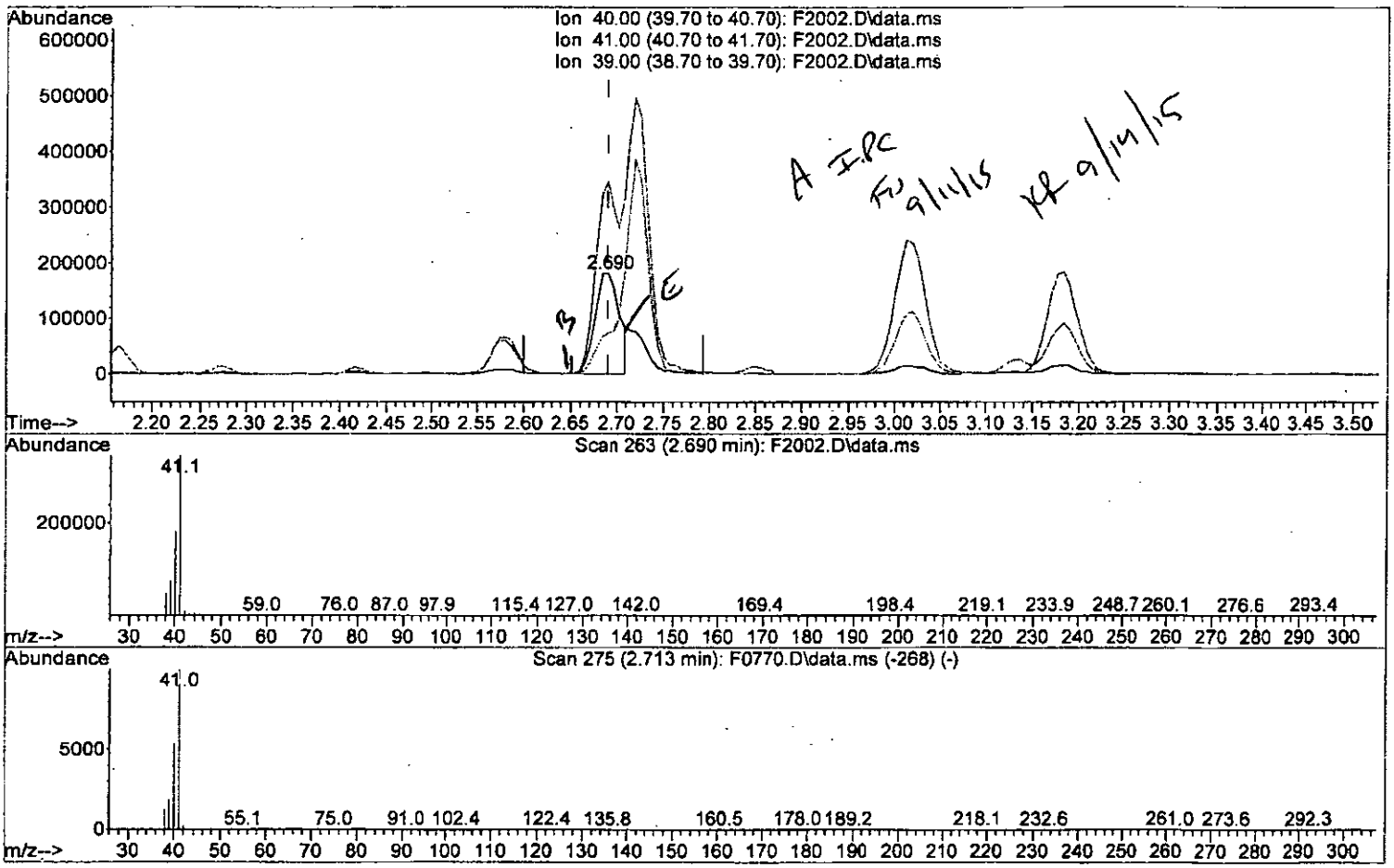
response 440457

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	190.48
39.00	35.30	40.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:28:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2002.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 242.80 ug/L m

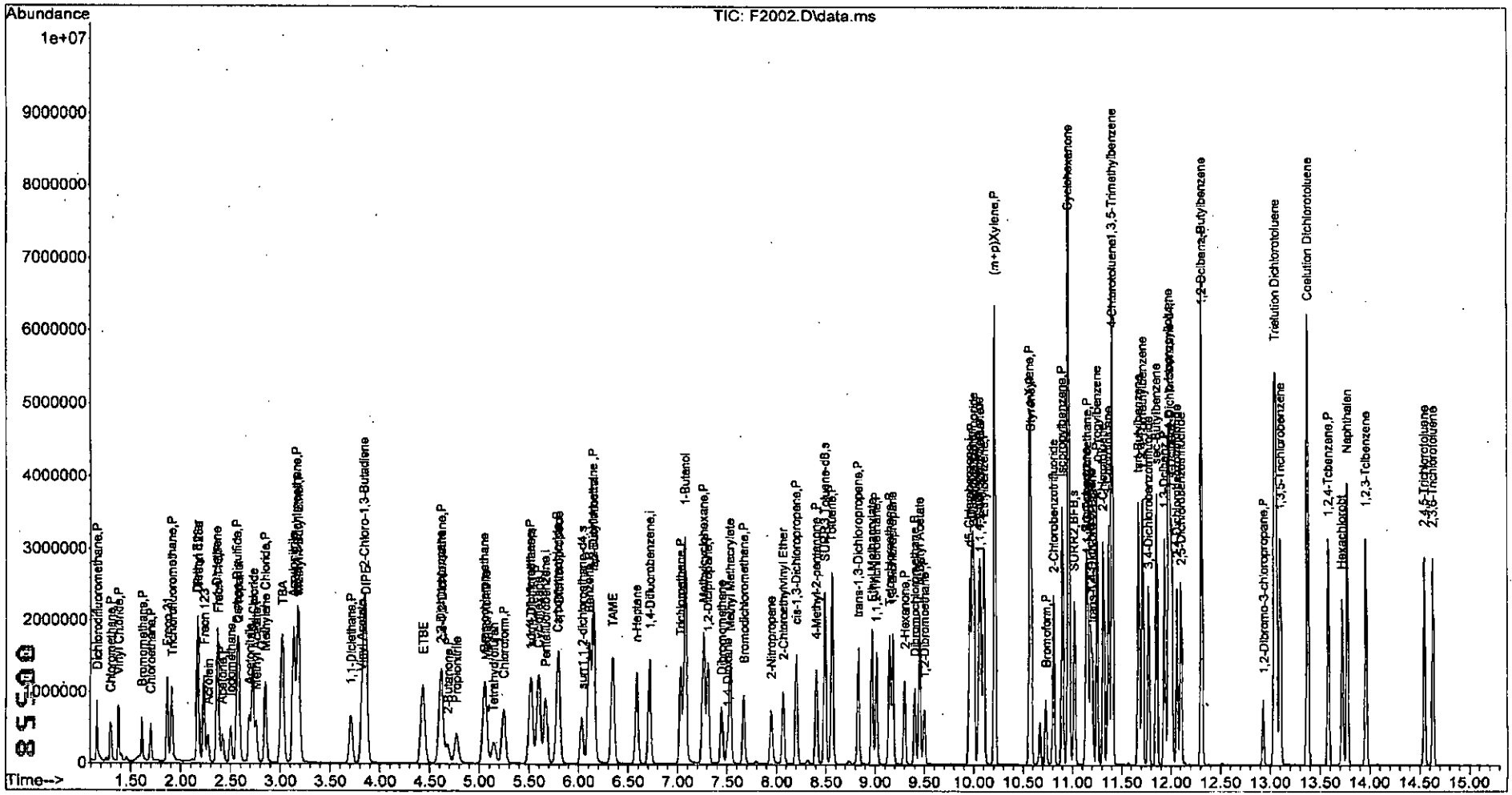
response 335848

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	190.48
39.00	35.30	40.96
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F2002.D
Acq On : 10 Sep 2015 10:08 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 10:29:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/ 8/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\100815\F2914.D\

Calibration Date: 9/10/15
Calibration ID: RC1500091
Analysis Lot: 465971
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	46.6	0.3582	0.3339	-6.8	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	42.9	0.7563	0.6484	-14.3	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	43.9	NA	NA	NA	-12.3	± 20 %	Linear
1,1,2-Trichloroethane	50.0	46.5	0.3308	0.3079	-6.9	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	47.7	0.9591	0.9150	-4.6	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.3	0.4091	0.3702	-9.5	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	46.4	0.4503	0.4182	-7.1	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	48.2	1.260	1.214	-3.6	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	42.9	0.3313	0.2843	-14.2	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	46.7	1.272	1.187	-6.7	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	50.3	2.604	2.619	0.6	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	41.4	0.2540	0.2102	-17.2	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	45.8	0.4077	0.3737	-8.3	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	47.0	1.591	1.495	-6.0	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	44.5	0.6042	0.5373	-11.1	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	50.2	0.3899	0.3912	0.3	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	50.8	2.553	2.594	1.6	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	48.5	1.577	1.530	-3.0	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	47.0	0.6616	0.6214	-6.1	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	45.9	1.691	1.551	-8.3	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	43.3	0.7109	0.6158	-13.4	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	48.3	0.5384	0.5203	-3.4	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	48.4	2.205	2.135	-3.2	NA	± 20 %	Average RF
2-Hexanone	50.0	48.0	0.6051	0.5803	-4.1	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	691	0.1253	0.08656	-30.9 *	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	48.4	2.615	2.531	-3.2	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	51.9	2.686	2.785	3.7	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	47.3	0.7046	0.6661	-5.5	NA	± 20 %	Average RF
Acetone	50.0	45.1	0.4277	0.3860	-9.7	NA	± 20 %	Average RF
Benzene	50.0	47.5	1.339	1.273	-4.9	NA	± 20 %	Average RF
Bromobenzene	50.0	47.9	0.8371	0.8022	-4.2	NA	± 20 %	Average RF
Bromochloromethane	50.0	49.4	0.3268	0.3229	-1.2	NA	± 20 %	Average RF
Bromodichloromethane	50.0	43.3	0.4587	0.3972	-13.4	NA	± 20 %	Average RF
Bromoform	50.0	41.3	0.2925	0.2414	-17.5	NA	± 20 %	Average RF
Bromomethane	50.0	58.4	NA	NA	NA	16.9	± 20 %	Quadratic
Carbon Tetrachloride	50.0	44.3	0.1347	0.1194	-11.4	NA	± 20 %	Average RF
Chlorobenzene	50.0	47.7	1.039	0.9919	-4.5	NA	± 20 %	Average RF
Chloroethane	50.0	54.2	0.3129	0.3395	8.5	NA	± 20 %	Average RF
Chloroform	50.0	46.6	0.8646	0.8059	-6.8	NA	± 20 %	Average RF
Chloromethane	50.0	64.7	0.6035	0.7804	29.3 *	NA	± 20 %	Average RF
Dibromochloromethane	50.0	47.1	0.3832	0.3610	-5.8	NA	± 20 %	Average RF

00559

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/ 8/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\100815\F2914.D\

Calibration Date: 9/10/15
Calibration ID: RC1500091
Analysis Lot: 465971
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	51.1	0.4428	0.4523	2.1	NA	± 20 %	Average RF
Methylene Chloride	50.0	45.3	0.5125	0.4639	-9.5	NA	± 20 %	Average RF
Ethylbenzene	50.0	48.2	0.5528	0.5326	-3.7	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	50.6	0.5282	0.5340	1.1	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	49.8	1.667	1.660	-0.4	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	45.5	1.697	1.545	-8.9	NA	± 20 %	Average RF
Naphthalene	50.0	49.1	3.522	3.456	-1.9	NA	± 20 %	Average RF
Styrene	50.0	50.7	1.104	1.118	1.3	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	46.8	0.3223	0.3014	-6.5	NA	± 20 %	Average RF
Toluene	50.0	47.9	1.394	1.337	-4.1	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	45.5	0.3973	0.3616	-9.0	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	50.8	0.6721	0.6828	1.6	NA	± 20 %	Average RF
Vinyl Chloride	50.0	58.6	0.5223	0.6120	17.2	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	46.8	0.5234	0.4896	-6.4	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	48.2	0.5394	0.5199	-3.6	NA	± 20 %	Average RF
m,p-Xylenes	100	101	0.6504	0.6539	0.5	NA	± 20 %	Average RF
n-Butylbenzene	50.0	50.9	2.636	2.683	1.8	NA	± 20 %	Average RF
n-Propylbenzene	50.0	50.7	3.601	3.650	1.4	NA	± 20 %	Average RF
o-Xylene	50.0	47.4	0.6773	0.6419	-5.2	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	51.9	3.162	3.283	3.8	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	51.6	2.171	2.238	3.1	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	48.1	0.4501	0.4331	-3.8	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	45.4	0.4982	0.4519	-9.3	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	47.4	0.4856	0.4606	-5.1	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.8	0.3226	0.3151	-2.3	NA	± 20 %	Average RF
Toluene-d8	50.0	50.5	1.176	1.186	0.9	NA	± 20 %	Average RF

00560

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:02:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 10/8/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	88	0.00	
2	P	Dichlorodifluoromethane	0.4428	0.4523	-2.1	78	0.00	
3	P	Chloromethane	0.6035	0.7804	-29.3#	110	0.00	(1)
4	P	Vinyl Chloride	0.5223	0.6120	-17.2	97	0.00	
5	P	Bromomethane	0.2948	0.2674	-16.9 ~~9.3~~	100	0.00	
6	P	Chloroethane	0.3129	0.3395	-8.5	91	0.01	
7		Freon 21	0.8860	0.9248	-4.4	91	0.00	
8	P	Trichlorofluoromethane	0.6721	0.6828	-1.6	84	0.01	
9		Diethyl Ether	0.4916	0.5476	-11.4	92	0.00	
10		Freon 123a	0.5881	0.5829	0.9	85	0.00	
11		Freon 123	0.6050	0.6025	0.4	82	0.00	
12		Acrolein	0.1599	0.1430	10.6	76	0.00	
13		1,1-Diclethene	0.4091	0.3702	9.5	79	0.00	
14	P	Freon 113	0.4565	0.4332	5.1	82	0.00	
15	P	Acetone	0.4277	0.3860	9.7	82	0.00	
16		2-Propanol	0.0907	0.0702	-22.6#	65	-0.02	(2)
17		Iodomethane	0.5227	0.5860	4.4 ~~-12.1~~	79	0.00	
18	P	Carbon Disulfide	1.2488	1.1758	5.8	84	0.00	
19		Acetonitrile	0.0896	0.0832	7.1	83	0.00	
20		Allyl Chloride	0.2608	0.2320	11.0	78	0.00	
21	P	Methyl Acetate	0.7730	0.8026	-3.8	86	0.00	
22	P	Methylene Chloride	0.5125	0.4639	9.5	81	0.00	
23		TBA	0.1253	0.0866	30.9#	58	-0.02	(3)
24		Acrylonitrile	0.3354	0.3603	-7.4	85	0.00	
25	P	Methyl-t-Butyl Ether	1.6965	1.5447	8.9	75	0.00	
26	P	trans-1,2-Dichloroethene	0.4501	0.4331	3.8	83	0.00	
27	P	1,1-Diclethane	0.9591	0.9150	4.6	82	0.00	
28		Vinyl Acetate	0.0969	0.1069	-10.3	89	0.00	
29		DIPE	2.2005	2.5151	-14.3	99	0.00	
30		2-Chloro-1,3-Butadiene	1.0503	1.0948	-4.2	88	0.00	
31		ETBE	1.8352	1.8009	1.9	83	0.00	
32		2,2-Dichloropropane	0.7109	0.6158	13.4	72	0.00	
33	P	cis-1,2-Dichloroethene	0.5234	0.4896	6.5	82	0.00	
34	P	2-Butanone	0.5384	0.5203	3.4	85	0.00	
35		Propionitrile	0.1444	0.1378	4.6	80	-0.01	
36		Bromochloromethane	0.3268	0.3229	1.2	84	0.00	
37		Methacrylonitrile	0.3144	0.2715	13.6	78	-0.01	
38		Tetrahydrofuran	0.3707	0.3396	8.4	88	0.00	
39	P	Chloroform	0.8646	0.8059	6.8	76	0.00	
40	P	1,1,1-Trichloroethane	0.7563	0.6484	14.3	70	0.00	
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	88	0.00	
42	P	Cyclohexane	0.4989	0.5126	-2.7	95	0.00	
43	s	surr4,Dibrflmethane	0.3226	0.3151	2.3	84	0.00	
44	P	Carbontetrachloride	0.1347	0.1194	11.4	72	0.00	
45		1,1-Dichloropropene	0.4503	0.4182	7.1	79	0.00	
46	s	surr1,1,2-dichloroethane-d4	0.4574	0.4203	8.1	79	0.00	

00561

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:02:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47	P	Benzene	1.3388	1.2729	4.9	80	0.00	
48	P	1,2-Dichloroethane	0.6042	0.5373	11.1	75	0.00	
49		Iso-Butyl Alcohol	0.0456	0.0337	26.1#	64	-0.02	(4)
50		TAME	1.0936	0.9809	10.3	77	0.00	
51		n-Heptane	0.6365	0.7826	-23.0#	110	0.00	NT
52		1-Butanol	0.0242	0.0180	25.6#	61	-0.02	NT
53	P	Trichloroethene	0.3973	0.3616	9.0	81	0.00	
54	P	Methylcyclohexane	0.5532	0.5917	-7.0	97	0.00	
55	P	1,2-Diclpropane	0.3899	0.3912	-0.3	85	0.00	
56		Dibromomethane	0.2371	0.2119	10.6	75	0.00	
57		1,4-Dioxane	0.0085	0.0064	24.7#	68	-0.01	(5)
58		Methyl Methacrylate	0.3242	0.2880	11.2	75	0.00	
59	P	Bromodichloromethane	0.4587	0.3972	13.4	71	0.00	
60		2-Nitropropane	0.1656	0.0748	54.8#	39#	0.00	NT
61		2-Chloroethylvinyl Ether	0.2903	0.2628	9.5	76	0.00	
62	P	cis-1,3-Dichloropropene	0.5394	0.5199	3.6	79	0.00	
63	P	4-Methyl-2-pentanone	0.7046	0.6661	5.5	83	0.00	
64	s	SURR3,Toluene-d8	1.1758	1.1864	-0.9	85	0.00	
65	P	Toluene	1.3943	1.3366	4.1	80	0.00	
66	P	trans-1,3-Dichloropropene	0.4982	0.4519	9.3	73	0.00	
67		Ethyl Methacrylate	0.5591	0.5053	9.6	74	0.00	
68	P	1,1,2-Trichloroethane	0.3308	0.3079	6.9	78	0.00	
69	s	SURR2,BFB	0.4856	0.4606	5.1	82	0.00	
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	88	0.00	
71	P	Tetrachloroethene	0.3223	0.3014	6.5	81	0.00	
72	P	2-Hexanone	0.6051	0.5803	4.1	82	0.00	
73		1,3-Dichloropropane	0.6616	0.6214	6.1	80	0.00	
74	P	Dibromochloromethane	0.3832	0.3610	5.8	74	0.00	
75		N-Butyl Acetate	1.0872	1.0721	1.4	79	0.00	
76	P	1,2-Dibromoethane	0.4077	0.3737	8.3	77	0.00	
77		3-Chlorobenzotrifluoride	~~0.6049~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
78	P	Chlorobenzene	1.0389	0.9919	4.5	80	0.00	
79		4-Chlorobenzotrifluoride	~~0.5369~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
80		1,1,1,2-Tetrachloroethane	0.3582	0.3339	6.8	73	0.00	
81	P	Ethylbenzene	0.5528	0.5326	3.7	81	0.00	
82	P	(m+p)Xylene	0.6504	0.6539	-0.5	82	0.00	
83	P	o-Xylene	0.6773	0.6419	5.2	83	0.00	
84	P	Styrene	1.1037	1.1183	-1.3	83	0.00	
85	P	Bromoform	0.2925	0.2414	17.5	66	0.00	
86		2-Chlorobenzotrifluoride	~~0.6002~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
87	P	Isopropylbenzene	1.6665	1.6602	0.4	82	0.00	
88		Cyclohexanone	0.1151	0.1152	-0.1	79	0.00	
89		trans-1,4-Dichloro-2-Butene	0.2069	0.1858	10.2	77	0.00	
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	85	0.00	
91	P	1,1,2,2-Tetrachloroethane	0.8529	0.8314	12.3 ~~2.5~~	71	0.00	

00562

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:02:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.8371	0.8022	4.2	80	0.00
93		1,2,3-Trichloropropane	0.3313	0.2843	14.2	73	0.00
94		n-Propylbenzene	3.6007	3.6496	-1.4	80	0.00
95		2-Chlorotoluene	2.2052	2.1352	3.2	78	0.00
96		3-Chlorotoluene	2.2914	0.0000	100.0#	0#	-11.37#
97		4-Chlorotoluene	2.6150	2.5306	3.2	77	0.00
98		1,3,5-Trimethylbenzene	2.5533	2.5941	-1.6	81	0.00
99		tert-Butylbenzene	2.1710	2.2381	-3.1	82	0.00
100		1,2,4-Trimethylbenzene	2.6037	2.6194	-0.6	81	0.00
101		3,4-Dichlorobenzotrifluorid	0.8969	0.0000	100.0#	0#	0.00
102		sec-Butylbenzene	3.1619	3.2831	-3.8	81	0.00
103		p-Isopropyltoluene	2.6860	2.7854	-3.7	83	0.00
104	P	1,3-Dclbenz	1.5772	1.5299	3.0	81	0.00
105	P	1,4-Dclbenz	1.6906	1.5505	8.3	80	0.00
106		2,4-Dichlorobenzotrifluorid	0.8332	0.0000	100.0#	0#	-0.02
107		2,5-Dichlorobenzotrifluorid	0.8980	0.0000	100.0#	0#	0.01
108		n-Butylbenzene	2.6363	2.6829	-1.8	80	0.00
109	P	1,2-Dclbenz	1.5910	1.4954	6.0	78	0.00
110	P	1,2-Dibromo-3-chloropropane	0.2540	0.2102	17.2	64	0.00
111		Trielution Dichlorotoluene	1.4271	0.0001	100.0#	0#	-0.01
112		1,3,5-Trichlorobenzene	1.2929	0.0000	100.0#	0#	0.00
113		Coelution Dichlorotoluene	1.5755	0.0002	100.0#	0#	0.00
114	P	1,2,4-Tcbenzene	1.2719	1.1869	6.7	79	0.00
115		Hexachlorobt	0.5282	0.5340	-1.1	80	0.00
116		Naphthalen	3.5221	3.4556	1.9	76	0.00
117		1,2,3-Tclbenzene	1.2601	1.2143	3.6	79	0.00
118		2,4,5-Trichlorotoluene	0.9763	0.0002	100.0#	0#	-0.02
119		2,3,6-Trichlorotoluene	0.8839	0.0000	100.0#	0#	0.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0

00563

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:02:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FJ 10/8/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	686799	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	989364	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	873476	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	473792	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	311776	48.84	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.68%			
46) surr1,1,2-dichloroetha...	6.031	65	415827	45.94	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.88%			
64) SURR3,Toluene-d8	8.488	98	1173766	50.45	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.90%			
69) SURR2,BFB	11.018	95	455711	47.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	310618	51.07	ug/L	98
3) Chloromethane	1.294	50	535994	64.66	ug/L	99
4) Vinyl Chloride	1.379	62	420338	58.59	ug/L	98
5) Bromomethane	1.617	94	183642	58.43	ug/L	100
6) Chloroethane	1.703	64	233171	54.24	ug/L	92
7) Freon 21	1.867	67	635118	52.19	ug/L	96
8) Trichlorofluoromethane	1.916	101	468946	50.80	ug/L	98
9) Diethyl Ether	2.166	59	376058	55.70	ug/L	89
10) Freon 123a	2.172	67	400357	49.56	ug/L	95
11) Freon 123	2.233	83	413829	49.80	ug/L	99
12) Acrolein	2.269	56	491000	223.58	ug/L	97
13) 1,1-Diclethene	2.367	96	254260	45.25	ug/L	97
14) Freon 113	2.373	101	297510	47.44	ug/L	98
15) Acetone	2.416	43	265118	45.13	ug/L	96
16) 2-Propanol	2.574	45	963743	773.41	ug/L	97
17) Iodomethane	2.501	142	402483	47.82	ug/L	97
18) Carbon Disulfide	2.562	76	807522	47.08	ug/L	99
19) Acetonitrile	2.684	40	285600m	232.18	ug/L	
20) Allyl Chloride	2.721	76	159332	44.48	ug/L #	11
21) Methyl Acetate	2.757	43	551235	51.91	ug/L	98
22) Methylene Chloride	2.849	84	318580	45.25	ug/L	89
23) TBA	3.013	59	1189012	690.75	ug/L	87
24) Acrylonitrile	3.129	53	1237372	268.57	ug/L	100
25) Methyl-t-Butyl Ether	3.184	73	1060880	45.53	ug/L	99
26) trans-1,2-Dichloroethene	3.166	96	297482	48.12	ug/L	98
27) 1,1-Diclethane	3.708	63	628438	47.70	ug/L	99
28) Vinyl Acetate	3.818	86	73389	55.14	ug/L #	90
29) DIPE	3.855	45	1727344	57.15	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.836	53	751903	52.12	ug/L	97
31) ETBE	4.434	59	1236888	49.07	ug/L	98
32) 2,2-Dichloropropane	4.611	77	422933	43.31	ug/L	95
33) cis-1,2-Dichloroethene	4.623	96	336287	46.78	ug/L #	82
34) 2-Butanone	4.684	43	357321	48.32	ug/L	98
35) Propionitrile	4.769	54	473163	238.63	ug/L	97

00564

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:02:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	221784	49.40	ug/L		97
37) Methacrylonitrile	5.056	67	186434	43.17	ug/L	#	77
38) Tetrahydrofuran	5.141	42	233214	45.80	ug/L		98
39) Chloroform	5.245	83	553471	46.60	ug/L		96
40) 1,1,1-Trichloroethane	5.519	97	445351	42.87	ug/L		92
42) Cyclohexane	5.592	41	507194	51.37	ug/L		98
44) Carbontetrachloride	5.787	121	118086	44.29	ug/L		96
45) 1,1-Dichloropropene	5.793	75	413733	46.44	ug/L		97
47) Benzene	6.104	78	1259401	47.54	ug/L		88
48) 1,2-Dichloroethane	6.147	62	531617	44.47	ug/L		97
49) Iso-Butyl Alcohol	6.147	43	667763	739.79	ug/L		99
50) TAME	6.342	73	970485	44.85	ug/L		98
51) n-Heptane	6.586	43	774256	61.47	ug/L		95
52) 1-Butanol	7.073	56	892519	1866.38	ug/L		89
53) Trichloroethene	7.031	130	357706	45.50	ug/L		96
54) Methylcyclohexane	7.262	55	585449	53.48	ug/L		97
55) 1,2-Diclpropane	7.305	63	387011	50.16	ug/L		95
56) Dibromomethane	7.445	93	209650	44.69	ug/L		91
57) 1,4-Dioxane	7.500	88	125764	750.49	ug/L		92
58) Methyl Methacrylate	7.531	69	284925	44.42	ug/L	#	84
59) Bromodichloromethane	7.665	83	393002	43.30	ug/L		99
60) 2-Nitropropane	7.945	41	147999	45.16	ug/L		100
61) 2-Chloroethylvinyl Ether	8.067	63	260025	45.26	ug/L		91
62) cis-1,3-Dichloropropene	8.201	75	514338	48.19	ug/L		98
63) 4-Methyl-2-pentanone	8.402	43	659056	47.27	ug/L		96
65) Toluene	8.561	91	1322386	47.93	ug/L		97
66) trans-1,3-Dichloropropene	8.829	75	447120	45.36	ug/L		99
67) Ethyl Methacrylate	8.963	69	499969	45.20	ug/L		92
68) 1,1,2-Trichloroethane	9.012	97	304596	46.54	ug/L		87
71) Tetrachloroethene	9.146	164	263299	46.77	ug/L		89
72) 2-Hexanone	9.299	43	506902	47.95	ug/L		95
73) 1,3-Dichloropropane	9.177	76	542775	46.96	ug/L		95
74) Dibromochloromethane	9.402	129	315367	47.11	ug/L		98
75) N-Butyl Acetate	9.451	43	936428	49.30	ug/L		95
76) 1,2-Dibromoethane	9.494	107	326426	45.83	ug/L		98
78) Chlorobenzene	9.981	112	866390	47.74	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.067	131	291678	46.61	ug/L		94
81) Ethylbenzene	10.103	106	465222	48.17	ug/L		95
82) (m+p)Xylene	10.213	106	1142365	100.54	ug/L		95
83) o-Xylene	10.567	106	560651	47.38	ug/L		94
84) Styrene	10.579	104	976835	50.67	ug/L		98
85) Bromoform	10.731	173	210864	41.27	ug/L		97
87) Isopropylbenzene	10.896	105	1450187	49.81	ug/L		98
88) Cyclohexanone	10.957	55	2011868	1000.65	ug/L		89
89) trans-1,4-Dichloro-2-B...	11.201	53	162260	44.90	ug/L		95
91) 1,1,2,2-Tetrachloroethane	11.152	83	393905	43.86	ug/L		95
92) Bromobenzene	11.140	156	380092	47.92	ug/L		91
93) 1,2,3-Trichloropropane	11.182	110	134689	42.90	ug/L		97
94) n-Propylbenzene	11.249	91	1729138	50.68	ug/L		98
95) 2-Chlorotoluene	11.310	91	1011660	48.41	ug/L		99
97) 4-Chlorotoluene	11.402	91	1198994	48.39	ug/L		98

00565

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:02:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

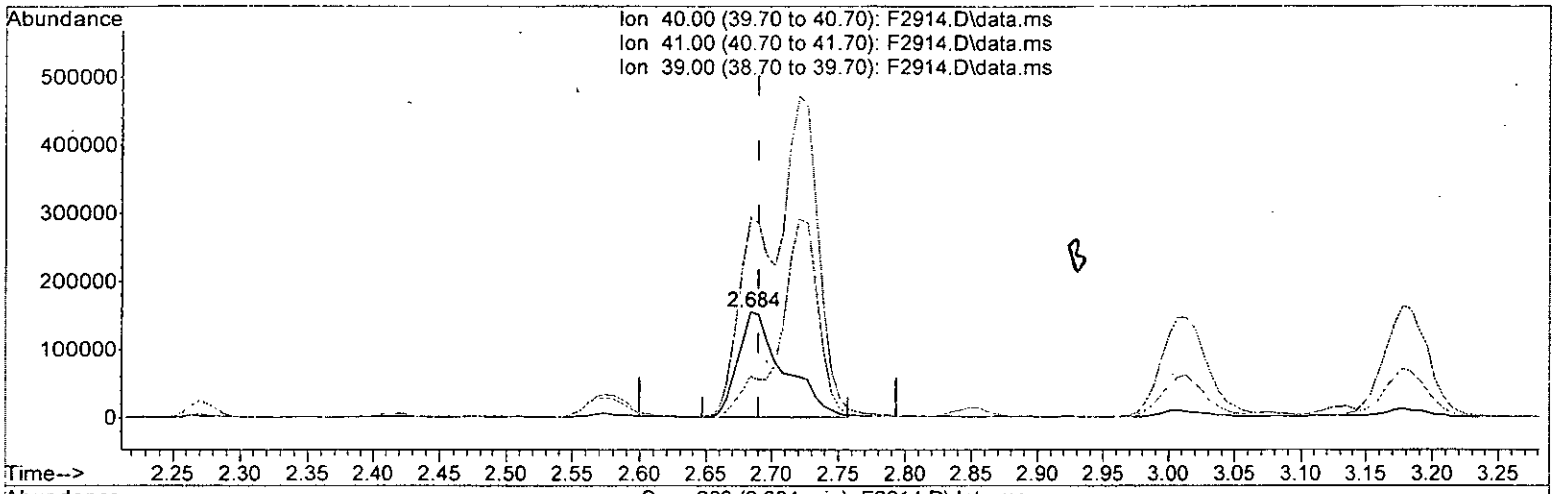
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	1,3,5-Trimethylbenzene	11.402	105	1229051	50.80	ug/L	98
99)	tert-Butylbenzene	11.670	119	1060414	51.55	ug/L	99
100)	1,2,4-Trimethylbenzene	11.713	105	1241036	50.30	ug/L	94
102)	sec-Butylbenzene	11.853	105	1555510	51.92	ug/L	98
103)	p-Isopropyltoluene	11.975	119	1319677	51.85	ug/L	97
104)	1,3-Dclbenz	11.932	146	724839	48.50	ug/L	98
105)	1,4-Dclbenz	12.005	146	734636	45.86	ug/L	97
108)	n-Butylbenzene	12.304	91	1271147	50.89	ug/L	99
109)	1,2-Dclbenz	12.310	146	708529	47.00	ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.926	157	99594	41.38	ug/L	81
114)	1,2,4-Tcbenzene	13.584	180	562340	46.66	ug/L	98
115)	Hexachlorobt	13.718	225	253021	50.55	ug/L	97
116)	Naphthalen	13.773	128	1637235	49.06	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	575325	48.18	ug/L	96

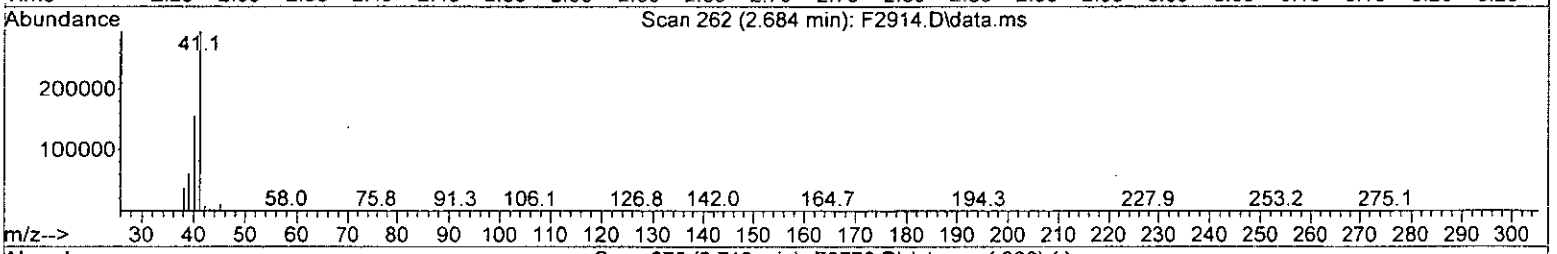
(#) = qualifier out of range (m) = manual integration (+) = signals summed

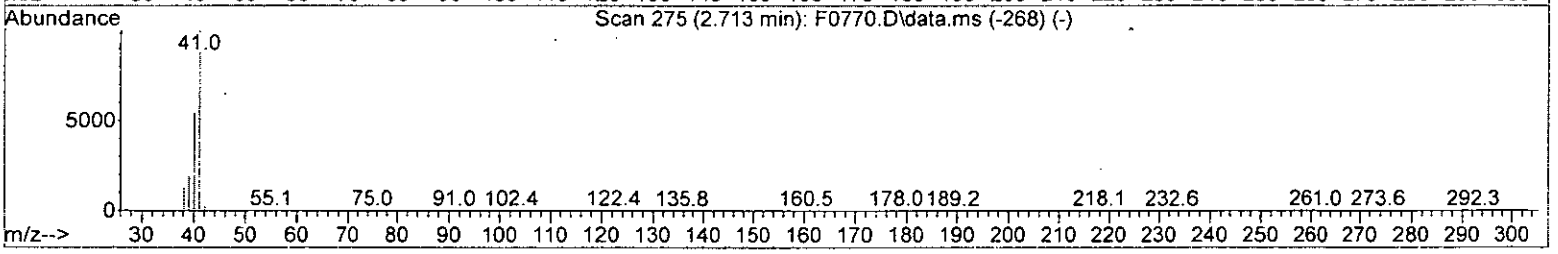
00566

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:00:04 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2914.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 301.43 ug/L

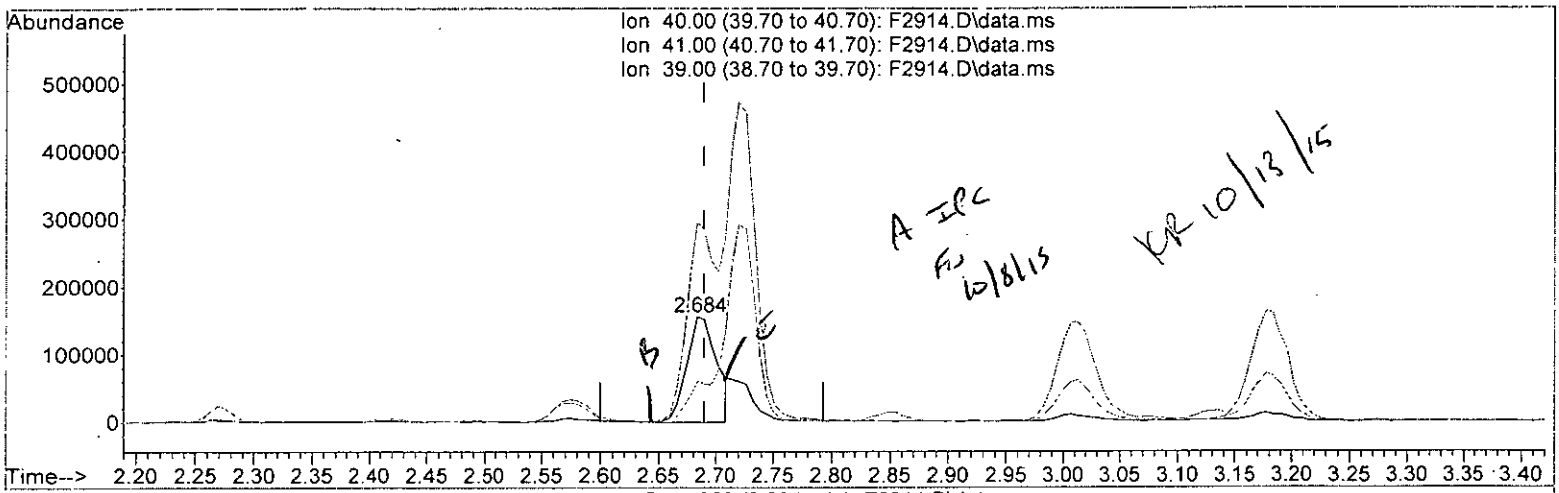
response 370789

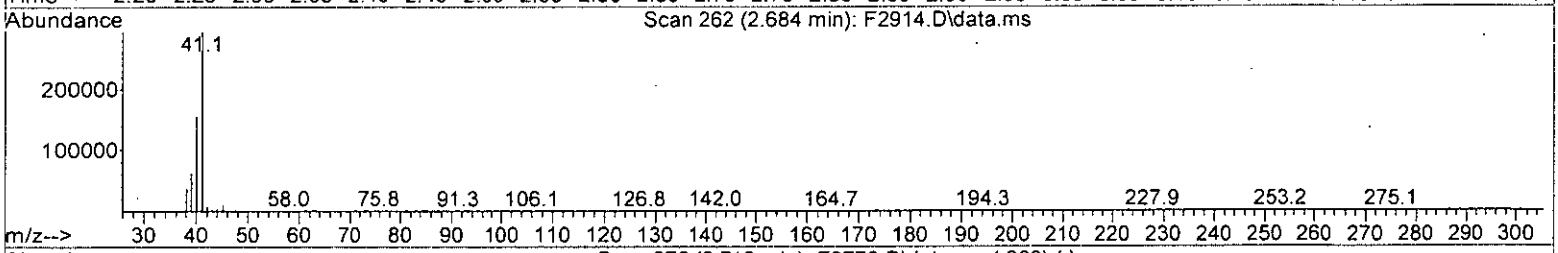
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	189.49
39.00	35.30	39.35
0.00	0.00	0.00

