FINAL

GROUNDWATER SAMPLING REPORT
THIRD QUARTER 2014

FTMM-22, FTMM-53 and FTMM-68

FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

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Huntsville, Alabama



Prepared By:

PARSONS
401 Diamond Dr. NW, Huntsville, AL 35806

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FINAL
GROUNDWATER SAMPLING REPORT
THIRD QUARTER 2014

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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: Christina Grill, P.G. — 10/13/15 (Date)

Program Manager: Don Silkebakken, V.P. — 10/13/15 (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 2014 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 2006).

1.1 PURPOSE AND SCOPE

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

1.2 REPORT ORGANIZATION

This Groundwater Sampling Third Quarter 2014 Report includes the following sections:

- Section 1 provides an introduction and organization to the report;
- Section 2 presents general information on the third quarter 2014 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 2014;
- Appendix D provides a memorandum regarding data validation for the third quarter 2014 sampling event; and
- Appendix E provides the laboratory analytical package, which is included 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 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 July 1 and July 2 of 2014, 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 July 1 and 2, 2014 and samples were retrieved on September 30, 2014. 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 first 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. Groundwater sampling by PDB was conducted in accordance with the FSPM and the SAP. 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 2009) 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 2014 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.

2.2.4 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 2014 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. *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 2014.

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

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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 2014 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site	Area	Total Number of Wells	Number of Wells Sampled in 3rd Quarter 2014
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 2014 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	7/2/14, 9/30/14
CW1MW28			7/2/14, 9/30/14
CW1MW29			7/2/14, 9/30/14
CW1MW31			7/2/14, 9/30/14
CW1MW37			7/2/14, 9/30/14
CW1MW281			7/2/14, 9/30/14
FTMM-53: Former Gas Station at Building 699			
699MW01	VOCs & TICs-EPA Method 8260C	PDB	7/1/14, 9/30/14
699MW04			7/1/14, 9/30/14
699MW06			7/1/14, 9/30/14
699MW09			7/1/14, 9/30/14
699MW16			7/1/14, 9/30/14
699RW03			7/1/14, 9/30/14
699RW05			7/1/14, 9/30/14
699RW11			7/1/14, 9/30/14
FTMM-68: Former Dry Cleaners UST at Building 700			
565MW01	VOCs & TICs-EPA Method 8260C	PDB	7/1/14, 9/30/14
565MW01D			7/1/14, 9/30/14

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 2014 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

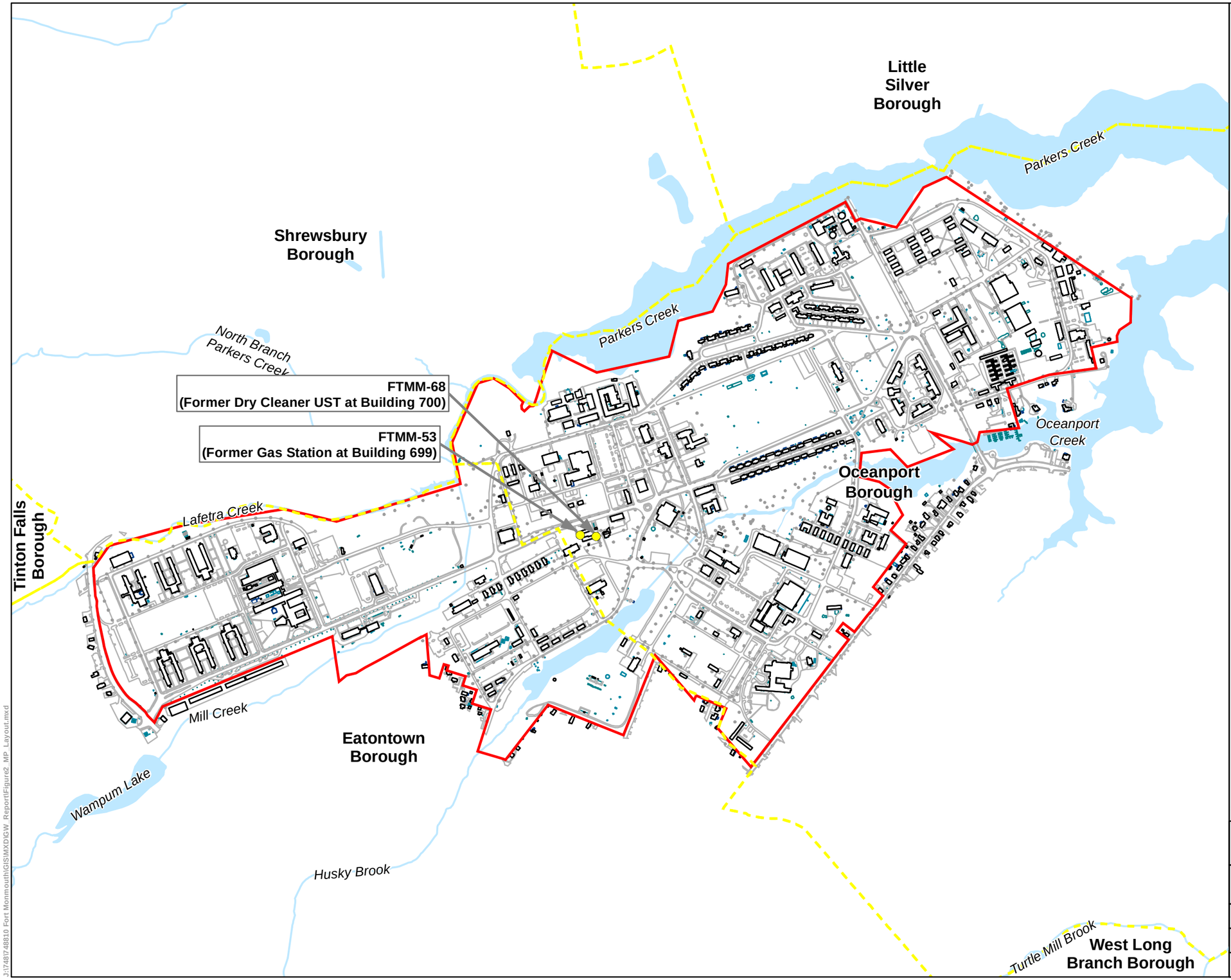
1 inch = 2,500 feet

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

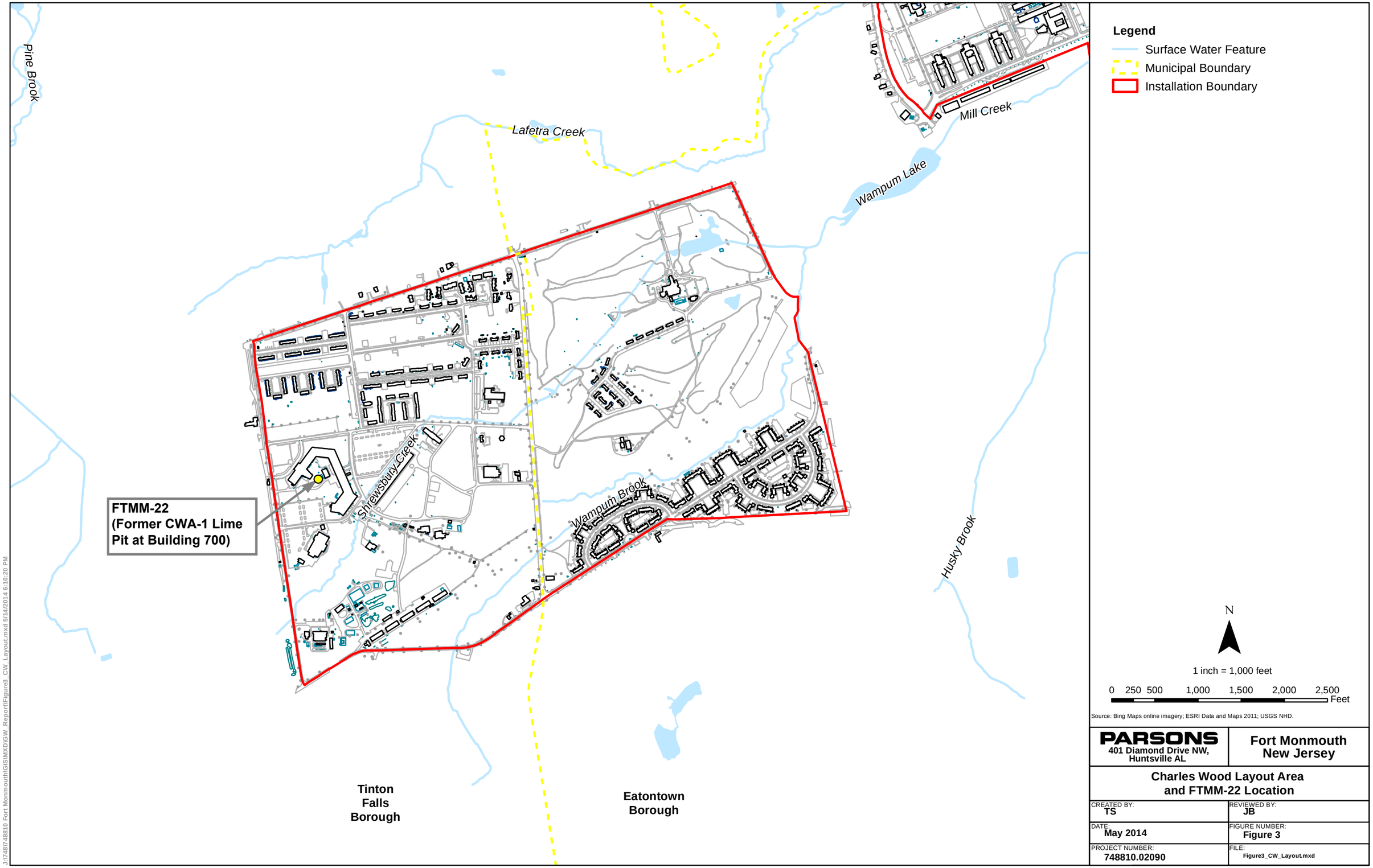
1 inch = 1,000 feet

0 250 500 1,000 1,500 2,000 2,500 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: TS	REVIEWED BY: ME
DATE: August 2014	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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3	FTMM-22 Deep Groundwater Contours July 2, 2014

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 July 2, 2014. 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 49.57 (CW1MW36) to 52.20 (CW1MW30) 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. However, three wells (CW1MW35, CW1MW36 and CW1MW37) were found to have significant accumulations of silt within the well.

2.0 GROUNDWATER SAMPLING

Groundwater samples were collected from six monitoring wells located at the FTMM-22 as part of the third quarter 2014 groundwater sampling event. Based on the analytical results from the samples collected during the RI/FS for Site FTMM-22 in January it was determined that two additional (wells for at total of six) needed to be added to the long term monitoring program. CW1MW28 was added to the program based on historical detections of trichloroethylene (TCE) above the NJDEP Ground Water Quality Standard (GWQS). CW1MW37 was added to the program to show shallow downgradient delineation.

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 July 2, 2014 and samples were retrieved on September 30, 2014. A PDB sampling summary is provided in **Table 2**. Additionally, because this was the first time both CW1MW28 and CW1MW281 were sampled using PDB methods both wells were profiled. Of the two wells only CW1MW281 had enough saturated screen to collect more than one sample. 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 2014

Several VOCs were detected in groundwater during this quarterly event. Trichloroethene (TCE) was detected in FTMM-22 monitoring wells CW1MW28, CW1MW29, and CW1MW281 above its NJDEP GWQS of 1 µg/L. Vinyl chloride was also detected at CW1MW281 slightly above its NJDEP GWQS of 1 µg/L. Three other VOCs were detected in groundwater but detections for

these VOCs were below their respective NJDEP GWQS. Groundwater analytical results from samples collected during the first, second and third Quarter 2014 groundwater sampling events are presented in **Table 3**.

TABLES

Table 1 Groundwater Gauging Data and Elevations (July 2, 2014)

Table 2 PDB Sampling Summary

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

Table 1
Groundwater Gauging Data and Elevations (July 2, 2014)
FTMM-22 Former Wastewater Treatment Lime Pit (CWA-1)
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													
CW1MW26	12/19/1994	29-32590	532932.46	607087.71	15.0	5.0	10.0	60.81	911	0.0	8.95	17.10	51.86
CW1MW27	12/19/1994	29-32591	532942.54	607079.91	15.0	5.0	10.0	60.85	915	0.0	8.67	17.09	52.18
CW1MW28	12/19/1994	29-32592	532962.81	607087.57	15.0	5.0	10.0	59.09	934	0.0	7.00	14.80	52.09
CW1MW29	12/19/1994	29-32593	532952.80	607110.86	15.0	5.0	10.0	58.40	926	0.0	6.66	14.75	51.74
CW1MW30	7/13/2000	29-43188	532932.46	607094.40	17.0	7.0	10.0	61.93	953	0.0	9.73	21.59	52.20
CW1MW31	7/17/2000	29-43189	532952.95	607141.85	19.0	4.0	15.0	61.47	936	0.0	10.10	22.71	51.37
CW1MW32	7/17/2000	29-43190	532953.17	607188.33	22.0	7.0	15.0	62.18	1007	0.0	11.30	22.02	50.88
CW1MW33	7/17/2000	29-43191	532902.61	607196.32	20.0	5.0	15.0	62.27	1009	0.0	11.10	23.57	51.17
CW1MW34	7/17/2000	29-43192	533014.20	607257.78	20.0	5.0	15.0	58.63	958	0.0	8.65	19.60	49.98
CW1MW35	7/18/2000	29-43193	532973.91	607296.71	20.0	5.0	15.0	58.09	1002	0.0	8.35	16.71	49.74
CW1MW36	7/18/2000	29-43194	533014.49	607319.77	20.0	5.0	15.0	58.70	1001	0.0	9.13	16.50	49.57
CW1MW37	7/18/2000	29-43195	532953.85	607335.55	20.0	5.0	15.0	59.21	1004	0.0	8.79	13.70	50.42
CW1MW282	5/2/1996	29-35313	533064.25	607141.33	16.0	6.0	10.0	60.29	951	0.0	8.65	18.20	51.64
CW1MW291	5/3/1996	29-35314	532993.64	607188.15	16.0	6.0	10.0	62.21	1012	0.0	11.29	18.31	50.92
Deep Monitoring Wells													
CW1MW25	10/12/2010	E201010535	533033.51	607133.86	48.0	38.0	10.0	61.82	943	0.0	13.05	50.33	48.77
CW1MW38	7/11/2000	29-43186	532922.20	607056.76	50.0	30.0	20.0	61.93	908	0.0	12.63	50.80	49.30
CW1MW39	7/10/2000	29-43185	533064.22	607133.58	48.0	28.0	20.0	61.51	950	0.0	13.15	51.22	48.36
CW1MW40	7/14/2000	29-43187	532973.22	607149.50	50.0	30.0	20.0	62.35	940	0.0	13.76	5.10	48.59
CW1MW281	5/2/1996	29-35312	532962.89	607103.06	41.0	31.0	10.0	58.20	930	0.0	9.24	40.20	48.96