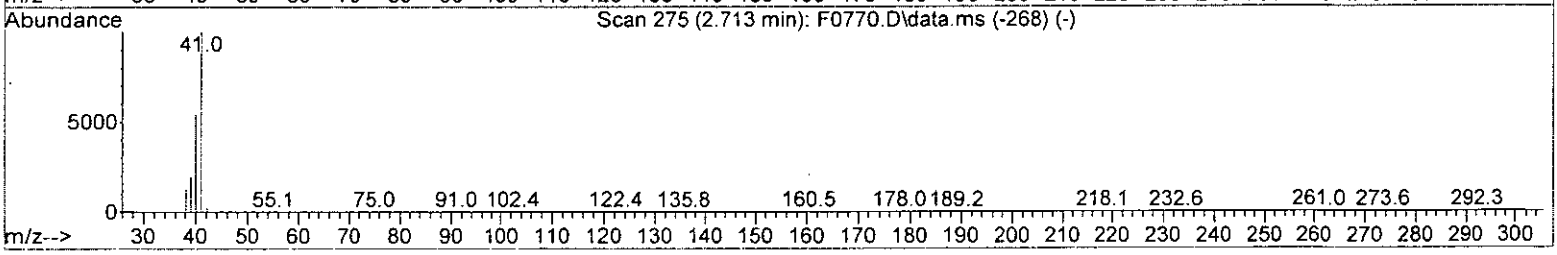
00567

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:00:04 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2914.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 232.18 ug/L m

response 285600

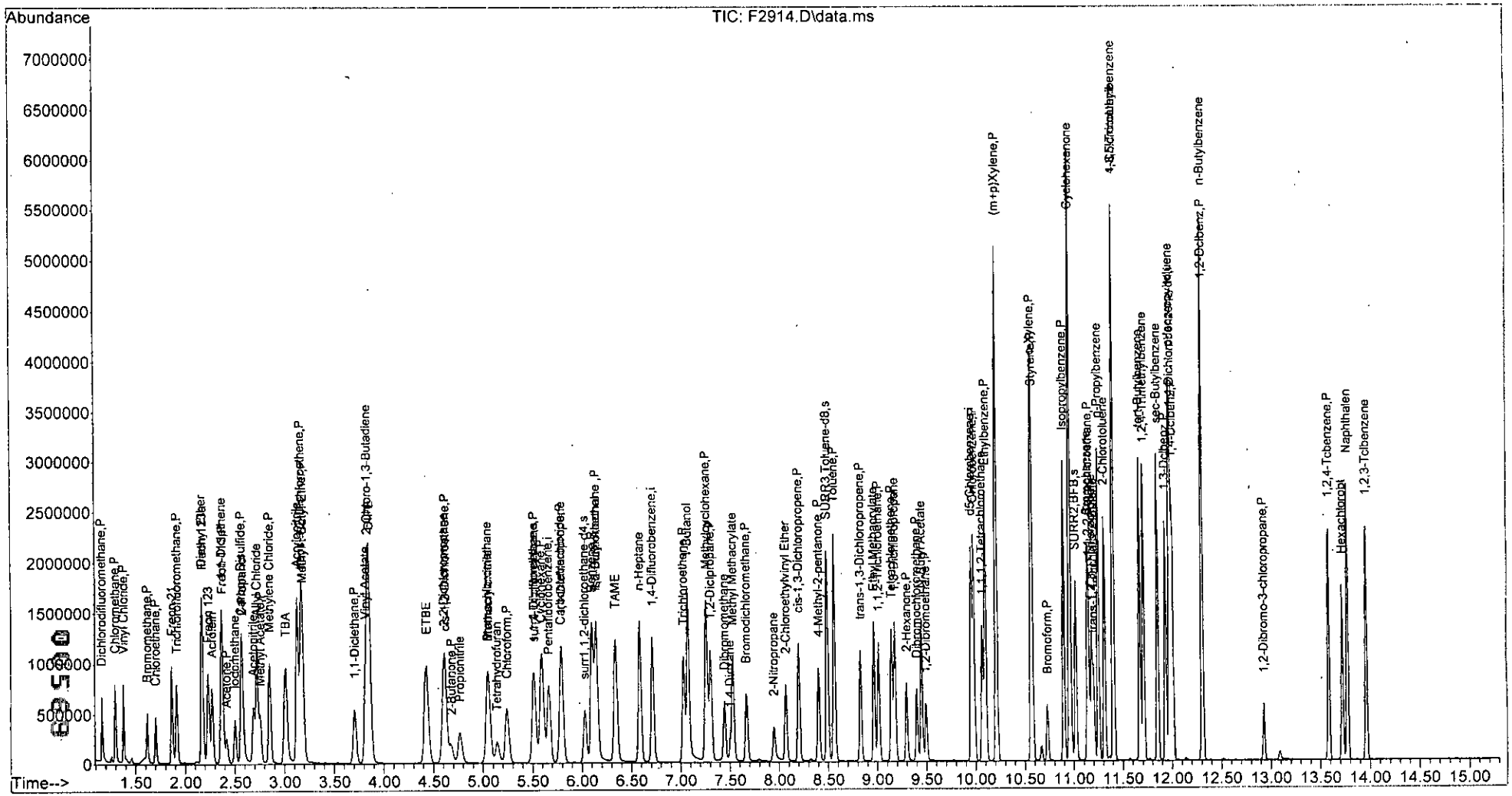
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	189.49
39.00	35.30	39.35
0.00	0.00	0.00

00568

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2914.D
Acq On : 8 Oct 2015 10:45 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 08 11:02:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/ 9/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\100915\F2971.D\

Calibration Date: 9/10/15
Calibration ID: RC1500091
Analysis Lot: 466298
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	44.9	0.3582	0.3213	-10.3	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	41.8	0.7563	0.6326	-16.4	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	43.9	NA	NA	NA	-12.2	± 20 %	Linear
1,1,2-Trichloroethane	50.0	44.5	0.3308	0.2943	-11.0	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	46.6	0.9591	0.8943	-6.8	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	42.4	0.4091	0.3469	-15.2	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	46.6	0.4503	0.4195	-6.8	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	47.1	1.260	1.188	-5.7	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	42.4	0.3313	0.2812	-15.1	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	47.3	1.272	1.202	-5.5	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	50.3	2.604	2.620	0.6	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	42.9	0.2540	0.2180	-14.2	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	43.9	0.4077	0.3578	-12.2	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	46.6	1.591	1.484	-6.7	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	43.6	0.6042	0.5268	-12.8	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	48.3	0.3899	0.3769	-3.3	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	49.7	2.553	2.536	-0.7	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	47.5	1.577	1.498	-5.0	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	44.7	0.6616	0.5912	-10.6	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	45.5	1.691	1.539	-9.0	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	42.5	0.7109	0.6037	-15.1	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	50.8	0.5384	0.5466	1.5	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	47.7	2.205	2.105	-4.5	NA	± 20 %	Average RF
2-Hexanone	50.0	47.8	0.6051	0.5789	-4.3	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	696	0.1253	0.08723	-30.4 *	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	47.6	2.615	2.487	-4.9	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	51.8	2.686	2.783	3.6	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	50.2	0.7046	0.7068	0.3	NA	± 20 %	Average RF
Acetone	50.0	43.6	0.4277	0.3725	-12.9	NA	± 20 %	Average RF
Benzene	50.0	46.6	1.339	1.246	-6.9	NA	± 20 %	Average RF
Bromobenzene	50.0	47.1	0.8371	0.7886	-5.8	NA	± 20 %	Average RF
Bromochloromethane	50.0	46.6	0.3268	0.3045	-6.8	NA	± 20 %	Average RF
Bromodichloromethane	50.0	41.6	0.4587	0.3820	-16.7	NA	± 20 %	Average RF
Bromoform	50.0	39.8	0.2925	0.2328	-20.4 *	NA	± 20 %	Average RF
Bromomethane	50.0	45.4	NA	NA	NA	-9.3	± 20 %	Quadratic
Carbon Tetrachloride	50.0	43.6	0.1347	0.1176	-12.7	NA	± 20 %	Average RF
Chlorobenzene	50.0	46.2	1.039	0.9592	-7.7	NA	± 20 %	Average RF
Chloroethane	50.0	55.1	0.3129	0.3448	10.2	NA	± 20 %	Average RF
Chloroform	50.0	43.8	0.8646	0.7566	-12.5	NA	± 20 %	Average RF
Chloromethane	50.0	62.4	0.6035	0.7531	24.8 *	NA	± 20 %	Average RF
Dibromochloromethane	50.0	45.3	0.3832	0.3468	-9.5	NA	± 20 %	Average RF

00570

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/ 9/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\100915\F2971.D\

Calibration Date: 9/10/15
Calibration ID: RC1500091
Analysis Lot: 466298
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	48.3	0.4428	0.4277	-3.4	NA	± 20 %	Average RF
Methylene Chloride	50.0	43.6	0.5125	0.4466	-12.9	NA	± 20 %	Average RF
Ethylbenzene	50.0	46.3	0.5528	0.5117	-7.4	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	50.2	0.5282	0.5298	0.3	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	48.2	1.667	1.606	-3.6	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	43.5	1.697	1.477	-12.9	NA	± 20 %	Average RF
Naphthalene	50.0	48.4	3.522	3.408	-3.2	NA	± 20 %	Average RF
Styrene	50.0	48.8	1.104	1.077	-2.4	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	44.6	0.3223	0.2875	-10.8	NA	± 20 %	Average RF
Toluene	50.0	47.3	1.394	1.319	-5.4	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	43.3	0.3973	0.3438	-13.5	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	49.0	0.6721	0.6589	-2.0	NA	± 20 %	Average RF
Vinyl Chloride	50.0	55.5	0.5223	0.5793	10.9	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	44.6	0.5234	0.4664	-10.9	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	47.1	0.5394	0.5076	-5.9	NA	± 20 %	Average RF
m,p-Xylenes	100	97.6	0.6504	0.6346	-2.4	NA	± 20 %	Average RF
n-Butylbenzene	50.0	49.9	2.636	2.630	-0.3	NA	± 20 %	Average RF
n-Propylbenzene	50.0	48.7	3.601	3.510	-2.5	NA	± 20 %	Average RF
o-Xylene	50.0	46.2	0.6773	0.6263	-7.5	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	51.6	3.162	3.264	3.2	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	51.0	2.171	2.213	1.9	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	45.8	0.4501	0.4124	-8.4	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	44.0	0.4982	0.4379	-12.1	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	46.0	0.4856	0.4465	-8.1	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.3	0.3226	0.3119	-3.3	NA	± 20 %	Average RF
Toluene-d8	50.0	49.4	1.176	1.162	-1.2	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:08:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 10/9/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	88	0.00	
2	P	Dichlorodifluoromethane	0.4428	0.4277	3.4	74	0.00	
3	P	Chloromethane	0.6035	0.7531	-24.8#	107	0.00	(1)
4	P	Vinyl Chloride	0.5223	0.5793	-10.9	93	0.00	
5	P	Bromomethane	0.2948	0.2234	9.3 ~~24.2~~#	84	0.00	
6	P	Chloroethane	0.3129	0.3448	-10.2	93	0.01	
7		Freon 21	0.8860	0.7863	11.3	78	0.00	
8	P	Trichlorofluoromethane	0.6721	0.6589	2.0	82	0.01	
9		Diethyl Ether	0.4916	0.5292	-7.6	90	0.00	
10		Freon 123a	0.5881	0.4794	18.5	70	0.00	
11		Freon 123	0.6050	0.4923	18.6	67	0.00	
12		Acrolein	0.1599	0.1448	9.4	77	0.00	
13		1,1-Diclethene	0.4091	0.3469	15.2	74	0.00	
14	P	Freon 113	0.4565	0.4190	8.2	80	0.00	
15	P	Acetone	0.4277	0.3725	12.9	80	0.00	
16		2-Propanol	0.0907	0.0739	18.5	69	-0.02	
17		Iodomethane	0.5227	0.5050	17.0 ~~3.4~~	69	0.00	
18	P	Carbon Disulfide	1.2488	1.1942	4.4	86	0.00	
19		Acetonitrile	0.0896	0.0911	-1.7	91	0.00	
20		Allyl Chloride	0.2608	0.2305	11.6	78	0.00	
21	P	Methyl Acetate	0.7730	0.8001	-3.5	87	0.00	
22	P	Methylene Chloride	0.5125	0.4466	12.9	79	0.00	
23		TBA	0.1253	0.0872	30.4#	59	-0.02	(2)
24		Acrylonitrile	0.3354	0.3605	-7.5	86	0.00	
25	P	Methyl-t-Butyl Ether	1.6965	1.4770	12.9	72	0.00	
26	P	trans-1,2-Dichloroethene	0.4501	0.4124	8.4	80	0.00	
27	P	1,1-Diclethane	0.9591	0.8943	6.8	81	0.00	
28		Vinyl Acetate	0.0969	0.1110	-14.6	93	0.00	
29		DIPE	~~2.2005~~	~~0.0005~~	~~100.0#~~	~~0#~~	~~0.02~~	
30		2-Chloro-1,3-Butadiene	1.0503	1.1316	-7.7	91	0.00	
31		ETBE	~~1.8352~~	~~0.0004~~	~~100.0#~~	~~0#~~	~~0.00~~	
32		2,2-Dichloropropane	0.7109	0.6037	15.1	71	0.00	
33	P	cis-1,2-Dichloroethene	0.5234	0.4664	10.9	78	0.00	
34	P	2-Butanone	0.5384	0.5466	-1.5	90	0.00	
35		Propionitrile	0.1444	0.1426	1.2	83	-0.01	
36		Bromochloromethane	0.3268	0.3045	6.8	80	0.00	
37		Methacrylonitrile	0.3144	0.2650	15.7	77	0.00	
38		Tetrahydrofuran	0.3707	0.3247	12.4	85	0.00	
39	P	Chloroform	0.8646	0.7566	12.5	72	0.00	
40	P	1,1,1-Trichloroethane	0.7563	0.6326	16.4	69	0.00	
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	88	0.00	
42	P	Cyclohexane	0.4989	0.4170	16.4	77	0.00	
43	s	surr4,Dibrflmethane	0.3226	0.3119	3.3	83	0.00	
44	P	Carbontetrachloride	0.1347	0.1176	12.7	70	0.00	
45		1,1-Dichloropropene	0.4503	0.4195	6.8	79	0.00	
46	s	surr1,1,2-dichloroethane-d4	0.4574	0.4137	9.6	78	0.00	

00572

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:08:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47	P	Benzene	1.3388	1.2463	6.9	78	0.00	
48	P	1,2-Dichloroethane	0.6042	0.5268	12.8	73	0.00	
49		Iso-Butyl Alcohol	0.0456	0.0357	21.7#	67	-0.02	NT
50		TAME	~~1.0936~~	~~0.0003~~	~~100.0#~~	~~0#~~	~~0.07~~	
51		n-Heptane	0.6365	0.7781	-22.2#	109	0.00	NT
52		1-Butanol	~~0.0242~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
53	P	Trichloroethene	0.3973	0.3438	13.5	77	0.00	
54	P	Methylcyclohexane	0.5532	0.4934	10.8	80	0.00	
55	P	1,2-Diclpropane	0.3899	0.3769	3.3	82	0.00	
56		Dibromomethane	0.2371	0.2077	12.4	73	0.00	
57		1,4-Dioxane	0.0085	0.0066	22.4#	71	0.00	NT
58		Methyl Methacrylate	0.3242	0.2738	15.5	71	0.00	
59	P	Bromodichloromethane	0.4587	0.3820	16.7	68	0.00	
60		2-Nitropropane	0.1656	0.0741	55.3#	38#	0.00	NT
61		2-Chloroethylvinyl Ether	0.2903	0.2614	10.0	75	0.00	
62	P	cis-1,3-Dichloropropene	0.5394	0.5076	5.9	76	0.00	
63	P	4-Methyl-2-pentanone	0.7046	0.7068	-0.3	87	0.00	
64	s	SURR3,Toluene-d8	1.1758	1.1618	1.2	83	0.00	
65	P	Toluene	1.3943	1.3193	5.4	78	0.00	
66	P	trans-1,3-Dichloropropene	0.4982	0.4379	12.1	70	0.00	
67		Ethyl Methacrylate	0.5591	0.4909	12.2	72	0.00	
68	P	1,1,2-Trichloroethane	0.3308	0.2943	11.0	74	0.00	
69	s	SURR2,BFB	0.4856	0.4465	8.1	79	0.00	
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	89	0.00	
71	P	Tetrachloroethene	0.3223	0.2875	10.8	79	0.00	
72	P	2-Hexanone	0.6051	0.5789	4.3	83	0.00	
73		1,3-Dichloropropane	0.6616	0.5912	10.6	77	0.00	
74	P	Dibromochloromethane	0.3832	0.3468	9.5	72	0.00	
75		N-Butyl Acetate	1.0872	1.0310	5.2	78	0.00	
76	P	1,2-Dibromoethane	0.4077	0.3578	12.2	75	0.00	
77		3-Chlorobenzotrifluoride	~~0.6049~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-0.04~~	
78	P	Chlorobenzene	1.0389	0.9592	7.7	79	0.00	
79		4-Chlorobenzotrifluoride	~~0.5369~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-0.09~~	
80		1,1,1,2-Tetrachloroethane	0.3582	0.3213	10.3	71	0.00	
81	P	Ethylbenzene	0.5528	0.5117	7.4	79	0.00	
82	P	(m+p)Xylene	0.6504	0.6346	2.4	81	0.00	
83	P	o-Xylene	0.6773	0.6263	7.5	82	0.00	
84	P	Styrene	1.1037	1.0772	2.4	82	0.00	
85	P	Bromoform	0.2925	0.2328	20.4#	64	0.00	(3)
86		2-Chlorobenzotrifluoride	~~0.6002~~	~~0.0000~~	100.0#	0#	0.02	
87	P	Isopropylbenzene	1.6665	1.6059	3.6	80	0.00	
88		Cyclohexanone	0.1151	0.1150	0.1	80	0.00	
89		trans-1,4-Dichloro-2-Butene	0.2069	0.1843	10.9	78	0.00	
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	86	0.00	
91	P	1,1,2,2-Tetrachloroethane	0.8529	0.8323	12.2 ~~2.4~~	71	0.00	

00573

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:08:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.8371	0.7886	5.8	79	0.00
93		1,2,3-Trichloropropane	0.3313	0.2812	15.1	73	0.00
94		n-Propylbenzene	3.6007	3.5100	2.5	78	0.00
95		2-Chlorotoluene	2.2052	2.1050	4.5	77	0.00
96		3-Chlorotoluene	2.2914	0.0000	100.0#	0#	11.37#
97		4-Chlorotoluene	2.6150	2.4873	4.9	77	0.00
98		1,3,5-Trimethylbenzene	2.5533	2.5356	0.7	80	0.00
99		tert-Butylbenzene	2.1710	2.2127	-1.9	82	0.00
100		1,2,4-Trimethylbenzene	2.6037	2.6199	-0.6	82	0.00
101		3,4-Dichlorobenzotrifluorid	0.8969	0.0000	100.0#	0#	0.05
102		sec-Butylbenzene	3.1619	3.2638	-3.2	82	0.00
103		p-Isopropyltoluene	2.6860	2.7833	-3.6	84	0.00
104	P	1,3-Dclbenz	1.5772	1.4982	5.0	80	0.00
105	P	1,4-Dclbenz	1.6906	1.5387	9.0	80	0.00
106		2,4-Dichlorobenzotrifluorid	0.8332	0.0000	100.0#	0#	0.04
107		2,5-Dichlorobenzotrifluorid	0.8980	0.0000	100.0#	0#	0.00
108		n-Butylbenzene	2.6363	2.6296	0.3	79	0.00
109	P	1,2-Dclbenz	1.5910	1.4839	6.7	78	0.00
110	P	1,2-Dibromo-3-chloropropane	0.2540	0.2180	14.2	68	0.00
111		Trielution Dichlorotoluene	1.4271	0.0001	100.0#	0#	0.00
112		1,3,5-Trichlorobenzene	1.2929	0.0001	100.0#	0#	0.00
113		Coelution Dichlorotoluene	1.5755	0.0004	100.0#	0#	0.00
114	P	1,2,4-Tcbenzene	1.2719	1.2022	5.5	80	0.00
115		Hexachlorobt	0.5282	0.5298	-0.3	81	0.00
116		Naphthalen	3.5221	3.4077	3.2	76	0.00
117		1,2,3-Tclbenzene	1.2601	1.1880	5.7	78	0.00
118		2,4,5-Trichlorotoluene	0.9763	0.0002	100.0#	0#	0.00
119		2,3,6-Trichlorotoluene	0.8839	0.0000	100.0#	0#	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

00574

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:08:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 10/9/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	692750	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	982964	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	888630	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	478731	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	306578	48.34	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.68%			
46) surr1,1,2-dichloroetha...	6.031	65	406637	45.22	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.44%			
64) SURR3,Toluene-d8	8.494	98	1141986	49.40	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.80%			
69) SURR2,BFB	11.018	95	438878	45.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	296293	48.29	ug/L	98
3) Chloromethane	1.294	50	521734	62.40	ug/L	98
4) Vinyl Chloride	1.379	62	401302	55.45	ug/L	93
5) Bromomethane	1.617	94	154741	45.35	ug/L	99
6) Chloroethane	1.702	64	238875	55.09	ug/L	92
7) Freon 21	1.867	67	544703	44.38	ug/L	95
8) Trichlorofluoromethane	1.916	101	456439	49.02	ug/L	98
9) Diethyl Ether	2.166	59	366623	53.83	ug/L	87
10) Freon 123a	2.172	67	332090	40.76	ug/L	94
11) Freon 123	2.233	83	341066	40.69	ug/L	97
12) Acrolein	2.276	56	501633	226.46	ug/L	93
13) 1,1-Diclethene	2.367	96	240327	42.40	ug/L	91
14) Freon 113	2.373	101	290293	45.90	ug/L	99
15) Acetone	2.416	43	258070	43.56	ug/L	99
16) 2-Propanol	2.574	45	1023294	814.14	ug/L	91
17) Iodomethane	2.501	142	349823	41.51	ug/L	89
18) Carbon Disulfide	2.562	76	827273	47.82	ug/L	99
19) Acetonitrile	2.690	40	315592m	254.35	ug/L	
20) Allyl Chloride	2.727	76	159709	44.21	ug/L #	8
21) Methyl Acetate	2.757	43	554297	51.75	ug/L	96
22) Methylene Chloride	2.855	84	309404	43.57	ug/L	93
23) TBA	3.013	59	1208583	696.09	ug/L	84
24) Acrylonitrile	3.129	53	1248527	268.67	ug/L	98
25) Methyl-t-Butyl Ether	3.184	73	1023168	43.53	ug/L	99
26) trans-1,2-Dichloroethene	3.172	96	285676	45.81	ug/L	97
27) 1,1-Diclethane	3.708	63	619520	46.62	ug/L	99
28) Vinyl Acetate	3.818	86	76928	57.30	ug/L #	88
30) 2-Chloro-1,3-Butadiene	3.842	53	783893	53.87	ug/L	93
32) 2,2-Dichloropropane	4.610	77	418241	42.46	ug/L	97
33) cis-1,2-Dichloroethene	4.623	96	323111	44.56	ug/L #	84
34) 2-Butanone	4.677	43	378635	50.76	ug/L	97
35) Propionitrile	4.769	54	493763	246.88	ug/L	97
36) Bromochloromethane	5.055	130	210947	46.59	ug/L	90
37) Methacrylonitrile	5.068	67	183573	42.14	ug/L	87

00575

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:08:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.147	42	224906	43.79	ug/L		100
39)	Chloroform	5.244	83	524114	43.75	ug/L		95
40)	1,1,1-Trichloroethane	5.513	97	438250	41.82	ug/L		95
42)	Cyclohexane	5.598	41	409919	41.79	ug/L		99
44)	Carbontetrachloride	5.781	121	115577	43.63	ug/L		90
45)	1,1-Dichloropropene	5.799	75	412395	46.59	ug/L		96
47)	Benzene	6.104	78	1225092	46.55	ug/L		87
48)	1,2-Dichloroethane	6.147	62	517855	43.60	ug/L		97
49)	Iso-Butyl Alcohol	6.147	43	701270	781.97	ug/L		96
51)	n-Heptane	6.586	43	764855	61.12	ug/L		94
52)	1-Butanol	7.104	56	822	1.73	ug/L	#	1
53)	Trichloroethene	7.031	130	337975	43.27	ug/L		96
54)	Methylcyclohexane	7.262	55	484978	44.59	ug/L		98
55)	1,2-Diclpropane	7.305	63	370447	48.33	ug/L		99
56)	Dibromomethane	7.445	93	204160	43.81	ug/L		89
57)	1,4-Dioxane	7.506	88	130317	782.73	ug/L		93
58)	Methyl Methacrylate	7.531	69	269146	42.23	ug/L	#	76
59)	Bromodichloromethane	7.671	83	375452	41.63	ug/L		98
60)	2-Nitropropane	7.945	41	145634	44.73	ug/L		98
61)	2-Chloroethylvinyl Ether	8.067	63	256959	45.02	ug/L		96
62)	cis-1,3-Dichloropropene	8.201	75	498920	47.05	ug/L		98
63)	4-Methyl-2-pentanone	8.402	43	694806	50.16	ug/L		95
65)	Toluene	8.561	91	1296784	47.31	ug/L		99
66)	trans-1,3-Dichloropropene	8.829	75	430409	43.95	ug/L		99
67)	Ethyl Methacrylate	8.969	69	482555	43.91	ug/L		91
68)	1,1,2-Trichloroethane	9.012	97	289278	44.48	ug/L		91
71)	Tetrachloroethene	9.146	164	255475	44.61	ug/L		99
72)	2-Hexanone	9.299	43	514402	47.83	ug/L		94
73)	1,3-Dichloropropane	9.177	76	525370	44.68	ug/L		94
74)	Dibromochloromethane	9.402	129	308209	45.26	ug/L		97
75)	N-Butyl Acetate	9.451	43	916168	47.41	ug/L		96
76)	1,2-Dibromoethane	9.494	107	317944	43.88	ug/L		99
78)	Chlorobenzene	9.981	112	852392	46.17	ug/L		99
80)	1,1,1,2-Tetrachloroethane	10.073	131	285480	44.85	ug/L		99
81)	Ethylbenzene	10.103	106	454739	46.28	ug/L		95
82)	(m+p)Xylene	10.213	106	1127775	97.56	ug/L		97
83)	o-Xylene	10.567	106	556525	46.23	ug/L		100
84)	Styrene	10.579	104	957247	48.80	ug/L		96
85)	Bromoform	10.731	173	206864	39.80	ug/L		98
87)	Isopropylbenzene	10.896	105	1427015	48.18	ug/L		98
88)	Cyclohexanone	10.957	55	2044663	999.62	ug/L		90
89)	trans-1,4-Dichloro-2-B...	11.201	53	163761	44.54	ug/L		93
91)	1,1,2,2-Tetrachloroethane	11.152	83	398457	43.91	ug/L		94
92)	Bromobenzene	11.140	156	377551	47.11	ug/L		93
93)	1,2,3-Trichloropropane	11.182	110	134625	42.44	ug/L		94
94)	n-Propylbenzene	11.249	91	1680345	48.74	ug/L		96
95)	2-Chlorotoluene	11.310	91	1007734	47.73	ug/L		100
97)	4-Chlorotoluene	11.402	91	1190771	47.56	ug/L		97
98)	1,3,5-Trimethylbenzene	11.402	105	1213863	49.65	ug/L		94
99)	tert-Butylbenzene	11.670	119	1059303	50.96	ug/L		99
100)	1,2,4-Trimethylbenzene	11.713	105	1254238	50.31	ug/L		96

00576

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:08:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

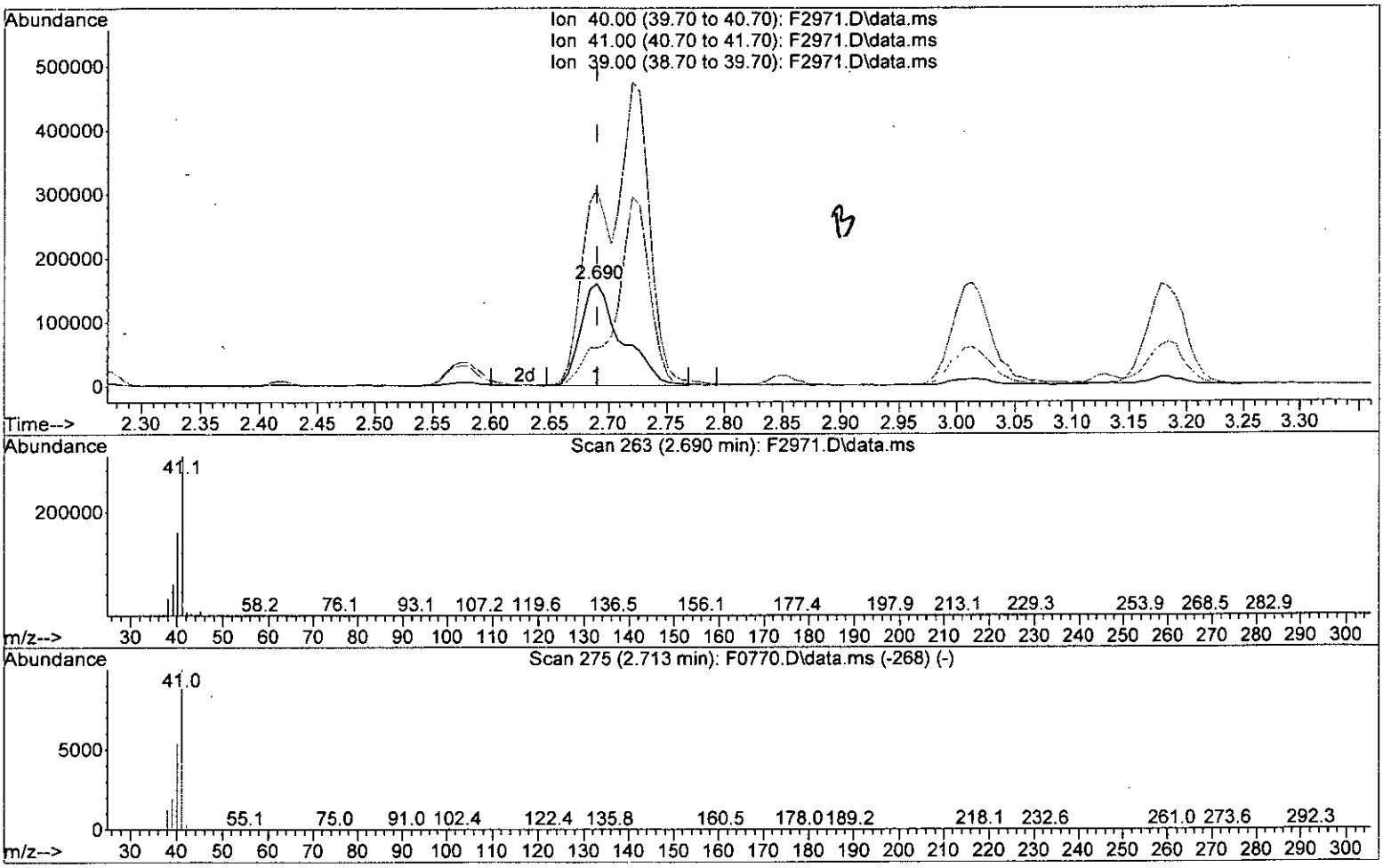
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) sec-Butylbenzene	11.853	105	1562499	51.61	ug/L	98
103) p-Isopropyltoluene	11.975	119	1332439	51.81	ug/L	97
104) 1,3-Dclbenz	11.932	146	717226	47.49	ug/L	98
105) 1,4-Dclbenz	12.005	146	736631	45.51	ug/L	97
108) n-Butylbenzene	12.304	91	1258877	49.87	ug/L	98
109) 1,2-Dclbenz	12.310	146	710401	46.64	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.932	157	104373	42.91	ug/L	95
114) 1,2,4-Tcbenzene	13.584	180	575507	47.26	ug/L	98
115) Hexachlorobt	13.718	225	253628	50.15	ug/L	95
116) Naphthalen	13.773	128	1631371	48.38	ug/L	98
117) 1,2,3-Tclbenzene	13.962	180	568721	47.14	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00577

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:06:35 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2971.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 312.39 ug/L

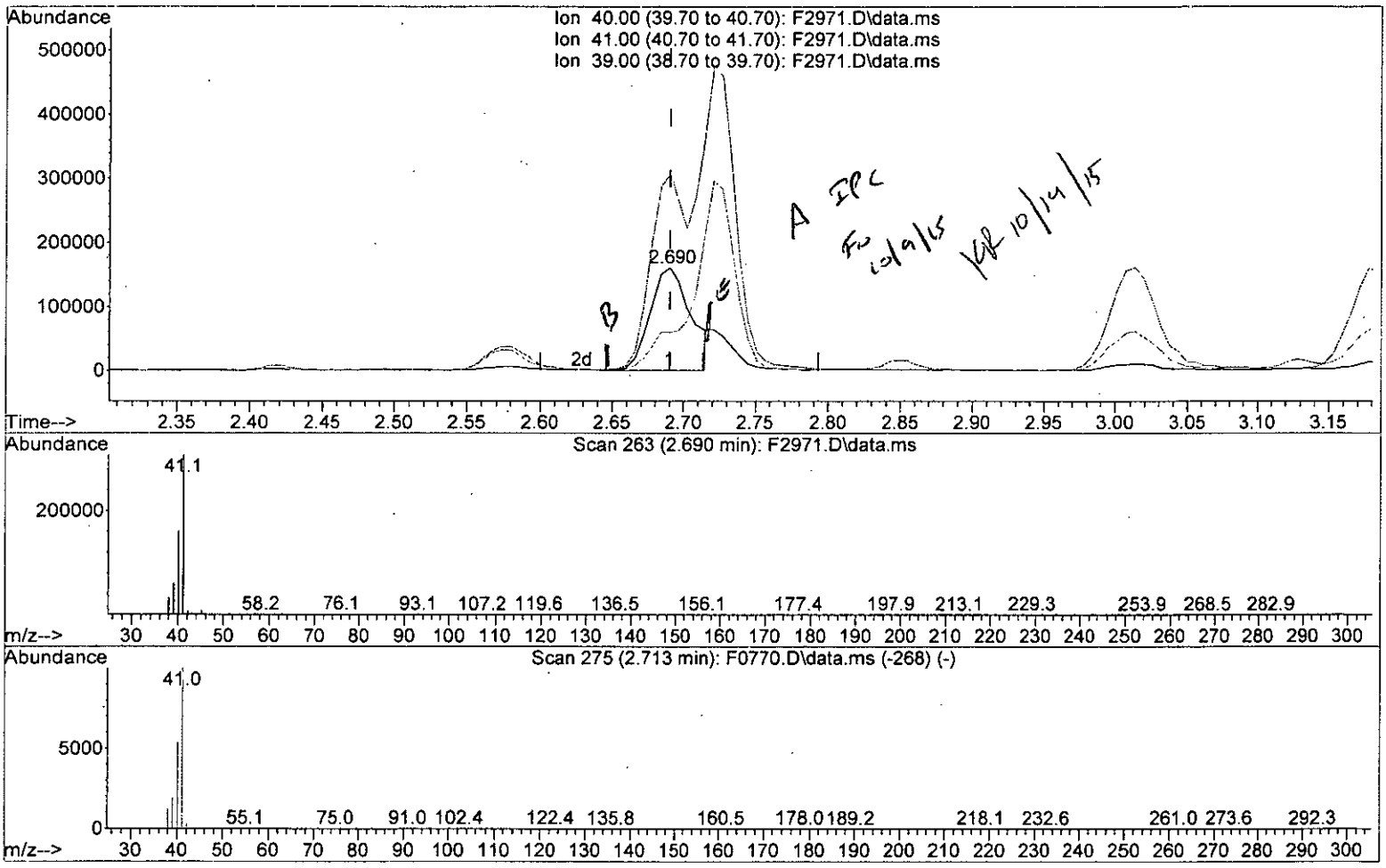
response 387602

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	191.50
39.00	35.30	37.34
0.00	0.00	0.00

00578

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:06:35 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2971.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 254.35 ug/L m

response 315592

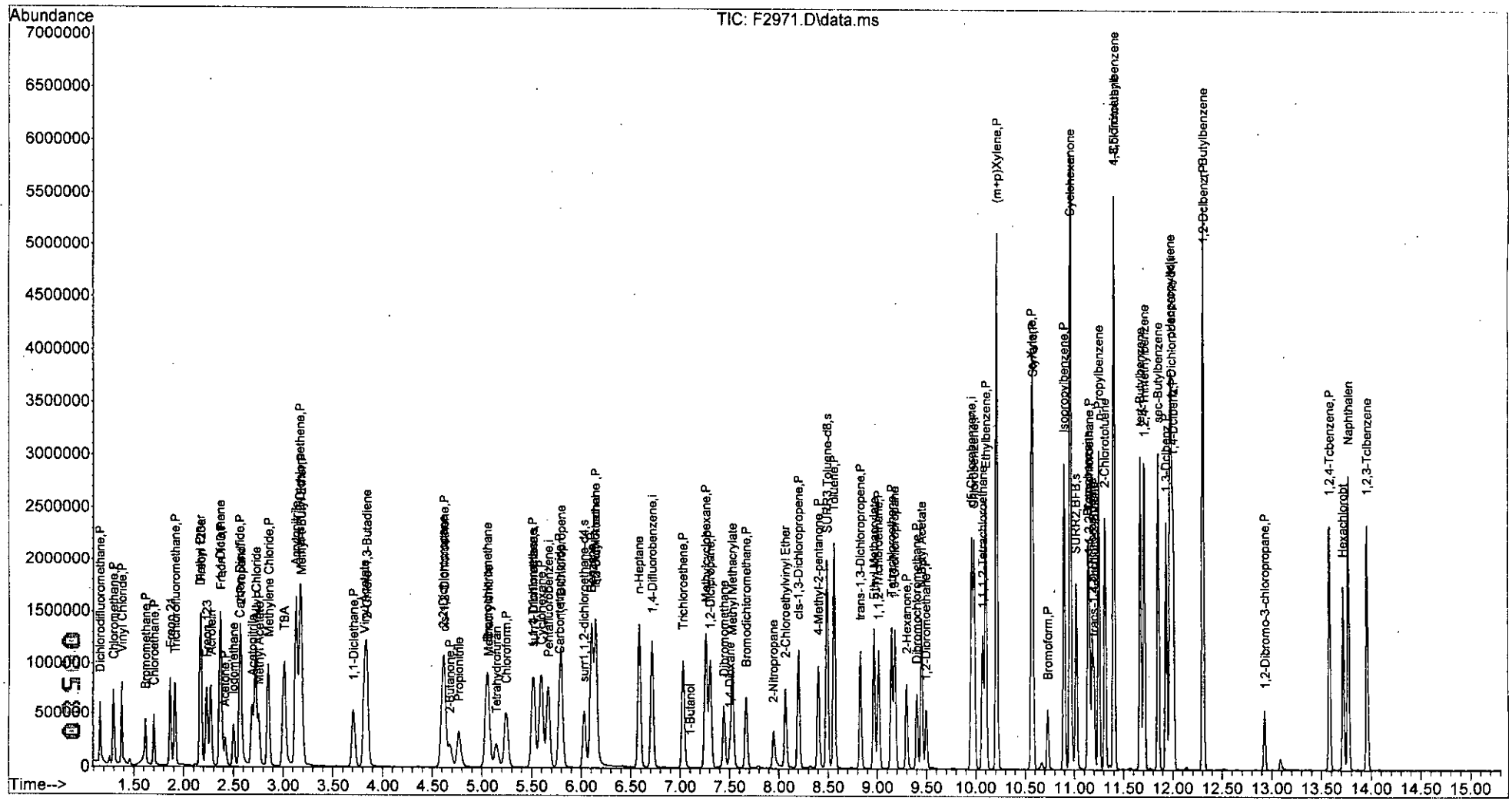
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	191.50
39.00	35.30	37.34
0.00	0.00	0.00

00579

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2971.D
Acq On : 9 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 12:08:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/12/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\101215\F3025.D\