Notes:
1) The synoptic round of water levels in the wells was collected on July 2, 2014
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
FTMM-22 - Former Wastewater Treatment Lime Pit (CWA-1)
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	60.9	7/2/14	915	0	8.67	17.1	52.2	8.4	12.63	N/A	7/2/2014	1115	9/30/2014	1249
CW1MW28	9/30/2014	15.0	10.0	5-15	59.1	7/2/14	934	0	7.00	14.8	52.1	7.8	11.21	N/A	7/2/2014	1145	9/30/2014	1306
CW1MW29	8/28/2013	15.0	10.0	5-15	58.4	7/2/14	926	0	6.66	14.8	51.7	8.1	10.85	N/A	7/2/2014	1135	9/30/2014	1257
CW1MW31	8/28/2013	19.0	15.0	4-19	61.5	7/2/14	936	0	10.10	22.7	51.4	12.6	16.90	N/A	7/2/2014	1125	9/30/2014	1302
CW1MW37	8/28/2013	20.0	15.0	5-20	59.21	7/2/14	1004	0	8.79	13.7	50.4	4.9	11.80	N/A	7/2/2014	1200	9/30/2014	1310
CW1MW281	9/30/2014	41.0	10.0	31-41	58.2	7/2/14	930	0	9.24	40.2	49.0	10.0	33.74	38.74	7/2/2014	1105	9/30/2014	1252

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 First, Second and Third Quarter 2014
FTMM-22 - Former Wastewater Treatment Lime Pit (CWA-1)
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	CW1MW27			CW1MW28 [8]	CW1MW281			
Sample ID			FTMM-22-GW-CW1MW27-11.9	FTMM-22-GW-CW1MW27-11.52	FTMM-22-GW-CW1MW27-12.63	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
Sample Date			1/24/2014	5/8/2014	9/30/2014	9/30/2014	1/24/2014	1/24/2014	5/8/2014	9/30/2014
Sample Method			LFPS	LFPS	PDB	PDB	LFPS	LFPS	LFPS	PDB
Volatile Organic Compounds (µg/l)										
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.69 J**
1,1-Dichloropropene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	NLE	NLE	< 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
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**2 J**	**7.2**	**7.4 B**	< 5	< 5	< 5	**6.2 B**
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	**2.6 J**	**2.4 J**	**3.4 J**	**14**
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20	NA	NA	NA	< 20
tert-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**0.45 J**	**0.99 J**	< 1	**1.5 J**	**8.9**	**8.6**	**14**	**150**
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	**0.52 J**	**1.1 J**
TIC VOCs (mg/l)										
Total TIC, Volatile	0.5	NLE	ND	ND	NA	NA	ND	ND	ND	ND

Table 3
Groundwater Analytical Results First, Second and Third Quarter 2014
FTMM-22 - Former Wastewater Treatment Lime Pit (CWA-1)
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	CW1MW281	CW1MW29				CW1MW31	
Sample ID			FTMM-22-GW-CW1MW281-38.74	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-CW1MW131-13	FTMM-22-GW-CW1MW31-13
Sample Date			9/30/2014	1/24/2014	5/8/2014	5/8/2014	9/30/2014	1/24/2014	1/24/2014
Sample Method			PDB	LFPS	LFPS	LFPS	PDB	LFPS	LFPS
Volatile Organic Compounds (µg/l)									
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	**0.64 J**	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	**0.41 J**	**0.54 J**	**0.46 J**	< 1	**0.32 J**	**0.3 J**
1,2,4-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	**5.5 B**	< 5	< 5	< 5	**5.6 B**	< 5	< 5
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	**0.33 J**	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	**14**	**6.5**	**0.59 J**	**0.55 J**	**5.6**	**2.7 J**	**2.9 J**
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20	NA	NA	NA	< 20	NA	NA
tert-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	**0.99 J**	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**160**	**7.4**	**13**	**13**	**3.9 J**	**5.2**	**5.1**
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	**1.1 J**	**0.78 J**	< 1	< 1	**0.47 J**	< 1	< 1
TIC VOCs (mg/l)									
Total TIC, Volatile	0.5	NLE	NA	ND	ND	ND	NA	ND	ND

Table 3
Groundwater Analytical Results First, Second and Third Quarter 2014
FTMM-22 - Former Wastewater Treatment Lime Pit (CWA-1)
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	CW1MW31			CW1MW37 [8]
Sample ID			FTMM-22-GW-CW1MW31-18.7	FTMM-22-GW-CW1MW31-14.3	FTMM-22-GW-CW1MW31-16.40	FTMM-22-GW-CW1MW37-11.78
Sample Date			1/24/2014	5/8/2014	9/30/2014	9/30/2014
Sample Method			LFPS	LFPS	PDB	PDB
Volatile Organic Compounds (µg/l)						
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	**0.26 J**	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1
1,1-Dichloropropene	NLE	NLE	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	**0.37 J**	< 1	< 1	< 1
1,2,4-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1
1,3-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1
2,2-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1
2-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	< 5	**6.1 B**	**6.7 B**
Benzene	1	5	< 1	< 1	< 1	< 1
Bromobenzene	NLE	NLE	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	**2.6 J**	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1
Cymene	NLE	NLE	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1
n-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1
p-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1
Propylbenzene	NLE	NLE	< 1	< 1	< 1	< 1
sec-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20
tert-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**5.2**	**6.8**	**0.47 J**	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1
TIC VOCs (mg/l)						
Total TIC, Volatile	0.5	NLE	ND	ND	NA	NA

Table 3
Groundwater Analytical Results First, Second and Third Quarter 2014
FTMM-22 - Former Wastewater Treatment Lime Pit (CWA-1)
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

5) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.
[blank] = detect, i.e. detected chemical result value.
B = Compound detected in the sample and its associated blank sample.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected equal to 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 (detect or non-detect) value.
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.

6) 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 ####
- Bold Outline represent a result that is above the USEPA 2014-05 MCL. ###

7) 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 2014-05 USEPA MCL refers to the USEPA's Region 9 Regional Screening Levels (HQ=1.0) - 5/31/2014 (Last revised)
  http://www.epa.gov/region9/superfund/prg/

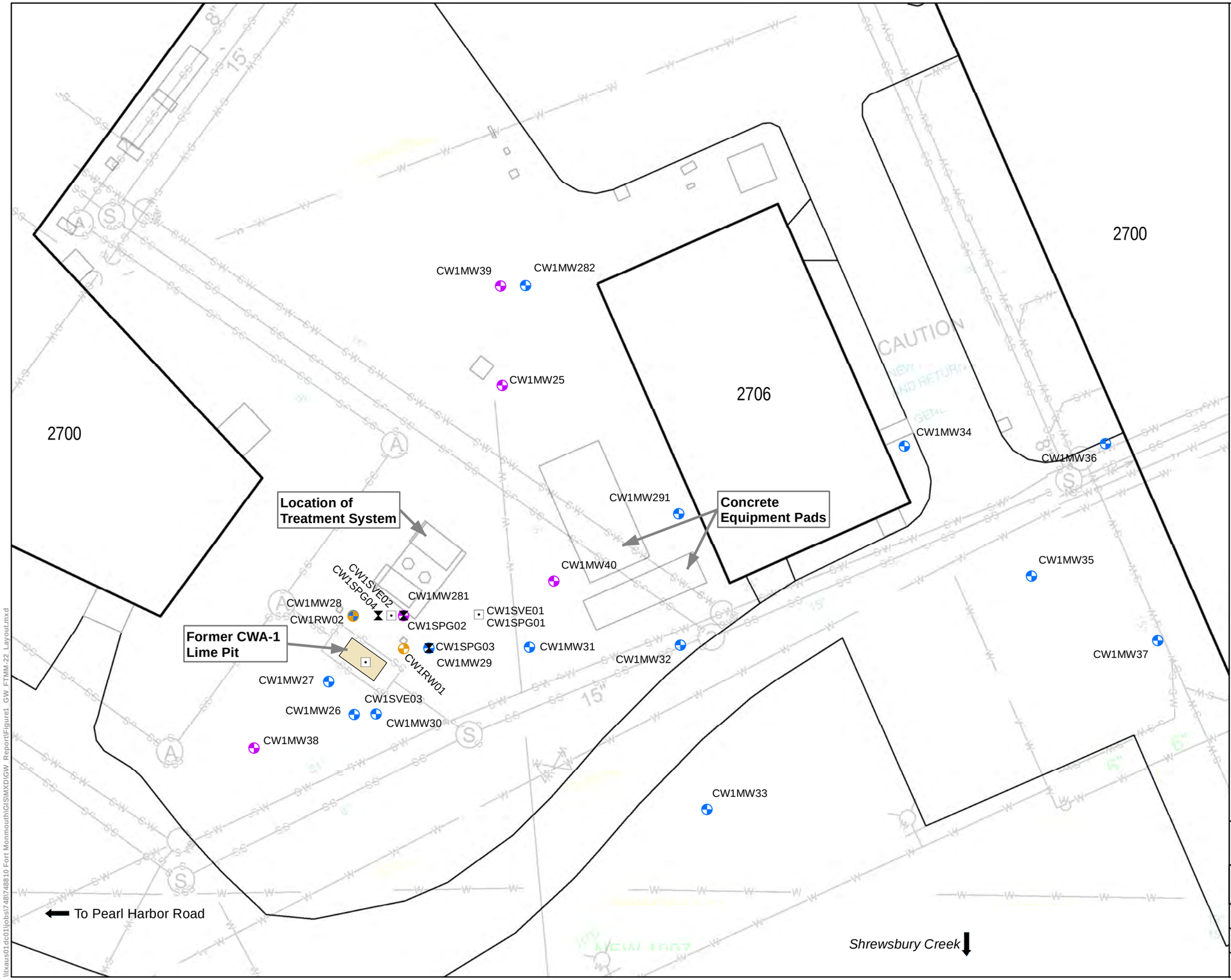
8) Wells CW1MW28 and CW1MW37 were added to the long-term monitoring program in the Third Quarter.

FIGURES

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

Figure 2 FTMM-22 Shallow Groundwater Contours July 2, 2014

Figure 3 FTMM-22 Deep Groundwater Contours July 2, 2014



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

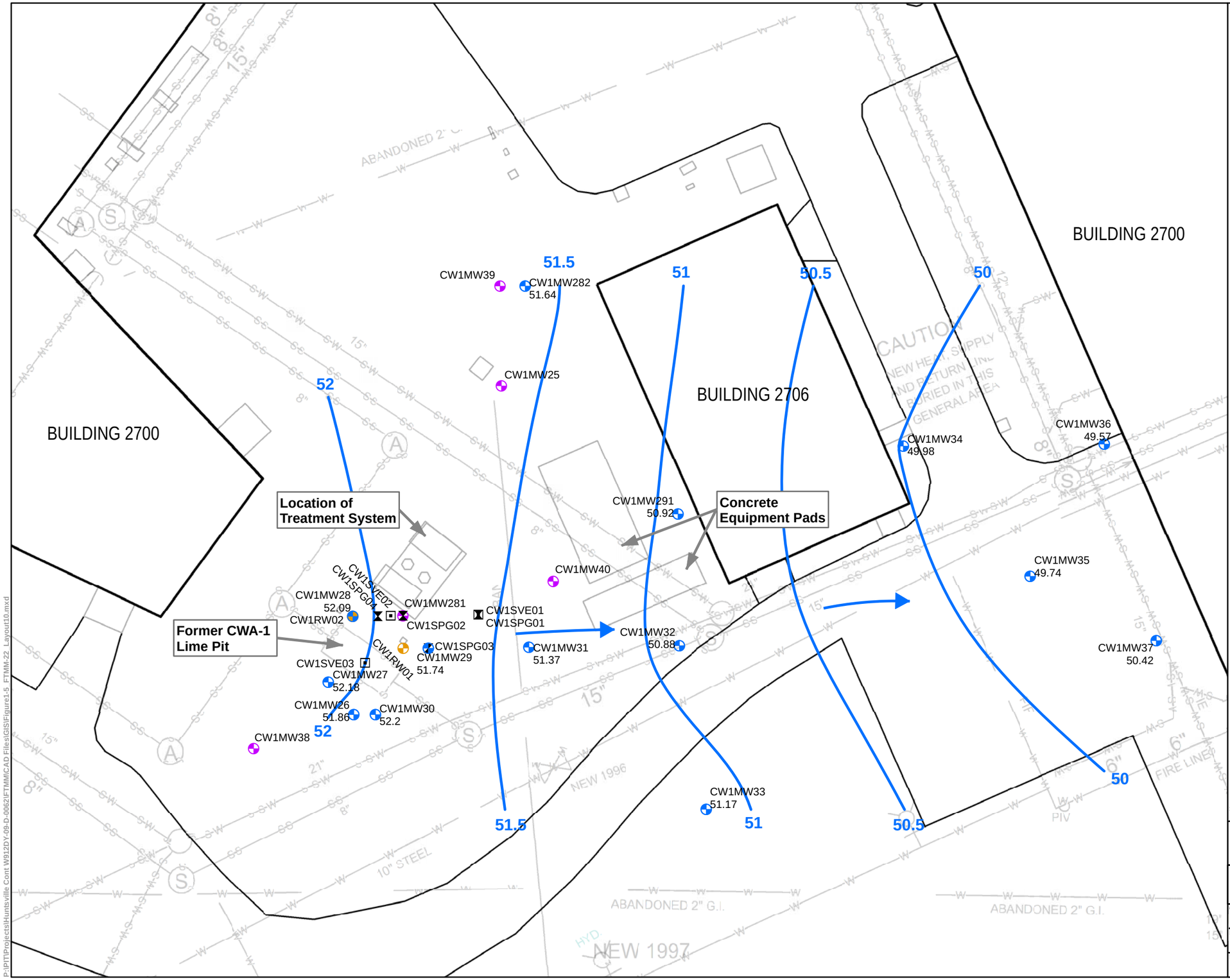
1 inch = 30 feet

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
- Inferred Groundwater Flow Direction

Note:
Groundwater Elevation value in monitoring wells CM1MW37 and CWIMW30 were considered anomalous compared to fluid levels at neighboring wells.