Calibration Date: 9/10/15
Calibration ID: RC1500091
Analysis Lot: 466502
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	48.5	0.3582	0.3475	-3.0	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	46.8	0.7563	0.7083	-6.4	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	51.1	NA	NA	NA	2.2	± 20 %	Linear
1,1,2-Trichloroethane	50.0	49.3	0.3308	0.3263	-1.4	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.3	0.9591	0.9647	0.6	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.4	0.4091	0.3795	-7.2	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	49.0	0.4503	0.4415	-1.9	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	51.6	1.260	1.301	3.3	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	48.2	0.3313	0.3190	-3.7	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	50.8	1.272	1.293	1.6	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	53.3	2.604	2.777	6.7	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	47.6	0.2540	0.2418	-4.8	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	46.1	0.4077	0.3759	-7.8	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	49.9	1.591	1.587	-0.3	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	46.8	0.6042	0.5651	-6.5	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	51.3	0.3899	0.4000	2.6	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	53.7	2.553	2.740	7.3	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	50.3	1.577	1.587	0.6	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	48.3	0.6616	0.6385	-3.5	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	47.9	1.691	1.620	-4.2	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	44.1	0.7109	0.6274	-11.7	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	49.9	0.5384	0.5367	-0.3	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	50.1	2.205	2.210	0.2	NA	± 20 %	Average RF
2-Hexanone	50.0	49.8	0.6051	0.6031	-0.3	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	813	0.1253	0.1019	-18.7	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	50.8	2.615	2.658	1.6	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	55.9	2.686	3.001	11.7	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	51.7	0.7046	0.7290	3.5	NA	± 20 %	Average RF
Acetone	50.0	45.5	0.4277	0.3889	-9.1	NA	± 20 %	Average RF
Benzene	50.0	50.3	1.339	1.348	0.7	NA	± 20 %	Average RF
Bromobenzene	50.0	51.1	0.8371	0.8557	2.2	NA	± 20 %	Average RF
Bromochloromethane	50.0	51.5	0.3268	0.3367	3.0	NA	± 20 %	Average RF
Bromodichloromethane	50.0	45.7	0.4587	0.4190	-8.7	NA	± 20 %	Average RF
Bromoform	50.0	42.8	0.2925	0.2501	-14.5	NA	± 20 %	Average RF
Bromomethane	50.0	60.8	NA	NA	NA	21.5 *	± 20 %	Quadratic
Carbon Tetrachloride	50.0	46.3	0.1347	0.1247	-7.4	NA	± 20 %	Average RF
Chlorobenzene	50.0	49.8	1.039	1.034	-0.4	NA	± 20 %	Average RF
Chloroethane	50.0	57.2	0.3129	0.3578	14.3	NA	± 20 %	Average RF
Chloroform	50.0	47.7	0.8646	0.8243	-4.7	NA	± 20 %	Average RF
Chloromethane	50.0	64.1	0.6035	0.7741	28.3 *	NA	± 20 %	Average RF
Dibromochloromethane	50.0	48.1	0.3832	0.3684	-3.8	NA	± 20 %	Average RF

00581

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM Q3 2015 GW Sampling/748810-03000

Service Request: R1508244
Date Analyzed: 10/12/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\101215\F3025.D\

Calibration Date: 9/10/15
Calibration ID: RC1500091
Analysis Lot: 466502
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	52.0	0.4428	0.4609	4.1	NA	± 20 %	Average RF
Methylene Chloride	50.0	47.5	0.5125	0.4864	-5.1	NA	± 20 %	Average RF
Ethylbenzene	50.0	49.3	0.5528	0.5448	-1.5	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	56.9	0.5282	0.6010	13.8	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	52.1	1.667	1.736	4.2	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	48.1	1.697	1.633	-3.8	NA	± 20 %	Average RF
Naphthalene	50.0	55.1	3.522	3.878	10.1	NA	± 20 %	Average RF
Styrene	50.0	52.5	1.104	1.158	4.9	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	49.7	0.3223	0.3206	-0.5	NA	± 20 %	Average RF
Toluene	50.0	51.3	1.394	1.430	2.5	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	46.1	0.3973	0.3659	-7.9	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	55.3	0.6721	0.7435	10.6	NA	± 20 %	Average RF
Vinyl Chloride	50.0	61.3	0.5223	0.6407	22.7 *	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	48.5	0.5234	0.5079	-3.0	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	49.9	0.5394	0.5384	-0.2	NA	± 20 %	Average RF
m,p-Xylenes	100	104	0.6504	0.6769	4.1	NA	± 20 %	Average RF
n-Butylbenzene	50.0	53.9	2.636	2.842	7.8	NA	± 20 %	Average RF
n-Propylbenzene	50.0	53.4	3.601	3.848	6.9	NA	± 20 %	Average RF
o-Xylene	50.0	48.7	0.6773	0.6603	-2.5	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	55.2	3.162	3.492	10.4	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	55.5	2.171	2.410	11.0	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	50.4	0.4501	0.4535	0.8	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	48.2	0.4982	0.4804	-3.6	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	45.8	0.4856	0.4448	-8.4	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.7	0.3226	0.3145	-2.5	NA	± 20 %	Average RF
Toluene-d8	50.0	50.0	1.176	1.176	0.0	NA	± 20 %	Average RF

00582

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3025.D
Acq On : 12 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 12 12:56:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 10/12/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	89	0.00	
2	P	Dichlorodifluoromethane	0.4428	0.4609	-4.1	81	0.00	
3	P	Chloromethane	0.6035	0.7741	-28.3#	111	0.00	(1)
4	P	Vinyl Chloride	0.5223	0.6407	-22.7#	104	0.00	(2)
5	P	Bromomethane	0.2948	0.2743	-21.5 ~~-7.0~~	104	0.00	(3)
6	P	Chloroethane	0.3129	0.3578	-14.3	98	0.01	
7		Freon 21	0.8860	0.9951	-12.3	100	0.00	
8	P	Trichlorofluoromethane	0.6721	0.7435	-10.6	93	0.00	
9		Diethyl Ether	0.4916	0.5616	-14.2	96	0.00	
10		Freon 123a	0.5881	0.6176	-5.0	92	0.00	
11		Freon 123	0.6050	0.6430	-6.3	89	0.00	
12		Acrolein	0.1599	0.1329	16.9	72	0.00	
13		1,1-Diclethene	0.4091	0.3795	7.2	82	0.00	
14	P	Freon 113	0.4565	0.4666	-2.2	90	0.00	
15	P	Acetone	0.4277	0.3889	9.1	84	0.00	
16		2-Propanol	0.0907	0.0853	6.0	80	-0.02	
17		Iodomethane	0.5227	0.6785	-10.0 ~~-29.8#~~	94	0.00	
18	P	Carbon Disulfide	1.2488	1.1690	6.4	85	0.00	
19		Acetonitrile	0.0896	0.0988	-10.3	100	0.00	
20		Allyl Chloride	0.2608	0.2437	6.6	84	0.00	
21	P	Methyl Acetate	0.7730	0.9015	-16.6	99	0.00	
22	P	Methylene Chloride	0.5125	0.4864	5.1	87	0.00	
23		TBA	0.1253	0.1019	18.7	70	-0.03	
24		Acrylonitrile	0.3354	0.4019	-19.8	97	0.00	
25	P	Methyl-t-Butyl Ether	1.6965	1.6328	3.8	81	0.00	
26	P	trans-1,2-Dichloroethene	0.4501	0.4535	-0.8	89	0.00	
27	P	1,1-Diclethane	0.9591	0.9647	-0.6	88	0.00	
28		Vinyl Acetate	0.0969	0.0944	2.6	80	0.00	
29		DIPE	~~2.2005~~	~~0.0070~~	~~99.7#~~	~~0#~~	~~-0.04~~	
30		2-Chloro-1,3-Butadiene	1.0503	1.0904	-3.8	89	0.00	
31		ETBE	~~1.8352~~	~~0.0007~~	~~100.0#~~	~~0#~~	~~0.04~~	
32		2,2-Dichloropropane	0.7109	0.6274	11.7	75	0.00	
33	P	cis-1,2-Dichloroethene	0.5234	0.5079	3.0	86	0.00	
34	P	2-Butanone	0.5384	0.5367	0.3	89	0.00	
35		Propionitrile	0.1444	0.1599	-10.7	95	-0.01	
36		Bromochloromethane	0.3268	0.3367	-3.0	89	0.00	
37		Methacrylonitrile	0.3144	0.2968	5.6	87	0.00	
38		Tetrahydrofuran	0.3707	0.3726	-0.5	99	0.00	
39	P	Chloroform	0.8646	0.8243	4.7	80	0.00	
40	P	1,1,1-Trichloroethane	0.7563	0.7083	6.3	78	0.00	
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	89	0.00	
42	P	Cyclohexane	0.4989	0.5363	-7.5	100	0.00	
43	s	surr4,Dibrflmethane	0.3226	0.3145	2.5	85	0.00	
44	P	Carbontetrachloride	0.1347	0.1247	7.4	76	0.00	
45		1,1-Dichloropropene	0.4503	0.4415	2.0	85	0.00	
46	s	surr1,1,2-dichloroethane-d4	0.4574	0.4191	8.4	80	0.00	

00583

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3025.D
Acq On : 12 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 12 12:56:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47	P	Benzene	1.3388	1.3480	-0.7	86	0.00	
48	P	1,2-Dichloroethane	0.6042	0.5651	6.5	79	0.00	
49		Iso-Butyl Alcohol	0.0456	0.0402	11.8	77	-0.02	
50		TAME	~~1.0936~~	~~0.0007~~	~~99.9#~~	~~0#~~	~~-0.03~~	
51		n-Heptane	0.6365	0.8232	-29.3#	117	0.00	MT
52		1-Butanol	~~0.0242~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.04~~	
53	P	Trichloroethene	0.3973	0.3659	7.9	83	0.00	
54	P	Methylcyclohexane	0.5532	0.6485	-17.2	108	0.00	
55	P	1,2-Diclpropane	0.3899	0.4000	-2.6	88	0.00	
56		Dibromomethane	0.2371	0.2182	8.0	78	0.00	
57		1,4-Dioxane	0.0085	0.0073	14.1	80	0.00	
58		Methyl Methacrylate	0.3242	0.2943	9.2	78	0.00	
59	P	Bromodichloromethane	0.4587	0.4190	8.7	76	0.00	
60		2-Nitropropane	0.1656	0.0743	55.1#	39#	0.00	MT
61		2-Chloroethylvinyl Ether	0.2903	0.2979	-2.6	87	0.00	
62	P	cis-1,3-Dichloropropene	0.5394	0.5384	0.2	82	0.00	
63	P	4-Methyl-2-pentanone	0.7046	0.7290	-3.5	92	0.00	
64	s	SURR3,Toluene-d8	1.1758	1.1762	-0.0	85	0.00	
65	P	Toluene	1.3943	1.4296	-2.5	87	0.00	
66	P	trans-1,3-Dichloropropene	0.4982	0.4804	3.6	78	0.00	
67		Ethyl Methacrylate	0.5591	0.5297	5.3	79	0.00	
68	P	1,1,2-Trichloroethane	0.3308	0.3263	1.4	83	0.00	
69	s	SURR2,BFB	0.4856	0.4448	8.4	80	0.00	
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	92	0.00	
71	P	Tetrachloroethene	0.3223	0.3206	0.5	91	0.00	
72	P	2-Hexanone	0.6051	0.6031	0.3	89	0.00	
73		1,3-Dichloropropane	0.6616	0.6385	3.5	86	0.00	
74	P	Dibromochloromethane	0.3832	0.3684	3.9	79	0.00	
75		N-Butyl Acetate	1.0872	1.1482	-5.6	89	0.00	
76	P	1,2-Dibromoethane	0.4077	0.3759	7.8	81	0.00	
77		3-Chlorobenzotrifluoride	~~0.6049~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
78	P	Chlorobenzene	1.0389	1.0345	0.4	88	0.00	
79		4-Chlorobenzotrifluoride	~~0.5369~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.05~~	
80		1,1,1,2-Tetrachloroethane	0.3582	0.3475	3.0	79	0.00	
81	P	Ethylbenzene	0.5528	0.5448	1.4	87	0.00	
82	P	(m+p)Xylene	0.6504	0.6769	-4.1	89	0.00	
83	P	o-Xylene	0.6773	0.6603	2.5	89	0.00	
84	P	Styrene	1.1037	1.1577	-4.9	90	0.00	
85	P	Bromoform	0.2925	0.2501	14.5	71	0.00	
86		2-Chlorobenzotrifluoride	~~0.6002~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.04~~	
87	P	Isopropylbenzene	1.6665	1.7358	-4.2	89	0.00	
88		Cyclohexanone	0.1151	0.0898	22.0#	64	0.00	MT
89		trans-1,4-Dichloro-2-Butene	0.2069	0.1982	4.2	86	0.00	
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	88	0.00	
91	P	1,1,2,2-Tetrachloroethane	0.8529	0.9697 -2.2	~~-13.7~~	85	0.00	

00584

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3025.D
Acq On : 12 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 12 12:56:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.8371	0.8557	-2.2	88	0.00
93		1,2,3-Trichloropropane	0.3313	0.3190	3.7	85	0.00
94		n-Propylbenzene	3.6007	3.8481	-6.9	88	0.00
95		2-Chlorotoluene	2.2052	2.2098	-0.2	83	0.00
96		3-Chlorotoluene	2.2914	0.0000	100.0#	0#	-11.37#
97		4-Chlorotoluene	2.6150	2.6579	-1.6	84	0.00
98		1,3,5-Trimethylbenzene	2.5533	2.7395	-7.3	89	0.00
99		tert-Butylbenzene	2.1710	2.4102	-11.0	92	0.00
100		1,2,4-Trimethylbenzene	2.6037	2.7772	-6.7	89	0.00
101		3,4-Dichlorobenzotrifluorid	0.8969	0.0000	100.0#	0#	0.01
102		sec-Butylbenzene	3.1619	3.4917	-10.4	90	0.00
103		p-Isopropyltoluene	2.6860	3.0008	-11.7	93	0.00
104	P	1,3-Dclbenz	1.5772	1.5868	-0.6	88	0.00
105	P	1,4-Dclbenz	1.6906	1.6200	4.2	87	0.00
106		2,4-Dichlorobenzotrifluorid	0.8332	0.0000	100.0#	0#	0.01
107		2,5-Dichlorobenzotrifluorid	0.8980	0.0000	100.0#	0#	-0.03
108		n-Butylbenzene	2.6363	2.8420	-7.8	88	0.00
109	P	1,2-Dclbenz	1.5910	1.5867	0.3	86	0.00
110	P	1,2-Dibromo-3-chloropropane	0.2540	0.2418	4.8	77	0.00
111		Trielution Dichlorotoluene	1.4271	0.0001	100.0#	0#	0.00
112		1,3,5-Trichlorobenzene	1.2929	0.0000	100.0#	0#	0.01
113		Coelution Dichlorotoluene	1.5755	0.0001	100.0#	0#	-0.05
114	P	1,2,4-Tcbenzene	1.2719	1.2928	-1.6	89	0.00
115		Hexachlorobt	0.5282	0.6010	-13.8	94	0.00
116		Naphthalen	3.5221	3.8784	-10.1	89	0.00
117		1,2,3-Tclbenzene	1.2601	1.3014	-3.3	88	0.00
118		2,4,5-Trichlorotoluene	0.9763	0.0001	100.0#	0#	0.00
119		2,3,6-Trichlorotoluene	0.8839	0.0000	100.0#	0#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

00585

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3025.D
Acq On : 12 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 12 12:56:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 10/15/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	700409	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.720	114	1000819	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	913234	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	492024	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	314781	48.74	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 97.48%			
46) surr1,1,2-dichloroetha...	6.031	65	419428	45.81	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.62%			
64) SURR3,Toluene-d8	8.488	98	1177126	50.01	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.02%			
69) SURR2,BFB	11.018	95	445117	45.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	322798	52.04	ug/L	98
3) Chloromethane	1.300	50	542173	64.13	ug/L	100
4) Vinyl Chloride	1.379	62	448739	61.33	ug/L	95
5) Bromomethane	1.617	94	192089	60.75	ug/L	90
6) Chloroethane	1.703	64	250628	57.17	ug/L	92
7) Freon 21	1.867	67	696983	56.16	ug/L	99
8) Trichlorofluoromethane	1.910	101	520786	55.31	ug/L	100
9) Diethyl Ether	2.166	59	393359	57.13	ug/L	89
10) Freon 123a	2.172	67	432545	52.51	ug/L	94
11) Freon 123	2.233	83	450363	53.14	ug/L	95
12) Acrolein	2.269	56	465428	207.82	ug/L	97
13) 1,1-Diclethene	2.361	96	265838	46.39	ug/L	93
14) Freon 113	2.373	101	326835	51.11	ug/L	95
15) Acetone	2.416	43	272389	45.47	ug/L	98
16) 2-Propanol	2.574	45	1195337	940.62	ug/L	94
17) Iodomethane	2.501	142	475224	55.00	ug/L	92
18) Carbon Disulfide	2.562	76	818792	46.81	ug/L	99
19) Acetonitrile	2.684	40	346068	275.87	ug/L	99
20) Allyl Chloride	2.721	76	170663	46.72	ug/L #	8
21) Methyl Acetate	2.757	43	631408	58.31	ug/L	99
22) Methylene Chloride	2.855	84	340687	47.45	ug/L	98
23) TBA	3.007	59	1427266	813.05	ug/L	91
24) Acrylonitrile	3.129	53	1407369	299.53	ug/L	100
25) Methyl-t-Butyl Ether	3.184	73	1143641	48.12	ug/L	98
26) trans-1,2-Dichloroethene	3.172	96	317651	50.38	ug/L	95
27) 1,1-Diclethane	3.708	63	675700	50.29	ug/L	99
28) Vinyl Acetate	3.818	86	66137	48.72	ug/L #	93
30) 2-Chloro-1,3-Butadiene	3.842	53	763731	51.91	ug/L	97
32) 2,2-Dichloropropane	4.604	77	439402	44.13	ug/L	96
33) cis-1,2-Dichloroethene	4.623	96	355763	48.52	ug/L	88
34) 2-Butanone	4.678	43	375939	49.85	ug/L	99
35) Propionitrile	4.769	54	560072	276.97	ug/L	95
36) Bromochloromethane	5.056	130	235823	51.51	ug/L	94
37) Methacrylonitrile	5.062	67	207879	47.20	ug/L #	74

00586

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3025.D
Acq On : 12 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 12 12:56:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.141	42	261007	50.26	ug/L		98
39)	Chloroform	5.238	83	577339	47.67	ug/L		95
40)	1,1,1-Trichloroethane	5.513	97	496083	46.82	ug/L		96
42)	Cyclohexane	5.604	41	536713	53.74	ug/L		100
44)	Carbontetrachloride	5.781	121	124831	46.28	ug/L		97
45)	1,1-Dichloropropene	5.799	75	441890	49.03	ug/L		96
47)	Benzene	6.104	78	1349085	50.34	ug/L		83
48)	1,2-Dichloroethane	6.147	62	565573	46.77	ug/L		98
49)	Iso-Butyl Alcohol	6.147	43	804229	880.78	ug/L		98
51)	n-Heptane	6.586	43	823911	64.67	ug/L		93
52)	1-Butanol	7.134	56	576	1.19	ug/L		89
53)	Trichloroethene	7.031	130	366163	46.05	ug/L		96
54)	Methylcyclohexane	7.262	55	649081	58.62	ug/L		93
55)	1,2-Diclpropane	7.305	63	400332	51.29	ug/L		97
56)	Dibromomethane	7.445	93	218380	46.02	ug/L		83
57)	1,4-Dioxane	7.506	88	146944	866.85	ug/L		94
58)	Methyl Methacrylate	7.531	69	294522	45.39	ug/L	#	71
59)	Bromodichloromethane	7.665	83	419349	45.67	ug/L		99
60)	2-Nitropropane	7.945	41	148770	44.88	ug/L		94
61)	2-Chloroethylvinyl Ether	8.067	63	298116	51.30	ug/L		97
62)	cis-1,3-Dichloropropene	8.201	75	538865	49.91	ug/L		98
63)	4-Methyl-2-pentanone	8.402	43	729558	51.73	ug/L		96
65)	Toluene	8.561	91	1430814	51.27	ug/L		99
66)	trans-1,3-Dichloropropene	8.829	75	480818	48.22	ug/L		100
67)	Ethyl Methacrylate	8.963	69	530106	47.37	ug/L		93
68)	1,1,2-Trichloroethane	9.012	97	326520	49.31	ug/L		89
71)	Tetrachloroethene	9.146	164	292776	49.74	ug/L		95
72)	2-Hexanone	9.299	43	550772	49.84	ug/L		95
73)	1,3-Dichloropropane	9.177	76	583074	48.25	ug/L		98
74)	Dibromochloromethane	9.402	129	336461	48.08	ug/L		98
75)	N-Butyl Acetate	9.451	43	1048555	52.80	ug/L		96
76)	1,2-Dibromoethane	9.500	107	343316	46.10	ug/L		98
78)	Chlorobenzene	9.981	112	944695	49.79	ug/L		98
80)	1,1,1,2-Tetrachloroethane	10.067	131	317379	48.51	ug/L		99
81)	Ethylbenzene	10.103	106	497500	49.27	ug/L		97
82)	(m+p)Xylene	10.213	106	1236296	104.07	ug/L		96
83)	o-Xylene	10.567	106	602999	48.74	ug/L		100
84)	Styrene	10.579	104	1057223	52.45	ug/L		98
85)	Bromoform	10.731	173	228415	42.76	ug/L		98
87)	Isopropylbenzene	10.896	105	1585171	52.08	ug/L		98
88)	Cyclohexanone	10.957	55	1640868	780.60	ug/L		93
89)	trans-1,4-Dichloro-2-B...	11.201	53	180992	47.90	ug/L		92
91)	1,1,2,2-Tetrachloroethane	11.152	83	477106	51.11	ug/L		99
92)	Bromobenzene	11.140	156	421047	51.11	ug/L		98
93)	1,2,3-Trichloropropane	11.182	110	156976	48.15	ug/L		92
94)	n-Propylbenzene	11.249	91	1893369	53.44	ug/L		97
95)	2-Chlorotoluene	11.310	91	1087277	50.10	ug/L		97
97)	4-Chlorotoluene	11.402	91	1307751	50.82	ug/L		98
98)	1,3,5-Trimethylbenzene	11.402	105	1347915	53.65	ug/L		97
99)	tert-Butylbenzene	11.670	119	1185875	55.51	ug/L		98
100)	1,2,4-Trimethylbenzene	11.713	105	1366435	53.33	ug/L		95

00587

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3025.D
Acq On : 12 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 12 12:56:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) sec-Butylbenzene	11.853	105	1717983	55.22	ug/L	97
103) p-Isopropyltoluene	11.975	119	1476461	55.86	ug/L	99
104) 1,3-Dclbenz	11.932	146	780745	50.30	ug/L	98
105) 1,4-Dclbenz	12.005	146	797071	47.91	ug/L	92
108) n-Butylbenzene	12.304	91	1398355	53.90	ug/L	98
109) 1,2-Dclbenz	12.310	146	780676	49.86	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.932	157	118971	47.60	ug/L	95
114) 1,2,4-Tcbenzene	13.584	180	636105	50.82	ug/L	95
115) Hexachlorobt	13.718	225	295718	56.89	ug/L	97
116) Naphthalen	13.773	128	1908259	55.06	ug/L	98
117) 1,2,3-Tclbenzene	13.962	180	640305	51.64	ug/L	95

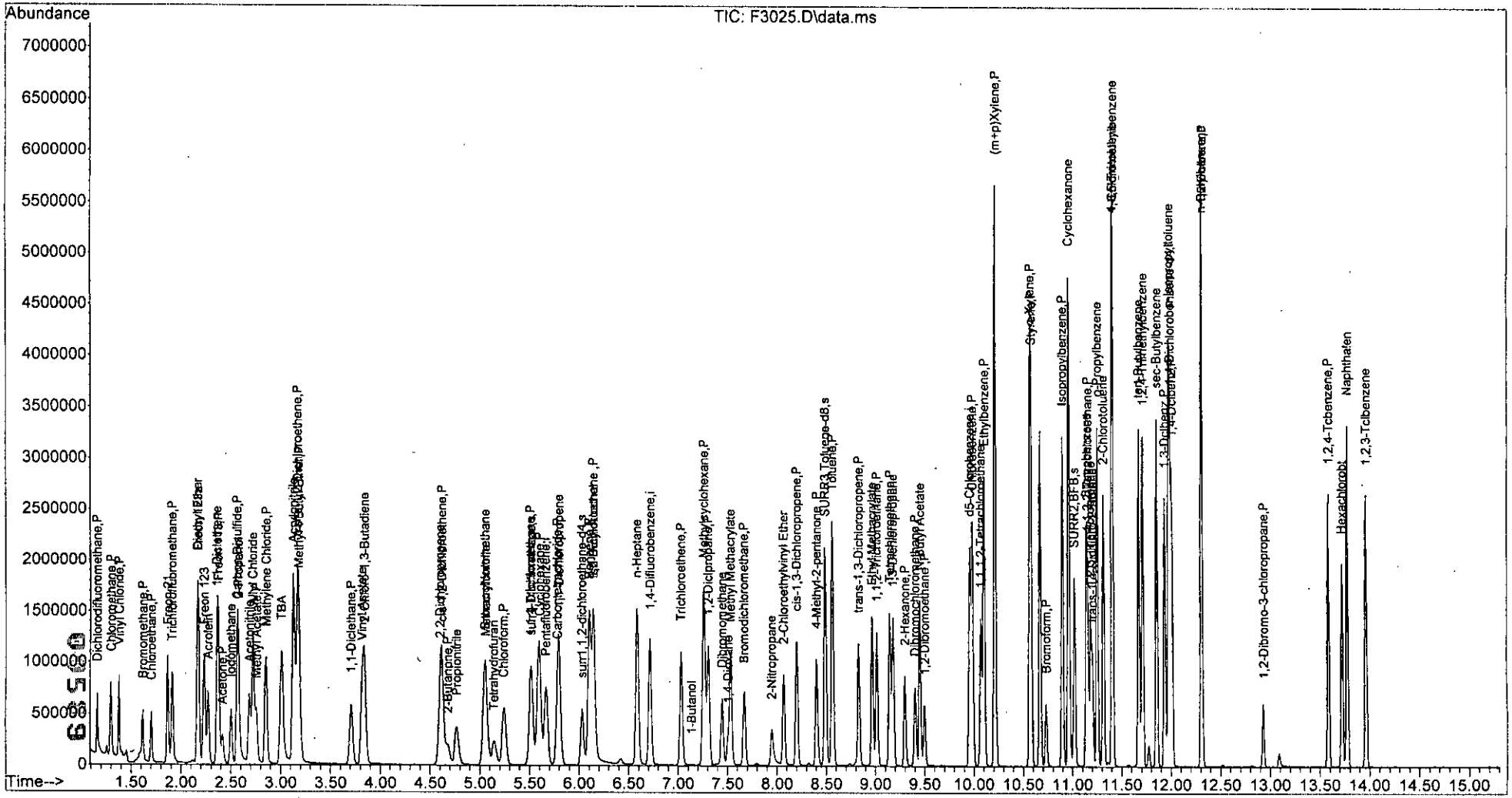
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00588

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3025.D
Acq On : 12 Oct 2015 11:52 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 12 12:56:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Environmental

VOLATILE ORGANICS
RAW QC DATA

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

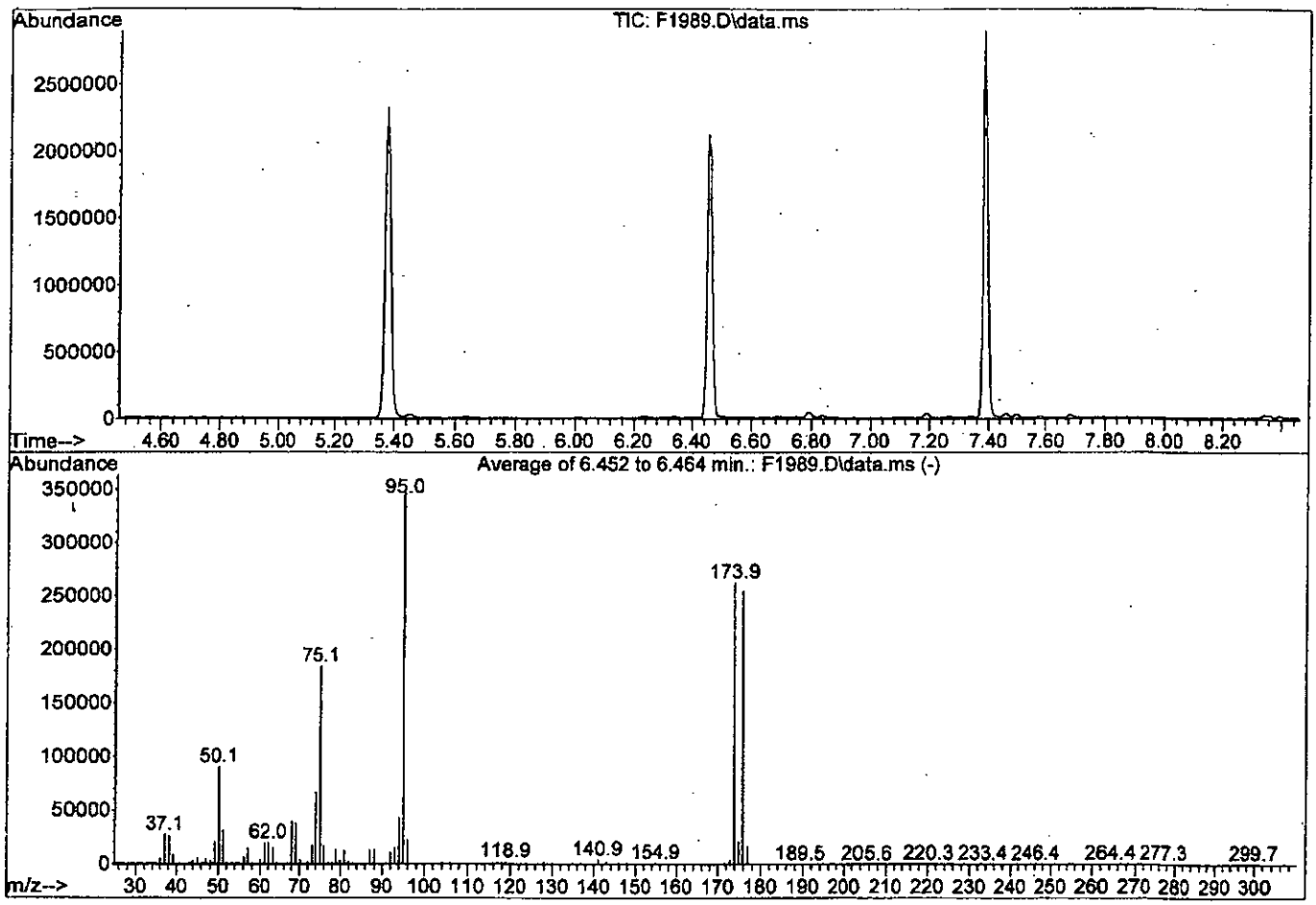
RIGHT SOLUTIONS | RIGHT PARTNER

Data Path : I:\ACQUDATA\msvoa10\data\091015\
Data File : F1989.D
Acq On : 10 Sep 2015 4:35 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FJ 9/11/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.1	90187	PASS
75	95	30	60	53.2	183984	PASS
95	95	100	100	100.0	345664	PASS
96	95	5	9	6.5	22627	PASS
173	174	0.00	2	1.6	4127	PASS
174	95	50	120	75.9	262392	PASS
175	174	5	9	8.0	20933	PASS
176	174	95	101	97.1	254869	PASS
177	176	5	9	6.5	16443	PASS

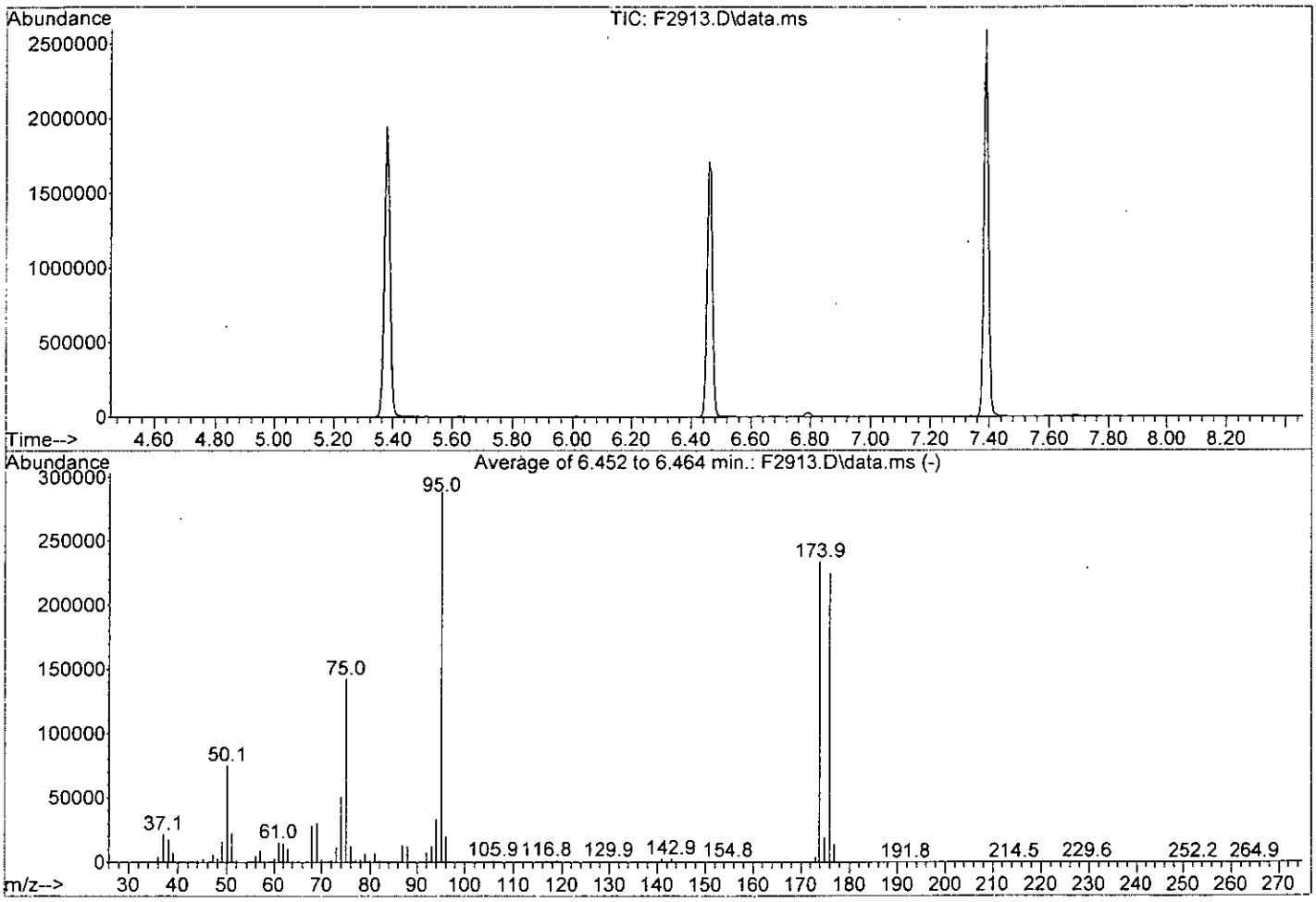
BrB

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2913.D
Acq On : 8 Oct 2015 10:14 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006

FW 10/8/15



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	75005	PASS
75	95	30	60	49.3	142216	PASS
95	95	100	100	100.0	288277	PASS
96	95	5	9	6.9	19784	PASS
173	174	0.00	2	1.6	3686	PASS
174	95	50	120	81.0	233451	PASS
175	174	5	9	8.0	18663	PASS
176	174	95	101	96.2	224693	PASS
177	176	5	9	6.1	13709	PASS

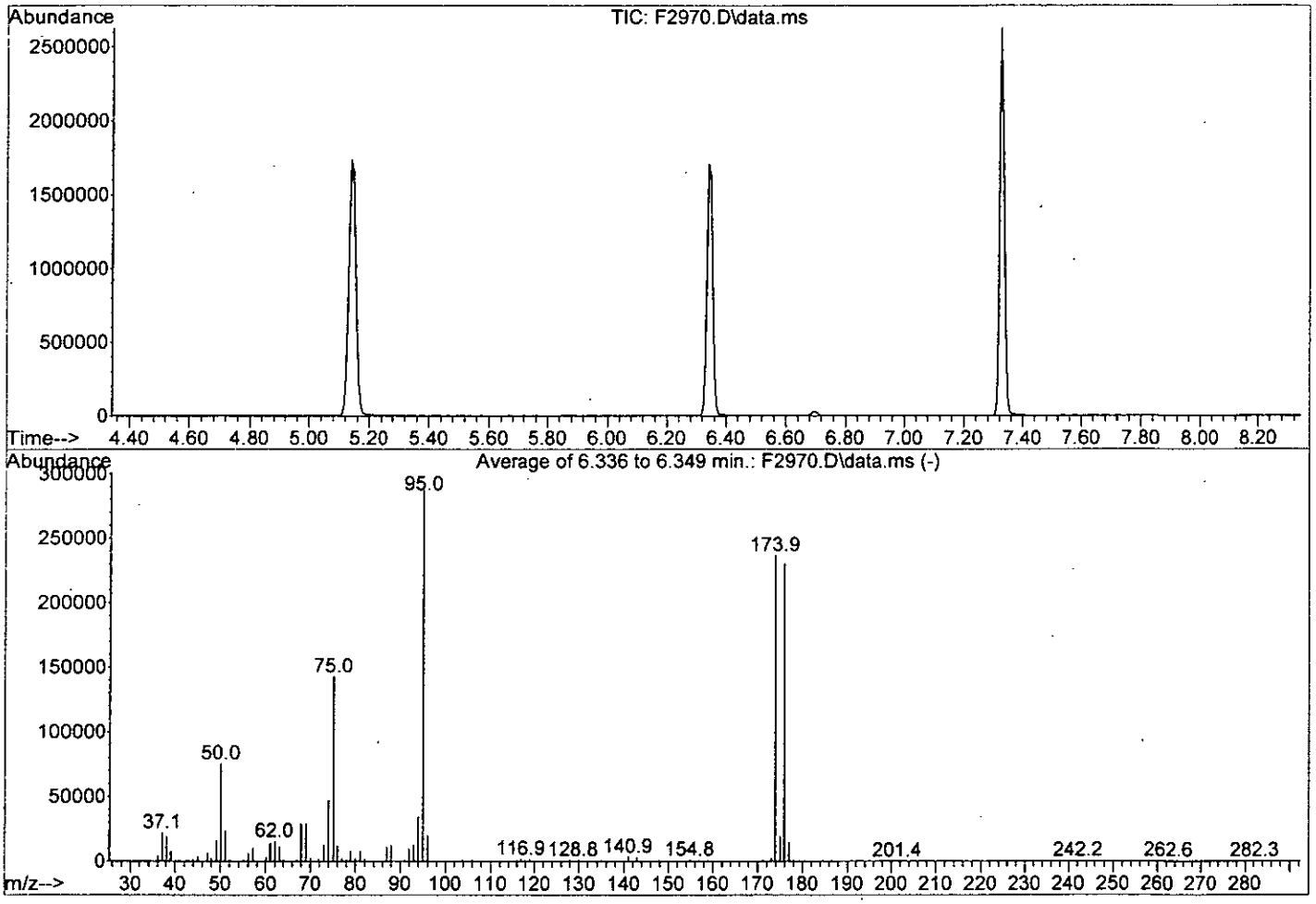
00592

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2970.D
Acq On : 9 Oct 2015 11:21 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: CPD4.P

FU 10/9/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 369, 370, 371; Background Corrected with Scan 363

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.2	75091	PASS
75	95	30	60	49.7	142349	PASS
95	95	100	100	100.0	286677	PASS
96	95	5	9	6.9	19726	PASS
173	174	0.00	2	1.0	2344	PASS
174	95	50	120	82.4	236245	PASS
175	174	5	9	8.0	18851	PASS
176	174	95	101	97.4	229995	PASS
177	176	5	9	6.3	14518	PASS