N

1 inch = 30 feet

0 12.5 25 50 Feet

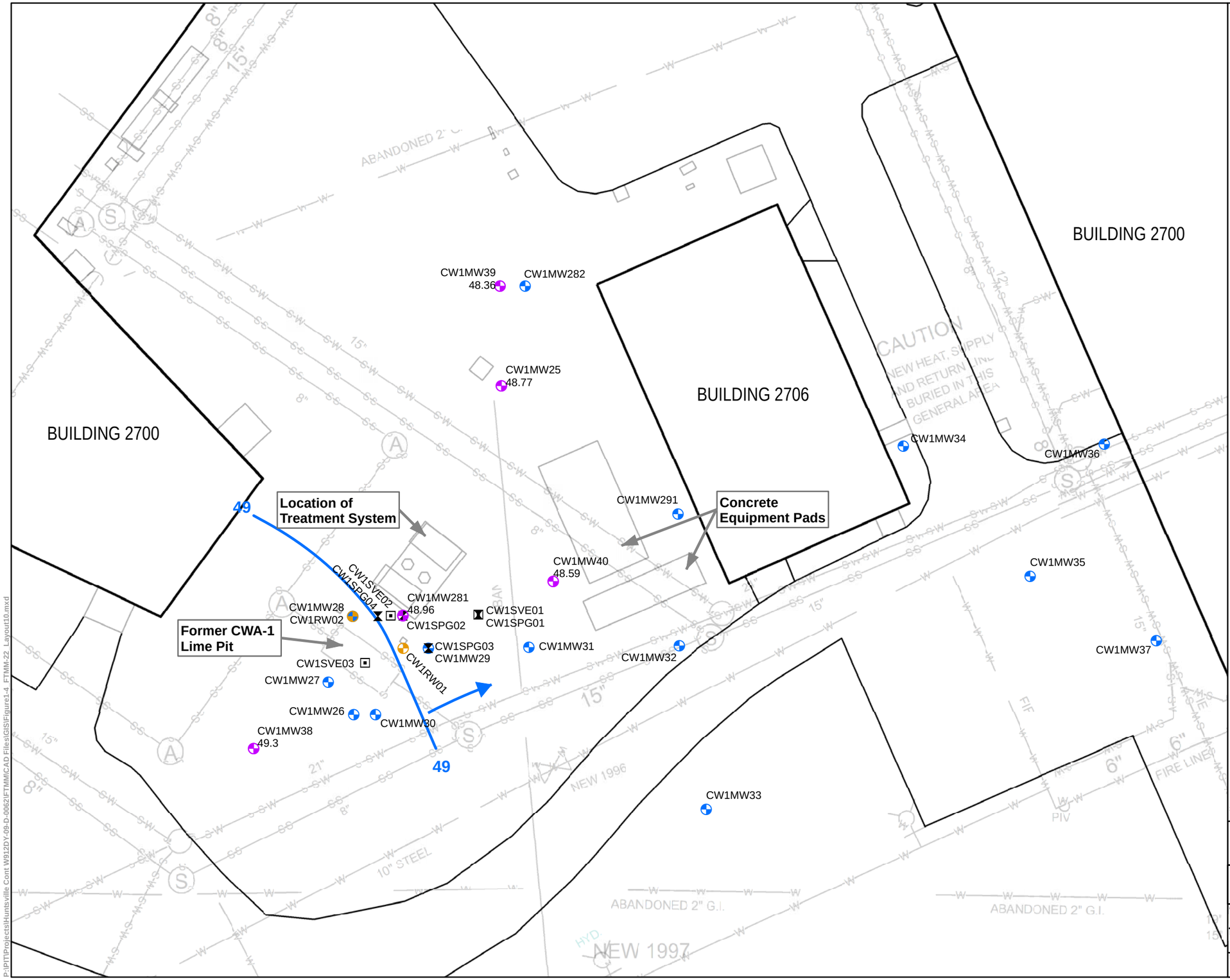
Source: FTMM Supplied CAD

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

FTMM-22 Shallow Groundwater Contours - July 2, 2014

CREATED BY: RR	REVIEWED BY: ME
DATE: December 2014	FIGURE NUMBER: Figure 1.5
PROJECT NUMBER: 748810.03000	FILE: Figure1-5_FTMM-22_Layout10.mxd

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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
- Inferred Groundwater Flow Direction

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
FTMM-22 Deep Groundwater Contours - July 2, 2014	
CREATED BY: RR	REVIEWED BY: ME
DATE: December 2014	FIGURE NUMBER: Figure 1.4
PROJECT NUMBER: 748810.03000	FILE: Figure1-4_FTMM-22_Layout10.mxd

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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)

. Site: FTMM

. Location: FTMM-32, CW-1

. Well Designation: CW1MW0881

. Well Permit Number: 29-35312

Type of Well	☒Monitoring ☐Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other	
Well Surface Finish	☐Stick-Up ☒Flush Mount	
Location of Measuring Point	☒Top of Casing ☐Other (specify)	

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

Total Well Depth (fbgs)	41.24	
0. Screened interval/open hole (fbgs)	31.24 - 41.24	
1. Well Casing	Diameter 4	Material ☒PVC ☐Carbon Steel ☐Stainless Steel
2. Well Screen (or open hole diameter)	Diameter 4	Material ☒PVC ☐Carbon Steel ☐Stainless Steel
3. Screen Size (slot)	Screen Slot Size 0.08	

4. Date and Time of Deployment	Date: 7/3/14 Time: 1105
5. Depth to Ground Water	Depth to ground water at time of deployment 9.24
6. Date and Time of Retrieval	Date: 7/31/14 Time: 1252
7. Depth to Ground Water	Depth to ground water at time of retrieval 9.06
8. Type of Deployment Line Used	Diameter: 3/16" Material: Poly
9. Material and Mass (oz.) of PDBS Weight	Stainless Steel 20oz (stainless steel recommended)
0. 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.)
1. Dimensions of PDBS	Length (in.) 18 Diameter (in.) 1.5 Filled
2. 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)

3. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)	1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
	(NE) 33.5 / 33.71	(N) 38 / 38.24		
	5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

4. 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:
5. 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]
6. Weather Conditions During Deployment	Temp. 90° Wind 0-3 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
7. Weather Conditions During Retrieval	Temp. 70's Wind 0-2 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Nick Lorizo's	
Chris Watson	Parsons

PARSONS

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

1. Site: FTMM
2. Location: FTMM-02, CW-1
3. Well Designation: CW1MW37
4. Well Permit Number: 29-431945

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.) -0.24

9 Total Well Depth (fbgs) 14.34

10 Screened interval/open hole (fbgs) 5'-20'

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: 7/3/14 Time: 1200

15. Depth to Ground Water Depth to ground water at time of deployment 5.79

16. Date and Time of Retrieval Date: 7/30/14 Time: 1310

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 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
11.78	N/A		

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. 90° Wind 0-3 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval Temp. 70° Wind 0-2 mph ☒Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Nick Laizos	
Chris Watson	Parsons

PARSONS

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

Site: FTMM

1. Location: FTMM-32, CW-1
1. Well Designation: CW1MW29
1. Well Permit Number: 89-325973

1. Type of Well ☒Monitoring ☐Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other
1. Well Surface Finish ☒Stick Up ☐Flush Mount
1. Location of Measuring Point ☒Top of Casing ☐Other (specify) _____
1. 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
1. Total Well Depth (fbgs) 15.55
0. Screened interval/open hole (fbgs) 5.55-15.55
1. Well Casing Diameter 4 Material ☒PVC ☐Carbon Steel ☐Stainless Steel
2. Well Screen (or open hole diameter) Diameter 4 Material ☒PVC ☐Carbon Steel ☐Stainless Steel
3. Screen Size (slot) Screen Slot Size 0.01

4. Date and Time of Deployment Date: 7/2/14 Time: 1135
5. Depth to Ground Water Depth to ground water at time of deployment 6.66
6. Date and Time of Retrieval Date: 9/30/14 Time: 1257
7. Depth to Ground Water Depth to ground water at time of retrieval 6.05
8. Type of Deployment Line Used Diameter: 3/16" Material: Poly
9. Material and Mass (oz.) of PDBS Weight Stainless Steel 20 oz (stainless steel recommended)
0. 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.)
1. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.5 Filled _____
2. 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)
3. 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

4. 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: _____

5. 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]
6. Weather Conditions During Deployment Temp. 90° Wind 0-8 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
7. Weather Conditions During Retrieval Temp. 70's Wind 0-5 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Nick Leitos	Parsons
Chris Watson	Parsons

PARSONS

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

1. Site: SFTMM
2. Location: SFTMM-32, CW-1
3. Well Designation: CW1MW32
4. Well Permit Number: 29-32591

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.) 1.55
9. Total Well Depth (fbgs) ~~16.04~~ 15.54
10. Screened interval/open hole (fbgs) 5.54 - 15.54
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: 7/8/14 Time: 1115
15. Depth to Ground Water: Depth to ground water at time of deployment 8.67
16. Date and Time of Retrieval: Date: 9/25/14 Time: 1249
17. Depth to Ground Water: Depth to ground water at time of retrieval 9.13
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.) 16 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
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
    ☒ 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. 90° Wind Dangle ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval: Temp. 70's Wind 0-5 Mph ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician Name(s) and Company (please print clearly)

Name	Company
Nick Loizos	Parsons
Chris Watson	

PARSONS

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

1. Site: SFTMM
2. Location: SFTMM-32, 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) _____

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

8. Total Well Depth (fbgs) 30.55
9. Screened interval/open hole (fbgs) 5.25 - 30.25
10. Well Casing: Diameter 4 Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
11. Well Screen (or open hole diameter): Diameter 4 Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Screen Size (slot): Screen Slot Size 0.01

13. Date and Time of Deployment: Date: 7/2/14 Time: 1125
14. Depth to Ground Water: Depth to ground water at time of deployment 10.10
15. Date and Time of Retrieval: Date: 9/30/14 Time: 1302
16. Depth to Ground Water: Depth to ground water at time of retrieval 10.44
17. Type of Deployment Line Used: Diameter: 3/16" Material: Poly

18. Material and Mass (oz.) of PDBS Weight: Stainless Steel 20oz (stainless steel recommended)
19. Type of PDBS Used:
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of DI 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.)
20. Dimensions of PDBS: Length (in.) _____ Diameter (in.) _____ Filled _____
21. 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)
22. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
(Not Used) 16.40			

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

23. 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
24. 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]**
25. Weather Conditions During Deployment: Temp. 90° Wind 0-5 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
26. Weather Conditions During Retrieval: Temp. 70's Wind 0-2 mph ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

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

Name	Company
Nick Lotos	
Chris Watson	Parsons

PARSONS

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

1. Site: FTHM
2. Location: FTHM-33, CW-1
3. Well Designation: CW1MW38
4. Well Permit Number: 39-32592

Type of Well	☒ Monitoring	☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
Well Surface Finish	☐ Stick Up	☒ Flush Mount
Location of Measuring Point	☒ Top of Casing	☐ Other (specify)

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 _____	Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter)	Diameter _____	Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot)	Screen Slot Size 0.01	

14. Date and Time of Deployment	Date: 7/8/14 Time: 1145
15. Depth to Ground Water	Depth to ground water at time of deployment 7.00
16. Date and Time of Retrieval	Date: 7/30/14 Time: 1306
17. Depth to Ground Water	Depth to ground water at time of retrieval 8.51
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.) 13 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
(ft) 10.21			

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:

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. 90°	Wind 0-2 mph	☒ Sunny	☐ Overcast	☐ Raining	☐ Snowing
27. Weather Conditions During Retrieval	Temp. 70's	Wind 0-2 mph	☐ Sunny	☒ Overcast	☐ Raining	☐ Snowing

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

Name	Company
Nick Lazos	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
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1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within the FTMM-53 site were gauged on July 1, 2014. 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 8.12 (699RW11) to 11.80 (616MW03) 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 2014 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 July 1, 2014 and samples were retrieved on September 30, 2014. 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 2014

Several VOCs were detected in groundwater during this quarterly event. However, only benzene and tetrachloroethene were the only VOCs detected at FTMM-53 above their NJDEP GWQS of 1 µg/L. Benzene was detected at monitoring wells 699MW06 and 699RW11. Tetrachloroethene was detected at 699MW16. Groundwater analytical detections from samples collected during the first, second and third quarter 2014 groundwater sampling events are presented in **Table 3**.

TABLES

Table 1 Groundwater Gauging Data and Elevations (July 1, 2014)

Table 2 PDB Sampling Summary

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

Table 1
Groundwater Gauging Data and Elevations (July 1, 2014)
FTMM-53 Former Gas Station at Building 699
Fort Monmouth, New Jersey

Site/Well ID	Intallation 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)
616MW01	8/17/1995	29-33760	539282.814	618630.807	14	4	10	17.64	1002	0	6.98	13.31	10.66
699MW01	11/2/1989	29-23677-1	539094.956	618689.924	15	2	13	14.48	0950	0	3.96	13.37	10.52
699MW02	11/2/1989	29-23678-9	539212.459	618724.121	17	2	15	15.13	0959	0	5.44	16.59	9.69
699MW03	11/2/1989	29-23679	539127.360	618797.755	15	2	14	15.80	1008	0	4.00	12.05	11.80
699MW04	11/2/1989	29-23680-7	539111.313	618732.386	20	2	18	15.03	1023	0	4.40	17.30	10.63
699MW05	11/30/1989	29-23808	539142.503	618894.896	15	3	12	13.22	1010	0	4.68	14.87	8.54
699MW06	12/1/1989	29-23809-1	539071.235	618810.053	15	2	13	16.75	1011	0	6.69	14.95	10.06
699MW08	12/1/1989	29-23811	539060.005	618593.218	15	2	13	14.88	0957	0	4.29	13.40	10.59
699MW09	5/1/1990	29-24639	538950.010	618849.406	15	2	13	14.70	1015	0	4.97	12.2	9.73
699MW12	10/14/1992	29-28907	538918.899	618702.388	15	5	10	15.50	1017	0	4.58	14.76	10.92
699MW15	8/17/1995	29-33753	539404.555	618692.152	14	4	10	15.70	1004	0	4.95	13.95	10.75
699MW16	8/17/1995	29-33757	538859.181	618896.350	14	4	10	15.27	1016	0	5.02	14.05	10.25
699RW03	10/26/2000	29-43891	539070.639	618693.863	20	5	15	14.87	0952	0	4.54	17.78	10.33
699RW04	10/26/2000	29-43892	538969.453	618694.382	19	4	15	15.38	1025	0	4.63	15.06	10.76
699RW05	9/18/2007	29-56509	539121.709	618786.556	15	5	10	13.91	1007	0	3.55	12.29	10.36
699RW11	5/20/1992	29-28031	539063.440	618770.989	20	5	15	13.13	1020	0	5.01	17.1	8.12
600MW01	7/8/1994	29-30968	539100.480	618593.011	15	2	13	15.27	0955	0	3.75	4.35	11.52