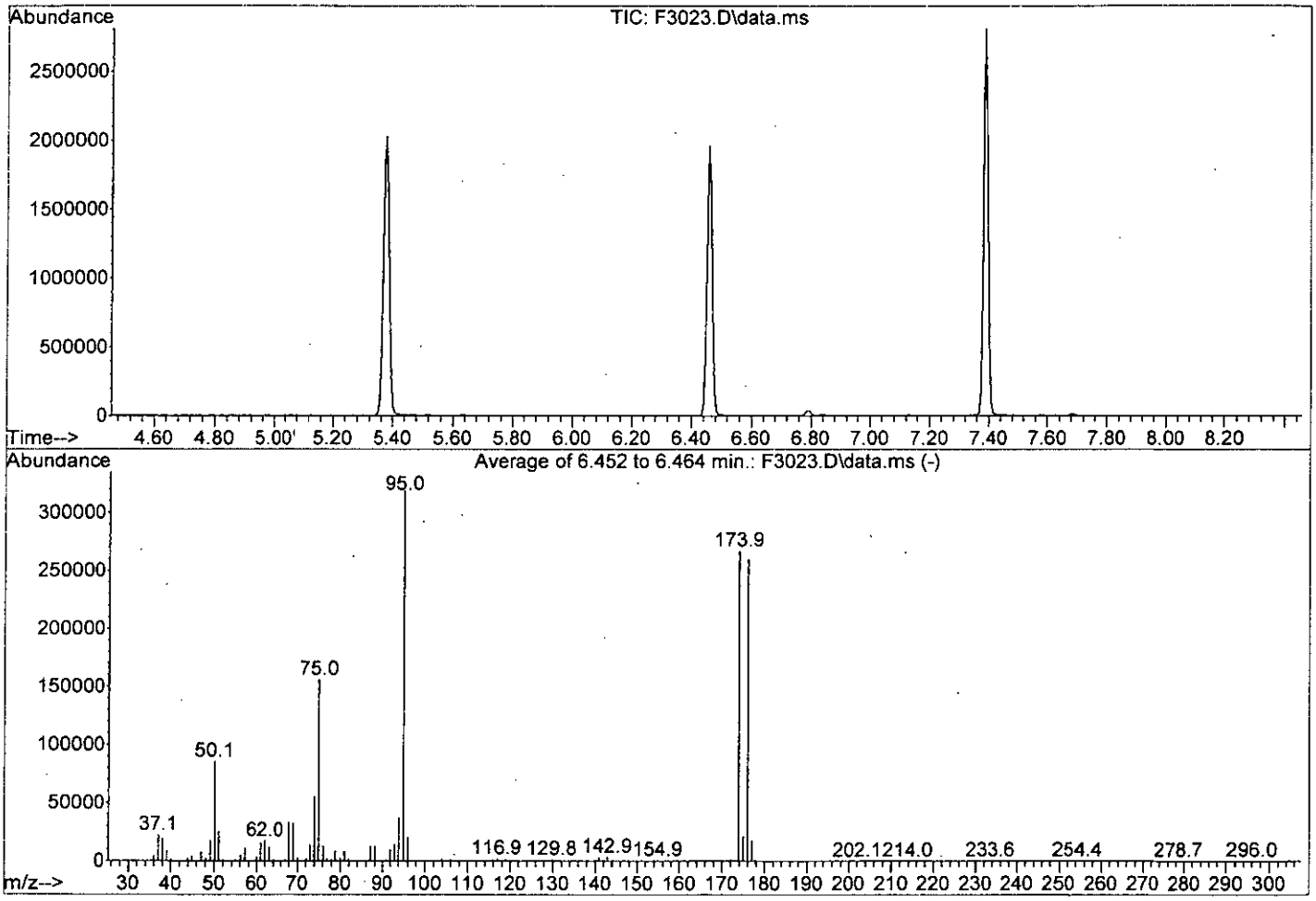
00593

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3023.D
Acq On : 12 Oct 2015 10:59 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

FJ 10/12/15

Method : I:\ACQUDATA\MSVOA10\METHODS\T091015.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.7	85256	PASS
75	95	30	60	48.8	155755	PASS
95	95	100	100	100.0	318955	PASS
96	95	5	9	6.4	20397	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.7	266987	PASS
175	174	5	9	7.8	20912	PASS
176	174	95	101	97.3	259883	PASS
177	176	5	9	6.6	17160	PASS

00594

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 13:18
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512289-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2919.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00595

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 13:18
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512289-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2919.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.24**	J	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00596

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 13:18
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1512289-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2919.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	75-120	10/8/15 13:18	
Dibromofluoromethane	91	85-115	10/8/15 13:18	
Toluene-d8	98	85-120	10/8/15 13:18	

00597

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 1318

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512289-01	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00598

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2919.D
Acq On : 8 Oct 2015 1:18 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 13 10:48:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	655233	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	952993	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	848727	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	446335	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	280823	45.67	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 91.34%			
46) surr1,1,2-dichloroetha...	6.031	65	381485	43.76	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 87.52%			
64) SURR3,Toluene-d8	8.488	98	1099998	49.08	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.16%			
69) SURR2,BFB	11.018	95	418200	45.19	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 90.38%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	1893	0.24	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

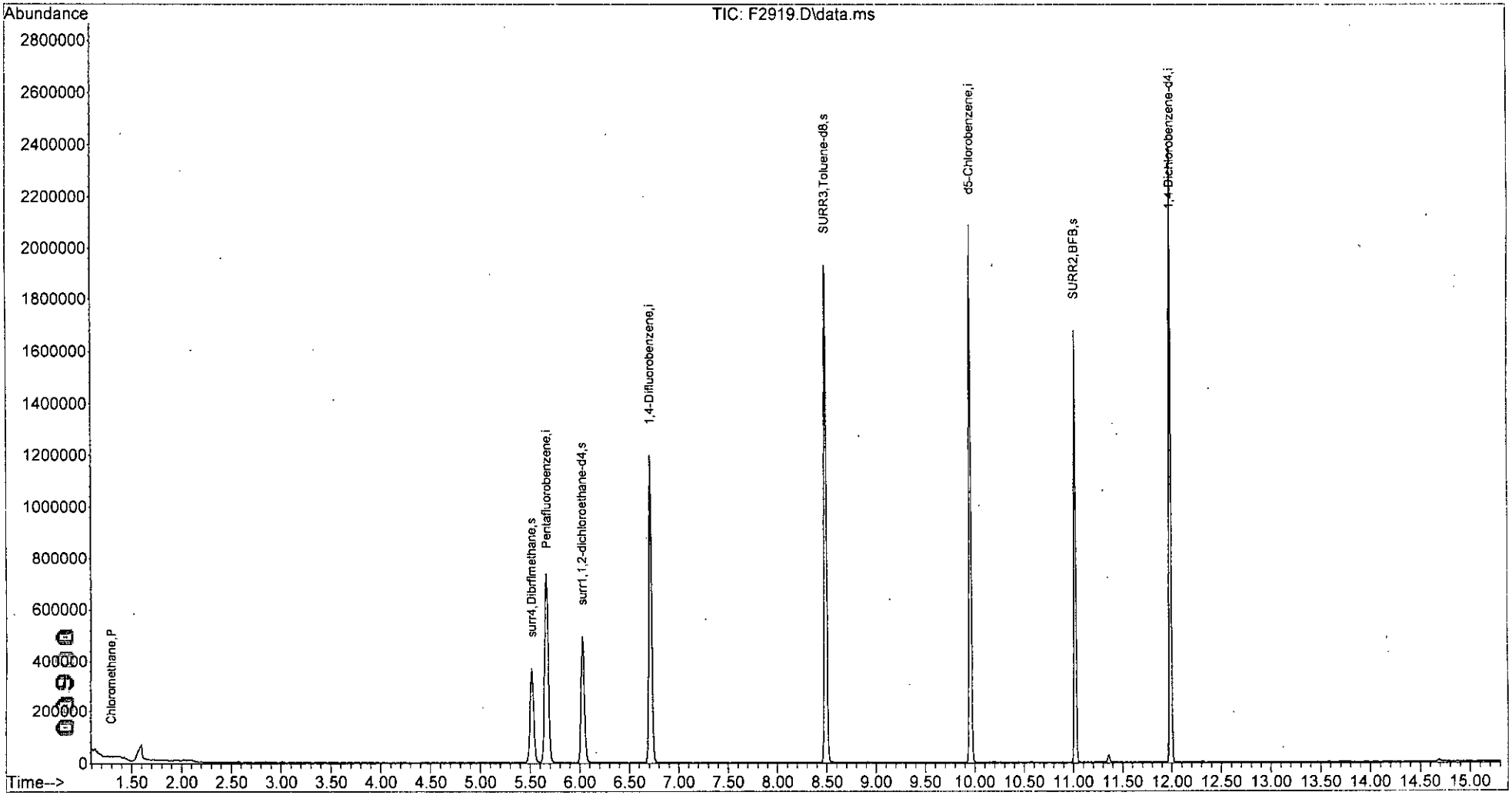
FJN 10/15/15

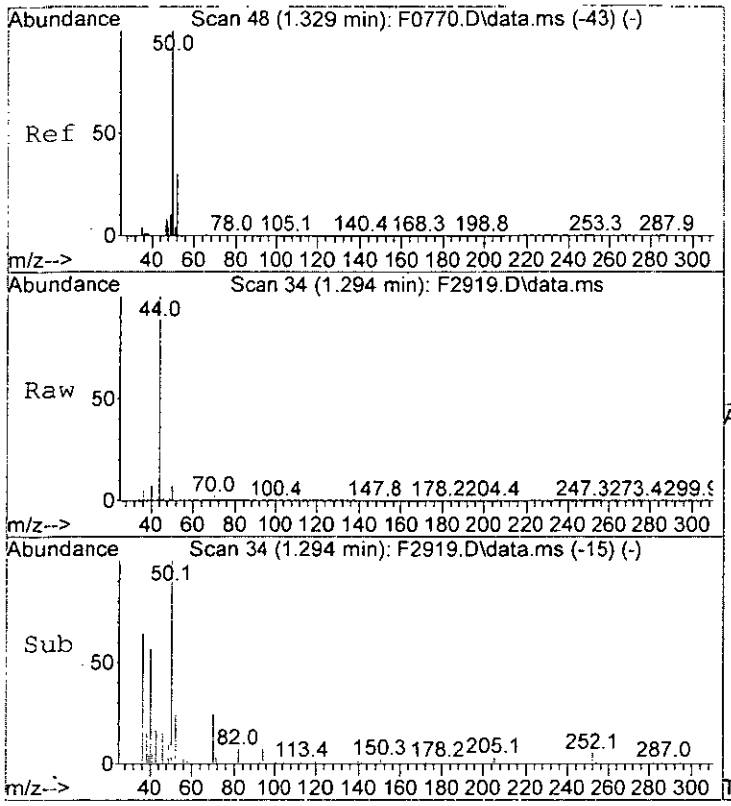
00599

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2919.D
Acq On : 8 Oct 2015 1:18 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 13 10:48:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

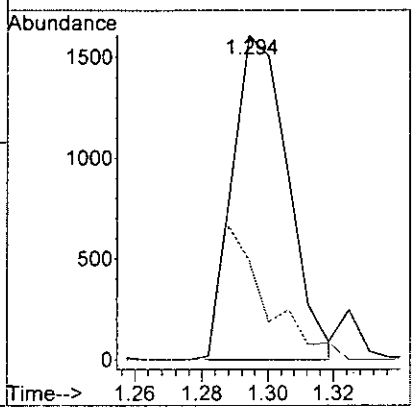




#3
Chloromethane
Concen: 0.24 ug/L
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: F2919.D
Acq: 8 Oct 2015 1:18 pm

Tgt Ion: 50 Resp: 1893

Ion	Ratio	Lower	Upper
50	100		
52	30.5	12.0	52.0



00601

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2919.D
Acq On : 8 Oct 2015 1:18 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2919.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	71	84	88	rBV3	60194	166386	5.28%	0.962%
2	5.519	715	727	739	rBV3	369310	920796	29.20%	5.326%
3	5.665	742	751	765	rVB	735937	1822079	57.78%	10.540%
4	6.031	798	811	821	rBV	492102	1129100	35.80%	6.531%
5	6.714	915	923	936	rBV	1196375	2307810	73.18%	13.349%
6	8.488	1205	1214	1227	rBV	1933763	3153708	100.00%	18.242%
7	9.957	1448	1455	1464	rBV	2086854	2763130	87.62%	15.983%
8	11.018	1624	1629	1635	rBV	1678283	2114788	67.06%	12.233%
9	11.359	1680	1685	1689	rVB3	27133	35848	1.14%	0.207%
10	11.987	1783	1788	1795	rVB	2385460	2874438	91.14%	16.627%

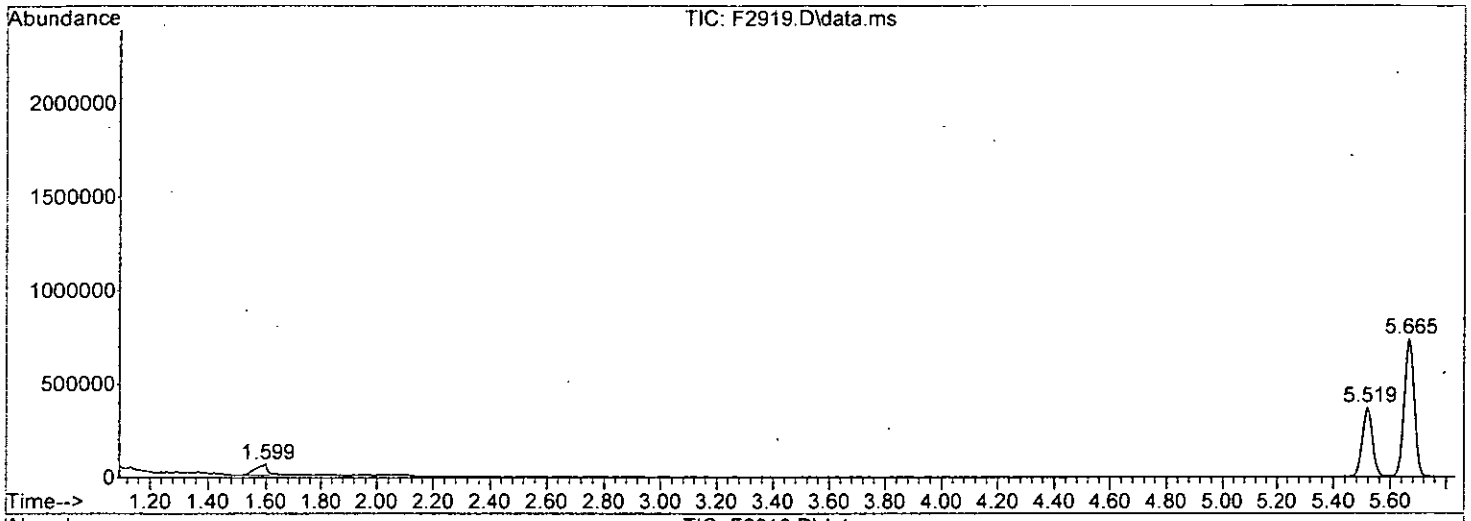
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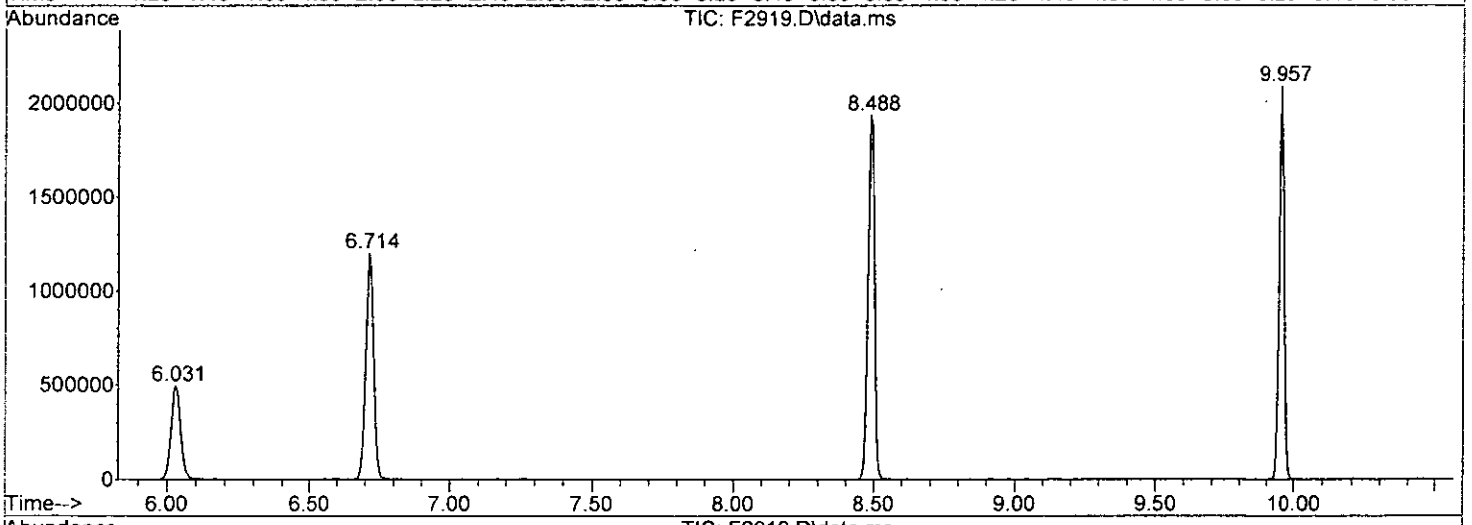
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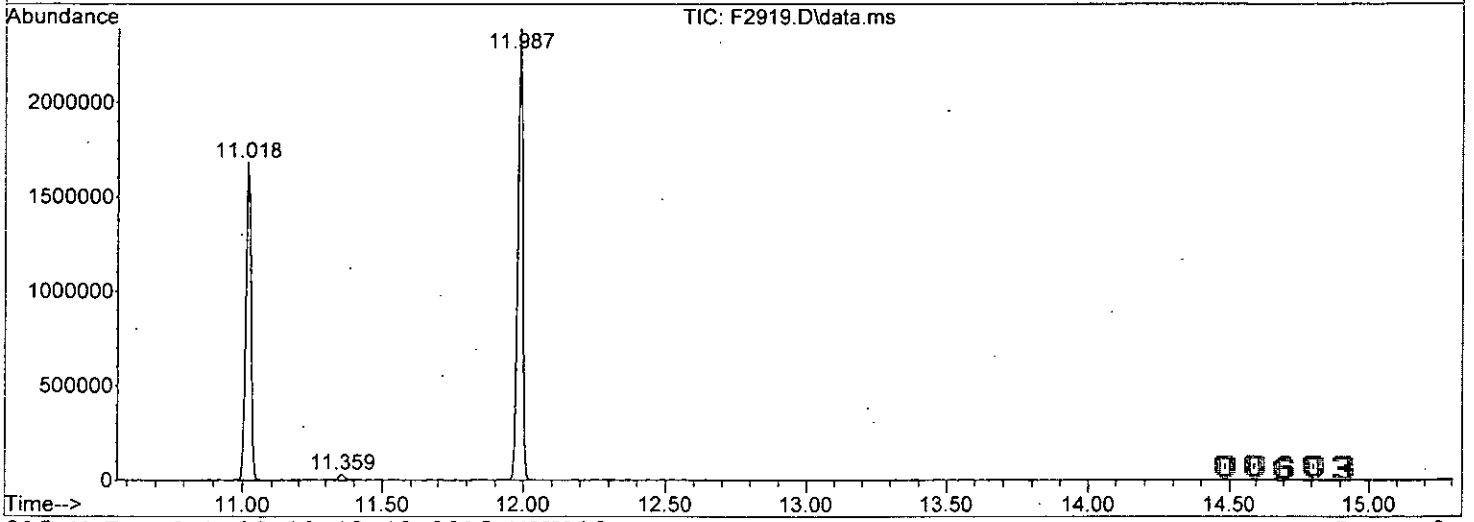
Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2919.D
Acq On : 8 Oct 2015 1:18 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P







Data Path : I:\ACQUDATA\msvoa10\data\100815\\
Data File : F2919.D
Acq On : 8 Oct 2015 1:18 pmm
Operator : F. Naeglerr
Sample : MBLK Inst : MSVOA100
Misc :
ALS Vial : 5 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

00604

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 13:48
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512398-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2975.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00605

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 13:48
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512398-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2975.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	**0.29**	**J**	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00606

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 13:48
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1512398-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2975.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/9/15 13:48	
Dibromofluoromethane	92	85-115	10/9/15 13:48	
Toluene-d8	97	85-120	10/9/15 13:48	

00607

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 1348

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512398-01	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00608

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2975.D
Acq On : 9 Oct 2015 1:48 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 14:18:36 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	659020	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	962503	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	861274	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	439626	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	285710	46.00	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 92.00%			
46) surr1,1,2-dichloroetha...	6.031	65	398574	45.27	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.54%			
64) SURR3,Toluene-d8	8.488	98	1098390	48.53	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.06%			
69) SURR2,BFB	11.018	95	436247	46.67	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.34%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	2276	0.29	ug/L #	58
5) Bromomethane	1.605	94	336	Below Cal	#	27
15) Acetone	2.422	43	1540	0.27	ug/L	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

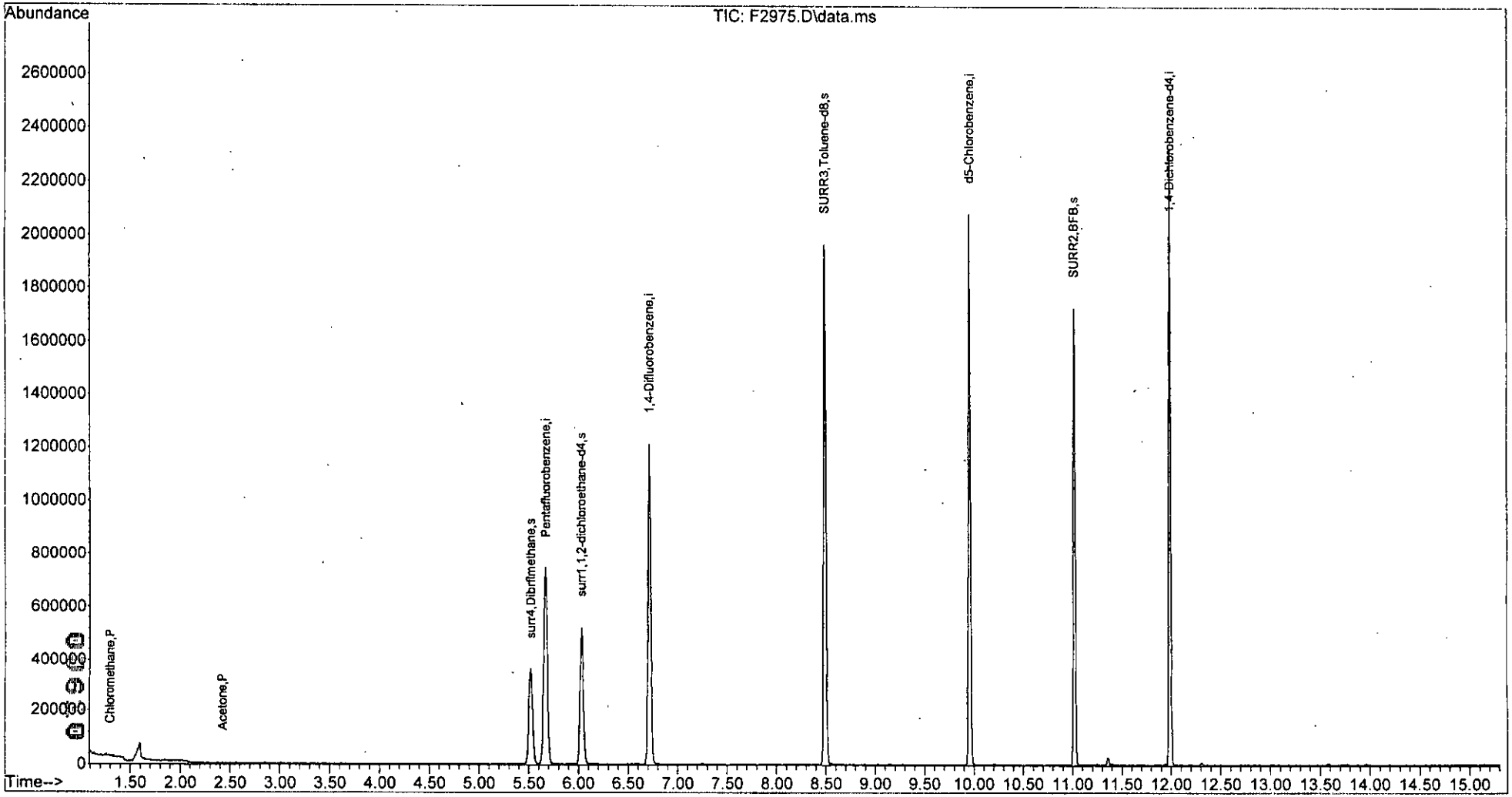
FU 10/14/15

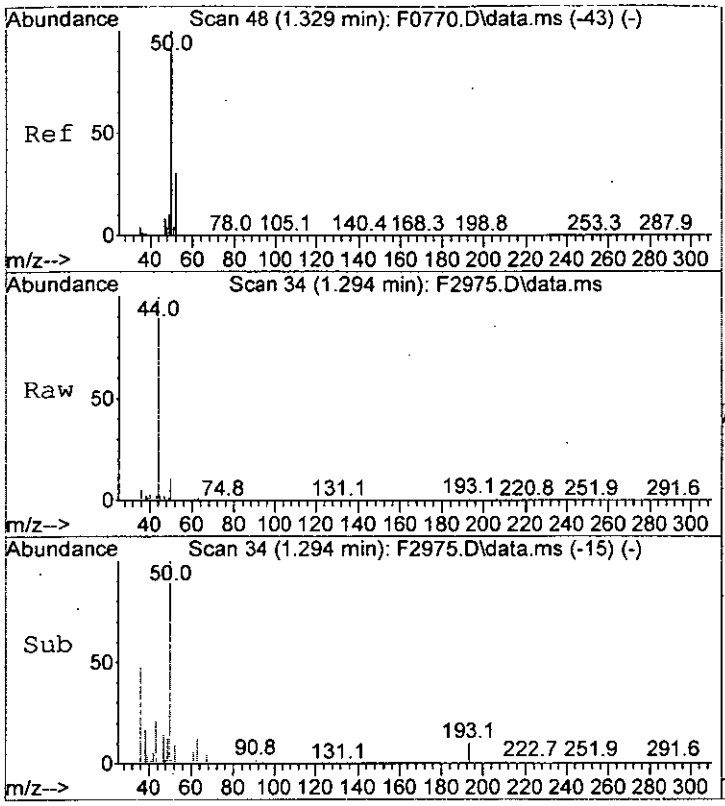
00609

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2975.D
Acq On : 9 Oct 2015 1:48 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 14:18:36 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

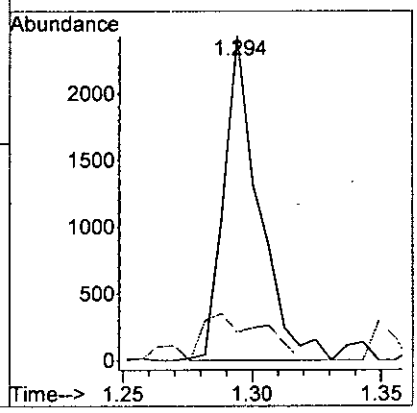


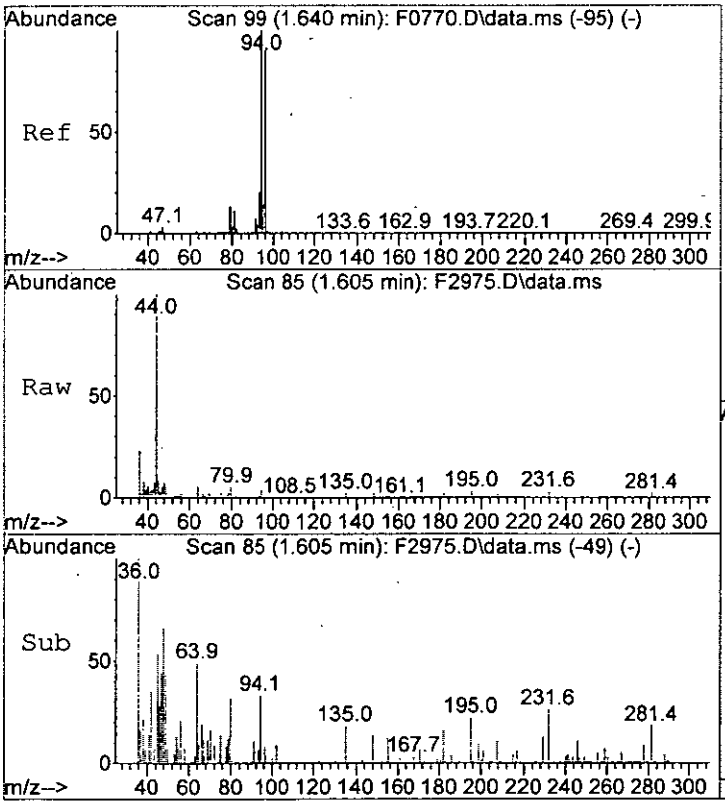


#3
Chloromethane
Concen: 0.29 ug/L
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: F2975.D
Acq: 9 Oct 2015 1:48 pm

Tgt Ion: 50 Resp: 2276

Ion	Ratio	Lower	Upper
50	100		
52	8.7	12.0	52.0#

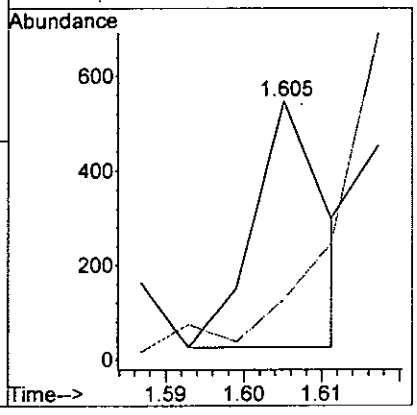




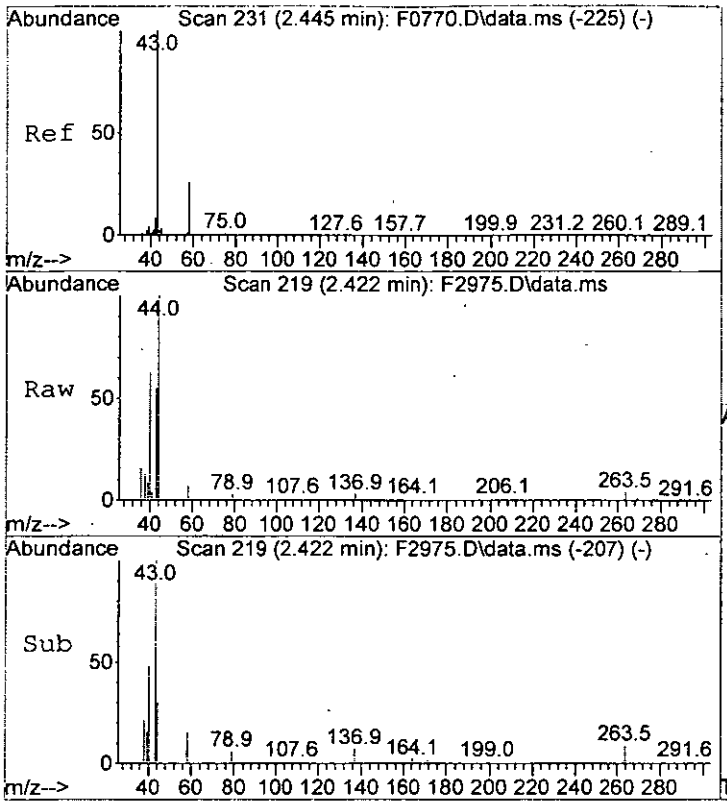
#5
Bromomethane
Concen: Below Cal
RT: 1.605 min Scan# 85
Delta R.T. -0.006 min
Lab File: F2975.D
Acq: 9 Oct 2015 1:48 pm

Tgt Ion: 94 Resp: 336

Ion	Ratio	Lower	Upper
94	100		
96	23.2	73.0	113.0#



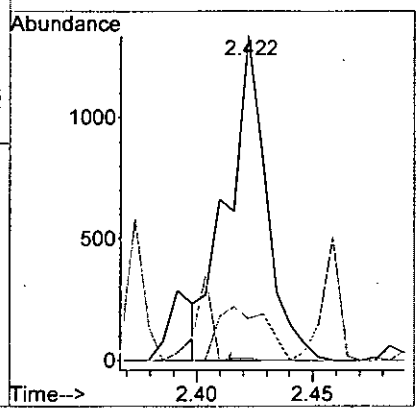
00611



#15
Acetone
Concen: 0.27 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F2975.D
Acq: 9 Oct 2015 1:48 pm

Tgt Ion: 43 Resp: 1540

Ion	Ratio	Lower	Upper
43	100		
58	12.8	6.1	46.1
42	0.8	0.0	28.3



00612

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2975.D
Acq On : 9 Oct 2015 1:48 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F2975.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.593	71	83	90	rBV3	68968	181538	5.68%	1.033%
2	5.519	715	727	738	rBV2	361047	933357	29.18%	5.312%
3	5.671	741	752	765	rVB	742669	1859359	58.13%	10.582%
4	6.031	803	811	823	rBV	518363	1145327	35.81%	6.518%
5	6.714	915	923	934	rBV	1211372	2355835	73.66%	13.408%
6	8.488	1207	1214	1228	rBV	1962406	3198380	100.00%	18.203%
7	9.957	1449	1455	1463	rVB	2077321	2796994	87.45%	15.918%
8	11.018	1624	1629	1637	rBV	1723608	2204480	68.92%	12.546%
9	11.359	1681	1685	1689	rBV2	26462	34586	1.08%	0.197%
10	11.987	1782	1788	1796	rVB	2319804	2861075	89.45%	16.283%

Sum of corrected areas: 17570931

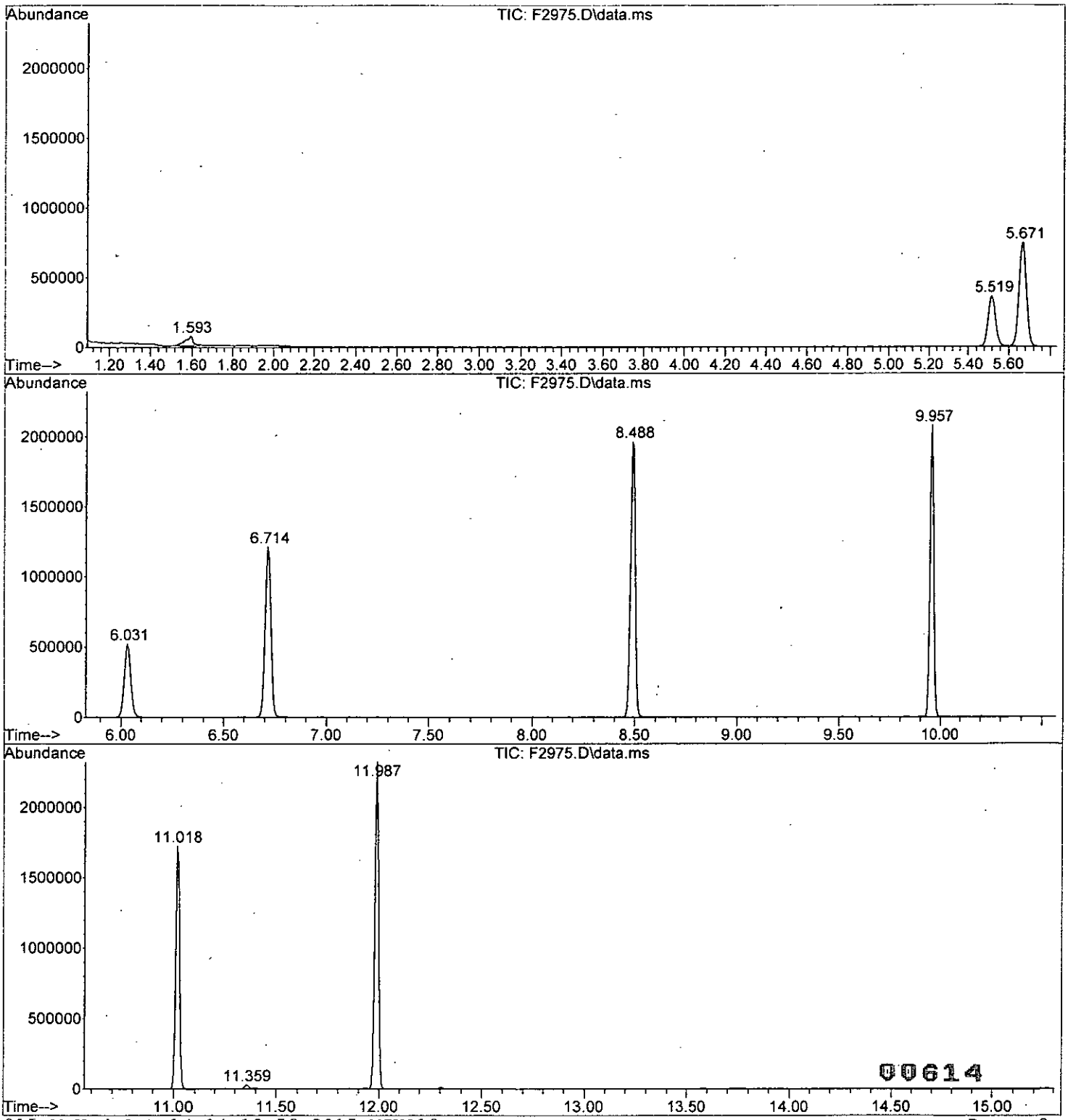
00613

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2975.D
Acq On : 9 Oct 2015 1:48 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100915\\
Data File : F2975.D
Acq On : 9 Oct 2015 1:48 pmm
Operator : F. Naeglerr
Sample : MBLK Inst : MSVOA100
Misc :
ALS Vial : 4 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00615

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 14:12
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512484-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3029.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	ND	U	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

00616

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 14:12
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512484-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3029.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

00617

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 14:12
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1512484-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3029.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	75-120	10/12/15 14:12	
Dibromofluoromethane	95	85-115	10/12/15 14:12	
Toluene-d8	99	85-120	10/12/15 14:12	

00618

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 1412

Tentatively Identified Compounds (TIC)
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1512484-01	**Basis:**	NA

Prep Method: EPA 5030C
Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

00619

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3029.D
Acq On : 12 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 14:56:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	681005	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1001129	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	900420	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	475138	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5:519	113	307151	47.55	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.10%			
46) surr1,1,2-dichloroetha...	6.031	65	413788	45.18	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.36%			
64) SURR3,Toluene-d8	8.494	98	1169026	49.65	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.30%			
69) SURR2,BFB	11.018	95	443400	45.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.20%			
Target Compounds						Qvalue
15) Acetone	2.422	43	2617	0.45	ug/L	84
115) Hexachlorobt	13.731	225	1191	0.24	ug/L #	38