Notes:
1) The synoptic round of water levels in the wells was collected on July 1, 2014
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
FTMM-53 Former Gas Station at Building 699
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 Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
699MW01	3/31/2014	15.0	13.0	2-15	14.48	7/1/2014	1002	0	6.98	13.31	7.50	6.3	7.50	7/1/2014	1210	9/30/2014	1033
699MW04	3/31/2014	20.0	18.0	2-20	15.03	7/1/2014	1023	0	4.40	17.30	10.63	12.9	6.85	7/1/2014	1205	9/30/2014	1058
699MW06	3/31/2014	15.0	13.0	2-15	16.75	7/1/2014	1011	0	6.69	14.95	10.06	8.3	10.20	7/1/2014	1150	9/30/2014	1045
699MW09	3/31/2014	15.0	13.0	2-15	14.70	7/1/2014	1015	0	4.97	12.2	9.73	7.2	7.75	7/1/2014	1125	9/30/2014	1010
699MW16	3/31/2014	13.5	10.0	3.50-13.5	15.27	7/1/2014	0952	0	5.02	14.05	10.25	9.0	6.50	7/1/2014	1115	9/30/2014	1005
699RW03	3/31/2014	20.0	15.0	5-20	14.87	7/1/2014	1008	0	4.54	17.78	10.33	13.2	8.20	7/1/2014	1215	9/30/2014	1030
699RW05	3/31/2014	15.0	10.0	5-15	13.91	7/1/2014	1007	0	3.55	12.29	10.36	8.7	4.80	7/1/2014	1155	9/30/2014	1055
699RW11	3/31/2014	20.0	15.0	5-20	13.13	7/1/2014	1020	0	5.01	17.1	8.12	12.1	8.30	7/1/2014	1220	9/30/2014	1038

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 First, Second, and Third Quarter 2014
FTMM-53 Former Gas Station at Building 699
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699MW01						699MW04	
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-699MW04-10.3	FTMM-53-GW-699MW04-13.85
Sample Date			3/12/2014	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	3/12/2014	3/31/2014
Sample Method			PDB	LFPS	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
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	NLE	NLE	**0.31 J**	**0.26 J**	< 1	< 1	**0.3 J**	**1.3 J**	< 1	**1.9 J**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.78 J**
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	< 5	< 5	< 5	**1.7 J**	**6.4 B**	**1.5 J**	< 5
Benzene	1	5	< 1	< 1	< 1	< 1	**0.31 J**	**0.52 J**	< 1	**0.23 J**
Bromobenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	**0.55 J**	**0.59 J**	< 1	< 1	**0.27 J**	**1.6 J**	< 1	**0.87 J**
Hexachlorobutadiene	1	NLE	< 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
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**3 J**
Methyl bromide	10	NLE	< 1	< 1	**0.32 J**	< 1	< 1	< 1	< 1	**0.33 J**
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	**0.3 J**	**0.39 J**	< 1	**1.5 J**
n-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	**0.4 J**	< 1	**2.4 J**
p-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	NLE	NLE	**0.42 J**	**0.43 J**	< 1	< 1	< 1	**0.39 J**	< 1	< 1
sec-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	NA	NA	< 20	NA	NA
tert-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	**0.27 J**	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**5.4 J**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)										
Total TIC, Volatile	0.5	NLE	ND	ND	ND	ND	ND	ND	ND	ND

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699MW04			699MW06				
Sample ID			FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW06-10	FTMM-53-GW-699MW06-10.20	FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW106-10.2-DUP
Sample Date			3/31/2014	7/1/2014	9/30/2014	3/12/2014	3/31/2014	7/1/2014	9/30/2014	9/30/2014
Sample Method			PDB	PDB	PDB	LFPS	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-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	**0.26 J**	< 1	< 1	< 1
1,2,4-Trimethylbenzene	NLE	NLE	**2.3 J**	< 1	**0.25 J**	**0.8 J**	< 1	< 1	**54**	**52**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	NLE	NLE	**0.99 J**	< 1	< 1	< 1	< 1	< 1	**5.7**	**5.7**
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**2.2 J**	**11 B**	< 5	**2.2 J**	**2.6 J**	**12**	**12**
Benzene	1	5	**0.23 J**	< 1	**0.37 J**	< 1	< 1	< 1	**9**	**9.2**
Bromobenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	**1.1 J**	< 1	**0.28 J**	**1.5 J**	< 1	< 1	**140 J**	**150**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	**0.23 J**	< 1	< 1	**14**	**14**
Meta/Para Xylene	1,000	NLE	**3.4 J**	< 2	< 2	**1.2 J**	< 2	< 2	**120 J**	**120**
Methyl bromide	10	NLE	**0.47 J**	< 1	< 1	< 1	**0.43 J**	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**0.52 J**	< 1	< 1	**0.23 J**	< 1	< 1	**22**	**22**
n-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	**0.27 J**	**0.25 J**
Ortho Xylene	1,000	NLE	**2.5 J**	< 1	**1 J**	**0.31 J**	< 1	< 1	**9.3**	**9.2**
p-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	NLE	NLE	< 1	< 1	< 1	**0.24 J**	< 1	< 1	**11**	**11**
sec-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	**0.48 J**	**0.35 J**
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	NA	NA	NA	< 20	< 20
tert-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	**0.27 J**	< 1	< 1	< 1	**1.5 J**	**1.4 J**
Total Xylenes	1,000	10,000	**5.9 J**	< 3	**1 J**	**1.51 J**	< 3	< 3	**129.3 J**	**129.2**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)										
Total TIC, Volatile	0.5	NLE	ND	ND	ND	ND	ND	ND	**138**	**137.5**

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699MW09				699MW16		
Sample ID			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-699MW16-8.5	FTMM-53-GW-699MW16-11.5	FTMM-53-GW-699MW16-6.5
Sample Date			3/12/2014	3/31/2014	7/1/2014	9/30/2014	3/12/2014	3/31/2014	3/31/2014
Sample Method			LFPS	PDB	PDB	PDB	LFPS	PDB	PDB
Volatile Organic Compounds (µg/l)									
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**1.5 J**	**1.4 J**	**6.6 B**	< 5	**1.7 J**	**1.4 J**
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	**0.25 J**	< 1	< 1	**5.2**	**8**	**7.7**
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	**0.34 J**	< 1	< 1	< 1	**0.34 J**	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	**0.49 J**	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**0.26 J**	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	< 20	NA	NA	NA
tert-Butylbenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	**0.33 J**	**0.9 J**	**0.47 J**	**0.34 J**
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)									
Total TIC, Volatile	0.5	NLE	ND	ND	ND	ND	ND	ND	ND

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699MW16		699RW03					699RW05
Sample ID			FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699RW03-11.4	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-699RW05-8.6
Sample Date			7/1/2014	9/30/2014	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	3/12/2014
Sample Method			PDB	PDB	LFPS	PDB	PDB	PDB	PDB	LFPS
Volatile Organic Compounds (µg/l)										
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,1-Dichloropropene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	**0.27 J**	< 1	< 1	< 5
1,2,4-Trimethylbenzene	NLE	NLE	< 1	< 1	**130**	**120**	**110**	**42**	**26**	**790**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,3,5-Trimethylbenzene	NLE	NLE	< 1	< 1	**32**	**17**	**16**	**3.1 J**	< 1	**160**
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,3-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
2,2-Dichloropropane	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
2-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Acetone	6,000	NLE	**2.2 J**	**6.3 B**	< 5	< 5	< 5	< 5	< 5	< 25
Benzene	1	5	< 1	< 1	**4.8 J**	**3.7 J**	**3.5 J**	**0.88 J**	**0.46 J**	**7.2 J**
Bromobenzene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Chloroethane	5	NLE	< 1	< 1	**0.47 J**	< 1	< 1	< 1	< 1	**1.6 J**
Chloroform	70	80	**3.1 J**	**1.6 J**	< 1	< 1	< 1	**0.28 J**	**0.29 J**	< 5
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Cymene	NLE	NLE	< 1	< 1	**3.2 J**	**0.91 J**	**0.8 J**	**0.59 J**	**0.63 J**	**3.7 J**
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Ethyl benzene	700	700	< 1	< 1	**50**	**49**	**46**	**17**	**8.4**	**700**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Isopropylbenzene	700	NLE	< 1	< 1	**21**	**14**	**13**	**7**	**3.7 J**	**52**
Meta/Para Xylene	1,000	NLE	< 2	< 2	**71**	**62**	**59**	**9.8 J**	**0.77 J**	**1,600**
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	**0.33 J**	< 1	< 1	< 5
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25
Methyl chloride	100	NLE	< 1	< 1	**0.29 J**	< 1	< 1	< 1	< 1	< 5
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Naphthalene	300	NLE	< 1	< 1	**29**	**19**	**15**	**6.5**	**2.9 J**	**270**
n-Butylbenzene	NLE	NLE	< 1	< 1	**12**	< 1	< 1	**0.9 J**	**1.2 J**	< 5
Ortho Xylene	1,000	NLE	< 1	< 1	**90**	**78**	**76**	**14**	**6.4**	**810**
p-Chlorotoluene	NLE	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Propylbenzene	NLE	NLE	< 1	< 1	**34**	**18**	**16**	**12**	**6.6**	**100**
sec-Butylbenzene	NLE	NLE	< 1	< 1	**7.4**	**1.9 J**	**1.6 J**	**1.3 J**	**1.5 J**	**6.3 J**
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Tert Butyl Alcohol	100	NLE	NA	< 20	NA	NA	NA	NA	< 20	NA
tert-Butylbenzene	NLE	NLE	< 1	< 1	**0.68 J**	**0.26 J**	**0.29 J**	< 1	< 1	< 5
Tetrachloroethene	1	5	**0.48 J**	**1.3 J**	< 1	< 1	< 1	< 1	< 1	< 5
Toluene	600	1,000	< 1	< 1	**1.7 J**	**1.4 J**	**1.3 J**	**0.22 J**	**0.21 J**	**23 J**
Total Xylenes	1,000	10,000	< 3	< 3	**161**	**140**	**135**	**23.8**	**7.17**	**2,410**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5
TIC VOCs (µg/l)										
Total TIC, Volatile	0.5	NLE	ND	ND	**813**	**362**	**302**	**7.1**	**129.7**	**2,338**

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699RW05				699RW11				
Sample ID			FTMM-53-GW-699RW05-4.8	FTMM-53-GW-699RW05-9.80	FTMM-53-GW-699RW05-4.8	FTMM-53-GW-699RW05-4.8	FTMM-53-GW-699RW11-11.1	FTMM-53-GW-699RW11-14.08	FTMM-53-GW-699RW11-8.03	FTMM-53-GW-699RW11-8.3	FTMM-53-GW-699RW11-8.3
Sample Date			3/31/2014	3/31/2014	7/1/2014	9/30/2014	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014
Sample Method			PDB	PDB	PDB	PDB	LFPS	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)											
1,1,1,2-Tetrachloroethane	1	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	NLE	NLE	**150**	**130**	**7.8**	**1.4 J**	**0.24 J**	< 1	< 1	**0.21 J**	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	NLE	NLE	**30**	**23**	**3.9 J**	**0.22 J**	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 10	< 13	< 5	**14**	< 5	< 5	< 5	< 5	< 5
Benzene	1	5	**2.8 J**	**3.1 J**	**0.21 J**	< 1	**11**	**6.5**	**6.5**	**2.7 J**	**2.4 J**
Bromobenzene	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	**150**	**160**	**0.74 J**	**0.51 J**	**0.45 J**	**0.26 J**	**0.25 J**	**0.28 J**	< 1
Hexachlorobutadiene	1	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	**7.4 J**	**8.1 J**	**0.45 J**	< 1	**8.9**	**1.2 J**	**1.2 J**	**4.3 J**	**6.3**
Meta/Para Xylene	1,000	NLE	**430**	**390**	**6.3 J**	**0.88 J**	**0.45 J**	**0.33 J**	**0.35 J**	< 2	< 2
Methyl bromide	10	NLE	< 2	**0.88 J**	< 1	< 1	< 1	**0.35 J**	**0.29 J**	< 1	< 1
Methyl butyl ketone	300	NLE	< 10	< 13	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 2	< 2.5	< 1	< 1	**0.23 J**	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**60**	**54**	**7.6**	**0.33 J**	**1.5 J**	**0.61 J**	**0.75 J**	**0.74 J**	**0.59 J**
n-Butylbenzene	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	**0.29 J**
Ortho Xylene	1,000	NLE	**290**	**270**	**16**	**1 J**	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	NLE	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	NLE	NLE	**8.9 J**	**9.7 J**	< 1	< 1	**9.4**	**0.71 J**	**0.68 J**	**5.1**	**3.5 J**
sec-Butylbenzene	NLE	NLE	< 2	< 2.5	< 1	< 1	**1.6 J**	< 1	< 1	**0.33 J**	**1.1 J**
Styrene	100	100	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	< 20	NA	NA	NA	NA	< 20
tert-Butylbenzene	NLE	NLE	< 2	< 2.5	< 1	< 1	**0.36 J**	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 2	**0.8 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	**7.1 J**	**7 J**	**0.46 J**	< 1	**0.37 J**	**0.3 J**	**0.36 J**	**0.22 J**	< 1
Total Xylenes	1,000	10,000	**720**	**660**	22.3	**1.88 J**	**0.45 J**	**0.33 J**	**0.35 J**	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 2	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)											
Total TIC, Volatile	0.5	NLE	**417.8**	**369.4**	ND	**5.7 JN**	**122.9**	ND	ND	ND	**83.2 JN**

Table 3
Groundwater Analytical Results First, Second, and Third Quarter 2014
FTMM-53 Former Gas Station at Building 699
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

5) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.
[blank] = detect, i.e. detected chemical result value.
B = Compound detected in the sample and its associated blank sample.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected equal to 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 (detect or non-detect) value.
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.

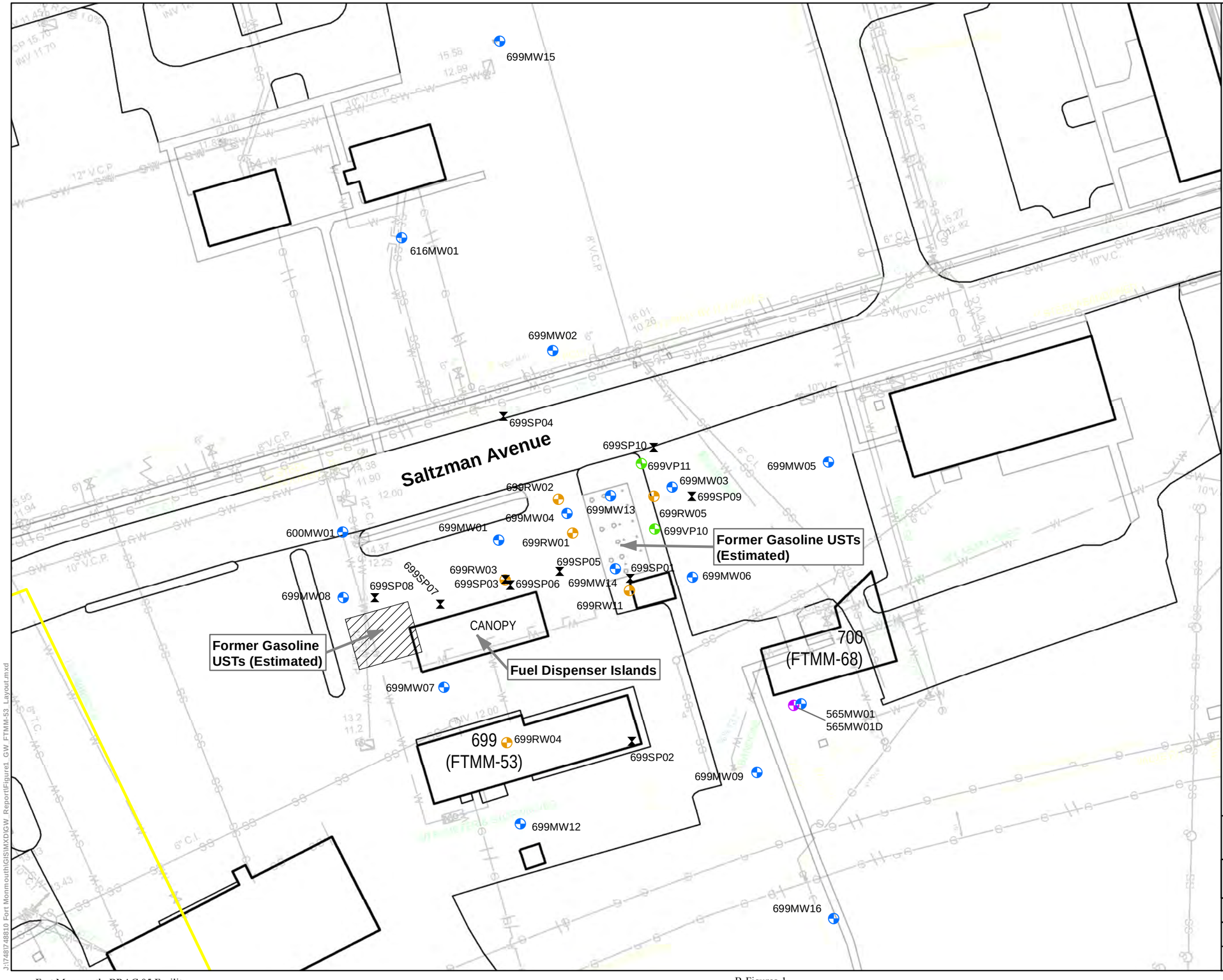
6) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####
- Bold Outline represent a result that is above the USEPA 2014-05 MCL. ###

7) 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 2014-05 USEPA MCL refers to the USEPA's Region 9 Regional Screening Levels (HQ=1.0) - 5/31/2014 (Last revised)
  http://www.epa.gov/region9/superfund/prg/

FIGURES

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

Figure 2 FTMM-53 Shallow Groundwater Contours July 1, 2014



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

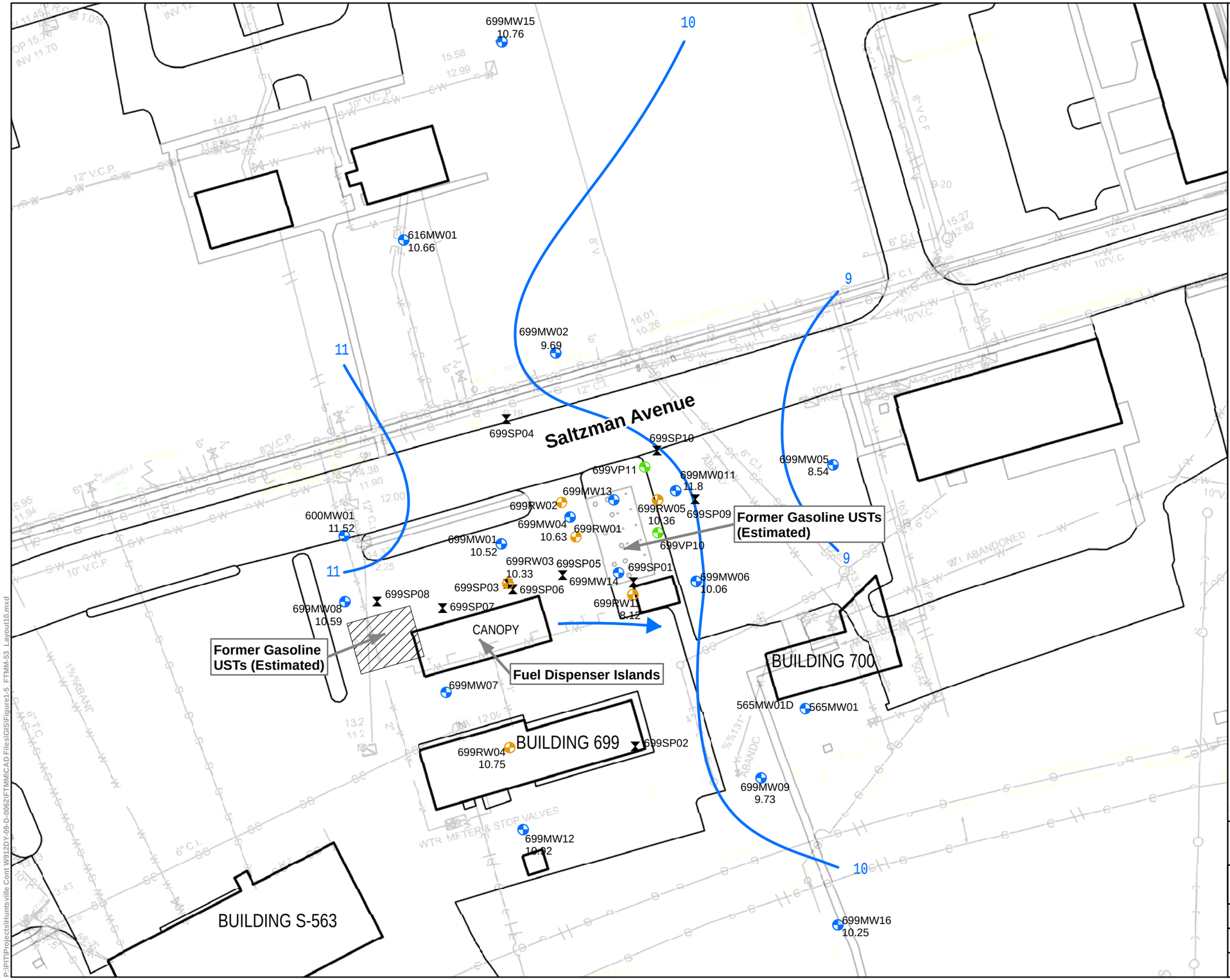
1 inch = 60 feet

0 12.5 25 50 75 100 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**
Layout of FTMM-53 **Former Gas Station at Building 699**	
CREATED BY: **TS**	REVIEWED BY: **ME**
DATE: **May 2014**	FIGURE NUMBER: **Figure 1**
PROJECT NUMBER: **748810.01000**	FILE: **Figure1_GW_FTMM-53_Layout.mxd**

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Legend

- Shallow Monitoring Well
- Vapor Monitoring Well
- Recovery Well
- Air Sparge Well
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- 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 12.5 25 50 75 100 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**
FTMM-53 Shallow Groundwater Contours - July 1, 2014	
CREATED BY: **RR**	REVIEWED BY: **ME**
DATE: **December 2014**	FIGURE NUMBER: **Figure 1.6**
PROJECT NUMBER: **748810.03000**	FILE: **Figure1-5_FTMM-53_Layout10.mxd**

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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: 699MW16
4. Well Permit Number: 29-33767

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) _____

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

8. Total Well Depth (fbgs): 14.70
9. Screened interval/open hole (fbgs): 4.70 - 14.70
10. Well Casing: Diameter 4 Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
11. Well Screen (or open hole diameter): Diameter 4 Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Screen Size (slot): Screen Slot Size 0.02
13. Date and Time of Deployment: Date: 3/14 Time: 1115
14. Depth to Ground Water: Depth to ground water at time of deployment 5.00
15. Date and Time of Retrieval: Date: 9/30/14 Time: 1005
16. Depth to Ground Water: Depth to ground water at time of retrieval 5.16
17. Type of Deployment Line Used: Diameter: 3/16" Material: Poly
18. Material and Mass (oz.) of PDBS Weight: Stainless Steel 20 oz (stainless steel recommended)
19. 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.)
20. Dimensions of PDBS: Length (in.) 18 Diameter (in.) 1.5 Filled _____
21. 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)
22. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
6.5			

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

23. 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: 3/31/2014
24. 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]
25. Weather Conditions During Deployment: Temp. 40° Wind 0-5 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
26. Weather Conditions During Retrieval: Temp. 70's Wind 0-5 mph ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
27. Field Sampling Technician Name(s) and Company (please print clearly)

Name	Company
Nick Lorenz	Parsons
Chris Watson	

PARSONS

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

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

Type of Well	☒Monitoring ☐Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other	
Well Surface Finish	☐Stick Up ☒Flush Mount	
Location of Measuring Point	☒Top of Casing ☐Other (specify)	

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.) -.31

Total Well Depth (fbgs)	17.61	
Screened interval/open hole (fbgs)	0.61 - 17.61	
Well Casing	Diameter 4	Material ☒PVC ☐Carbon Steel ☐Stainless Steel
Well Screen (or open hole diameter)	Diameter 4	Material ☒PVC ☐Carbon Steel ☐Stainless Steel
Screen Size (slot)	Screen Slot Size 0.02	

Date and Time of Deployment	Date: 7/1/14	Time: 1005
Depth to Ground Water	Depth to ground water at time of deployment 4.40	
Date and Time of Retrieval	Date: 9/30/14	Time: 1058
Depth to Ground Water	Depth to ground water at time of retrieval 5.68	
Type of Deployment Line Used	Diameter: 3/16"	Material: Poly

Material and Mass (oz.) of PDBS Weight: Stainless Steel 20oz (stainless steel recommended)

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.)

Dimensions of PDBS: Length (in.) 12 Diameter (in.) 1.5 Filled _____

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)

Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
6.65			

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

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: 3/3/14

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]

Weather Conditions During Deployment	Temp. 90°	Wind 0-5 mph	☒Sunny	☐Overcast	☐Raining	☐Snowing
Weather Conditions During Retrieval	Temp. 70's	Wind 0-5 mph	☐Sunny	☒Overcast	☐Raining	☐Snowing

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

Name	Company
Nick Lacos	Parsons
Chris Watson	

PARSONS

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

Site: STMM

Location: STMM-53

Well Designation: 699MW01

Well Permit Number: 09-23677-1

Type of Well	☒ Monitoring	☐ Extraction	☐ Residential	☐ Public Supply	☐ Irrigation	☐ Other	
Well Surface Finish	☐ Stick Up	☒ Flush Mount					
Location of Measuring Point	☒ Top of Casing	☐ Other (specify)					

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

Total Well Depth (fbgs)	15.13					
Screened interval/open hole (fbgs)	5.13 - 15.13					
Well Casing	Diameter 4	Material	☒ PVC	☐ Carbon Steel	☐ Stainless Steel	
Well Screen (or open hole diameter)	Diameter 4	Material	☒ PVC	☐ Carbon Steel	☐ Stainless Steel	
Screen Size (slot)	Screen Slot Size 0.02					

Date and Time of Deployment	Date: 7/1/14 Time: 1210
Depth to Ground Water	Depth to ground water at time of deployment 3.96
Date and Time of Retrieval	Date: 9/30/14 Time: 1033
Depth to Ground Water	Depth to ground water at time of retrieval 5.27
Type of Deployment Line Used	Diameter: 3/16" Material: Poly
Material and Mass (oz.) of PDBS Weight	Stainless Steel 200z (stainless steel recommended)
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.)
Dimensions of PDBS	Length (in.) 16 Diameter (in.) 1.5 Filled
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)

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

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
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]

Weather Conditions During Deployment	Temp. 90°	Wind 0-5 mph	☒ Sunny	☐ Overcast	☐ Raining	☐ Snowing
Weather Conditions During Retrieval	Temp. 70°	Wind 0-5 mph	☐ Sunny	☒ Overcast	☐ Raining	☐ Snowing

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

Name	Company
Nick Lolcos	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: 7/1/14 Time: 1155
15. Depth to Ground Water Depth to ground water at time of deployment 3.55
16. Date and Time of Retrieval Date: 9/31/14 Time: 1035
17. Depth to Ground Water Depth to ground water at time of retrieval 4.27
18. Type of Deployment Line Used Diameter: 3/16" Material: Poly
19. Material and Mass (oz.) of PDBS Weight Stainless Steel 30oz (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
4.9			

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. 90° Wind 0-5 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval Temp. 70° Wind 05 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing
28. Field Sampling Technician Name(s) and Company (please print clearly)

Name	Company
Nate Lorcos	Parsons
Chris Watson	

PARSONS

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

1. Site: STMM
2. Location: STMM-53
3. Well Designation: 699R003
4. Well Permit Number: 29-43591

Type of Well	☐Monitoring ☒Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other	
Well Surface Finish	☐Stick Up ☒Flush Mount	
Location of Measuring Point	☒Top of Casing ☐Other (specify)	

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'

10. Total Well Depth (fbgs)	17.57	
10. Screened interval/open hole (fbgs)	2.467 - 17.467	
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: 7/1/14	Time: 1215
15. Depth to Ground Water	Depth to ground water at time of deployment 4.54	
16. Date and Time of Retrieval	Date: 9/30/14	Time: 1030
17. Depth to Ground Water	Depth to ground water at time of retrieval 4.30	
18. Type of Deployment Line Used	Diameter: 3/16"	Material: Poly

19. Material and Mass (oz.) of PDBS Weight: Stainless Steel 8oz (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 DI 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. 90°	Wind 0-5 mph	☒Sunny	☐Overcast	☐Raining	☐Snowing
27. Weather Conditions During Retrieval	Temp. 70'	Wind 0-5 mph	☐Sunny	☒Overcast	☐Raining	☐Snowing

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

Name	Company
Dick Watson	Parsons
Chris Watson	Parsons

PARSONS

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

1. Site: FTHM
2. Location: FTHM-53
3. Well Designation: 699PW11
4. Well Permit Number: 39-39031

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.) -0.56
9. Total Well Depth (fbgs) 17.65
10. Screened interval/open hole (fbgs) 7.65-17.65
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: 7/1/14 Time: 1200
15. Depth to Ground Water: Depth to ground water at time of deployment 5.01
16. Date and Time of Retrieval: Date: 9/30/14 Time: 1638
17. Depth to Ground Water: Depth to ground water at time of retrieval 6.07
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
8.5			

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. 90° Wind 0-5 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval: Temp. 70's Wind 0-5 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Nick Lorzos	Parsons
Chris Watson	Parsons

PARSONS

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

. Site: STMM

. Location: STMM-63

. Well Designation: 699MW09

. Well Permit Number: 99-24639

Type of Well	☒Monitoring	☐Extraction	☐Residential	☐Public Supply	☐Irrigation	☐Other	
Well Surface Finish	☐Stick Up	☒Flush Mount					
Location of Measuring Point	☒Top of Casing	☐Other (specify)					

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

Total Well Depth (fbgs)	13.50					
10 Screened interval/open hole (fbgs)	0.50 - 13.50					
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					

4. Date and Time of Deployment — Date: 7/1/14 Time: 1125

5. Depth to Ground Water — Depth to ground water at time of deployment 4.97

6. Date and Time of Retrieval — Date: 7/30/14 Time: 1010

7. Depth to Ground Water — Depth to ground water at time of retrieval 5.10

8. Type of Deployment Line Used — Diameter: 3/16" Material: Poly

9 Material and Mass (oz.) of PDBS Weight: Stainless Steel 20oz (stainless steel recommended)

10 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.)