(#) = qualifier out of range (m) = manual integration (+) = signals summed

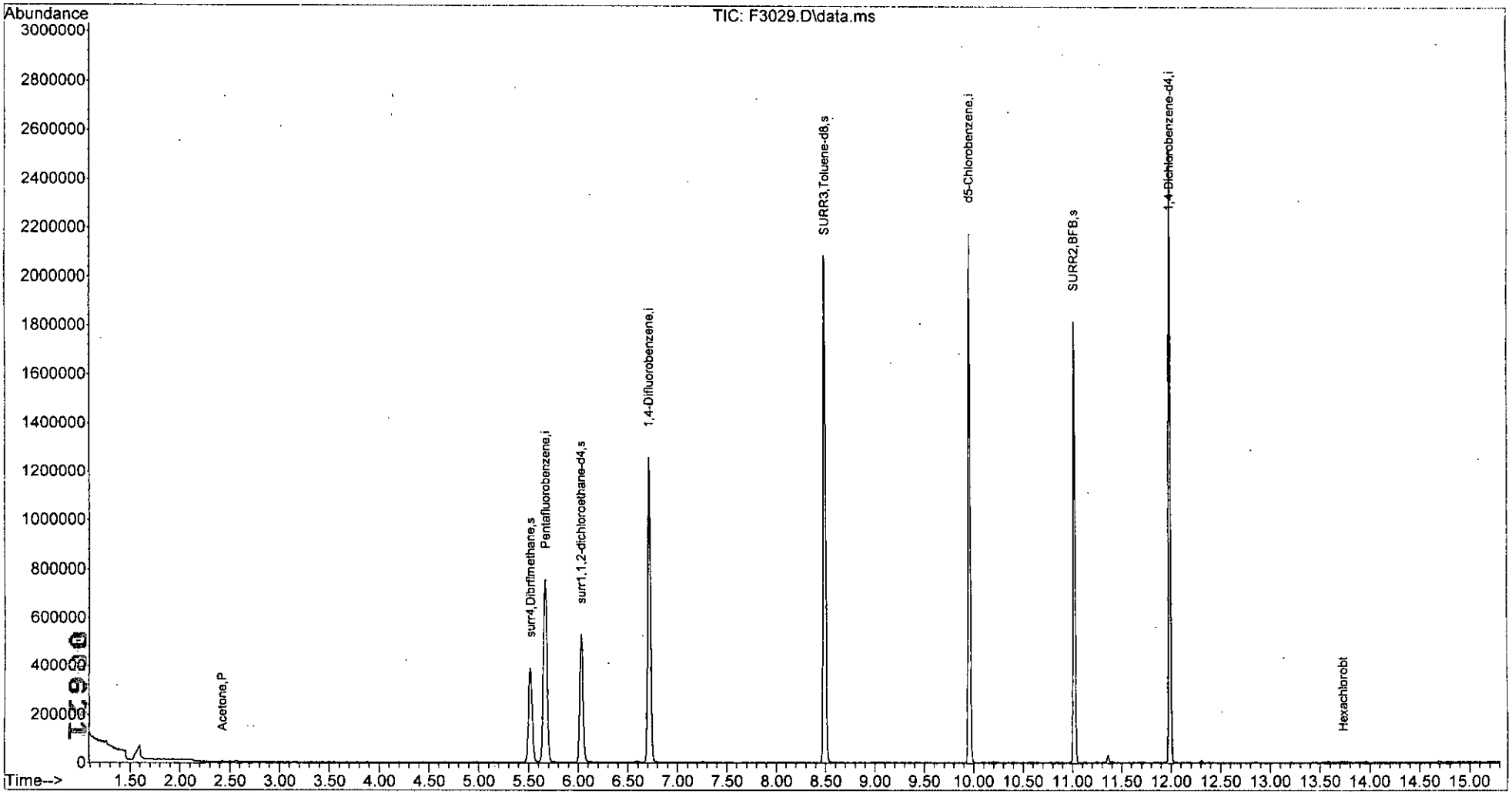
FV 12/15/15

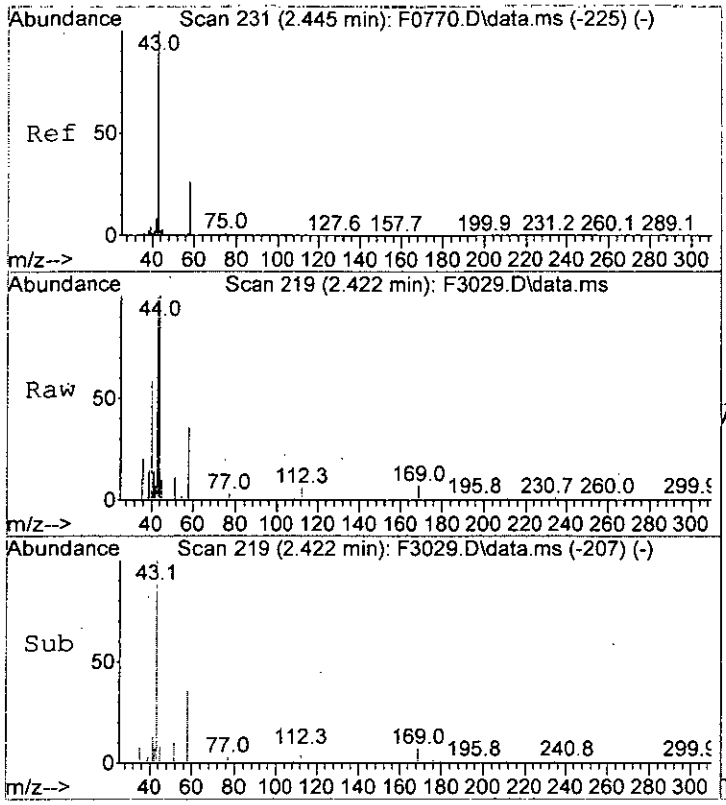
00620

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3029.D
Acq On : 12 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 15 14:56:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

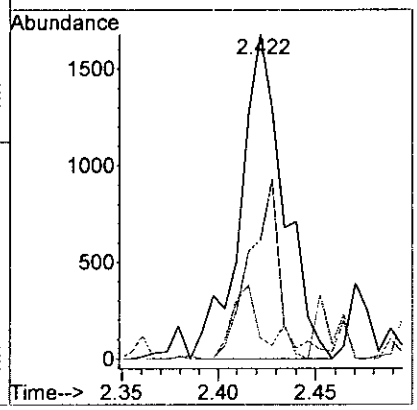


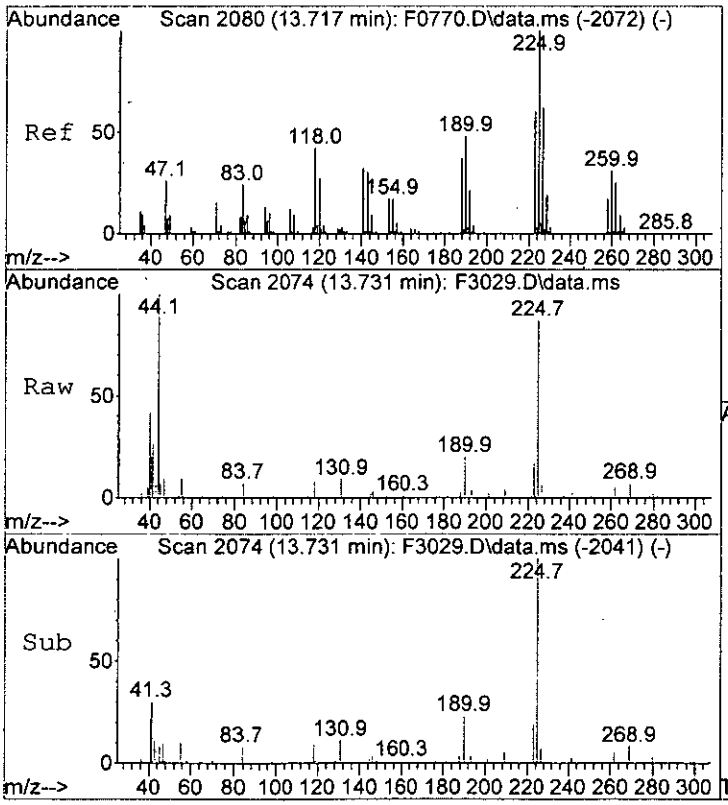


#15
Acetone
Concen: 0.45 ug/L
RT: 2.422 min Scan# 219
Delta R.T. 0.001 min
Lab File: F3029.D
Acq: 12 Oct 2015 2:12 pm

Tgt Ion: 43 Resp: 2617

Ion	Ratio	Lower	Upper
43	100		
58	36.4	6.1	46.1
42	6.6	0.0	28.3

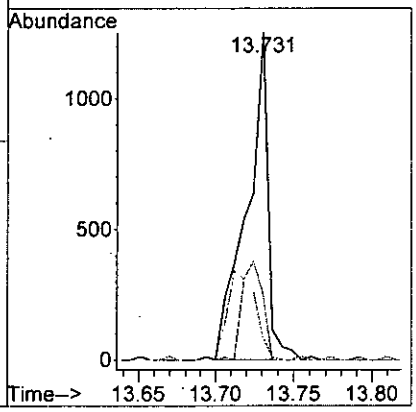




#115
Hexachlorobt
Concen: 0.24 ug/L
RT: 13.731 min Scan# 2074
Delta R.T. 0.006 min
Lab File: F3029.D
Acq: 12 Oct 2015 2:12 pm

Tgt Ion:225 Resp: 1191

Ion	Ratio	Lower	Upper
225	100		
223	20.3	40.2	80.2#
227	7.0	42.1	82.1#



00622

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3029.D
Acq On : 12 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: F3029.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	71	84	91	rBV5	62098	183722	5.46%	1.001%
2	5.519	716	727	741	rBV3	388167	1007790	29.96%	5.489%
3	5.671	741	752	763	rVV	752872	1903528	56.58%	10.368%
4	6.031	800	811	826	rBV	527638	1198508	35.63%	6.528%
5	6.714	914	923	932	rBV	1257122	2427428	72.15%	13.222%
6	8.488	1204	1214	1223	rBV	2087509	3364231	100.00%	18.324%
7	9.957	1449	1455	1466	rVB	2176380	2907914	86.44%	15.839%
8	11.018	1624	1629	1635	rBV	1815802	2283464	67.87%	12.437%
9	11.359	1680	1685	1689	rBV2	32491	39661	1.18%	0.216%
10	11.987	1783	1788	1796	rVB	2522564	3043312	90.46%	16.576%

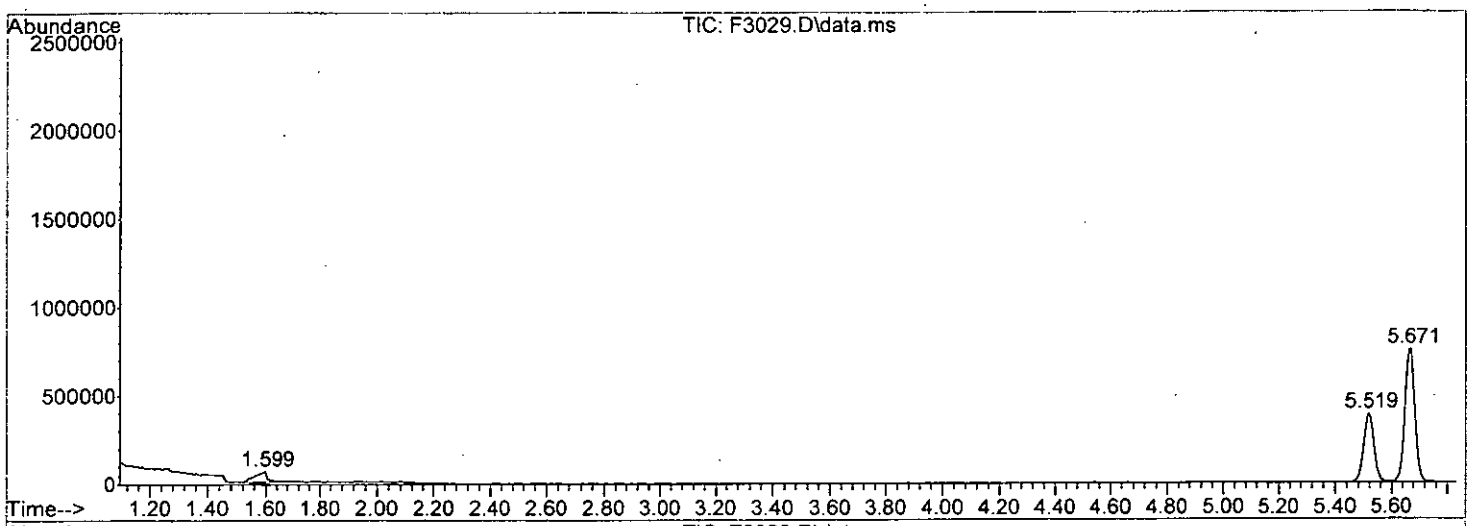
Sum of corrected areas: 18359558

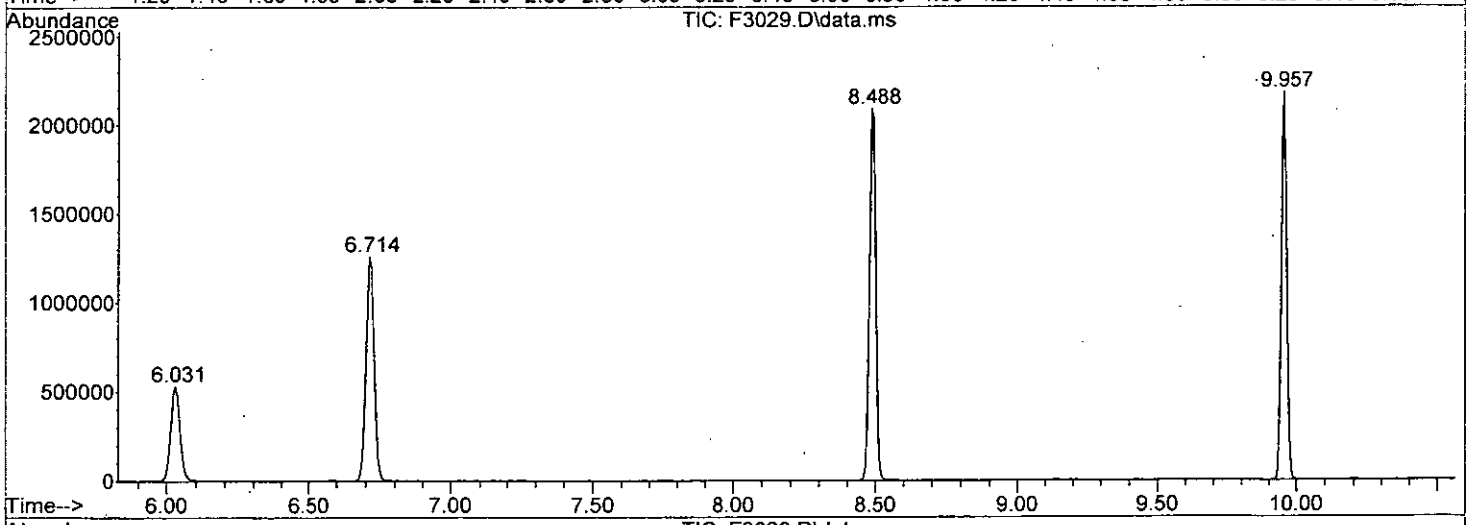
00623

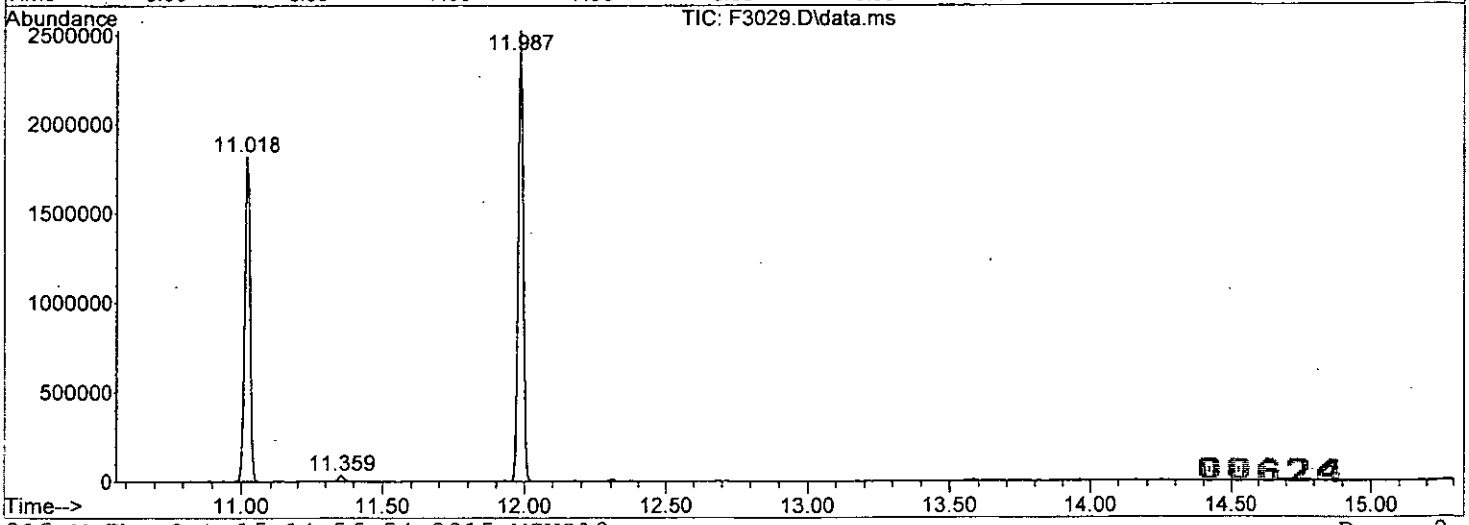
Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3029.D
Acq On : 12 Oct 2015 2:12 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\101215\\
Data File : F3029.D
Acq On : 12 Oct 2015 2:12 pmm
Operator : F. Naeglerr
Sample : MBLK Inst : MSVOA100
Misc :
ALS Vial : 5 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.MM
Quant Title : MS#10 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

00625

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 11:16
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512289-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2915.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**18.0**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**16.9**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**18.9**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**18.6**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**19.1**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**19.4**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**19.8**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**20.5**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**18.9**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**19.6**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**20.9**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**18.1**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**18.6**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**19.2**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**17.9**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**19.4**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**20.2**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**20.1**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**19.0**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**18.9**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**16.6**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**22.7**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**19.5**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**22.2**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**331**		100	20	11	
106-43-4	4-Chlorotoluene	**19.7**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**21.4**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**22.3**		5.0	1.0	0.67	
67-64-1	Acetone	**21.8**		5.0	5.0	1.3	
71-43-2	Benzene	**19.0**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**20.5**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**20.3**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**17.3**		5.0	1.0	0.32	
75-25-2	Bromoform	**16.3**		5.0	1.0	0.42	
74-83-9	Bromomethane	**25.2**		5.0	1.0	0.29	

00626

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 11:16
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512289-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2915.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**16.3**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**18.8**		5.0	1.0	0.29	
75-00-3	Chloroethane	**24.6**		5.0	1.0	0.24	
67-66-3	Chloroform	**17.9**		5.0	1.0	0.25	
74-87-3	Chloromethane	**33.2**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**18.4**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**26.5**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**18.0**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**18.4**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**21.0**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**19.8**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**19.6**		5.0	1.0	0.29	
91-20-3	Naphthalene	**21.9**		5.0	1.0	0.20	
100-42-5	Styrene	**20.3**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**18.5**		5.0	1.0	0.30	
108-88-3	Toluene	**19.1**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**18.6**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**21.0**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**27.2**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**18.6**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**19.0**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**39.8**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**20.5**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**20.9**		5.0	1.0	0.20	
95-47-6	o-Xylene	**19.2**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**20.5**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**21.1**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**19.6**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**18.7**		5.0	1.0	0.20	

00627

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 11:16
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	RQ1512289-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2915.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/8/15 11:16	
Dibromofluoromethane	96	85-115	10/8/15 11:16	
Toluene-d8	100	85-120	10/8/15 11:16	

00628

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2915.D
Acq On : 8 Oct 2015 11:16 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:49:38 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 10/8/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	663558	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.720	114	956451	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	865524	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	469018	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	297659	48.23	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.46%				
46) surr1,1,2-dichloroetha...	6.031	65	395961	45.25	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.50%				
64) SURR3,Toluene-d8	8.488	98	1120828	49.83	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.66%				
69) SURR2,BFB	11.018	95	430235	46.32	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.64%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	155928	26.53	ug/L		97
3) Chloromethane	1.294	50	265566	33.16	ug/L		96
4) Vinyl Chloride	1.379	62	188758	27.23	ug/L		92
5) Bromomethane	1.617	94	91518	25.20	ug/L		92
6) Chloroethane	1.702	64	102014	24.56	ug/L		98
7) Freon 21	1.867	67	279232	23.75	ug/L		97
8) Trichlorofluoromethane	1.910	101	187275	21.00	ug/L		99
9) Diethyl Ether	2.166	59	146274	22.42	ug/L		85
10) Freon 123a	2.172	67	168233	21.56	ug/L		98
11) Freon 123	2.233	83	169661	21.13	ug/L		96
12) Acrolein	2.275	56	85293	40.20	ug/L		94
13) 1,1-Diclethene	2.367	96	105321	19.40	ug/L		89
14) Freon 113	2.373	101	105905	17.48	ug/L		92
15) Acetone	2.416	43	123873	21.83	ug/L		98
16) 2-Propanol	2.574	45	423870	352.07	ug/L		96
17) Iodomethane	2.501	142	125541	16.69	ug/L		95
18) Carbon Disulfide	2.562	76	341106	20.58	ug/L		99
19) Acetonitrile	2.690	40	124458m	104.72	ug/L		
20) Allyl Chloride	2.720	76	60961	17.62	ug/L	#	1
21) Methyl Acetate	2.757	43	226924	22.12	ug/L		96
22) Methylene Chloride	2.849	84	122241	17.97	ug/L		97
23) TBA	3.013	59	550495	331.01	ug/L		86
24) Acrylonitrile	3.129	53	530236	119.12	ug/L		98
25) Methyl-t-Butyl Ether	3.184	73	442022	19.63	ug/L		96
26) trans-1,2-Dichloroethene	3.166	96	116753	19.55	ug/L		98
27) 1,1-Diclethane	3.708	63	242879	19.08	ug/L		99
28) Vinyl Acetate	3.818	86	31574	24.55	ug/L	#	77
29) DIPE	3.854	45	631413	21.62	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.836	53	282322	20.26	ug/L		99
31) ETBE	4.434	59	454637	18.67	ug/L		99
32) 2,2-Dichloropropane	4.604	77	156533	16.59	ug/L		96
33) cis-1,2-Dichloroethene	4.623	96	129154	18.59	ug/L		91
34) 2-Butanone	4.677	43	161911	22.66	ug/L		95
35) Propionitrile	4.769	54	211978	110.65	ug/L		94

00629

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2915.D
Acq On : 8 Oct 2015 11:16 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:49:38 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	88116	20.32	ug/L		86
37) Methacrylonitrile	5.061	67	78696	18.86	ug/L	#	55
38) Tetrahydrofuran	5.147	42	100479	20.42	ug/L		97
39) Chloroform	5.244	83	205902	17.94	ug/L		98
40) 1,1,1-Trichloroethane	5.519	97	169658	16.90	ug/L		99
42) Cyclohexane	5.598	41	195551	20.49	ug/L		97
44) Carbontetrachloride	5.787	121	42044	16.31	ug/L		90
45) 1,1-Dichloropropene	5.799	75	170197	19.76	ug/L		94
47) Benzene	6.104	78	487447	19.03	ug/L		88
48) 1,2-Dichloroethane	6.147	62	206537	17.87	ug/L		96
49) Iso-Butyl Alcohol	6.147	43	285308	326.96	ug/L		98
50) TAME	6.342	73	367756	17.58	ug/L		98
51) n-Heptane	6.586	43	286887	23.56	ug/L		97
52) 1-Butanol	7.073	56	362726	784.61	ug/L		87
53) Trichloroethene	7.031	130	141021	18.56	ug/L		96
54) Methylcyclohexane	7.262	55	233531	22.07	ug/L		97
55) 1,2-Diclpropane	7.305	63	144541	19.38	ug/L		99
56) Dibromomethane	7.445	93	85850	18.93	ug/L		89
57) 1,4-Dioxane	7.506	88	61141	377.41	ug/L		92
58) Methyl Methacrylate	7.531	69	123252	19.88	ug/L	#	75
59) Bromodichloromethane	7.671	83	151899	17.31	ug/L		95
60) 2-Nitropropane	7.951	41	65000	20.52	ug/L		84
61) 2-Chloroethylvinyl Ether	8.067	63	113234	20.39	ug/L		97
62) cis-1,3-Dichloropropene	8.201	75	195744	18.97	ug/L		97
63) 4-Methyl-2-pentanone	8.402	43	299972	22.26	ug/L		100
65) Toluene	8.561	91	509626	19.11	ug/L		98
66) trans-1,3-Dichloropropene	8.829	75	178400	18.72	ug/L		95
67) Ethyl Methacrylate	8.963	69	208969	19.54	ug/L		84
68) 1,1,2-Trichloroethane	9.012	97	117419	18.56	ug/L	#	86
71) Tetrachloroethene	9.140	164	103423	18.54	ug/L		88
72) 2-Hexanone	9.298	43	232000	22.15	ug/L		99
73) 1,3-Dichloropropane	9.177	76	217615	19.00	ug/L		92
74) Dibromochloromethane	9.402	129	122244	18.43	ug/L		98
75) N-Butyl Acetate	9.451	43	413130	21.95	ug/L		93
76) 1,2-Dibromoethane	9.494	107	130990	18.56	ug/L		96
78) Chlorobenzene	9.981	112	338793	18.84	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.067	131	111503	17.98	ug/L		95
81) Ethylbenzene	10.103	106	176196	18.41	ug/L		96
82) (m+p)Xylene	10.213	106	447965	39.79	ug/L		99
83) o-Xylene	10.567	106	225217	19.21	ug/L		91
84) Styrene	10.579	104	387099	20.26	ug/L		99
85) Bromoform	10.731	173	82358	16.27	ug/L		96
87) Isopropylbenzene	10.896	105	569926	19.76	ug/L		97
88) Cyclohexanone	10.957	55	919028	461.30	ug/L		95
89) trans-1,4-Dichloro-2-B...	11.201	53	71046	19.84	ug/L		94
91) 1,1,2,2-Tetrachloroethane	11.152	83	166632	18.89	ug/L		91
92) Bromobenzene	11.140	156	160776	20.47	ug/L		95
93) 1,2,3-Trichloropropane	11.182	110	58609	18.86	ug/L	#	90
94) n-Propylbenzene	11.249	91	704712	20.86	ug/L		98
95) 2-Chlorotoluene	11.310	91	402990	19.48	ug/L		99
97) 4-Chlorotoluene	11.402	91	483527	19.71	ug/L		99

00630

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2915.D
Acq On : 8 Oct 2015 11:16 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:49:38 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

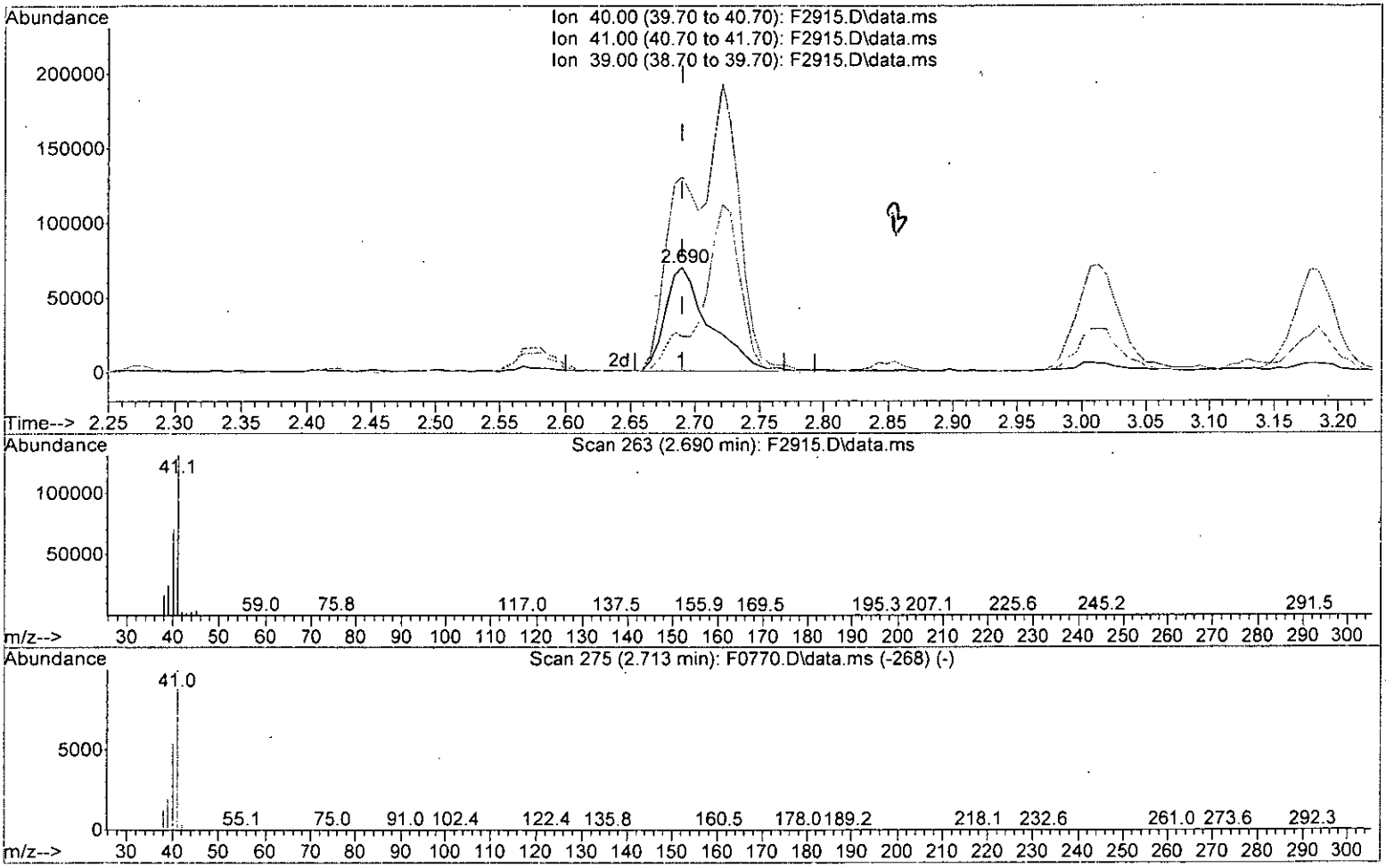
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
98)	1,3,5-Trimethylbenzene	11.402	105	484776	20.24 ug/L	97
99)	tert-Butylbenzene	11.670	119	428896	21.06 ug/L	97
100)	1,2,4-Trimethylbenzene	11.707	105	510361	20.90 ug/L	96
102)	sec-Butylbenzene	11.853	105	606576	20.45 ug/L	97
103)	p-Isopropyltoluene	11.975	119	538822	21.39 ug/L	99
104)	1,3-Dclbenz	11.932	146	296894	20.07 ug/L	97
105)	1,4-Dclbenz	12.005	146	299279	18.87 ug/L	100
108)	n-Butylbenzene	12.304	91	506333	20.48 ug/L	98
109)	1,2-Dclbenz	12.310	146	286275	19.18 ug/L	98
110)	1,2-Dibromo-3-chloropr...	12.926	157	43156	18.11 ug/L	92
114)	1,2,4-Tcbenzene	13.584	180	233296	19.55 ug/L	97
115)	Hexachlorobt	13.718	225	104093	21.01 ug/L	98
116)	Naphthalen	13.773	128	724198	21.92 ug/L	99
117)	1,2,3-Tclbenzene	13.962	180	242589	20.52 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

00631

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2915.D
Acq On : 8 Oct 2015 11:16 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 11:31:06 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2915.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 137.40 ug/L

response 163294

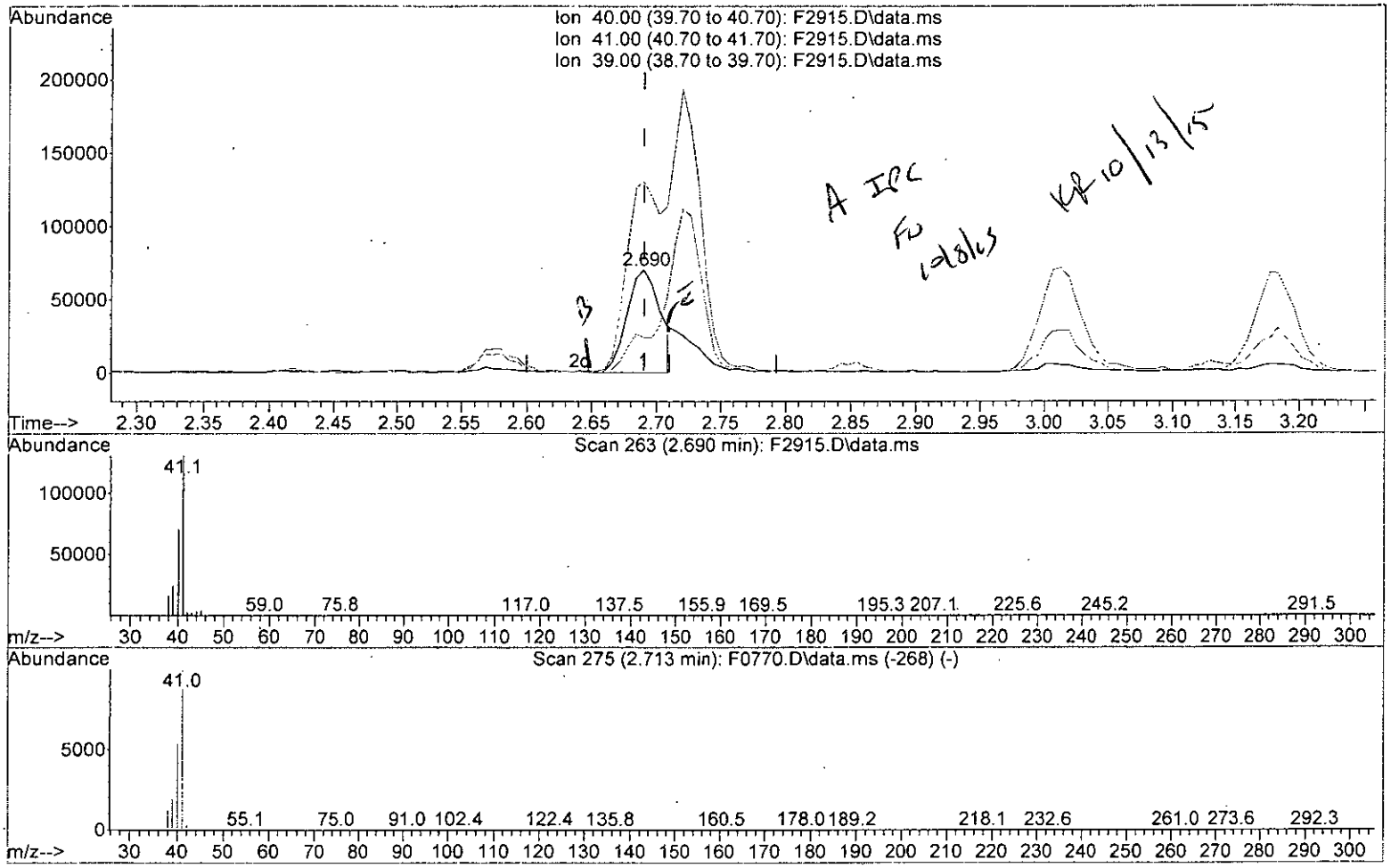
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	185.97
39.00	35.30	34.23
0.00	0.00	0.00

00632

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2915.D
Acq On : 8 Oct 2015 11:16 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 11:31:06 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2915.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 104.72 ug/L m

response 124458

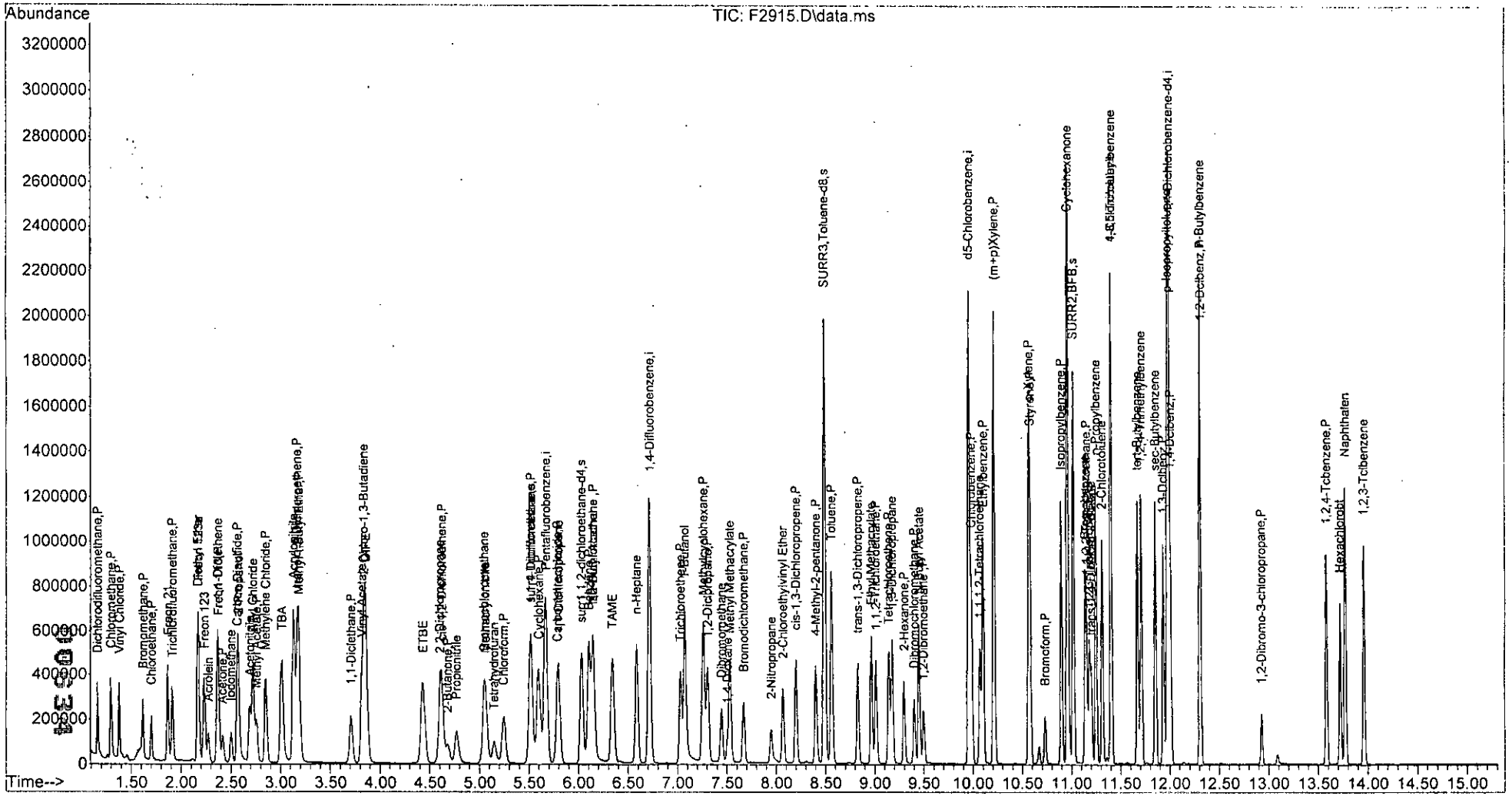
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	185.97
39.00	35.30	34.23
0.00	0.00	0.00

00633

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2915.D
Acq On : 8 Oct 2015 11:16 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:49:38 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 11:45
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512289-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2916.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**18.3**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**17.2**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**18.6**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**19.3**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**19.6**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**19.1**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**19.2**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**20.9**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**18.9**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**21.0**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**21.7**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**18.2**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**19.1**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**19.9**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**18.7**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**20.4**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**21.4**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**20.4**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**19.3**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**19.4**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**17.2**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**24.0**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**20.3**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**22.4**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**331**		100	20	11	
106-43-4	4-Chlorotoluene	**20.6**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**22.6**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**23.1**		5.0	1.0	0.67	
67-64-1	Acetone	**21.6**		5.0	5.0	1.3	
71-43-2	Benzene	**19.1**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**20.2**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**20.2**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**17.5**		5.0	1.0	0.32	
75-25-2	Bromoform	**16.3**		5.0	1.0	0.42	
74-83-9	Bromomethane	**25.9**		5.0	1.0	0.29	

00635

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 11:45
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512289-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2916.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**17.9**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**19.9**		5.0	1.0	0.29	
75-00-3	Chloroethane	**25.6**		5.0	1.0	0.24	
67-66-3	Chloroform	**18.7**		5.0	1.0	0.25	
74-87-3	Chloromethane	**33.4**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**18.1**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**26.8**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**18.1**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**20.2**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**22.0**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**20.2**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**19.7**		5.0	1.0	0.29	
91-20-3	Naphthalene	**22.1**		5.0	1.0	0.20	
100-42-5	Styrene	**19.9**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**18.5**		5.0	1.0	0.30	
108-88-3	Toluene	**19.5**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**18.4**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**21.0**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**27.4**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**19.2**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**19.1**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**40.3**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**21.5**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**21.1**		5.0	1.0	0.20	
95-47-6	o-Xylene	**19.1**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**21.1**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**22.0**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**19.3**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**18.9**		5.0	1.0	0.20	

00636

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/8/15 11:45
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	RQ1512289-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	465971
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100815\F2916.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	75-120	10/8/15 11:45	
Dibromofluoromethane	98	85-115	10/8/15 11:45	
Toluene-d8	100	85-120	10/8/15 11:45	