11 Dimensions of PDBS — Length (in.) 36 Diameter (in.) 1.5 Filled

12 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)

13 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

14. 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

15. 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]

16. Weather Conditions During Deployment — Temp. 90° Wind 0-5 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

17. Weather Conditions During Retrieval — Temp. 70° Wind 0-5 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing

18 Field Sampling Technician Name(s) and Company (please print clearly)

Name	Company
Nick Loizos	Parsons
Chris Watson	

PARSONS

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

1. Site: FTMM
2. Location: FTM-93
3. Well Designation: 699MW06
4. Well Permit Number: 29-23809-1

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) 13.91

10 Screened interval/open hole (fbgs) 0.21-13.91

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: 7/1/14 Time: 1150

15. Depth to Ground Water Depth to ground water at time of deployment 6.69

16. Date and Time of Retrieval Date: 7/30/14 Time: 1040

17. Depth to Ground Water Depth to ground water at time of retrieval 14.94

18. Type of Deployment Line Used Diameter: 3/16" Material: Poly

19 Material and Mass (oz.) of PDBS Weight Stainless Steel 30oz (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.) 36 Diameter (in.) 1.5 Filler _____

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 (3 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. 90° Wind 0-5 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval Temp. 70's Wind 0-5 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Nick Loizos	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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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 July 1, 2014. 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 7.94 and 8.19 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 Husky 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 2014 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 July 1, 2014 and samples were retrieved on September 30, 2014. 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 2014

Five chlorinated VOCs were detected in groundwater during this quarterly event. Groundwater analytical detections from samples collected during the first, second and third quarter 2014 groundwater sampling events are presented in **Table 3**. In the third quarter the compounds, 1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene (TCE), tetrachloroethene (PCE), and vinyl chloride were detected above their respective NJDEP GWQS in monitoring well 565MW01. Additionally, PCE and TCE were detected in 565MW01D at concentrations that exceeded their respective NJDEP GWQS. In 565MW01D the detection limits were raised, to concentrations exceeding the NJDEP criteria, due to sample dilutions required by the lab, so other chlorinated compounds may also be present at low concentrations.

TABLES

Table 1 Groundwater Gauging Data and Elevations (July 1, 2014)

Table 2 PDB Sampling Summary

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

Table 1
Groundwater Gauging Data and Elevations (July 1, 2014)
FTMM-68 Former Dry Cleaners UST at Building 700
Fort Monmouth, New Jersey

Site/Well ID	Intallation 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)
565MW01	8/16/2011	N/A	N/A	N/A	15.0	5.0	10.0	N/A	1013	0	7.94	17.08	N/A
565MW01D	8/16/2011	N/A	N/A	N/A	23.0	18.0	5.0	N/A	1014	0	8.19	25.35	N/A

Notes:
1) The synoptic round of water levels in the wells was collected on July 1, 2014
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
FTMM-68 Former Dry Cleaners UST at Building 700
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 Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
565MW01	8/29/2013	15.0	10.0	5-15	N/A	7/1/14	0920	0	4.95	17.10	N/A	10.0	11.99	7/1/2014	1135	9/30/2014	1015
565MW01D	8/29/2013	23.0	5.0	18-23	N/A	7/1/14	0921	0	5.99	25.35	N/A	5.0	22.31	7/1/2014	1140	9/30/2014	1018

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 First, Second and Third Quarter 2014
FTMM-68 Former Dry Cleaners UST at Building 700
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	565MW01			565MW01D			
Sample ID			FTMM-68-GW-565MW01-11.99	FTMM-68-GW-565MW01-11.99	FTMM-68-GW-565MW01-11.99	FTMM-68-GW-565MW01D-22.31	FTMM-68-GW-565MW101D-22.31	FTMM-68-GW-565MW01D-22.31	FTMM-68-GW-565MW01D-22.31
Sample Date			3/31/2014	7/1/2014	9/30/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014
Sample Round			PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)									
1,1,1,2-Tetrachloroethane	1	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,1,1-Trichloroethane	30	200	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,1,2,2-Tetrachloroethane	1	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,1,2-Trichloroethane	3	5	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,1-Dichloroethane	50	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,1-Dichloroethene	1	7	**2 J**	**2.1 J**	**3.2 J**	**0.67 J**	< 10	< 10	< 50
1,1-Dichloropropene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2,3-Trichlorobenzene	100	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2,3-Trichloropropane	0.03	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2,4-Trichlorobenzene	9	70	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2,4-Trimethylbenzene	NLE	NLE	**0.83 J**	< 2.5	< 5	< 1	**4.6 J**	< 10	< 50
1,2-Dibromo-3-chloropropane	0.02	0.2	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2-Dibromoethane	0.03	0.05	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2-Dichlorobenzene	600	600	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2-Dichloroethane	2	5	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,2-Dichloropropane	1	5	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,3,5-Trimethylbenzene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,3-Dichlorobenzene	600	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,3-Dichloropropane	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
1,4-Dichlorobenzene	75	75	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
2,2-Dichloropropane	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
2-Chlorotoluene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Acetone	6,000	NLE	< 13	**3.2 J**	**13 J**	**1.5 J**	< 50	< 50	< 250
Benzene	1	5	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Bromobenzene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Bromochloromethane	100	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Bromodichloromethane	1	80	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Bromoform	4	80	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Carbon tetrachloride	1	5	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Chlorobenzene	50	100	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Chlorodibromomethane	1	80	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Chloroethane	5	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Chloroform	70	80	**0.85 J**	< 2.5	< 5	< 1	**2.7 J**	< 10	< 50
Cis-1,2-Dichloroethene	70	70	**270**	**190**	**210**	**140**	**120**	**34 J**	< 50
Cis-1,3-Dichloropropene	1	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Cymene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Dichlorodifluoromethane	1,000	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Ethyl benzene	700	700	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Hexachlorobutadiene	1	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Isopropylbenzene	700	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Meta/Para Xylene	1,000	NLE	< 5	< 5	< 10	< 2	< 20	< 20	< 100
Methyl bromide	10	NLE	< 2.5	< 2.5	< 5	**0.33 J**	< 10	< 10	< 50
Methyl butyl ketone	300	NLE	< 13	< 13	< 25	< 5	< 50	< 50	< 250
Methyl chloride	100	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Methyl ethyl ketone	300	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Methyl isobutyl ketone	100	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Methyl Tertbutyl Ether	70	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Methylene chloride	3	5	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Naphthalene	300	NLE	**4.8 J**	< 2.5	< 5	< 1	**12 J**	< 10	< 50
n-Butylbenzene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Ortho Xylene	1,000	NLE	**0.58 J**	< 2.5	< 5	< 1	< 10	< 10	< 50
p-Chlorotoluene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Propylbenzene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
sec-Butylbenzene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Styrene	100	100	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Tert Butyl Alcohol	100	NLE	NA	NA	< 100	NA	NA	NA	< 1000
tert-Butylbenzene	NLE	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Tetrachloroethene	1	5	**440**	**350**	**700**	**1,500**	**1,500**	**1,800**	**4,800**
Toluene	600	1,000	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Total Xylenes	1,000	10,000	**0.58 J**	NA	NA	< 3	< 30	NA	NA
Trans-1,2-Dichloroethene	100	100	**1.9 J**	**1.3 J**	< 5	**1.4 J**	< 10	< 10	< 50
Trans-1,3-Dichloropropene	1	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Trichloroethene	1	5	**230**	**160**	**210**	**110**	**96**	**42 J**	**18 J**
Trichlorofluoromethane	2,000	NLE	< 2.5	< 2.5	< 5	< 1	< 10	< 10	< 50
Vinyl chloride	1	2	**18**	**13**	**16 J**	**6.1**	**5.5 J**	< 10	< 50
TIC VOCs (mg/l)									
Total TIC, Volatile	0.5	NLE	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results First, Second and Third Quarter 2014
FTMM-68 Former Dry Cleaners UST at Building 700
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

5) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.
[blank] = detect, i.e. detected chemical result value.
B = Compound detected in the sample and its associated blank sample.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected equal to 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 (detect or non-detect) value.
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.

6) 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 ####
- Bold Outline represent a result that is above the USEPA 2014-05 MCL. ###

7) 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 2014-05 USEPA MCL refers to the USEPA's Region 9 Regional Screening Levels (HQ=1.0) - 5/31/2014 (Last revised)
  http://www.epa.gov/region9/superfund/prg/

FIGURES

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

699MW02
699SP04
Saltzman Avenue
699VP11
699SP10
699RW02
699MW13
699MW03
699SP09
699MW05
600MW01
699MW04
699RW05
699VP10
699MW01
699RW01
699SP05
699SP03
699RW03
699SP01
699MW06
699MW08
699SP08
699MW14
699RW11
699SP06
699SP07
BUILDING 700
699MW07
565MW01 (Estimated)
565MW01D (Estimated)
699RW04
BUILDING 699
699SP02
699MW09
Former Solvent
UST Location (Estimated)
699MW12
699MW16
BUILDING S-563
Brewer Avenue
Alexander Avenue
700AMW03

Legend

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

N

1 inch = 70 feet

0 12.525 50 75 100 125 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: December 2014	FIGURE NUMBER: Figure 1.7
PROJECT NUMBER: 748810.03000	FILE: Figure1-7_FTMM-68_Layout10.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\Figure1-7_FTMM-68_Layout10.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)

Site: FTMM

Location: FTMM-6B

Well Designation: 56SMW01

Well Permit Number: N/A

Type of Well: ☒Monitoring ☐Extraction ☐Residential ☐Public Supply ☐Irrigation ☐Other

Well Surface Finish: ☒Stick Up ☐Flush Mount

Location of Measuring Point: ☒Top of Casing ☐Other (specify)

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 (bgs). 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

Total Well Depth (bgs): 50 - 2.46 = 15.29

Screened interval/open hole (bgs): 5.29 - 15.29

Well Casing: Diameter: 4 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel

Well Screen (or open hole diameter): Diameter: 4 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel

Screen Size (slot): Screen Slot Size: 0.01

Date and Time of Deployment: Date: 7/1/14 Time: 1135

Depth to Ground Water: Depth to ground water at time of deployment: 7.94

Date and Time of Retrieval: Date: 9/30/14 Time: PM

Depth to Ground Water: Depth to ground water at time of retrieval: 9.06

Type of Deployment Line Used: Diameter: 3/16" Material: Poly

Material and Mass (oz.) of PDBS Weight: Stainless Steel 20oz (stainless steel recommended)

Type of PDBS Used: ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)

☒Field Filled (Modified equipment blank of DI 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.)

Dimensions of PDBS: Length (in.): 15 Diameter (in.): 1.5 Filled: ____

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)

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

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: 8/29/13

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]

Weather Conditions During Deployment: Temp. 40° Wind 0-5 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

Weather Conditions During Retrieval: Temp. 70's Wind 0-5 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Nick Lentos	Parsons
Chris Watson	Parsons

PARSONS

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

Site: FTHM

Location: FTHM-68

Well Designation: 56SH0010

Well Permit Number: N/A

Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other

Well Surface Finish: ☒ Stick Up ☐ Flush Mount

Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____

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

Total Well Depth (fbgs): 23.46

Screened interval/open hole (fbgs): 13.46 - 23.46

Well Casing: Diameter 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel

Well Screen (or open hole diameter): Diameter: 4 Material: ☒ PVC ☐ Carbon Steel ☐ Stainless Steel

Screen Size (slot): Screen Slot Size 0.01

1. Date and Time of Deployment: Date: 7/1/14 Time: 1140
2. Depth to Ground Water: Depth to ground water at time of deployment 5.19
3. Date and Time of Retrieval: Date: 9/24/14 Time: 1018
4. Depth to Ground Water: Depth to ground water at time of retrieval 9.20
5. Type of Deployment Line Used: Diameter: 3/16" Material: Poly

6. Material and Mass (oz.) of PDBS Weight: Stainless Steel 20oz (stainless steel recommended)

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.)

Dimensions of PDBS: Length (in.) 18 Diameter (in.) 1.5 Filled _____

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)

7. 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

8. 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: 8/29/13

9. 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]

10. Weather Conditions During Deployment: Temp. 90° Wind 0-5 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
11. Weather Conditions During Retrieval: Temp. 70° Wind 0-5 mph ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

12. Field Sampling Technician - Name(s) and Company (please print clearly)

Name	Company
Nicole Larson	Parsons
Cindy 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 13, 2014

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, 2014. Samples were logged in under the following Sample Delivery Group (SDG):

R1407806

The samples in this SDG were analyzed for volatile organic compounds (VOCs) plus tentatively identified compounds (TICs). The field QC samples collected in 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 3.6°C, which was within the 2-6°C range recommended by the project-specific Uniform Federal Policy for Quality Assurance Project Plan (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 UFP-QAPP.

SAMPLE IDs AND REQUESTED PARAMETERS

Sample ID	SDG	Matrix	VOCs, plus TICS	Comments
FTMM-53-GW-699MW16-6.5	R1407806	W	X	
FTMM-53-GW-699MW09-7.75	R1407806	W	X	
FTMM-53-GW-699MW06-10.2	R1407806	W	X	MS/MSD
FTMM-53-GW-699RW05-4.8	R1407806	W	X	
FTMM-53-GW-699MW01-7.5	R1407806	W	X	
FTMM-53-GW-699MW04-6.85	R1407806	W	X	
FTMM-53-GW-699RW03-8.2	R1407806	W	X	
FTMM-53-GW-699RW11-8.3	R1407806	W	X	
FTMM-53-GW-699MW106-10.2	R1407806	W	X	FD of FTMM-53-GW-699MW06-10.2
FTMM-68-GW-565MW01-11.99	R1407806	W	X	
FTMM-68-GW-565MW01D-22.31	R1407806	W	X	
FTMM-TB-093014	R1407806	W	X	Trip Blank
FTMM-22-GW-CW1MW281-38.74	R1407806	W	X	
FTMM-22-GW-CW1MW28-11.21	R1407806	W	X	
FTMM-22-GW-CW1MW37-11.78	R1407806	W	X	
FTMM-22-GW-CW1MW281-33.74	R1407806	W	X	
FTMM-22-GW-CW1MW27-12.63	R1407806	W	X	
FTMM-22-GW-CW1MW29-10.85	R1407806	W	X	
FTMM-22-GW-CW1MW31-16.40	R1407806	W	X	

W = Water

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 $\leq$ 40 for water, as per the project-specific UFP-QAPP.

VOLATILE ORGANIC COMPOUNDS

General

The VOC portion of this SDG consisted of nineteen (19) water samples, including one (1) field duplicate, one (1) trip blank, one (1) MS and one (1) MSD sample. The samples were collected on September 30, 2014 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-699MW06-10.2
FTMM-53-GW-699RW05-4.8
FTMM-53-GW-699RW03-8.2
FTMM-53-GW-699RW11-8.3
FTMM-53-GW-699MW106-10.2

The samples for VOCs were analyzed in two batches (#415420 and #416090) under a single ICAL. All analyses were performed undiluted, except as follows:

FTMM-68-GW-565MW01-11.99 was analyzed at 5x for all analytes
FTMM-68-GW-565MW01D-22.31 was analyzed at 50x for all analytes

Accuracy

Accuracy was evaluated using the percent recovery obtained from two LCSs, two MS/MSD pairs, and the surrogate spikes. Sample FTMM-53-GW-699MW06-10.2 was selected on the COC for MS/MSD purposes. In addition, the laboratory randomly chose sample FTMM-68-GW-565MW01D-22.31 for MS/MSD batch QC purposes. It should be noted that the parent sample FTMM-68-GW-565MW01D-22.31, the MS and MSD were all analyzed at 50x dilutions.

All LCS and surrogate recoveries were within acceptance criteria.

All MS/MSD recoveries were within acceptance criteria for sample FTMM-53-GW-699MW06-10.2, except for the following:

Analyte	MS %R	MSD %R	Criteria
Ethylbenzene	161	(101)	75-125%
m,p-Xylene	161	(100)	75-130%

( ) indicates the recovery met criteria.

The parent sample FTMM-53-GW-699MW06-10.2 was qualified with “J” flags for both Ethylbenzene and m,p-Xylene as required by the project-specific UFP-QAPP.

All MS/MSD recoveries were within acceptance criteria for sample FTMM-68-GW-565MW01D-22.31, except for the following:

Analyte	MS %R	MSD %R	Criteria
1,2-Dibromo-3-chloropropane	(123)	131	50-130%

( ) indicates the recovery met criteria.

Since the MSD was only slightly (<1%) above acceptance criteria and the parent sample was non-detect for 1,2-Dibromo-3-chloropropane, no corrective action was deemed necessary.

Precision

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

All MS/MSD RPDs were within acceptance criteria.

All target VOCs were non-detect above the Limit of Quantitation (LOQ) in both the parent and field duplicate samples in the parent/FD pair, except as follows:

Parent: FTMM-53-GW-699-MW06-10.2

Analyte	Parent (µg/kg)	FD (µg/kg)	RPD	Criteria
1,2,4-Trimethylbenzene	54	52	5.4	RPD ≤ 40
1,3,5-Trimethylbenzene	5.7	5.7	0	
Acetone	12	12	0	
Benzene	9.0	9.2	2.2	
Ethylbenzene	140	150	6.9	
Isopropylbenzene	14	14	0	
Naphthalene	22	22	0	
m,p-Xylene	120	120	0	
n-Propylbenzene	11	11	0	
o-Xylene	9.3	9.2	1.1	

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.
- 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.

Two method blanks were analyzed for VOCs. Both method blanks had detections less than one-half the LOQs, as required by the project-specific UFP-QAPP, therefore no corrective action was required. For batch #415420, 1,2,4-Trimethylbenzene and Naphthalene were detected at 0.24J µg/L and 0.22J µg/L, respectively. For Batch #416090, Bromomethane was detected at 0.58J µg/L. All three of these analytes had reported LOQs of 5.0 µg/L. At the time of sample analyses, ALS did not consider any of these analytes as common laboratory contaminants.

Equipment blank FTMM-EB-093014 was collected on September 30, 2014 and analyzed in SDG R1407813. This EB is associated with the samples in this SDG R1407806. FTMM-EB-093014 reported a low concentration of acetone at 2.2 µg/L. The following samples contained similar acetone detections (less than 5x the Acetone found in the EB), and were therefore qualified with a "B" flag for possible blank contamination:

Sample ID	Analyte	Conc. (µg/L)	Applied Flag
FTMM-53-GW-699MW16-6.5	Acetone	6.3	B
FTMM-53-GW-699MW09-7.75	Acetone	6.6	B
FTMM-53-GW-699MW01-7.5	Acetone	6.4	B
FTMM-53-GW-699MW04-6.85	Acetone	11	B
FTMM-22-GW-CW1MW281-38.74	Acetone	5.5	B
FTMM-22-GW-CW1MW28-11.21	Acetone	7.4	B
FTMM-22-GW-CW1MW37-11.78	Acetone	6.7	B
FTMM-22-GW-CW1MW281-33.74	Acetone	6.2	B
FTMM-22-GW-CW1MW27-12.63	Acetone	7.2	B
FTMM-22-GW-CW1MW29-10.85	Acetone	5.6	B
FTMM-22-GW-CW1MW31-16.40	Acetone	6.1	B

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

October 24, 2014 Service Request No: R1407806

Tammy Chang
Parsons, Inc.
8000 Centre Park Drive, Suite 200
Austin, TX 78754

Laboratory Results for: FTMM 3 Quarter 2014/748810-03000

Dear Tammy:

Enclosed are the results of the sample(s) submitted to our laboratory on October 3, 2014. For your reference, these analyses have been assigned our service request number **R1407806.**

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
Client Services Manager

CC: Sandra de las Fuentes

ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623 PHONE 585-288-5380 | FAX 585-288-8475
ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company
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CASE NARRATIVE

Client:	Parsons Engineering Science	**Service Request No.:**	R1407806
Project:	FTMM 3Q 2014	**Project No.:**	748810-03000
Sample Matrix:	Water	**Date Received:**	10/03/14

General Comments

The DOD QSM 4.1 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 4.1.

Sample Receipt

Samples were collected on 9/30/14 and received in good condition at a cooler temperature of 3.6°C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the batching form for a cross-reference between Client ID and ALS Job #.

Volatile Organics

Nineteen 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 and continuing calibration criteria were met for all analytes.

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

The Blank Spike (LCS) recoveries were all acceptable.

A Matrix Spike/Matrix spike duplicate (MS/MSD) was performed on FTMM-53-GW-699MW06-10.2 and FTMM-68-GW-565MW01D-22.31. All outlying QC has been flagged with an "*".

The Method Blanks associated with these samples were free of contamination except the 10/9/14 blank had low level detections for 1,2,4-Trichlorobenzene and Naphthalene and the 10/14/14 blank had a low level detection for Bromomethane. No data was affected.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 748810-03000	Batch Complete: Yes	Date Revised:	
Submission: R1407806	Diskette Requested: No	Date Due: 10/24/14	
Client: Parsons Engineering Science	Date: 10/3/14	Protocol: SW846	
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:	
Project: FTMM 3 Quarter 2014	Chain of Custody: Present/Absent:	SDG #: FTMM-53-GW-699MW16-6.5	

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1407806-001	FTMM-53-GW-699MW16-6.5	Water	8260C	9/30/14	10/3/14			
R1407806-002	FTMM-53-GW-699MW09-7.75	Water	8260C	9/30/14	10/3/14			
R1407806-003QC	FTMM-53-GW-699MW06-10.2	Water	8260C	9/30/14	10/3/14			
R1407806-004	FTMM-53-GW-699RW05-4.8	Water	8260C	9/30/14	10/3/14			
R1407806-005	FTMM-53-GW-699MW01-7.5	Water	8260C	9/30/14	10/3/14			
R1407806-006	FTMM-53-GW-699MW04-6.85	Water	8260C	9/30/14	10/3/14			
R1407806-007	FTMM-53-GW-699RW03-8.2	Water	8260C	9/30/14	10/3/14			
R1407806-008	FTMM-53-GW-699RW11-8.3	Water	8260C	9/30/14	10/3/14			
R1407806-009	FTMM-53-GW-699MW106-10.2	Water	8260C	9/30/14	10/3/14			
R1407806-010	FTMM-68-GW-565MW01-11.99	Water	8260C	9/30/14	10/3/14			
R1407806-011	FTMM-68-GW-565MW01D-22.31	Water	8260C	9/30/14	10/3/14			
R1407806-012	FTMM-TB-093014	Water	8260C	9/30/14	10/3/14			
R1407806-013	FTMM-22-GW-CW1MW281-38.74	Water	8260C	9/30/14	10/3/14			
R1407806-014	FTMM-22-GW-CW1MW28-11.21	Water	8260C	9/30/14	10/3/14			
R1407806-015	FTMM-22-GW-CW1MW37-11.78	Water	8260C	9/30/14	10/3/14			
R1407806-016	FTMM-22-GW-CW1MW28I-33.74	Water	8260C	9/30/14	10/3/14			
R1407806-017	FTMM-22-GW-CW1MW27-12.63	Water	8260C	9/30/14	10/3/14			
R1407806-018	FTMM-22-GW-CW1MW29-10.85	Water	8260C	9/30/14	10/3/14			
R1407806-019	FTMM-22-GW-CW1MW31-16.40	Water	8260C	9/30/14	10/3/14			

Folder Comments: DoD reporting

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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]

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
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		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 laboratory case narrative provided. For a specific list of accredited analytes, refer to
http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

19156

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PAGE 1 OF 2

Project Name: FTMM 3 Quarter 2014	Project Number:
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High street, Boston, MA 02210	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: C. Watson, N. Loizos, J. McDougall

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

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	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-699MW16-6.5		9/30/14	1005	GW	3	X							
ftmm-53-GW-699MW09-7.75			1010	GW	3	X							
ftmm-53-GW-699MW06-10.2-MSD			1045	GW	3	X							
ftmm-53-GW-699MW06-10.2-MS			1045	GW	3	X							
ftmm-53-GW-699MW06-10.2			1045	GW	3	X							
ftmm-53-GW-699RW05-4.8			1055	GW	3	X							
ftmm-53-GW-699MW01-7.5			1033	GW	3	X							
ftmm-53-GW-699MW04-6.85			1058	GW	3	X							
ftmm-53-GW-699RW03-8.2			1030	GW	3	X							
ftmm-53-GW-699RW11-8.3			1038	GW	3	X							
ftmm-53-GW-699MW06-10.2			1030	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
STANDARD
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

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: N. Loizos	Printed Name: J. Schwind	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 10/2/14 @ 1730	Date/Time: 10/3/14 1020	Date/Time	Date/Time	Date/Time	Date/Time

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FTMM 3 Quarter 2014

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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

19155

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Project Name: Ftmm 3rd Quarter 2014	Project Number: 745510-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, Boston, MA 02210	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	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-68-GW-565MW01-11.99		9/30/14	1015	GW	3	X							
Ftmm-68-GW-565MW01D-22.31		9/30/14	1018	GW	3	X							
Ftmm-TB-093014		9/30/14	—	TB	3	X							
Ftmm-22-GW-CW1MW28I-33.74		9/30/14	1254	GW	3	X							
Ftmm-22-GW-CW1MW28-11.21		9/30/14	1306	GW	3	X							
Ftmm-22-GW-CW1MW37-11.78		9/30/14	1310	GW	3	X							
Ftmm-22-GW-CW1MW28I-33.74		9/30/14	1252	GW	3	X							
Ftmm-22-GW-CW1MW27-12.63		9/30/14	1249	GW	3	X							
Ftmm-22-GW-CW1MW29-10.85		9/30/14	1257	GW	3	X							
Ftmm-22-GW-CW1MW31-16.40		9/30/14	1302	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
STANDARD
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

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Dick Conces	Printed Name: J. Stewart	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 10/2/14 @ 1730	Date/Time: 10/3/14 1020	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 441-7806

Cooler received on 10/3 by: JG3 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: 10/3 Time: 1103 ID: (IR#3) IR#4 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	3.8	8.7					
Correction Factor (°C)	-0.2	+0.1					
Corrected Temp (°C)	3.6	8.8					
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: RWR by JG3 on 10/3 at 1103
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 10/3/14

Cooler Breakdown: Date: 10/3/14 Time: 1631 by: JG3

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	**	**	413070	5/15				

**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: 4-162-002

Other Comments:

* TRIP BLANK + EQUIP BLANK – 1 VIAL w/ headspace

R1407806 5
Parsons, Inc.
FTMM 3 Quarter 2014

PC Secondary Review: JMS 10/7/14 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r7.doc 5/6/14

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1005
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:58
Sample Name:	FTMM-53-GW-699MW16-6.5	**Units:**	µg/L
Lab Code:	R1407806-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2772.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	**6.3**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1005
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:58
Sample Name:	FTMM-53-GW-699MW16-6.5	**Units:**	µg/L
Lab Code:	R1407806-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2772.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	**1.6**	J	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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1005
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:58
Sample Name:	FTMM-53-GW-699MW16-6.5	**Units:**	µg/L
Lab Code:	R1407806-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2772.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 14:58	
Dibromofluoromethane	106	85-115	10/9/14 14:58	
Toluene-d8	102	85-120	10/9/14 14:58	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/3/14
		Date Analyzed:	10/9/14 1458