00637

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2916.D
Acq On : 8 Oct 2015 11:45 am
Operator : F. Naegler
Sample : LCSD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:51:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FV 10/8/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	639632	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	930786	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	835285	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	444794	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	294555	49.04	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.08%				
46) surr1,1,2-dichloroetha...	6.031	65	385187	45.24	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.48%				
64) SURR3,Toluene-d8	8.488	98	1099688	50.24	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.48%				
69) SURR2,BFB	11.018	95	415570	45.97	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	151869	26.81	ug/L		98
3) Chloromethane	1.294	50	257914	33.41	ug/L		99
4) Vinyl Chloride	1.379	62	182770	27.35	ug/L		98
5) Bromomethane	1.617	94	90450	25.93	ug/L		94
6) Chloroethane	1.703	64	102324	25.56	ug/L		92
7) Freon 21	1.867	67	269816	23.81	ug/L		96
8) Trichlorofluoromethane	1.916	101	180391	20.98	ug/L		94
9) Diethyl Ether	2.166	59	148300	23.58	ug/L		90
10) Freon 123a	2.178	67	170511	22.67	ug/L		99
11) Freon 123	2.233	83	163061	21.07	ug/L		99
12) Acrolein	2.276	56	82998	40.58	ug/L		99
13) 1,1-Diclethene	2.367	96	100148	19.14	ug/L		96
14) Freon 113	2.379	101	101907	17.45	ug/L		97
15) Acetone	2.416	43	118168	21.60	ug/L		97
16) 2-Propanol	2.574	45	420827	362.62	ug/L		89
17) Iodomethane	2.501	142	146267	19.81	ug/L		95
18) Carbon Disulfide	2.568	76	335889	21.03	ug/L		99
19) Acetonitrile	2.690	40	120039m	104.78	ug/L		
20) Allyl Chloride	2.727	76	59381	17.80	ug/L	#	19
21) Methyl Acetate	2.757	43	218504	22.10	ug/L		96
22) Methylene Chloride	2.855	84	118777	18.12	ug/L		96
23) TBA	3.013	59	531281	331.41	ug/L		89
24) Acrylonitrile	3.129	53	506748	118.10	ug/L		100
25) Methyl-t-Butyl Ether	3.184	73	427744	19.71	ug/L		98
26) trans-1,2-Dichloroethene	3.166	96	111069	19.29	ug/L		98
27) 1,1-Diclethane	3.708	63	240863	19.63	ug/L		98
28) Vinyl Acetate	3.818	86	28145	22.71	ug/L	#	53
29) DIPE	3.855	45	623958	22.17	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.842	53	273890	20.39	ug/L		92
31) ETBE	4.428	59	443930	18.91	ug/L		97
32) 2,2-Dichloropropane	4.611	77	156101	17.17	ug/L		99
33) cis-1,2-Dichloroethene	4.623	96	128415	19.18	ug/L	#	82
34) 2-Butanone	4.684	43	165193	23.99	ug/L		96
35) Propionitrile	4.775	54	207226	112.22	ug/L		98

00638

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2916.D
Acq On : 8 Oct 2015 11:45 am
Operator : F. Naegler
Sample : LCSD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:51:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.043	130	84402	20.19	ug/L		94
37) Methacrylonitrile	5.062	67	80469	20.01	ug/L	#	71
38) Tetrahydrofuran	5.141	42	100681	21.23	ug/L		97
39) Chloroform	5.251	83	207313	18.74	ug/L		93
40) 1,1,1-Trichloroethane	5.519	97	166187	17.18	ug/L		95
42) Cyclohexane	5.598	41	186814	20.11	ug/L		97
44) Carbontetrachloride	5.787	121	44884	17.89	ug/L		94
45) 1,1-Dichloropropene	5.799	75	160519	19.15	ug/L		94
47) Benzene	6.104	78	474819	19.05	ug/L		88
48) 1,2-Dichloroethane	6.147	62	210022	18.67	ug/L		97
49) Iso-Butyl Alcohol	6.147	43	283243	333.54	ug/L		99
50) TAME	6.342	73	360860	17.73	ug/L		98
51) n-Heptane	6.586	43	277123	23.39	ug/L		96
52) 1-Butanol	7.073	56	341314	758.65	ug/L		85
53) Trichloroethene	7.037	130	135763	18.36	ug/L		90
54) Methylcyclohexane	7.256	55	228657	22.20	ug/L		94
55) 1,2-Dicipropane	7.305	63	148227	20.42	ug/L		100
56) Dibromomethane	7.445	93	78010	17.68	ug/L	#	84
57) 1,4-Dioxane	7.500	88	57468	364.52	ug/L		84
58) Methyl Methacrylate	7.531	69	119091	19.74	ug/L	#	83
59) Bromodichloromethane	7.665	83	149414	17.50	ug/L		98
60) 2-Nitropropane	7.945	41	62415	20.24	ug/L		99
61) 2-Chloroethylvinyl Ether	8.073	63	106548	19.71	ug/L		90
62) cis-1,3-Dichloropropene	8.201	75	191949	19.12	ug/L		97
63) 4-Methyl-2-pentanone	8.402	43	302675	23.08	ug/L		93
65) Toluene	8.561	91	507258	19.54	ug/L		96
66) trans-1,3-Dichloropropene	8.829	75	175173	18.89	ug/L		96
67) Ethyl Methacrylate	8.963	69	210657	20.24	ug/L		91
68) 1,1,2-Trichloroethane	9.012	97	119122	19.34	ug/L		88
71) Tetrachloroethene	9.146	164	99706	18.52	ug/L		91
72) 2-Hexanone	9.299	43	226445	22.40	ug/L		93
73) 1,3-Dichloropropane	9.177	76	212800	19.25	ug/L		99
74) Dibromochloromethane	9.402	129	116015	18.12	ug/L		93
75) N-Butyl Acetate	9.451	43	397612	21.89	ug/L		95
76) 1,2-Dibromoethane	9.494	107	130228	19.12	ug/L		96
78) Chlorobenzene	9.981	112	345272	19.89	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.073	131	109519	18.30	ug/L		97
81) Ethylbenzene	10.103	106	186075	20.15	ug/L	#	91
82) (m+p)Xylene	10.213	106	437724	40.29	ug/L		98
83) o-Xylene	10.567	106	216246	19.11	ug/L		95
84) Styrene	10.579	104	366955	19.90	ug/L		99
85) Bromoform	10.731	173	79601	16.29	ug/L		95
87) Isopropylbenzene	10.896	105	562385	20.20	ug/L		100
88) Cyclohexanone	10.957	55	887402	461.55	ug/L		93
89) trans-1,4-Dichloro-2-B...	11.201	53	69803	20.20	ug/L		87
91) 1,1,2,2-Tetrachloroethane	11.152	83	155935	18.64	ug/L		93
92) Bromobenzene	11.140	156	150534	20.21	ug/L		96
93) 1,2,3-Trichloropropane	11.182	110	55549	18.85	ug/L	#	78
94) n-Propylbenzene	11.249	91	674869	21.07	ug/L		98
95) 2-Chlorotoluene	11.310	91	397851	20.28	ug/L		99
97) 4-Chlorotoluene	11.402	91	478978	20.59	ug/L		98

00639

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2916.D
Acq On : 8 Oct 2015 11:45 am
Operator : F. Naegler
Sample : LCSD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:51:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

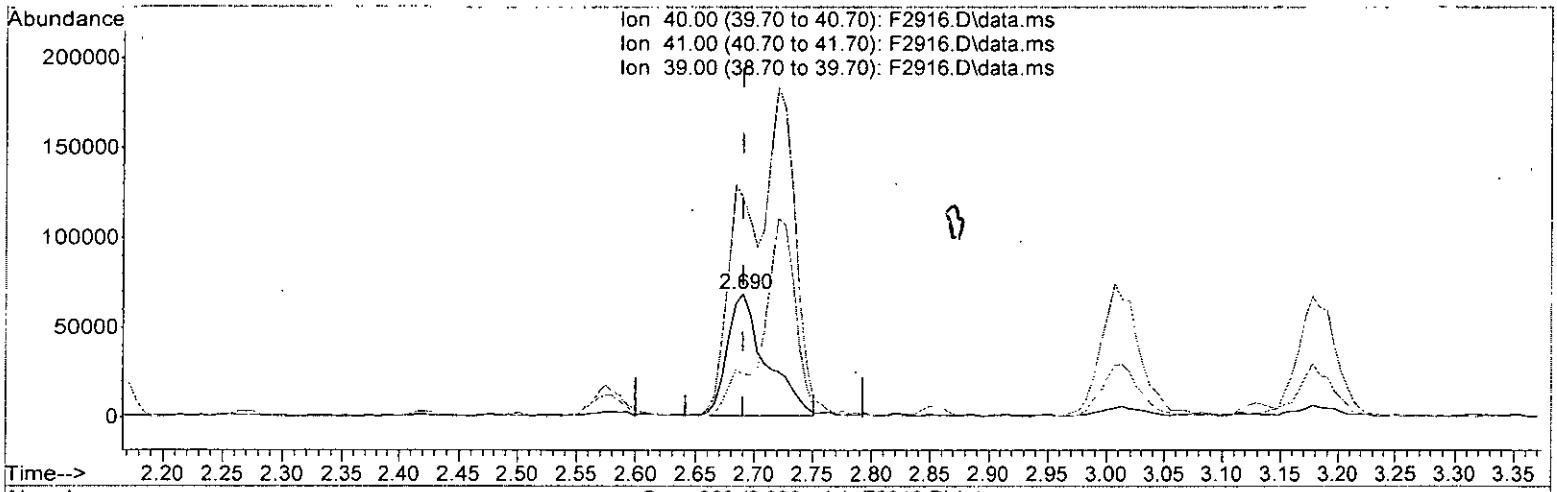
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	1,3,5-Trimethylbenzene	11.402	105	485227	21.36	ug/L	96
99)	tert-Butylbenzene	11.670	119	424271	21.97	ug/L	98
100)	1,2,4-Trimethylbenzene	11.707	105	502567	21.70	ug/L	97
102)	sec-Butylbenzene	11.853	105	592704	21.07	ug/L	98
103)	p-Isopropyltoluene	11.975	119	540366	22.62	ug/L	98
104)	1,3-Dclbenz	11.932	146	286592	20.43	ug/L	99
105)	1,4-Dclbenz	12.005	146	291992	19.42	ug/L	98
108)	n-Butylbenzene	12.304	91	503798	21.48	ug/L	99
109)	1,2-Dclbenz	12.310	146	281371	19.88	ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.926	157	41145	18.21	ug/L	93
114)	1,2,4-Tcbenzene	13.584	180	237214	20.96	ug/L	96
115)	Hexachlorobt	13.719	225	103313	21.99	ug/L	98
116)	Naphthalen	13.773	128	692886	22.11	ug/L	99
117)	1,2,3-Tclbenzene	13.962	180	234707	20.94	ug/L	95

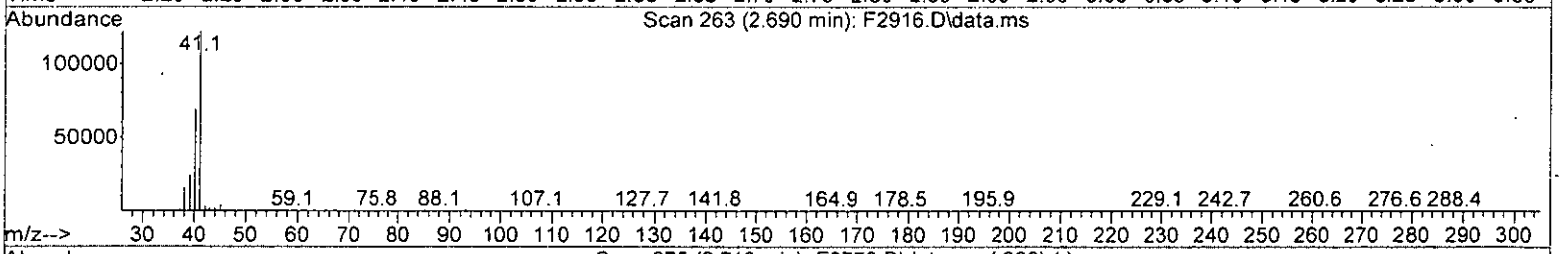
(#) = qualifier out of range (m) = manual integration (+) = signals summed

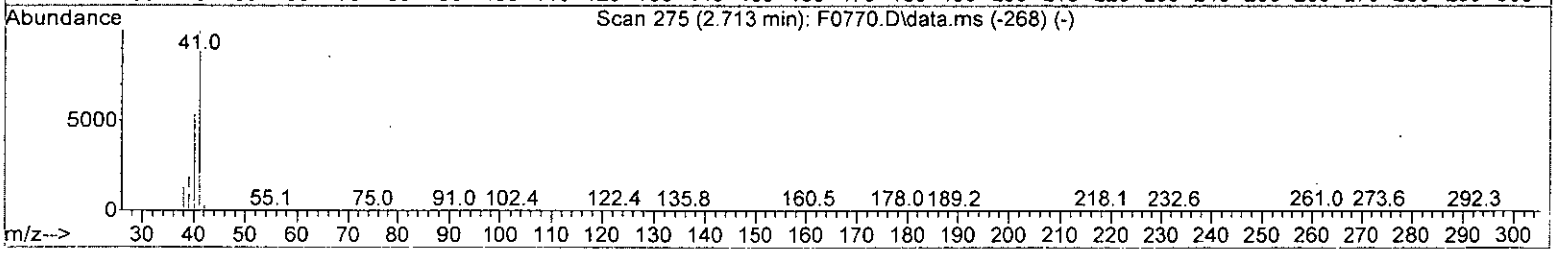
00640

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2916.D
Acq On : 8 Oct 2015 11:45 am
Operator : F. Naegler
Sample : LCSD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:00:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2916.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 135.17 ug/L

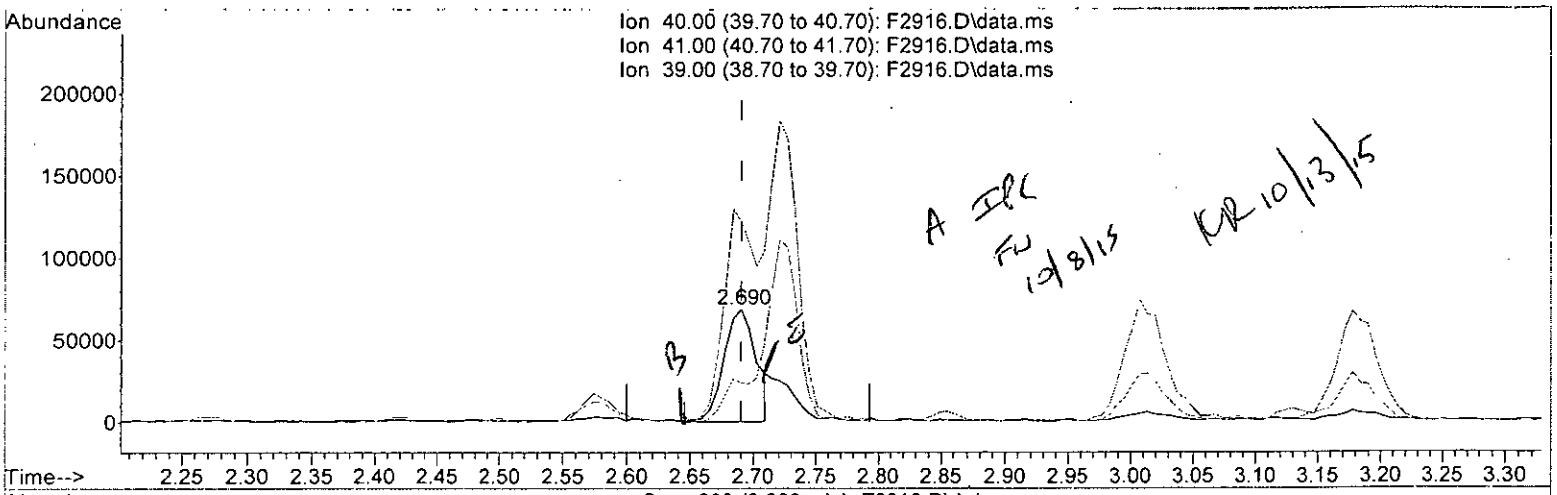
response 154855

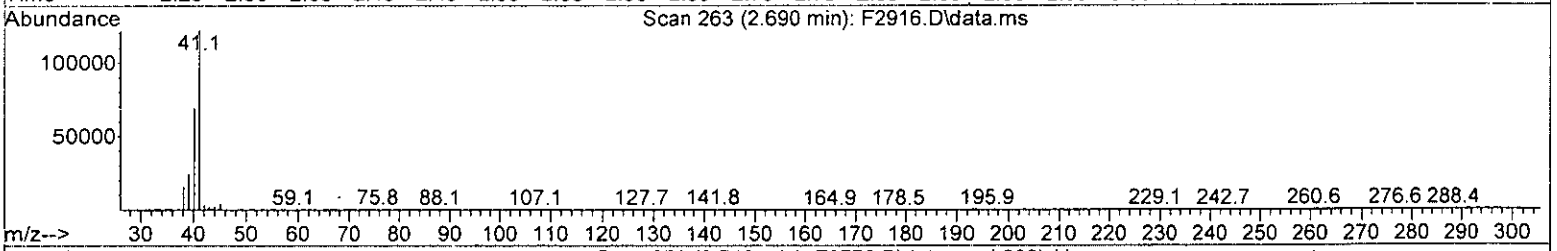
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	177.36
39.00	35.30	35.00
0.00	0.00	0.00

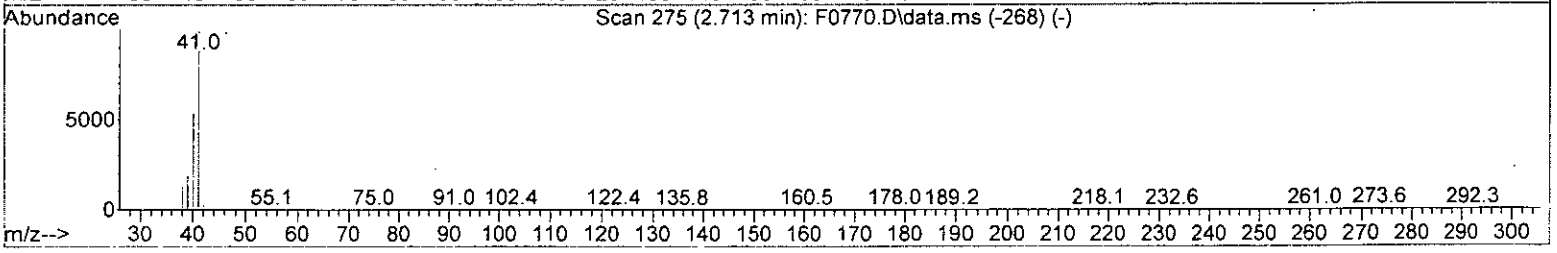
00641

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2916.D
Acq On : 8 Oct 2015 11:45 am
Operator : F. Naegler
Sample : LCSD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:00:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2916.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 104.78 ug/L m

response 120039

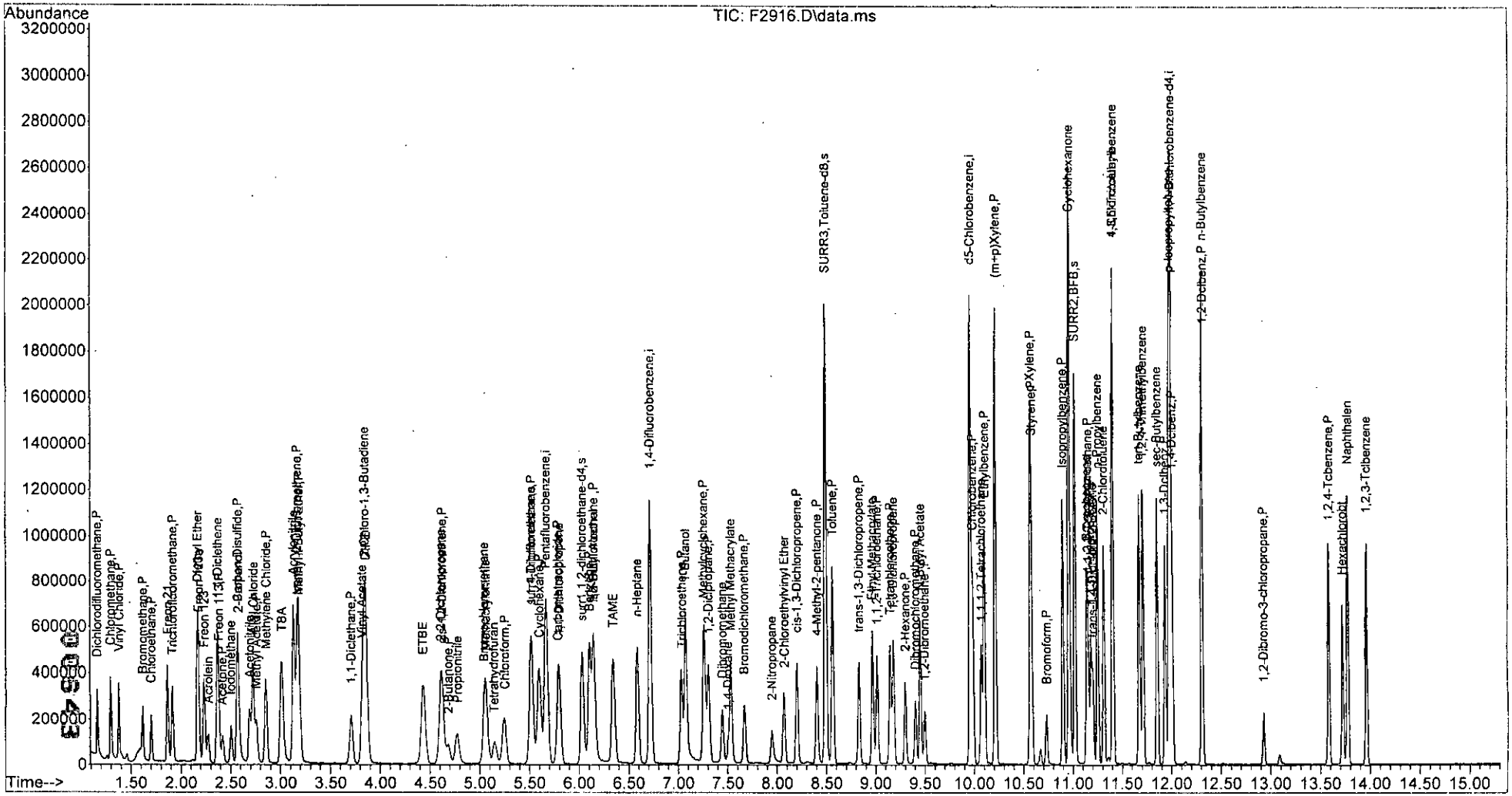
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	177.36
39.00	35.30	35.00
0.00	0.00	0.00

00642

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100815\
Data File : F2916.D
Acq On : 8 Oct 2015 11:45 am
Operator : F. Naegler
Sample : LCSD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 12:51:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 12:52
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512398-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2973.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**18.2**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**16.4**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**18.7**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**17.7**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**19.0**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**18.6**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**18.5**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**19.6**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**19.0**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**19.5**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**20.9**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**17.8**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**18.3**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**19.5**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**18.6**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**19.5**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**20.7**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**19.7**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**18.8**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**18.9**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**16.1**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**24.4**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**19.9**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**21.9**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**323**		100	20	11	
106-43-4	4-Chlorotoluene	**20.1**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**21.5**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**23.2**		5.0	1.0	0.67	
67-64-1	Acetone	**22.7**		5.0	5.0	1.3	
71-43-2	Benzene	**18.9**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**20.3**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**20.0**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**17.1**		5.0	1.0	0.32	
75-25-2	Bromoform	**15.6**		5.0	1.0	0.42	
74-83-9	Bromomethane	**21.4**		5.0	1.0	0.29	

00644

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 12:52
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512398-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2973.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**15.8**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**18.7**		5.0	1.0	0.29	
75-00-3	Chloroethane	**24.2**		5.0	1.0	0.24	
67-66-3	Chloroform	**18.2**		5.0	1.0	0.25	
74-87-3	Chloromethane	**30.4**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**18.1**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**23.4**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**17.6**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**18.4**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**20.0**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**19.2**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**18.9**		5.0	1.0	0.29	
91-20-3	Naphthalene	**21.6**		5.0	1.0	0.20	
100-42-5	Styrene	**19.5**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**18.2**		5.0	1.0	0.30	
108-88-3	Toluene	**19.2**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**17.6**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**19.5**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**25.3**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**18.1**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**18.6**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**38.8**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**20.0**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**20.3**		5.0	1.0	0.20	
95-47-6	o-Xylene	**18.7**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**20.3**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**21.1**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**18.8**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**18.8**		5.0	1.0	0.20	

00645

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/15 12:52
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	RQ1512398-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2973.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	75-120	10/9/15 12:52	
Dibromofluoromethane	96	85-115	10/9/15 12:52	
Toluene-d8	101	85-120	10/9/15 12:52	

00646

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2973.D
Acq On : 9 Oct 2015 12:52 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 13:17:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FN 10/9/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	707910	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1000748	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	917626	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	476612	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	311459	48.23	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.46%			
46) surr1,1,2-dichloroetha...	6.031	65	423006	46.21	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 92.42%			
64) SURR3,Toluene-d8	8.494	98	1186818	50.43	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.86%			
69) SURR2,BFB	11.018	95	454376	46.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	146743	23.41	ug/L	96
3) Chloromethane	1.294	50	259947	30.42	ug/L	98
4) Vinyl Chloride	1.380	62	187262	25.32	ug/L	93
5) Bromomethane	1.617	94	84618	21.43	ug/L	95
6) Chloroethane	1.703	64	107219	24.20	ug/L	86
7) Freon 21	1.867	67	283027	22.56	ug/L	100
8) Trichlorofluoromethane	1.916	101	185184	19.46	ug/L	99
9) Diethyl Ether	2.166	59	153636	22.08	ug/L	86
10) Freon 123a	2.172	67	166943	20.05	ug/L	99
11) Freon 123	2.233	83	159627	18.64	ug/L	95
12) Acrolein	2.270	56	92429	40.83	ug/L	95
13) 1,1-Diclethene	2.367	96	107493	18.56	ug/L	93
14) Freon 113	2.373	101	104931	16.23	ug/L	95
15) Acetone	2.416	43	137155	22.65	ug/L	97
16) 2-Propanol	2.581	45	469899	365.85	ug/L	88
17) Iodomethane	2.501	142	140628	17.44	ug/L	99
18) Carbon Disulfide	2.562	76	358901	20.30	ug/L	100
19) Acetonitrile	2.690	40	129505m	102.14	ug/L	
20) Allyl Chloride	2.727	76	66606	18.04	ug/L #	29
21) Methyl Acetate	2.757	43	249297	22.78	ug/L	99
22) Methylene Chloride	2.849	84	127368	17.55	ug/L #	89
23) TBA	3.007	59	572425	322.63	ug/L	84
24) Acrylonitrile	3.129	53	550518	115.93	ug/L	99
25) Methyl-t-Butyl Ether	3.184	73	454072	18.90	ug/L	100
26) trans-1,2-Dichloroethene	3.166	96	119514	18.76	ug/L	91
27) 1,1-Diclethane	3.708	63	257369	18.95	ug/L	98
28) Vinyl Acetate	3.818	86	30227	22.03	ug/L #	60
30) 2-Chloro-1,3-Butadiene	3.836	53	294476	19.80	ug/L	100
32) 2,2-Dichloropropane	4.611	77	162081	16.10	ug/L	95
33) cis-1,2-Dichloroethene	4.623	96	134448	18.14	ug/L #	74
34) 2-Butanone	4.684	43	185968	24.40	ug/L	97
35) Propionitrile	4.769	54	222011	108.63	ug/L	98
36) Bromochloromethane	5.050	130	92515	19.99	ug/L	97
37) Methacrylonitrile	5.062	67	83491	18.76	ug/L #	64

00647

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2973.D
Acq On : 9 Oct 2015 12:52 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 13:17:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.147	42	101510	19.34	ug/L		97
39)	Chloroform	5.245	83	222242	18.15	ug/L		93
40)	1,1,1-Trichloroethane	5.519	97	175864	16.42	ug/L		94
42)	Cyclohexane	5.598	41	193694	19.40	ug/L		99
44)	Carbontetrachloride	5.787	121	42577	15.79	ug/L		94
45)	1,1-Dichloropropene	5.799	75	167076	18.54	ug/L		96
47)	Benzene	6.104	78	506719	18.91	ug/L		86
48)	1,2-Dichloroethane	6.147	62	225375	18.64	ug/L		100
49)	Iso-Butyl Alcohol	6.147	43	313101	342.93	ug/L		99
51)	n-Heptane	6.586	43	286271	22.47	ug/L		90
52)	1-Butanol	7.086	56	556	1.15	ug/L	#	13
53)	Trichloroethene	7.031	130	139738	17.57	ug/L		95
54)	Methylcyclohexane	7.263	55	226553	20.46	ug/L		94
55)	1,2-Diclpropane	7.305	63	152210	19.50	ug/L		88
56)	Dibromomethane	7.445	93	87349	18.41	ug/L		89
57)	1,4-Dioxane	7.506	88	60848	358.98	ug/L		94
58)	Methyl Methacrylate	7.531	69	124428	19.18	ug/L		90
59)	Bromodichloromethane	7.671	83	156842	17.08	ug/L		98
60)	2-Nitropropane	7.945	41	62324	18.80	ug/L		97
61)	2-Chloroethylvinyl Ether	8.067	63	112271	19.32	ug/L		96
62)	cis-1,3-Dichloropropene	8.201	75	201153	18.63	ug/L		99
63)	4-Methyl-2-pentanone	8.403	43	327596	23.23	ug/L		95
65)	Toluene	8.561	91	536045	19.21	ug/L		99
66)	trans-1,3-Dichloropropene	8.829	75	187544	18.81	ug/L		100
67)	Ethyl Methacrylate	8.963	69	216212	19.32	ug/L		90
68)	1,1,2-Trichloroethane	9.012	97	117291	17.72	ug/L	#	77
71)	Tetrachloroethene	9.146	164	107409	18.16	ug/L	#	85
72)	2-Hexanone	9.299	43	242746	21.86	ug/L		90
73)	1,3-Dichloropropane	9.177	76	228614	18.83	ug/L		91
74)	Dibromochloromethane	9.402	129	127056	18.07	ug/L		97
75)	N-Butyl Acetate	9.451	43	439459	22.02	ug/L		94
76)	1,2-Dibromoethane	9.500	107	137079	18.32	ug/L		96
78)	Chlorobenzene	9.982	112	357308	18.74	ug/L		99
80)	1,1,1,2-Tetrachloroethane	10.067	131	119811	18.23	ug/L		98
81)	Ethylbenzene	10.103	106	186942	18.43	ug/L		97
82)	(m+p)Xylene	10.213	106	462668	38.76	ug/L		100
83)	o-Xylene	10.567	106	232348	18.69	ug/L		99
84)	Styrene	10.579	104	394506	19.48	ug/L		97
85)	Bromoform	10.731	173	83819	15.62	ug/L		95
87)	Isopropylbenzene	10.896	105	586514	19.18	ug/L		97
88)	Cyclohexanone	10.957	55	914094	432.77	ug/L		89
89)	trans-1,4-Dichloro-2-B...	11.201	53	73374	19.33	ug/L		88
91)	1,1,2,2-Tetrachloroethane	11.152	83	167277	18.66	ug/L		98
92)	Bromobenzene	11.140	156	162153	20.32	ug/L		90
93)	1,2,3-Trichloropropane	11.183	110	60129	19.04	ug/L		94
94)	n-Propylbenzene	11.250	91	698003	20.34	ug/L		98
95)	2-Chlorotoluene	11.311	91	419049	19.93	ug/L		98
97)	4-Chlorotoluene	11.402	91	500319	20.07	ug/L		97
98)	1,3,5-Trimethylbenzene	11.402	105	503129	20.67	ug/L		98
99)	tert-Butylbenzene	11.670	119	437480	21.14	ug/L		99
100)	1,2,4-Trimethylbenzene	11.713	105	518926	20.91	ug/L		94

00648

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2973.D
Acq On : 9 Oct 2015 12:52 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 13:17:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

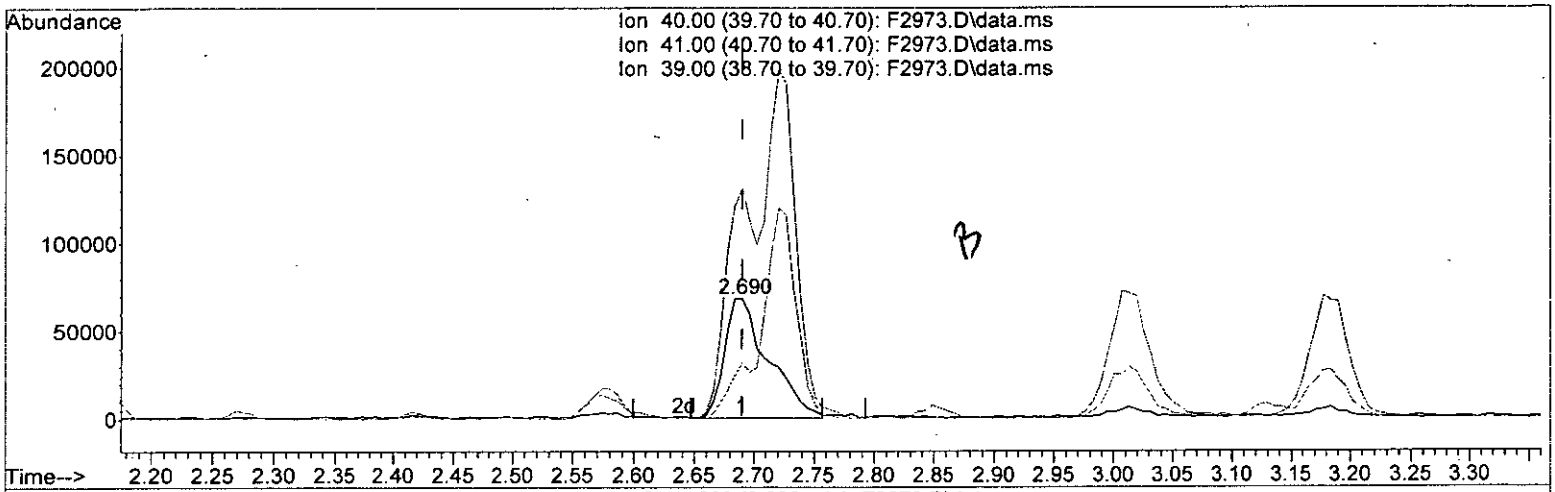
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) sec-Butylbenzene	11.853	105	613112	20.34	ug/L	98
103) p-Isopropyltoluene	11.975	119	549277	21.45	ug/L	99
104) 1,3-Dclbenz	11.932	146	296071	19.69	ug/L	98
105) 1,4-Dclbenz	12.006	146	304789	18.91	ug/L	97
108) n-Butylbenzene	12.304	91	501545	19.96	ug/L	100
109) 1,2-Dclbenz	12.310	146	295954	19.51	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.926	157	42978	17.75	ug/L	96
114) 1,2,4-Tcbenzene	13.584	180	235760	19.45	ug/L	95
115) Hexachlorobt	13.719	225	100841	20.03	ug/L	99
116) Naphthalen	13.773	128	726177	21.63	ug/L	100
117) 1,2,3-Tclbenzene	13.962	180	235737	19.63	ug/L	99

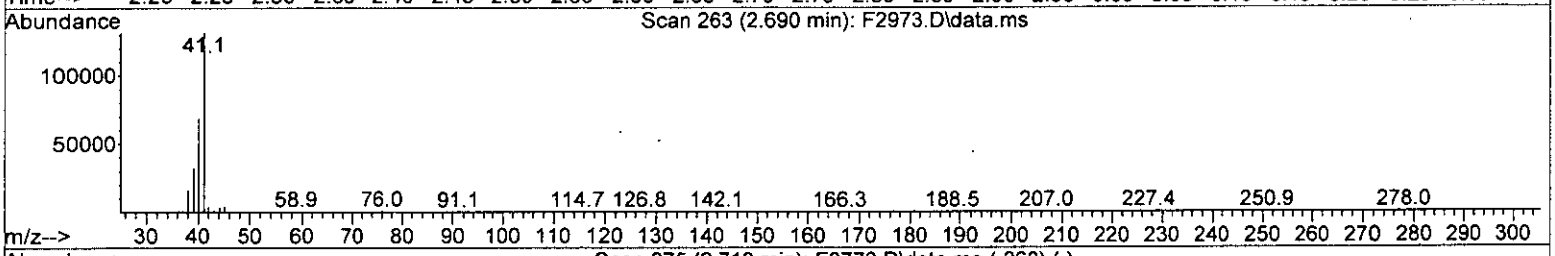
(#) = qualifier out of range (m) = manual integration (+) = signals summed

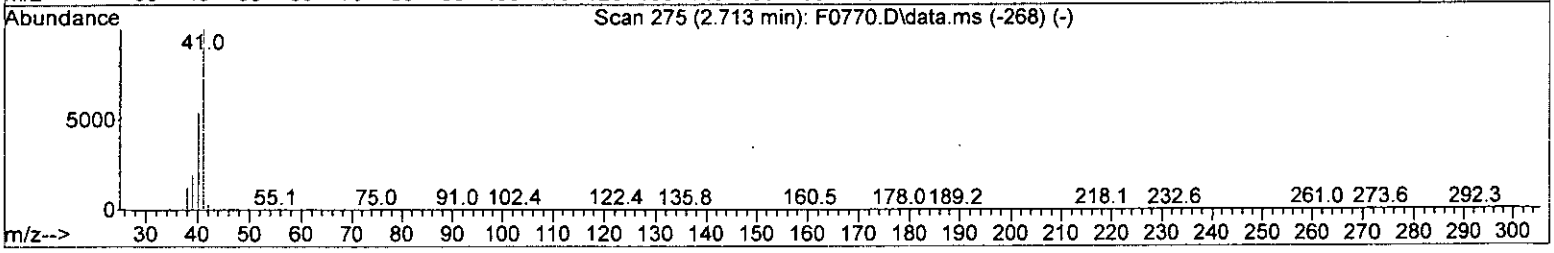
00649

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2973.D
Acq On : 9 Oct 2015 12:52 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 13:06:32 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration







TIC: F2973.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 135.29 ug/L

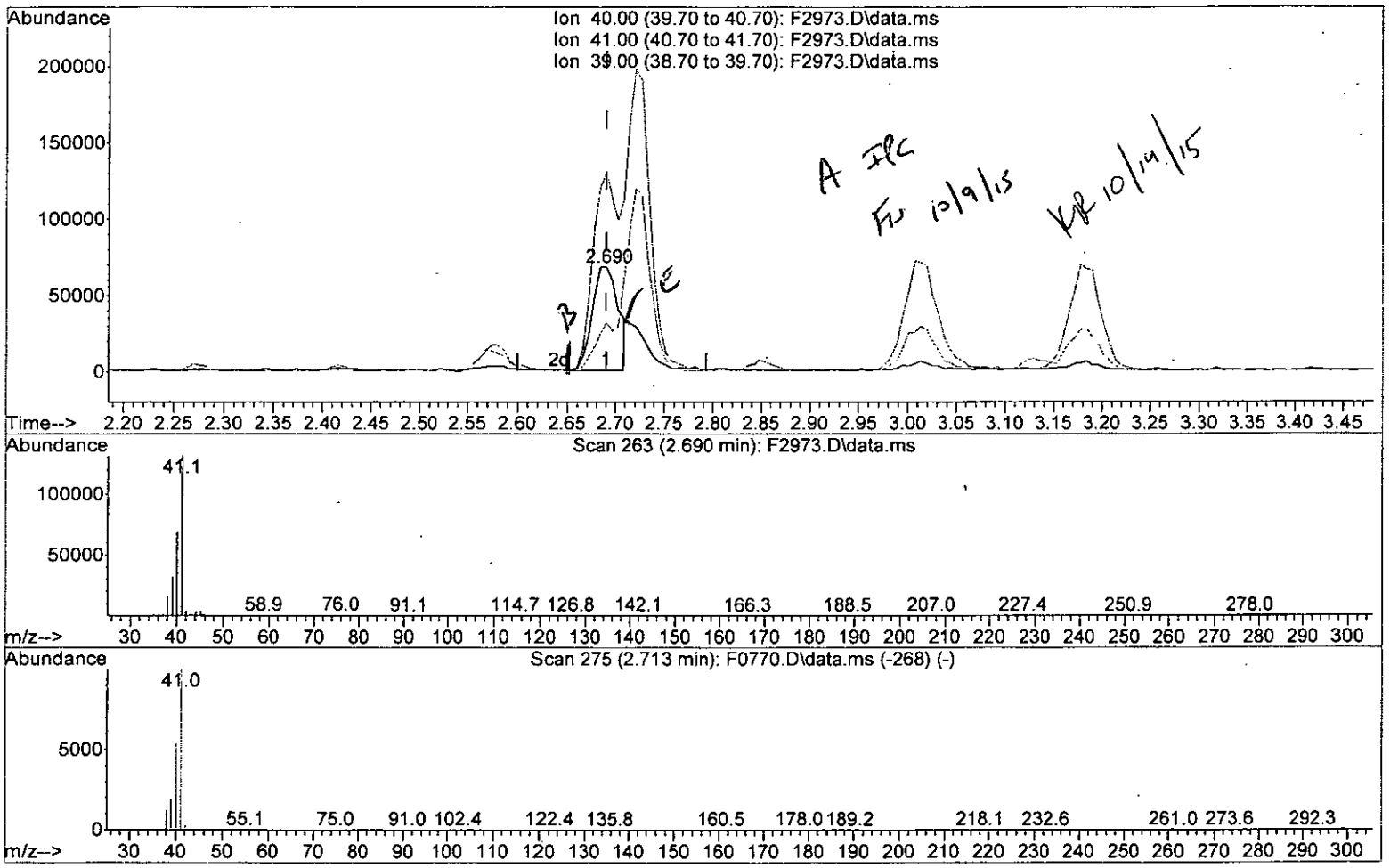
response 171538

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	191.93
39.00	35.30	46.90
0.00	0.00	0.00

00650

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2973.D
Acq On : 9 Oct 2015 12:52 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 13:06:32 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2973.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 102.14 ug/L m

response 129505

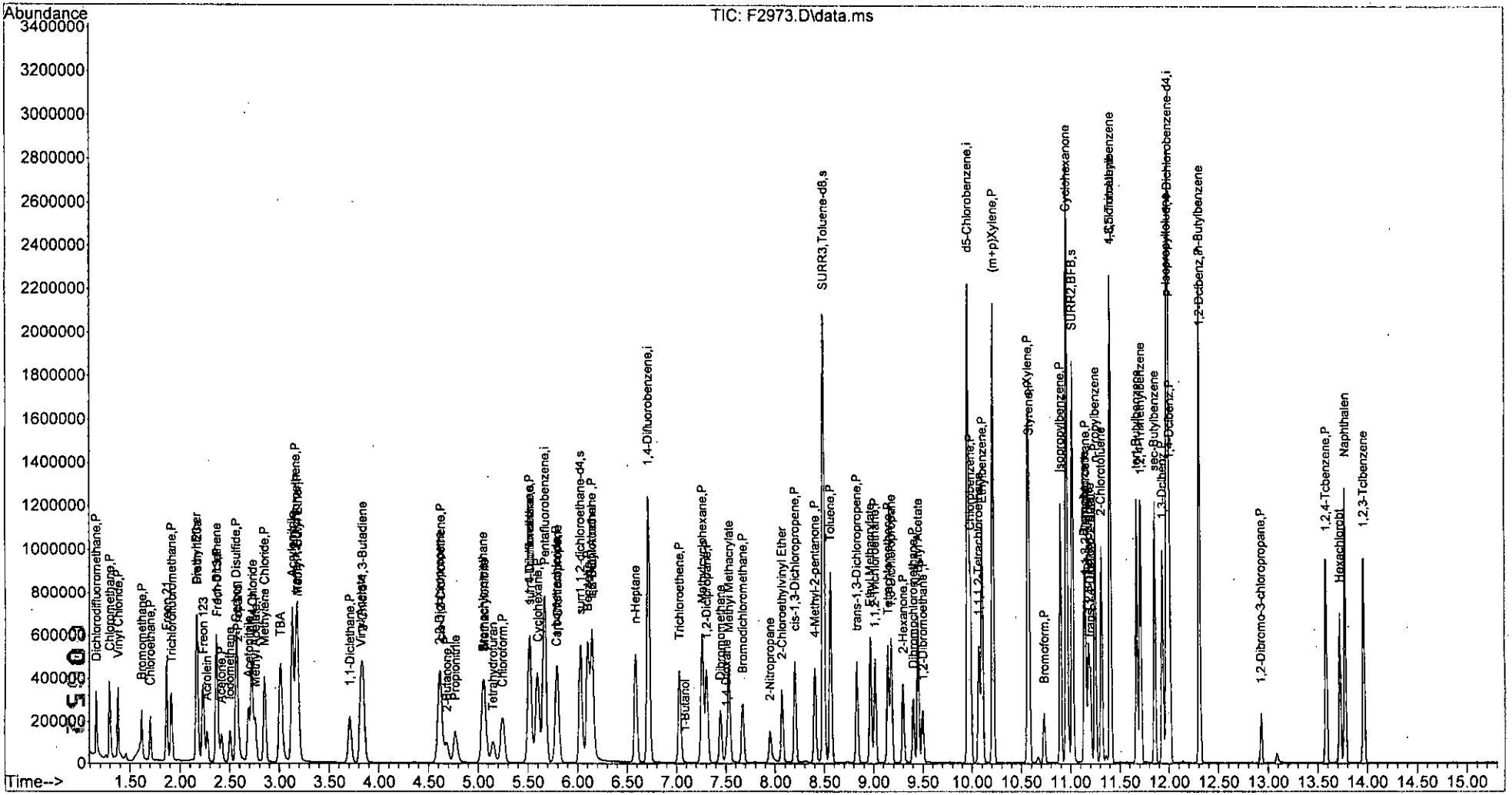
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	191.93
39.00	35.30	46.90
0.00	0.00	0.00

00651

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2973.D
Acq On : 9 Oct 2015 12:52 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 13:17:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 12:28
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512484-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3026.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**16.3**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**16.1**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**19.3**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**18.1**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**18.0**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**18.4**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**17.9**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**19.2**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**17.6**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**19.4**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**20.1**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**16.0**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**17.5**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**18.7**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**17.2**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**18.2**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**19.6**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**19.1**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**17.5**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**18.0**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**15.2**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**21.2**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**18.8**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**19.0**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**271**		100	20	11	
106-43-4	4-Chlorotoluene	**19.0**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**20.7**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**20.3**		5.0	1.0	0.67	
67-64-1	Acetone	**20.0**		5.0	5.0	1.3	
71-43-2	Benzene	**17.6**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**19.1**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**19.2**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**15.6**		5.0	1.0	0.32	
75-25-2	Bromoform	**15.2**		5.0	1.0	0.42	
74-83-9	Bromomethane	**22.6**		5.0	1.0	0.29	

00653

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 12:28
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1512484-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3026.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**15.0**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**18.2**		5.0	1.0	0.29	
75-00-3	Chloroethane	**23.4**		5.0	1.0	0.24	
67-66-3	Chloroform	**17.3**		5.0	1.0	0.25	
74-87-3	Chloromethane	**29.0**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**17.4**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**23.5**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**17.5**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**17.2**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**21.1**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**18.8**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**18.4**		5.0	1.0	0.29	
91-20-3	Naphthalene	**20.9**		5.0	1.0	0.20	
100-42-5	Styrene	**18.6**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**17.1**		5.0	1.0	0.30	
108-88-3	Toluene	**18.0**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**15.7**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**20.0**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**25.4**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**17.6**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**18.4**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**37.5**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**19.5**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**19.2**		5.0	1.0	0.20	
95-47-6	o-Xylene	**17.7**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**19.7**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**19.9**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**19.0**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**17.5**		5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/12/15 12:28
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	RQ1512484-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466502
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\101215\F3026.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	75-120	10/12/15 12:28	
Dibromofluoromethane	99	85-115	10/12/15 12:28	
Toluene-d8	100	85-120	10/12/15 12:28	

00655

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3026.D
Acq On : 12 Oct 2015 12:28 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 12:57:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FU 10/15/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.671	168	700436	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	1031546	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	934491	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	499615	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	327889	49.26	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.52%			
46) surr1,1,2-dichloroetha...	6.031	65	422015	44.72	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 89.44%			
64) SURR3,Toluene-d8	8.488	98	1215489	50.11	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.22%			
69) SURR2,BFB	11.018	95	471685	47.08	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	145983	23.53	ug/L	97
3) Chloromethane	1.300	50	245069	28.99	ug/L	98
4) Vinyl Chloride	1.379	62	186128	25.44	ug/L	91
5) Bromomethane	1.617	94	87807	22.61	ug/L	95
6) Chloroethane	1.702	64	102444	23.37	ug/L	89
7) Freon 21	1.867	67	304557	24.54	ug/L	96
8) Trichlorofluoromethane	1.916	101	188390	20.01	ug/L	95
9) Diethyl Ether	2.166	59	154466	22.43	ug/L	89
10) Freon 123a	2.172	67	179714	21.82	ug/L	92
11) Freon 123	2.233	83	175307	20.69	ug/L	99
12) Acrolein	2.269	56	75867	33.87	ug/L	88
13) 1,1-Diclethene	2.361	96	105171	18.35	ug/L	97
14) Freon 113	2.373	101	109041	17.05	ug/L	97
15) Acetone	2.416	43	119880	20.01	ug/L	94
16) 2-Propanol	2.568	45	415447	326.91	ug/L	94
17) Iodomethane	2.501	142	191286	23.32	ug/L	91
18) Carbon Disulfide	2.562	76	370602	21.19	ug/L	99
19) Acetonitrile	2.684	40	127956m	102.00	ug/L	
20) Allyl Chloride	2.720	76	60628	16.60	ug/L #	23
21) Methyl Acetate	2.751	43	222522	20.55	ug/L	98
22) Methylene Chloride	2.855	84	125300	17.45	ug/L	92
23) TBA	3.007	59	476091	271.20	ug/L	88
24) Acrylonitrile	3.129	53	524437	111.61	ug/L	97
25) Methyl-t-Butyl Ether	3.184	73	437253	18.40	ug/L	99
26) trans-1,2-Dichloroethene	3.172	96	119745	18.99	ug/L #	80
27) 1,1-Diclethane	3.708	63	242231	18.03	ug/L	98
28) Vinyl Acetate	3.824	86	25593	18.85	ug/L #	50
30) 2-Chloro-1,3-Butadiene	3.842	53	303440	20.62	ug/L	95
32) 2,2-Dichloropropane	4.610	77	151271	15.19	ug/L	93
33) cis-1,2-Dichloroethene	4.616	96	128945	17.59	ug/L #	86
34) 2-Butanone	4.677	43	159840	21.19	ug/L	96
35) Propionitrile	4.763	54	209963	103.83	ug/L	99
36) Bromochloromethane	5.049	130	87844	19.19	ug/L #	84
37) Methacrylonitrile	5.068	67	78855	17.90	ug/L #	85

00656

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3026.D
Acq On : 12 Oct 2015 12:28 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 12:57:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.147	42	99251	19.11	ug/L		88
39)	Chloroform	5.244	83	209461	17.29	ug/L		97
40)	1,1,1-Trichloroethane	5.513	97	170669	16.11	ug/L		96
42)	Cyclohexane	5.598	41	210745	20.47	ug/L		91
44)	Carbontetrachloride	5.787	121	41758	15.02	ug/L		98
45)	1,1-Dichloropropene	5.799	75	166461	17.92	ug/L		96
47)	Benzene	6.104	78	486867	17.63	ug/L		86
48)	1,2-Dichloroethane	6.147	62	213772	17.15	ug/L		97
49)	Iso-Butyl Alcohol	6.147	43	241083	256.17	ug/L		98
51)	n-Heptane	6.586	43	291836	22.22	ug/L		94
52)	1-Butanol	7.098	56	842	1.69	ug/L	#	56
53)	Trichloroethene	7.031	130	128425	15.67	ug/L		98
54)	Methylcyclohexane	7.262	55	251531	22.04	ug/L		97
55)	1,2-Diclpropane	7.305	63	146181	18.17	ug/L		96
56)	Dibromomethane	7.445	93	82115	16.79	ug/L	#	83
57)	1,4-Dioxane	7.506	88	53848	308.20	ug/L		85
58)	Methyl Methacrylate	7.531	69	111358	16.65	ug/L	#	65
59)	Bromodichloromethane	7.671	83	147817	15.62	ug/L		99
60)	2-Nitropropane	7.945	41	60117	17.59	ug/L		91
61)	2-Chloroethylvinyl Ether	8.067	63	117785	19.66	ug/L		96
62)	cis-1,3-Dichloropropene	8.201	75	204231	18.35	ug/L		97
63)	4-Methyl-2-pentanone	8.402	43	295556	20.33	ug/L		96
65)	Toluene	8.561	91	517914	18.00	ug/L		98
66)	trans-1,3-Dichloropropene	8.829	75	179683	17.48	ug/L		95
67)	Ethyl Methacrylate	8.969	69	203993	17.69	ug/L		91
68)	1,1,2-Trichloroethane	9.012	97	123296	18.07	ug/L		91
71)	Tetrachloroethene	9.146	164	103007	17.10	ug/L		96
72)	2-Hexanone	9.298	43	215215	19.03	ug/L		94
73)	1,3-Dichloropropane	9.177	76	216150	17.48	ug/L		93
74)	Dibromochloromethane	9.402	129	124340	17.36	ug/L		96
75)	N-Butyl Acetate	9.451	43	387110	19.05	ug/L		98
76)	1,2-Dibromoethane	9.500	107	133664	17.54	ug/L		96
78)	Chlorobenzene	9.981	112	352411	18.15	ug/L		98
80)	1,1,1,2-Tetrachloroethane	10.067	131	109118	16.30	ug/L		95
81)	Ethylbenzene	10.103	106	177269	17.16	ug/L		99
82)	(m+p)Xylene	10.213	106	455856	37.50	ug/L		95
83)	o-Xylene	10.567	106	223460	17.65	ug/L		91
84)	Styrene	10.579	104	384479	18.64	ug/L		97
85)	Bromoform	10.731	173	82954	15.18	ug/L		98
87)	Isopropylbenzene	10.896	105	586063	18.82	ug/L		99
88)	Cyclohexanone	10.957	55	646570	300.59	ug/L		93
89)	trans-1,4-Dichloro-2-B...	11.201	53	71934	18.61	ug/L		89
91)	1,1,2,2-Tetrachloroethane	11.152	83	181668	19.32	ug/L		100
92)	Bromobenzene	11.140	156	159552	19.07	ug/L		98
93)	1,2,3-Trichloropropane	11.182	110	58386	17.64	ug/L		96
94)	n-Propylbenzene	11.249	91	690497	19.19	ug/L		98
95)	2-Chlorotoluene	11.310	91	414372	18.80	ug/L		100
97)	4-Chlorotoluene	11.402	91	495612	18.97	ug/L		97
98)	1,3,5-Trimethylbenzene	11.402	105	500362	19.61	ug/L		95
99)	tert-Butylbenzene	11.670	119	431035	19.87	ug/L		99
100)	1,2,4-Trimethylbenzene	11.713	105	523402	20.12	ug/L		94

00657

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3026.D
Acq On : 12 Oct 2015 12:28 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 12:57:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) sec-Butylbenzene	11.853	105	623166	19.72	ug/L	98
103) p-Isopropyltoluene	11.975	119	555477	20.70	ug/L	99
104) 1,3-Dclbenz	11.932	146	300588	19.07	ug/L	95
105) 1,4-Dclbenz	12.005	146	304816	18.04	ug/L	97
108) n-Butylbenzene	12.304	91	514288	19.52	ug/L	98
109) 1,2-Dclbenz	12.310	146	296562	18.65	ug/L	94
110) 1,2-Dibromo-3-chloropr...	12.926	157	40513	15.96	ug/L	94
114) 1,2,4-Tcbenzene	13.584	180	246813	19.42	ug/L	97
115) Hexachlorobt	13.724	225	111246	21.08	ug/L	96
116) Naphthalen	13.773	128	734304	20.86	ug/L	100
117) 1,2,3-Tclbenzene	13.962	180	241904	19.21	ug/L	99

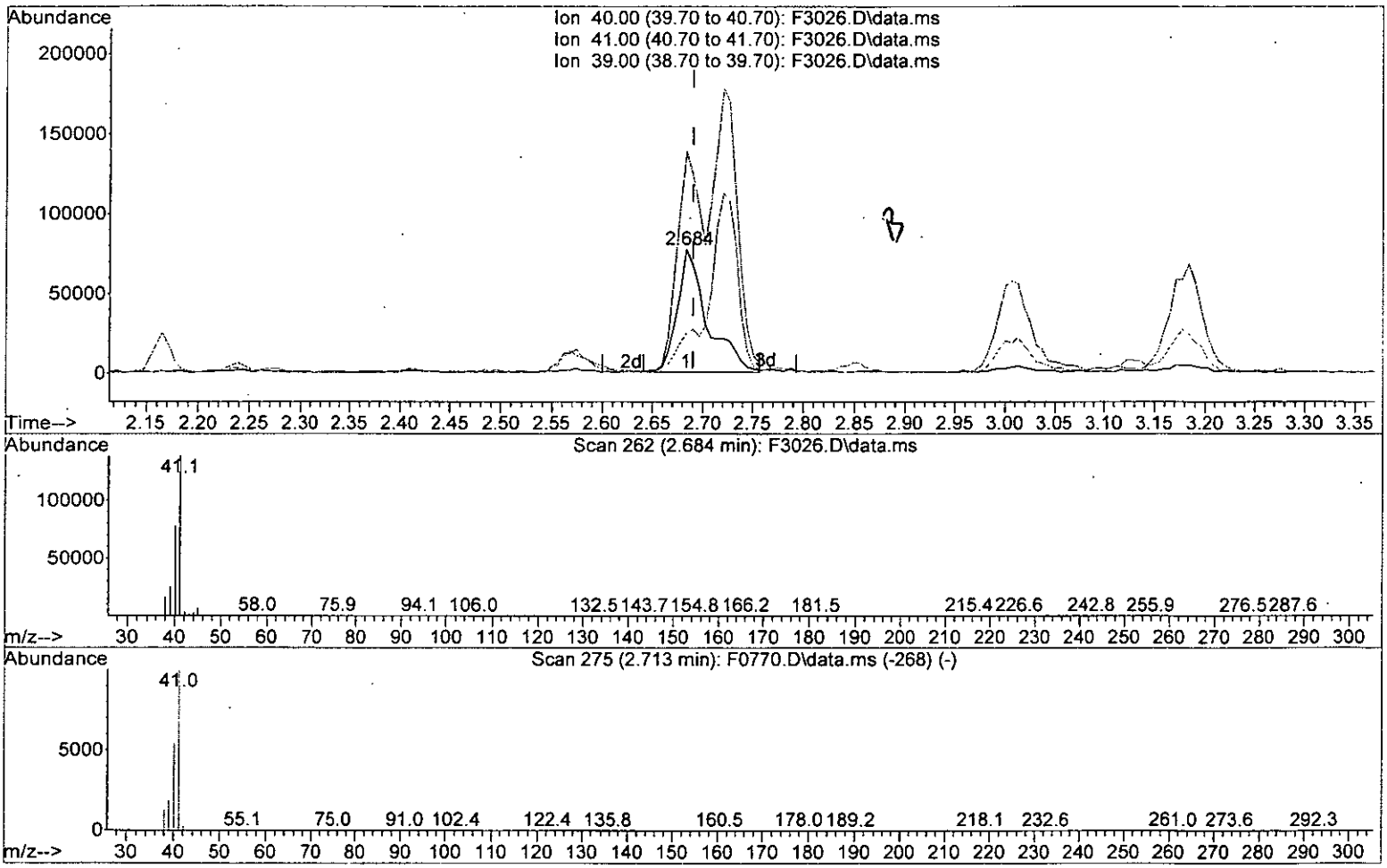
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00658

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3026.D
Acq On : 12 Oct 2015 12:28 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 12:43:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F3026.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 125.96 ug/L

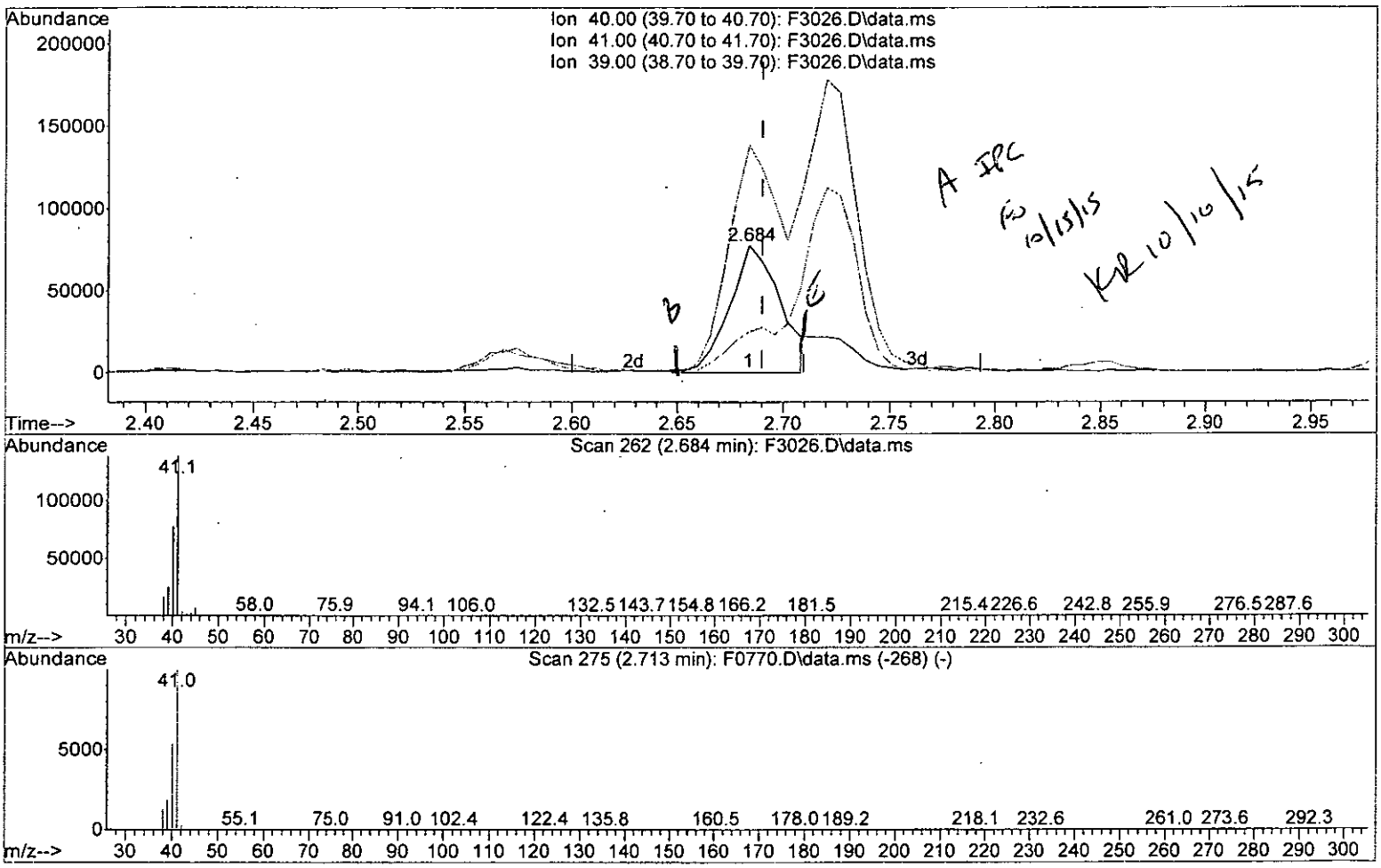
response 158016

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	178.71
39.00	35.30	31.94
0.00	0.00	0.00

00659

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3026.D
Acq On : 12 Oct 2015 12:28 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 12:43:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



A IPC
FD 10/15/15
KR 10/16/15

TIC: F3026.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 102.00 ug/L m

response 127956

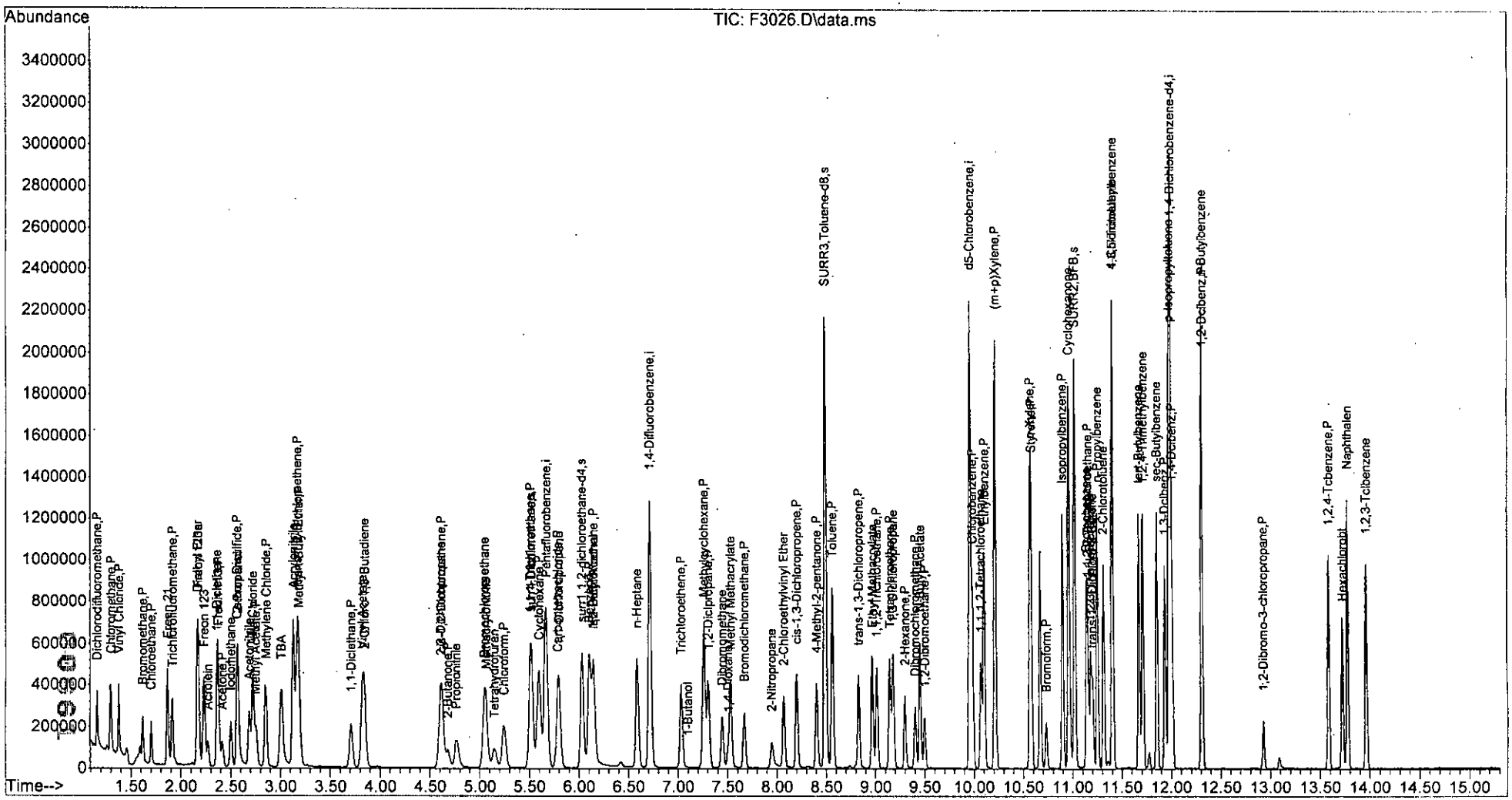
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	178.71
39.00	35.30	31.94
0.00	0.00	0.00

00660

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101215\
Data File : F3026.D
Acq On : 12 Oct 2015 12:28 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 12:57:59 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 21:30
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1512398-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2994.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**44.0**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**43.8**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**49.2**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**44.4**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**49.8**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**50.3**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**49.4**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**48.1**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**44.8**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**46.1**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**80.4**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**44.8**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**43.1**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**45.8**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**44.8**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**49.3**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**54.2**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**47.1**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**44.5**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**44.0**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**38.0**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**52.8**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**49.2**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**49.7**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**800**		100	20	11	
106-43-4	4-Chlorotoluene	**48.1**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**52.9**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**54.0**		5.0	1.0	0.67	
67-64-1	Acetone	**46.4**		5.0	5.0	1.3	
71-43-2	Benzene	**48.9**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**48.4**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**48.7**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**42.8**		5.0	1.0	0.32	
75-25-2	Bromoform	**39.3**		5.0	1.0	0.42	
74-83-9	Bromomethane	**59.2**		5.0	1.0	0.29	

00662

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 21:30
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1512398-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2994.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**44.6**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**46.5**		5.0	1.0	0.29	
75-00-3	Chloroethane	**66.0**		5.0	1.0	0.24	
67-66-3	Chloroform	**45.5**		5.0	1.0	0.25	
74-87-3	Chloromethane	**81.4**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**43.7**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**65.0**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**44.4**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**82.4**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**49.5**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**53.5**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**45.4**		5.0	1.0	0.29	
91-20-3	Naphthalene	**57.4**		5.0	1.0	0.20	
100-42-5	Styrene	**48.7**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**45.6**		5.0	1.0	0.30	
108-88-3	Toluene	**48.4**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**42.5**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**55.0**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**72.0**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**47.6**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**45.8**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**142**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**49.1**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**54.1**		5.0	1.0	0.20	
95-47-6	o-Xylene	**48.6**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**51.6**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**52.5**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**48.7**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**44.1**		5.0	1.0	0.20	

00663

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 21:30
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	Percent
Lab Code:	RQ1512398-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2994.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	75-120	10/9/15 21:30	
Dibromofluoromethane	96	85-115	10/9/15 21:30	
Toluene-d8	99	85-120	10/9/15 21:30	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2994.D
Acq On : 9 Oct 2015 9:30 pm
Operator : F. Naegler
Sample : R1508244-007MS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 14 15:55:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FJ 10/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	629804	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	906378	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	830068	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	440440	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	280402	47.95	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	95.90%		
46) surr1,1,2-dichloroetha...	6.031	65	388944	46.91	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	93.82%		
64) SURR3,Toluene-d8	8.488	98	1053525	49.43	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	98.86%		
69) SURR2,BFB	11.018	95	415308	47.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	94.36%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	362312	64.96	ug/L	97
3) Chloromethane	1.294	50	618966	81.42	ug/L	96
4) Vinyl Chloride	1.379	62	473391	71.95	ug/L	97
5) Bromomethane	1.617	94	169834	59.19	ug/L	99
6) Chloroethane	1.703	64	260263	66.03	ug/L	93
7) Freon 21	1.867	67	659256	59.08	ug/L	95
8) Trichlorofluoromethane	1.916	101	465838	55.02	ug/L	100
9) Diethyl Ether	2.166	59	339951	54.90	ug/L	88
10) Freon 123a	2.172	67	400941	54.13	ug/L	94
11) Freon 123	2.233	83	389929	51.17	ug/L	98
12) Acrolein	2.276	56	182521	90.63	ug/L	93
13) 1,1-Diclethene	2.367	96	259265	50.32	ug/L	99
14) Freon 113	2.373	101	246029	42.79	ug/L	98
15) Acetone	2.422	43	250115	46.43	ug/L	96
16) 2-Propanol	2.580	45	1020984	893.49	ug/L	92
17) Iodomethane	2.501	142	355103	46.10	ug/L	95
18) Carbon Disulfide	2.568	76	819674	52.11	ug/L	99
19) Acetonitrile	2.690	40	282240m	250.21	ug/L	
20) Allyl Chloride	2.727	76	142734	43.46	ug/L #	14
21) Methyl Acetate	2.757	43	470880	48.36	ug/L	97
22) Methylene Chloride	2.855	84	286524	44.38	ug/L	96
23) TBA	3.013	59	1262074	799.55	ug/L	86
24) Acrylonitrile	3.129	53	1191262	281.96	ug/L	99
25) Methyl-t-Butyl Ether	3.184	73	970548	45.42	ug/L	95
26) trans-1,2-Dichloroethene	3.172	96	276254	48.73	ug/L	95
27) 1,1-Diclethane	3.708	63	601977	49.83	ug/L	97
28) Vinyl Acetate	3.818	86	57821	47.37	ug/L #	94
30) 2-Chloro-1,3-Butadiene	3.842	53	685894	51.85	ug/L	96
32) 2,2-Dichloropropane	4.611	77	339833	37.95	ug/L	97
33) cis-1,2-Dichloroethene	4.623	96	313612	47.57	ug/L #	84
34) 2-Butanone	4.684	43	358350	52.84	ug/L	99
35) Propionitrile	4.769	54	490843	269.95	ug/L	100
36) Bromochloromethane	5.056	130	200662	48.74	ug/L	92
37) Methacrylonitrile	5.062	67	179933	45.43	ug/L #	66

00665

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2994.D
Acq On : 9 Oct 2015 9:30 pm
Operator : F. Naegler
Sample : R1508244-007MS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 14 15:55:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.147	42	246168	52.72	ug/L		93
39)	Chloroform	5.245	83	495021	45.45	ug/L		96
40)	1,1,1-Trichloroethane	5.519	97	417214	43.79	ug/L		97
42)	Cyclohexane	5.598	41	467933	51.74	ug/L		99
44)	Carbontetrachloride	5.787	121	108830	44.56	ug/L		90
45)	1,1-Dichloropropene	5.799	75	403217	49.40	ug/L		98
47)	Benzene	6.104	78	1187335	48.92	ug/L		85
48)	1,2-Dichloroethane	6.147	62	490999	44.83	ug/L		96
49)	Iso-Butyl Alcohol	6.147	43	717732	867.96	ug/L		100
51)	n-Heptane	6.586	43	589680	51.11	ug/L		92
52)	1-Butanol	7.080	56	1232	2.81	ug/L	#	36
53)	Trichloroethene	7.031	130	306360	42.54	ug/L		97
54)	Methylcyclohexane	7.262	55	520975	51.95	ug/L		96
55)	1,2-Diclpropane	7.305	63	348503	49.31	ug/L		96
56)	Dibromomethane	7.445	93	197864	46.04	ug/L		93
57)	1,4-Dioxane	7.506	88	129940	846.41	ug/L		92
58)	Methyl Methacrylate	7.531	69	267408	45.51	ug/L	#	77
59)	Bromodichloromethane	7.671	83	355660	42.77	ug/L		97
60)	2-Nitropropane	7.945	41	152707	50.86	ug/L		95
62)	cis-1,3-Dichloropropene	8.201	75	447343	45.75	ug/L		99
63)	4-Methyl-2-pentanone	8.402	43	689833	54.01	ug/L		97
65)	Toluene	8.561	91	1222806	48.38	ug/L		99
66)	trans-1,3-Dichloropropene	8.829	75	398628	44.14	ug/L		97
67)	Ethyl Methacrylate	8.963	69	459894	45.38	ug/L		82
68)	1,1,2-Trichloroethane	9.012	97	266035	44.37	ug/L		90
71)	Tetrachloroethene	9.146	164	244189	45.64	ug/L		92
72)	2-Hexanone	9.299	43	498776	49.65	ug/L		95
73)	1,3-Dichloropropane	9.177	76	488232	44.45	ug/L		90
74)	Dibromochloromethane	9.402	129	278204	43.73	ug/L		97
75)	N-Butyl Acetate	9.451	43	858136	47.54	ug/L		94
76)	1,2-Dibromoethane	9.494	107	291648	43.09	ug/L		96
78)	Chlorobenzene	9.981	112	802368	46.52	ug/L		98
80)	1,1,1,2-Tetrachloroethane	10.067	131	261773	44.02	ug/L		95
81)	Ethylbenzene	10.103	106	755774	82.35	ug/L		92
82)	(m+p)Xylene	10.213	106	1530258	141.72	ug/L		95
83)	o-Xylene	10.567	106	546482	48.60	ug/L		98
84)	Styrene	10.579	104	892098	48.69	ug/L		98
85)	Bromoform	10.731	173	190799	39.30	ug/L		96
87)	Isopropylbenzene	10.896	105	1480506	53.51	ug/L		96
88)	Cyclohexanone	10.957	55	555299	290.63	ug/L		94
89)	trans-1,4-Dichloro-2-B...	11.201	53	153540	44.71	ug/L		88
91)	1,1,2,2-Tetrachloroethane	11.152	83	411238	49.23	ug/L		97
92)	Bromobenzene	11.140	156	356883	48.40	ug/L		98
93)	1,2,3-Trichloropropane	11.182	110	130636	44.76	ug/L		95
94)	n-Propylbenzene	11.249	91	1716689	54.12	ug/L		97
95)	2-Chlorotoluene	11.310	91	956508	49.24	ug/L		99
97)	4-Chlorotoluene	11.402	91	1107308	48.07	ug/L		96
98)	1,3,5-Trimethylbenzene	11.402	105	1219643	54.23	ug/L		98
99)	tert-Butylbenzene	11.670	119	1003899	52.50	ug/L		98
100)	1,2,4-Trimethylbenzene	11.713	105	1844426	80.42	ug/L		91
102)	sec-Butylbenzene	11.853	105	1437262	51.60	ug/L		97

00666

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2994.D
Acq On : 9 Oct 2015 9:30 pm
Operator : F. Naegler
Sample : R1508244-007MS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 14 15:55:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) p-Isopropyltoluene	11.975	119	1250919	52.87	ug/L	97
104) 1,3-Dclbenz	11.932	146	654329	47.10	ug/L	97
105) 1,4-Dclbenz	12.005	146	654484	43.95	ug/L	95
108) n-Butylbenzene	12.304	91	1139405	49.07	ug/L	97
109) 1,2-Dclbenz	12.310	146	642276	45.83	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.926	157	100131	44.75	ug/L	98
114) 1,2,4-Tcbenzene	13.578	180	516814	46.13	ug/L	99
115) Hexachlorobt	13.718	225	230234	49.48	ug/L	95
116) Naphthalen	13.773	128	1780035	57.37	ug/L	98
117) 1,2,3-Tclbenzene	13.962	180	533569	48.07	ug/L	95

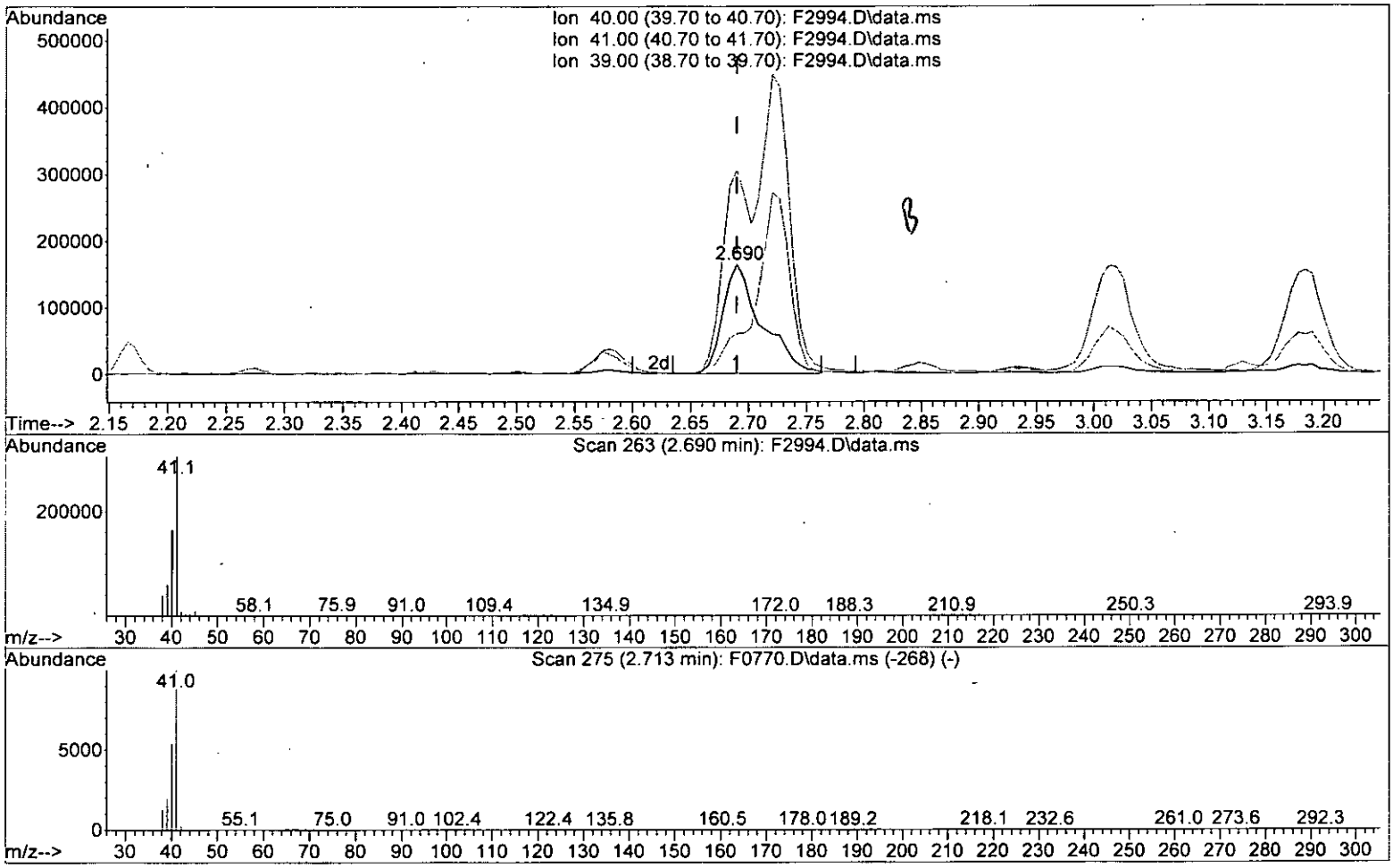
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00667

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2994.D
Acq On : 9 Oct 2015 9:30 pm
Operator : F. Naegler
Sample : R1508244-007MS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 09 21:44:38 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2994.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 336.68 ug/L

response 379778

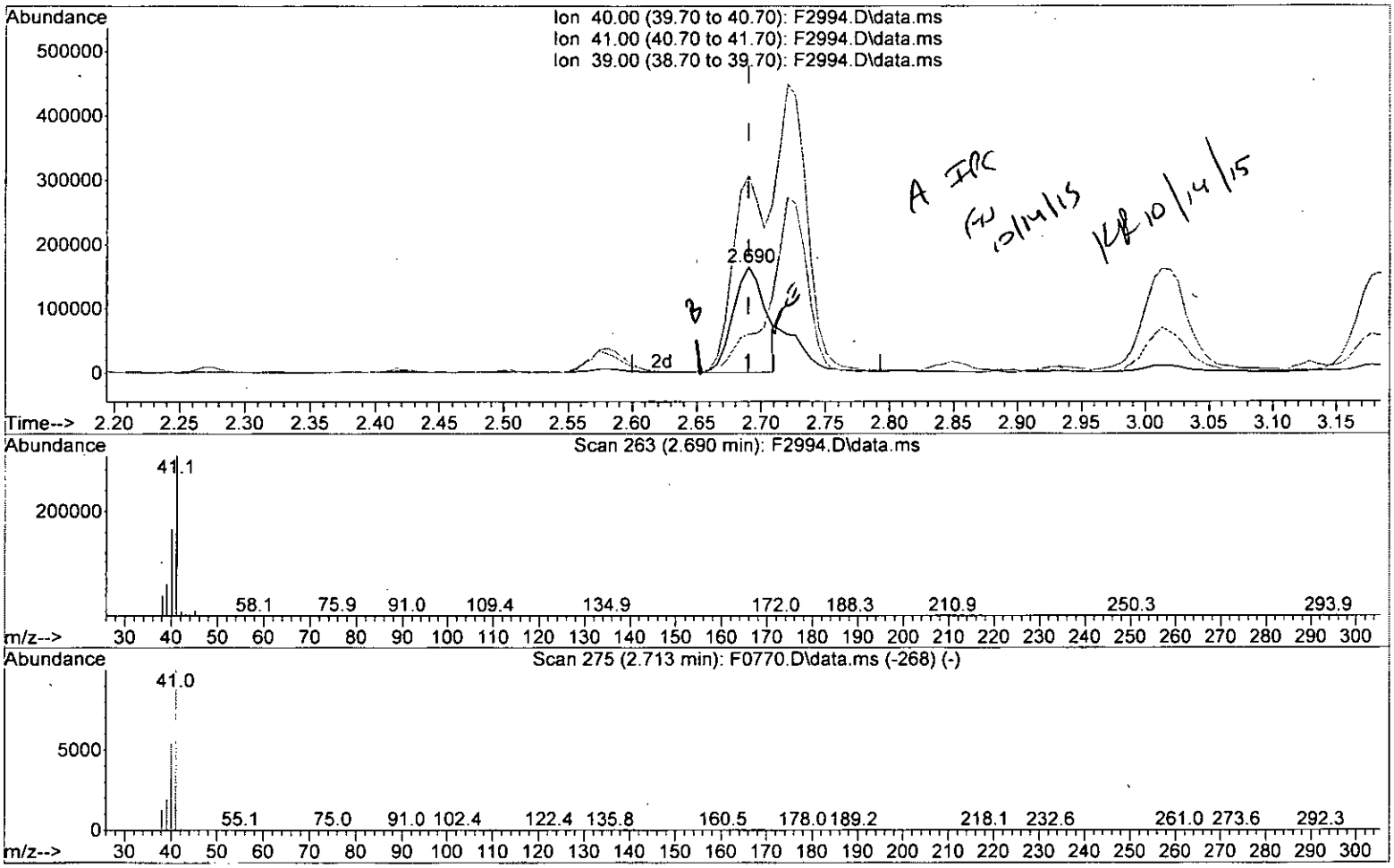
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	186.06
39.00	35.30	36.68
0.00	0.00	0.00

00668

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2994.D
Acq On : 9 Oct 2015 9:30 pm
Operator : F. Naegler
Sample : R1508244-007MS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 09 21:44:38 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2994.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 250.21 ug/L m

response 282240

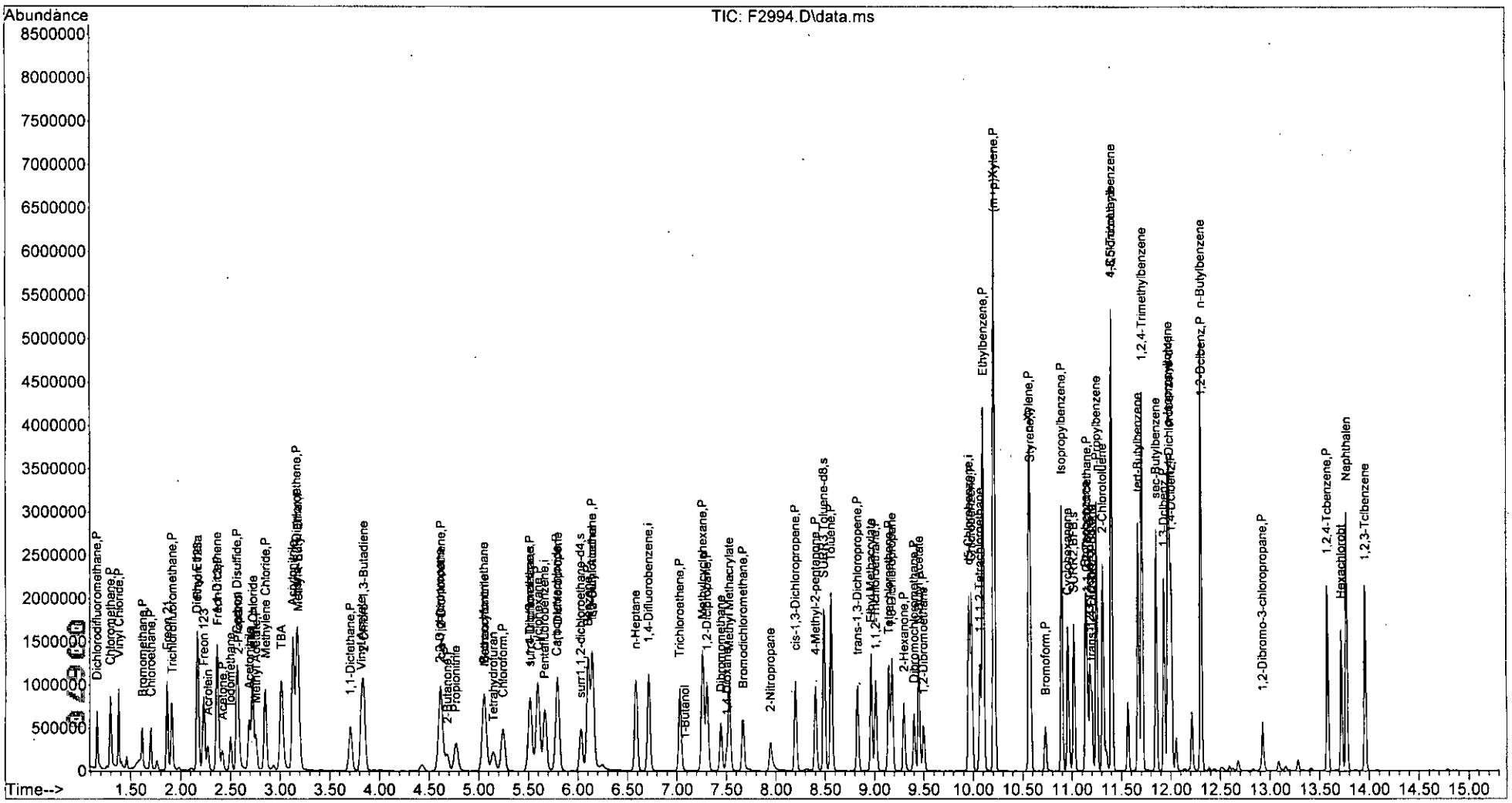
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	186.06
39.00	35.30	36.68
0.00	0.00	0.00

00669

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2994.D
Acq On : 9 Oct 2015 9:30 pm
Operator : F. Naegler
Sample : R1508244-007MS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 14 15:55:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 21:54
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1512398-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2995.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**50.2**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**46.9**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**52.7**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**46.9**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**50.8**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**51.8**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**52.0**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**50.0**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**48.0**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**50.0**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**83.5**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**47.9**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**46.6**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**48.1**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**46.4**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**52.5**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**57.5**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**49.0**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**47.3**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**47.3**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**40.5**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**52.4**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**51.7**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**52.3**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**855**		100	20	11	
106-43-4	4-Chlorotoluene	**50.8**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**56.3**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**55.3**		5.0	1.0	0.67	
67-64-1	Acetone	**45.1**		5.0	5.0	1.3	
71-43-2	Benzene	**51.4**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**49.6**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**49.6**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**44.9**		5.0	1.0	0.32	
75-25-2	Bromoform	**43.6**		5.0	1.0	0.42	
74-83-9	Bromomethane	**62.9**		5.0	1.0	0.29	

00671

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 21:54
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1512398-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2995.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**48.5**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**50.2**		5.0	1.0	0.29	
75-00-3	Chloroethane	**65.2**		5.0	1.0	0.24	
67-66-3	Chloroform	**46.6**		5.0	1.0	0.25	
74-87-3	Chloromethane	**84.3**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**48.5**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**68.4**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**45.5**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**85.2**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**54.1**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**57.9**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**47.7**		5.0	1.0	0.29	
91-20-3	Naphthalene	**60.5**		5.0	1.0	0.20	
100-42-5	Styrene	**52.0**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**46.8**		5.0	1.0	0.30	
108-88-3	Toluene	**50.0**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**44.5**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**56.0**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**74.7**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**48.9**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**48.9**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**148**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**53.2**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**57.3**		5.0	1.0	0.20	
95-47-6	o-Xylene	**51.6**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**54.2**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**56.8**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**51.0**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**46.2**		5.0	1.0	0.20	

00672

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1508244
Project:	FTMM Q3 2015 GW Sampling/748810-03000	**Date Collected:**	9/30/15 0930
Sample Matrix:	Water	**Date Received:**	10/ 1/15
		Date Analyzed:	10/9/15 21:54
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	Percent
Lab Code:	RQ1512398-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	466298
Prep Method:	EPA 5030C		
Data File Name:	I:\ACQUDATA\msvoa10\data\100915\F2995.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	10/9/15 21:54	
Dibromofluoromethane	95	85-115	10/9/15 21:54	
Toluene-d8	97	85-120	10/9/15 21:54	

00673

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2995.D
Acq On : 9 Oct 2015 9:54 pm
Operator : F. Naegler
Sample : R1508244-007DMS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 14 16:03:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

FW 10/14/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	643151	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	929329	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	833261	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	445383	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	285548	47.62	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 95.24%			
46) surr1,1,2-dichloroetha...	6.031	65	388898	45.74	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.48%			
64) SURR3,Toluene-d8	8.494	98	1059228	48.47	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 96.94%			
69) SURR2,BFB	11.018	95	417768	46.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	389666	68.41	ug/L	99
3) Chloromethane	1.294	50	654719	84.34	ug/L	96
4) Vinyl Chloride	1.379	62	501919	74.71	ug/L	100
5) Bromomethane	1.617	94	180335	62.91	ug/L	100
6) Chloroethane	1.702	64	262474	65.20	ug/L	95
7) Freon 21	1.867	67	704992	61.86	ug/L	96
8) Trichlorofluoromethane	1.910	101	483908	55.97	ug/L	97
9) Diethyl Ether	2.166	59	362105	57.27	ug/L	88
10) Freon 123a	2.172	67	416957	55.12	ug/L	95
11) Freon 123	2.233	83	419249	53.88	ug/L	98
12) Acrolein	2.276	56	183345	89.15	ug/L	94
13) 1,1-Diclethene	2.367	96	272353	51.76	ug/L	97
14) Freon 113	2.373	101	267823	45.61	ug/L	97
15) Acetone	2.422	43	247932	45.07	ug/L	98
16) 2-Propanol	2.580	45	1092709	936.42	ug/L	94
17) Iodomethane	2.501	142	416165	52.56	ug/L	96
18) Carbon Disulfide	2.562	76	877335	54.62	ug/L	99
19) Acetonitrile	2.690	40	301069m	261.36	ug/L	
20) Allyl Chloride	2.727	76	155787	46.44	ug/L #	11
21) Methyl Acetate	2.757	43	485488	48.83	ug/L	98
22) Methylene Chloride	2.855	84	299969	45.50	ug/L #	89
23) TBA	3.013	59	1378595	855.24	ug/L	85
24) Acrylonitrile	3.135	53	1255046	290.90	ug/L	100
25) Methyl-t-Butyl Ether	3.184	73	1041343	47.72	ug/L	97
26) trans-1,2-Dichloroethene	3.172	96	295489	51.04	ug/L	97
27) 1,1-Diclethane	3.708	63	626055	50.75	ug/L	99
28) Vinyl Acetate	3.818	86	62546	50.18	ug/L #	92
30) 2-Chloro-1,3-Butadiene	3.842	53	708856	52.47	ug/L	93
32) 2,2-Dichloropropane	4.610	77	370134	40.48	ug/L	97
33) cis-1,2-Dichloroethene	4.623	96	328889	48.85	ug/L #	83
34) 2-Butanone	4.684	43	362729	52.38	ug/L	99
35) Propionitrile	4.769	54	520291	280.20	ug/L	98
36) Bromochloromethane	5.049	130	208349	49.56	ug/L	88
37) Methacrylonitrile	5.062	67	192910	47.70	ug/L #	69

00674

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2995.D
Acq On : 9 Oct 2015 9:54 pm
Operator : F. Naegler
Sample : R1508244-007DMS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 14 16:03:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.147	42	250527	52.54	ug/L		98
39)	Chloroform	5.244	83	518555	46.63	ug/L		99
40)	1,1,1-Trichloroethane	5.519	97	456134	46.89	ug/L		98
42)	Cyclohexane	5.598	41	483518	52.14	ug/L		100
44)	Carbontetrachloride	5.787	121	121527	48.53	ug/L		94
45)	1,1-Dichloropropene	5.799	75	434781	51.95	ug/L		100
47)	Benzene	6.104	78	1279865	51.43	ug/L		85
48)	1,2-Dichloroethane	6.147	62	520721	46.37	ug/L		99
49)	Iso-Butyl Alcohol	6.153	43	816209	962.67	ug/L		96
51)	n-Heptane	6.586	43	624887	52.82	ug/L		93
52)	1-Butanol	7.086	56	2039	4.54	ug/L	#	1
53)	Trichloroethene	7.031	130	328513	44.49	ug/L		96
54)	Methylcyclohexane	7.256	55	543550	52.86	ug/L		93
55)	1,2-Diclpropane	7.305	63	380793	52.54	ug/L		99
56)	Dibromomethane	7.445	93	207611	47.12	ug/L		85
57)	1,4-Dioxane	7.500	88	141678	900.08	ug/L		98
58)	Methyl Methacrylate	7.531	69	287323	47.69	ug/L	#	79
59)	Bromodichloromethane	7.671	83	382722	44.89	ug/L		99
60)	2-Nitropropane	7.945	41	163265	53.04	ug/L		98
62)	cis-1,3-Dichloropropene	8.201	75	490587	48.94	ug/L		98
63)	4-Methyl-2-pentanone	8.402	43	723915	55.28	ug/L		97
65)	Toluene	8.561	91	1296750	50.04	ug/L		99
66)	trans-1,3-Dichloropropene	8.829	75	427867	46.21	ug/L		99
67)	Ethyl Methacrylate	8.969	69	509859	49.07	ug/L		94
68)	1,1,2-Trichloroethane	9.012	97	288444	46.92	ug/L		89
71)	Tetrachloroethene	9.146	164	251197	46.77	ug/L		94
72)	2-Hexanone	9.299	43	527167	52.28	ug/L		94
73)	1,3-Dichloropropane	9.177	76	521422	47.29	ug/L		94
74)	Dibromochloromethane	9.402	129	309512	48.47	ug/L		99
75)	N-Butyl Acetate	9.451	43	901356	49.75	ug/L		96
76)	1,2-Dibromoethane	9.500	107	316781	46.62	ug/L		94
78)	Chlorobenzene	9.981	112	868199	50.15	ug/L		99
80)	1,1,1,2-Tetrachloroethane	10.073	131	299366	50.15	ug/L		96
81)	Ethylbenzene	10.103	106	785188	85.23	ug/L		95
82)	(m+p)Xylene	10.213	106	1604943	148.07	ug/L		92
83)	o-Xylene	10.567	106	582291	51.58	ug/L		99
84)	Styrene	10.579	104	956401	52.00	ug/L		98
85)	Bromoform	10.731	173	212277	43.55	ug/L		95
87)	Isopropylbenzene	10.896	105	1607178	57.87	ug/L		99
88)	Cyclohexanone	10.957	55	597245	311.39	ug/L		93
89)	trans-1,4-Dichloro-2-B...	11.201	53	165440	47.99	ug/L		91
91)	1,1,2,2-Tetrachloroethane	11.152	83	444973	52.65	ug/L		98
92)	Bromobenzene	11.140	156	369454	49.55	ug/L		92
93)	1,2,3-Trichloropropane	11.182	110	141551	47.96	ug/L		93
94)	n-Propylbenzene	11.249	91	1838817	57.33	ug/L		98
95)	2-Chlorotoluene	11.310	91	1015658	51.70	ug/L		99
97)	4-Chlorotoluene	11.402	91	1184152	50.84	ug/L		98
98)	1,3,5-Trimethylbenzene	11.402	105	1307246	57.48	ug/L		96
99)	tert-Butylbenzene	11.670	119	1098347	56.80	ug/L		100
100)	1,2,4-Trimethylbenzene	11.707	105	1936107	83.48	ug/L		95
102)	sec-Butylbenzene	11.853	105	1525856	54.18	ug/L		96

00675

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2995.D
Acq On : 9 Oct 2015 9:54 pm
Operator : F. Naegler
Sample : R1508244-007DMS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 14 16:03:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) p-Isopropyltoluene	11.975	119	1346835	56.29	ug/L	97
104) 1,3-Dclbenz	11.932	146	688403	49.00	ug/L	97
105) 1,4-Dclbenz	12.005	146	711851	47.27	ug/L	97
108) n-Butylbenzene	12.304	91	1248022	53.15	ug/L	98
109) 1,2-Dclbenz	12.310	146	681859	48.11	ug/L	95
110) 1,2-Dibromo-3-chloropr...	12.926	157	108385	47.90	ug/L	87
114) 1,2,4-Tcbenzene	13.584	180	567009	50.04	ug/L	99
115) Hexachlorobt	13.718	225	254463	54.08	ug/L	96
116) Naphthalen	13.773	128	1897772	60.49	ug/L	99
117) 1,2,3-Tclbenzene	13.962	180	561168	50.00	ug/L	97

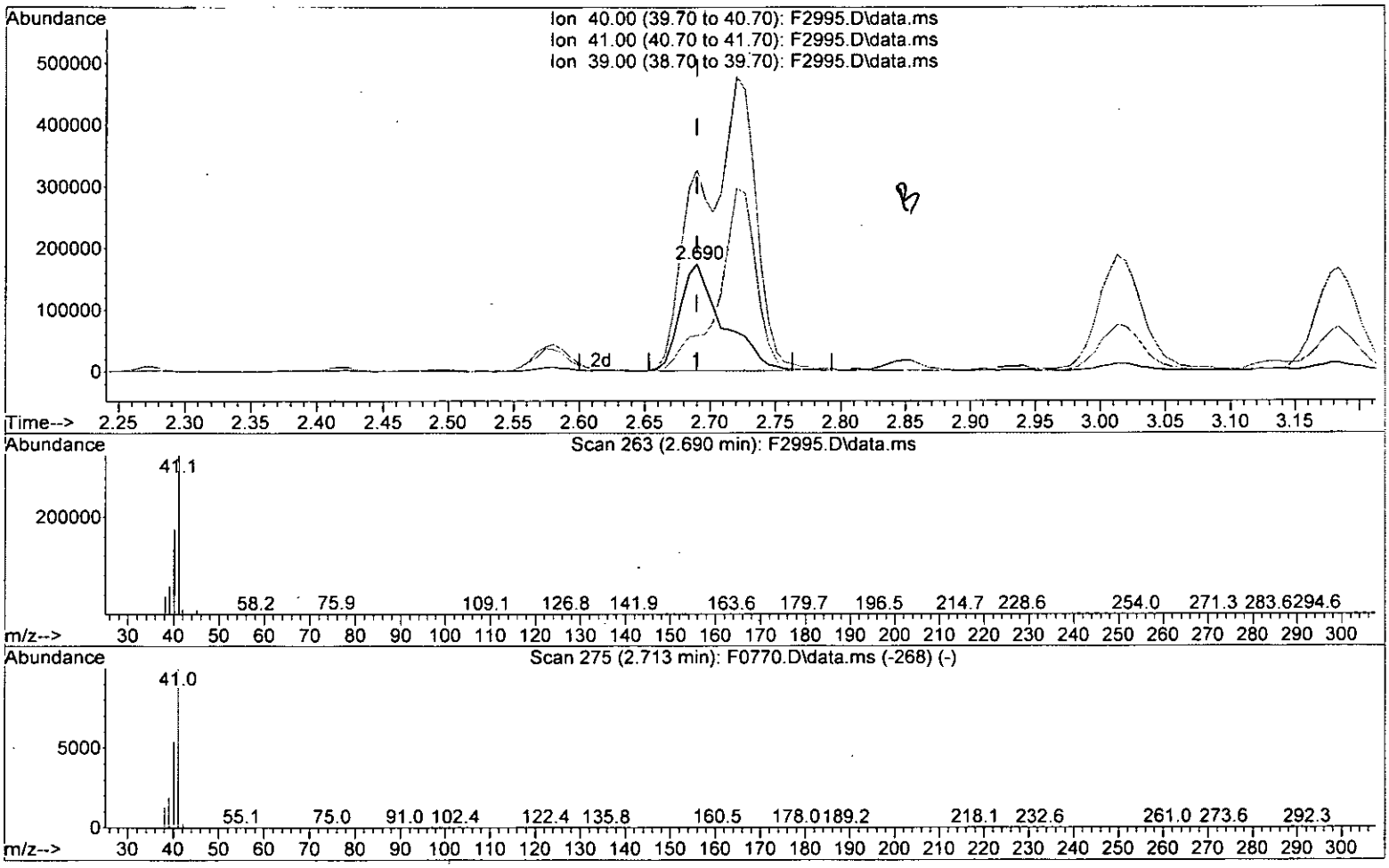
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00676

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2995.D
Acq On : 9 Oct 2015 9:54 pm
Operator : F. Naegler
Sample : R1508244-007DMS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 09 22:09:00 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2995.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 341.93 ug/L

response 393878

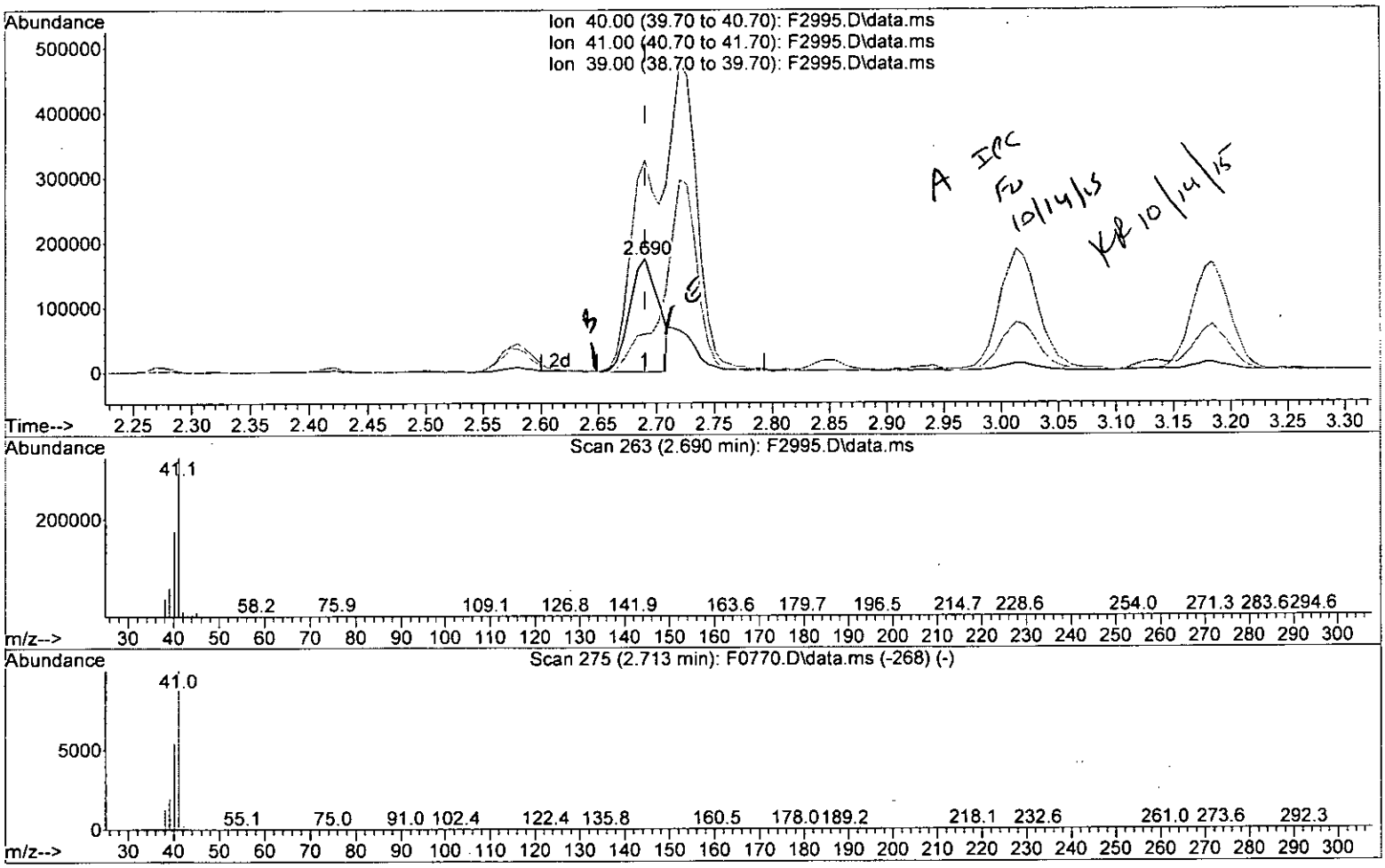
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.56
39.00	35.30	33.43
0.00	0.00	0.00

00677

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2995.D
Acq On : 9 Oct 2015 9:54 pm
Operator : F. Naegler
Sample : R1508244-007DMS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 09 22:09:00 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



TIC: F2995.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 261.36 ug/L m

response 301069

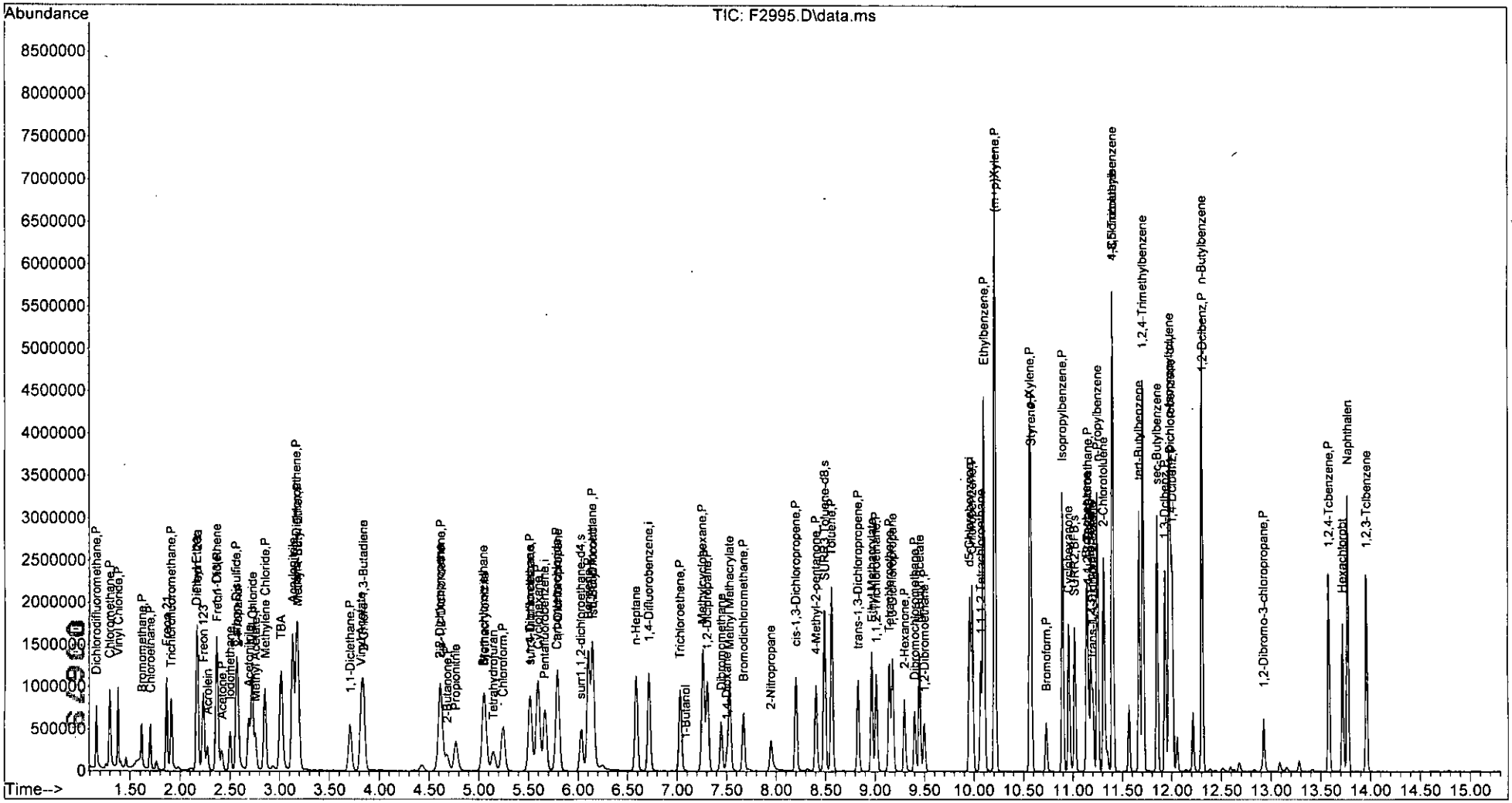
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.56
39.00	35.30	33.43
0.00	0.00	0.00

00678

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\100915\
Data File : F2995.D
Acq On : 9 Oct 2015 9:54 pm
Operator : F. Naegler
Sample : R1508244-007DMS|1.0 Inst : MSVOA10
Misc : PARSONS 11603 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 14 16:03:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W091015.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 11 10:25:18 2015
Response via : Initial Calibration



Analysis: 8260C | Analyst: F. Naegle | Tune Method: T091015.M

Date: 9/10/15 | Data Path: j:\acqudata\msvoa10\091015 | Run Method: W091015.M

Instr. MS#10 | LIMS Run#: —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F1988	Y	
1	TUNE								89	Y	
2	ICAL BLK								90	Y	
3	0.5 ppb Std								91	Y	
4	1.0								92	Y	
5	2.0								93	Y	
6	5.0								94	Y	
7	20								95	Y	
8	50								96	Y	
9	100								97	Y	
10	150								98	Y	
11	200								99	Y	
12	BLK								F2000	Y	
13	BLK								01	Y	
14	50 ppb ICV								02	Y	
15	BLK								03	Y	
16	BLK								04	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1°T|G = 83998	10mL/1mL 5mL/5mL	10mL/5mL	20mL/5mL	50mL/5mL	2mL/5mL	5mL/5mL	10mL/5mL	15mL/5mL	20mL/5mL
1° HSL = 84071	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Fr = 83938	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° HBO = 84086	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 83964	↓	↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 mL + 5 mL combined IS/Surr — mL purged

Primary : _____
Primary : _____
Primary : _____
Primary : _____
Primary : _____

Fr Secondary 200 : 84037 - 12.5uL
T|G Secondary 50 : 83536 - 5uL
HSL Secondary : 84120 -
HBO Secondary : 83224 -
OCC Secondary : 83965 -

50mL (ICV)

Combined IS/Surr : —
Surrogate 50 : 83690
Internal Std 50 : 83689

Analysis: 8260C | Analyst: F.Naegler | Tune Method: T091015.M

Date: 10/8/15 | Data Path: j:\acqudata\msvoa 10\ 100815 | Run Method: W091015.M

Instr. MS #10 | LIMS Run#: ML-465970 / 465971

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F2912	Y	
2	TUNE								13	Y	
3	CCV								14	Y	
4	LCS								15	Y	
5	LCSD								16	Y	
6	MBLK								17	(N)	
7	MEDBLK	50.0	1/50mL						18	Y	RQ1512287-01 / 289-01
8	MBLK								19	Y	
9	R1508395-002	1.0		[redacted]	66516	3	2	<2	20	Y	
10	↓ -004	1.0		↓	↓	↓	2	<2	21	Y	
11	R1508243-007	1.0		[redacted]	66516	3	2	<2	22	Y	
12	↓ -006	5.0	10/50mL	↓	↓	↓	2	<2	23	Y	DL
13	R1508395-001	5.0	↓	[redacted]	66516	3	2	<2	24	Y	DL
14	↓ -003	5.0	↓	↓	↓	↓	2	<2	25	Y	DL
15	R1508305-002	200.0	2.5/50mL → 5/50mL	[redacted]	66173	2	2	<2	26	Y	
16	BLK								27	Y	
17	R1508113-006	50.0	1/50mL	[redacted]	80413	4	—	—	28	Y	
18	-001	96.5					—	—	29	Y	
19	-002	98.5					—	—	30	Y	
20	-003	95.5					—	—	31	Y	
21	-004	89.0					—	—	32	Y	
22	-005	72.5					—	—	33	Y	
23	BLK								34	Y	
24	R1508244-001	1.0		Parsons	116003	4	1	<2	35	Y	
25	-002	~~2.5~~ 20	20/50mL				1	<2	36	(Y)	Rpt 1/10 BE FU 10/8/15
26	-003	~~20~~ 2.5	2.5/50mL				1	<2	37	(Y)	Rpt 1/250
27	-004	1.0					1	<2	38	(N)	Rpt 1/1 c/o?
28	-005	1.0					1	<2	39	Y	
29	-006	1.0					1	<2	40	Y	
30	BLK								41	Y	
31			FU 10/8/15								
32											
33											

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

T/G Primary 500 : 84560 - 5mL/50mL

HSL Primary : 84562 -

Fr Primary : 84564 - (CCV)

HBO Primary : 84086 -

Primary :

Fr Secondary 200 : 84751 - 5mL

T/G Secondary 500 : 84402 - 2mL

HSL Secondary : 84587 - (LCS)

HBO Secondary : 84343 -

Secondary :

5mL → -12.5mL → -5mL → 50mL (50x)

Combined IS/Surr : —

Surrogate 50 : 84399

Internal Std 50 : 84398

Analysis: 8260C | Analyst: F. Naegler | Tune Method: T091015.M

Date: 10/9/15 | Data Path: j:\acqudata\msvoa 1d 10 09 15 | Run Method: W091015.M

Instr. MS #10 | LIMS Run#: 466298

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F2968	Y	
2	TUNE								69	(N)	
3	TUNE								70	Y	
1	CCV								71	Y	
2	LCS								72	(N)	
2	LCS								73	Y	
3	MBLK								74	(N)	
4	MBLK								75	Y	RQ1512398-01
5	R1508244-017	1.0		Parsons	11603	4	1	<2	76	Y	
6	-004	1.0					2	<2	77	Y	
7	-005	1.0					1	<2	78	Y	
8	-006	1.0					1	<2	79	Y	
9	-009	1.0					1	<2	80	Y	
10	-010	1.0					1	<2	81	Y	
11	-011	1.0					1	<2	82	Y	
12	-012	2.5	20/5mL				1	<2	83	Y	
13	-013	1.0					1	<2	84	(N)	Rpt 1/1 c/o?
14	-014	1.0					1	<2	85	Y	
15	-015	1.0					1	<2	86	Y	
16	-016	1.0					1	<2	87	Y	
17	-018	1.0					1	<2	88	(Y)	Rpt 1/2.5
18	-013	1.0					2	<2	89	(N)	Rpt 1/1 c/o?
19	-002	10.0	5/5mL				2	<2	90	Y	DL
20	-003	50.0	1/5mL				2	<2	91	Y	DL
21	R1508361-001	1.0		[redacted]	9866	1	2	<2	92	Y	
22	R1508363-001	2.5	20/5mL	[redacted]	9866	1	2	<2	93	Y	
23	R1508244-007MS	1.0		[redacted]	11603	4H	2	<2	94	Y	
24	↓ -007MSD	1.0		↓	↓	4H	3	<2	95	Y	
25	BLK					EDF FU 10/9/15			96	Y	
			FU	10/9/15							

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

T/G Primary 500 : 84560 - 5mL/5mL

HSL Primary ↓ : 84562 - ↓ (CCV)

Fr Primary ↓ : 84564 -

Primary :

Primary :

Fr Secondary 200 : 84751 - 5mL

T/G Secondary 500 : 84402 - 2mL

HSL Secondary ↓ : 84587 - ↓

Secondary :

Secondary :

5mL - 12.5mL (LCS) ↓ (SPK)

Combined IS/Surr :

5mL Surrogate 50 : 84399

Internal Std 50 : 84398

Analysis: 8260C | Analyst: F. Nagler | Tune Method: T091015.M

Date: 10/12/15 | Data Path: j:\acqudata\msvoa\W\ W01215 | Run Method: W091015.M

Instr. MS #10 | LIMS Run#: 466502 / ML-466299

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F3220	Y	
2	BLK								21	Y	
1	TUNE								22	(N)	
1	TUNE								23	Y	
1	CCV								24	(N)	inst error
1	CCV								25	Y	
2	LCS								26	Y	
3	MBLK								27	(N)	
4	MEDBLK	50.0	1/50mL						28	Y	/ 486-01
5	MBLK								29	Y	RQ1512484-01
6	R1508244-013	1.0		Parsons	11603	4	2	<2	30	Y	
7	↓ -018	2.5	20/50mL	↓	↓	↓	2	<2	31	Y	DL
8	BLK								32	Y	
9	R1508151-007	50.0	1/50mL	[redacted]	8043	4	—	—	33	Y	
10	-002	92.5					—	—	34	Y	
11	-005	91.5					—	—	35	Y	
12	-003	94.5					—	—	36	Y	
13	-004	92.0					—	—	37	Y	
14	-006	96.0					—	—	38	Y	
15	↓ -001	450.0	200mL/50mL	↓	↓	↓	—	—	39	(N)	Rpt 1/100
16	BLK								40	Y	
17	R1508344-002	50.0	1/50mL	[redacted]	8043	4	—	—	41	Y	
18	↓ -001	92.5	↓	↓	↓	↓	—	—	42	Y	
19	R1508177-012	136.3	↓	[redacted]	11603	4	—	—	43	Y	DL
20	R1508313-001	930.0	100mL/50mL	[redacted]	11603	4	—	—	44	(N)	Rpt 1/250
21	-003	90.0	1/50mL				—	—	45	(N)	Rpt 1/50 RT shift
22	-004	86.0	↓				—	—	46	(N)	Rpt low
23	-006	210.0	500mL/50mL	↓	↓	↓	—	—	47	Y	
24	R1508151-003MS	94.5	1/50mL	[redacted]	8043	4	—	—	48	Y	
25	↓ -003MSD	94.5	↓	↓	↓	↓	—	—	49	Y	
26									↓ 50	Y	
27											
28											

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

T/G Primary 500 : 84560 - 5mL
HSL Primary ↓ : 84562 - 5mL
Fr Primary ↓ : 84564 - 5mL
Primary :
Primary :
50mL (LCV)

Fr Secondary 200 : 84751 - 5mL
T/G Secondary 500 : 84402 - 2mL
HSL Secondary 500 : 84587 - ↓
Secondary :
Secondary :
50mL (LCS) -12.5mL -5mL -5mL

Combined IS/Surr :
50mL Surrogate 50 : 84399
(SPK) Internal Std 50 : 84398