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

Sample Name:	FTMM-53-GW-699MW16-6.5	**Units:**	µg/L
Lab Code:	R1407806-001	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1010
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 15:28

Sample Name: FTMM-53-GW-699MW09-7.75
Lab Code: R1407806-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2773.D\

Analysis Lot: 415420
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	**6.6**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1010
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 15:28

Sample Name: FTMM-53-GW-699MW09-7.75
Lab Code: R1407806-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2773.D\

Analysis Lot: 415420
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	0.32	
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	**0.49**	J	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)	**0.33**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1010
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 15:28
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1407806-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2773.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 15:28	
Dibromofluoromethane	108	85-115	10/9/14 15:28	
Toluene-d8	102	85-120	10/9/14 15:28	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1528

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

Sample Name: FTMM-53-GW-699MW09-7.75
Lab Code: R1407806-002

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1045
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 15:07

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\

Analysis Lot: 416090
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	**54**		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	**5.7**		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	**12**		5.0	5.0	1.3	
71-43-2	Benzene	**9.0**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1045
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 15:07

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\

Analysis Lot: 416090
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	0.32	
100-41-4	Ethylbenzene	**140**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**14**		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	**22**		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	**1.5**	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	**120**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**0.27**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**11**		5.0	1.0	0.20	
95-47-6	o-Xylene	**9.3**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**0.48**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1045
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 15:07
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1407806-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	10/14/14 15:07	
Dibromofluoromethane	104	85-115	10/14/14 15:07	
Toluene-d8	101	85-120	10/14/14 15:07	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14 1507

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

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	1.66	**12.0**	JN
	unknown	2.51	**9.6**	J
000096-37-7	Cyclopentane, methyl-	3.56	**14.4**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	10.18	**27.5**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	10.41	**29.3**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	10.90	**14.3**	JN
000496-11-7	Indane	11.05	**30.9**	JN

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1055
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 15:57

Sample Name: FTMM-53-GW-699RW05-4.8
Lab Code: R1407806-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2774.D\

Analysis Lot: 415420
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	**1.4**	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	**0.22**	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	**14**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1055
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 15:57
Sample Name:	FTMM-53-GW-699RW05-4.8	**Units:**	µg/L
Lab Code:	R1407806-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2774.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	0.32	
100-41-4	Ethylbenzene	**0.51**	J	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	**0.33**	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	**0.88**	J	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	**1.0**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1055
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 15:57
Sample Name:	FTMM-53-GW-699RW05-4.8	**Units:**	µg/L
Lab Code:	R1407806-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2774.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	10/9/14 15:57	
Dibromofluoromethane	107	85-115	10/9/14 15:57	
Toluene-d8	102	85-120	10/9/14 15:57	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1557

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

Sample Name: FTMM-53-GW-699RW05-4.8
Lab Code: R1407806-004

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000096-37-7	Cyclopentane, methyl-	3.56	5.7	JN

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1033
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 16:27

Sample Name: FTMM-53-GW-699MW01-7.5
Lab Code: R1407806-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2775.D\

Analysis Lot: 415420
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	**1.3**	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	**6.4**		5.0	5.0	1.3	
71-43-2	Benzene	**0.52**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1033
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:27
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1407806-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2775.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	0.32	
100-41-4	Ethylbenzene	**1.6**	J	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**0.29**	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	**0.39**	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	**0.27**	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	**0.39**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**0.40**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1033
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:27
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1407806-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2775.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	75-120	10/9/14 16:27	
Dibromofluoromethane	107	85-115	10/9/14 16:27	
Toluene-d8	101	85-120	10/9/14 16:27	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1627

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

Sample Name: FTMM-53-GW-699MW01-7.5
Lab Code: R1407806-005

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1058
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 16:57

Sample Name: FTMM-53-GW-699MW04-6.85
Lab Code: R1407806-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2776.D\

Analysis Lot: 415420
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	**0.25**	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	**11**		5.0	5.0	1.3	
71-43-2	Benzene	**0.37**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1058
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:57
Sample Name:	FTMM-53-GW-699MW04-6.85	**Units:**	µg/L
Lab Code:	R1407806-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2776.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	0.32	
100-41-4	Ethylbenzene	**0.28**	J	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	**0.27**	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	**1.0**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1058
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:57
Sample Name:	FTMM-53-GW-699MW04-6.85	**Units:**	µg/L
Lab Code:	R1407806-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2776.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 16:57	
Dibromofluoromethane	105	85-115	10/9/14 16:57	
Toluene-d8	100	85-120	10/9/14 16:57	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1657

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

Sample Name: FTMM-53-GW-699MW04-6.85
Lab Code: R1407806-006

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1030
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 19:55
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1407806-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2782.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	**26**		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	**0.63**	J	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	**0.46**	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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1030
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 19:55

Sample Name: FTMM-53-GW-699RW03-8.2
Lab Code: R1407806-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2782.D\

Analysis Lot: 415420
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	**0.29**	J	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	0.32	
100-41-4	Ethylbenzene	**8.4**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**3.7**	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	**2.9**	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	**0.21**	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	**0.77**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	**1.2**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**6.6**		5.0	1.0	0.20	
95-47-6	o-Xylene	**6.4**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**1.5**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1030
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 19:55
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1407806-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2782.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	10/9/14 19:55	
Dibromofluoromethane	105	85-115	10/9/14 19:55	
Toluene-d8	101	85-120	10/9/14 19:55	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1955

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

Sample Name: FTMM-53-GW-699RW03-8.2
Lab Code: R1407806-007

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.66	**8.0**	J
000079-29-8	Butane, 2,3-dimethyl-	2.44	**7.8**	JN
000096-14-0	Pentane, 3-methyl-	2.67	**9.2**	JN
	unknown	3.56	**6.1**	J
000565-59-3	Pentane, 2,3-dimethyl-	4.53	**5.7**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	10.41	**14.2**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	10.90	**9.3**	JN
	unknown	11.06	**22.5**	J
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	11.41	**5.1**	JN
000767-58-8	Indan, 1-methyl-	11.49	**11.5**	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	11.68	**10.1**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	11.72	**7.9**	JN
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	11.99	**12.3**	JN

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1038
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:26
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1407806-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2779.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	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1038
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:26
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1407806-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2779.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	0.32	
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)	**6.3**		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	**0.59**	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	**0.29**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**3.5**	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	**1.1**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1038
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:26
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1407806-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2779.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	10/9/14 18:26	
Dibromofluoromethane	104	85-115	10/9/14 18:26	
Toluene-d8	101	85-120	10/9/14 18:26	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1826

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

Sample Name: FTMM-53-GW-699RW11-8.3
Lab Code: R1407806-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	1.66	7.1	JN
000079-29-8	Butane, 2,3-dimethyl-	2.44	13.8	JN
	unknown	2.67	7.3	J
000096-37-7	Cyclopentane, methyl-	3.56	6.9	JN
	unknown	11.06	7.5	J
027133-93-3	2,3-Dihydro-1-methylindene	11.49	15.5	JN
000767-58-8	Indan, 1-methyl-	11.89	7.7	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	11.99	17.4	JN

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1030
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 15:37

Sample Name: FTMM-53-GW-699MW106-10.2
Lab Code: R1407806-009

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2950.D\

Analysis Lot: 416090
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	**52**		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	**5.7**		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	**12**		5.0	5.0	1.3	
71-43-2	Benzene	**9.2**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1030
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 15:37

Sample Name: FTMM-53-GW-699MW106-10.2
Lab Code: R1407806-009

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2950.D\

Analysis Lot: 416090
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	0.32	
100-41-4	Ethylbenzene	**150**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**14**		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	**22**		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	**1.4**	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	**120**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**0.25**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**11**		5.0	1.0	0.20	
95-47-6	o-Xylene	**9.2**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**0.35**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1030
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 15:37
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1407806-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2950.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	10/14/14 15:37	
Dibromofluoromethane	105	85-115	10/14/14 15:37	
Toluene-d8	99	85-120	10/14/14 15:37	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14 1537

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

Sample Name: FTMM-53-GW-699MW106-10.2
Lab Code: R1407806-009

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.66	**12.7**	J
	unknown	2.51	**10.0**	J
000096-37-7	Cyclopentane, methyl-	3.56	**14.9**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	10.18	**26.8**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	10.41	**28.9**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	10.90	**13.9**	JN
000496-11-7	Indane	11.05	**30.3**	JN

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1015
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 19:25
Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1407806-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2781.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	25	5.0	1.1	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	25	5.0	1.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	25	5.0	1.3	
79-00-5	1,1,2-Trichloroethane	ND	U	25	5.0	1.8	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	25	5.0	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**3.2**	J	25	5.0	2.9	
563-58-6	1,1-Dichloropropene	ND	U	25	5.0	1.5	
87-61-6	1,2,3-Trichlorobenzene	ND	U	25	5.0	4.1	
96-18-4	1,2,3-Trichloropropane	ND	U	25	5.0	3.5	
120-82-1	1,2,4-Trichlorobenzene	ND	U	25	5.0	1.2	
95-63-6	1,2,4-Trimethylbenzene	ND	U	25	5.0	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	25	5.0	3.7	
106-93-4	1,2-Dibromoethane	ND	U	25	5.0	1.2	
95-50-1	1,2-Dichlorobenzene	ND	U	25	5.0	1.1	
107-06-2	1,2-Dichloroethane	ND	U	25	5.0	1.8	
78-87-5	1,2-Dichloropropane	ND	U	25	5.0	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	U	25	5.0	1.0	
541-73-1	1,3-Dichlorobenzene	ND	U	25	5.0	1.0	
142-28-9	1,3-Dichloropropane	ND	U	25	5.0	1.4	
106-46-7	1,4-Dichlorobenzene	ND	U	25	5.0	1.0	
594-20-7	2,2-Dichloropropane	ND	U	25	5.0	1.4	
78-93-3	2-Butanone (MEK)	ND	U	25	5.0	4.1	
95-49-8	2-Chlorotoluene	ND	U	25	5.0	1.0	
591-78-6	2-Hexanone	ND	U	25	25	8.3	
75-65-0	tert-Butyl Alcohol	ND	U	500	100	54	
106-43-4	4-Chlorotoluene	ND	U	25	5.0	1.2	
99-87-6	p-Isopropyltoluene	ND	U	25	5.0	1.0	
108-10-1	4-Methyl-2-pentanone	ND	U	25	5.0	3.4	
67-64-1	Acetone	**13**	J	25	25	6.2	
71-43-2	Benzene	ND	U	25	5.0	1.0	
108-86-1	Bromobenzene	ND	U	25	5.0	1.5	
74-97-5	Bromochloromethane	ND	U	25	5.0	1.6	
75-27-4	Bromodichloromethane	ND	U	25	5.0	1.6	
75-25-2	Bromoform	ND	U	25	5.0	2.1	
74-83-9	Bromomethane	ND	U	25	5.0	1.5	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1015
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 19:25

Sample Name: FTMM-68-GW-565MW01-11.99
Lab Code: R1407806-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2781.D\

Analysis Lot: 415420
Instrument Name: R-MS-10
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	25	5.0	2.3	
108-90-7	Chlorobenzene	ND	U	25	5.0	1.5	
75-00-3	Chloroethane	ND	U	25	5.0	1.2	
67-66-3	Chloroform	ND	U	25	5.0	1.3	
74-87-3	Chloromethane	ND	U	25	5.0	1.1	
124-48-1	Dibromochloromethane	ND	U	25	5.0	1.6	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	25	5.0	2.4	
75-09-2	Methylene Chloride	ND	U	25	5.0	1.6	
100-41-4	Ethylbenzene	ND	U	25	5.0	1.0	
87-68-3	Hexachlorobutadiene	ND	U	25	5.0	3.1	
98-82-8	Isopropylbenzene (Cumene)	ND	U	25	5.0	1.0	
1634-04-4	Methyl tert-Butyl Ether	ND	U	25	5.0	1.5	
91-20-3	Naphthalene	ND	U	25	5.0	1.0	
100-42-5	Styrene	ND	U	25	5.0	1.0	
127-18-4	Tetrachloroethene (PCE)	**700**		25	5.0	1.5	
108-88-3	Toluene	ND	U	25	5.0	1.0	
79-01-6	Trichloroethene (TCE)	**210**		25	5.0	1.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	25	5.0	1.0	
75-01-4	Vinyl Chloride	**16**	J	25	5.0	1.6	
156-59-2	cis-1,2-Dichloroethene	**210**		25	5.0	1.5	
10061-01-5	cis-1,3-Dichloropropene	ND	U	25	5.0	1.2	
179601-23-1	m,p-Xylenes	ND	U	50	10	1.7	
104-51-8	n-Butylbenzene	ND	U	25	5.0	1.1	
103-65-1	n-Propylbenzene	ND	U	25	5.0	1.0	
95-47-6	o-Xylene	ND	U	25	5.0	1.0	
135-98-8	sec-Butylbenzene	ND	U	25	5.0	1.4	
98-06-6	tert-Butylbenzene	ND	U	25	5.0	1.0	
156-60-5	trans-1,2-Dichloroethene	ND	U	25	5.0	1.7	
10061-02-6	trans-1,3-Dichloropropene	ND	U	25	5.0	1.0	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1015
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 19:25
Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1407806-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2781.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 19:25	
Dibromofluoromethane	106	85-115	10/9/14 19:25	
Toluene-d8	101	85-120	10/9/14 19:25	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1925

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

Sample Name: FTMM-68-GW-565MW01-11.99
Lab Code: R1407806-010

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1018
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 14:28

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2771.D\

Analysis Lot: 415420
Instrument Name: R-MS-10
Dilution Factor: 50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	250	50	11	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	250	50	18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	250	50	13	
79-00-5	1,1,2-Trichloroethane	ND	U	250	50	17	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	250	50	10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	250	50	29	
563-58-6	1,1-Dichloropropene	ND	U	250	50	15	
87-61-6	1,2,3-Trichlorobenzene	ND	U	250	50	41	
96-18-4	1,2,3-Trichloropropane	ND	U	250	50	35	
120-82-1	1,2,4-Trichlorobenzene	ND	U	250	50	12	
95-63-6	1,2,4-Trimethylbenzene	ND	U	250	50	10	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	250	50	37	
106-93-4	1,2-Dibromoethane	ND	U	250	50	12	
95-50-1	1,2-Dichlorobenzene	ND	U	250	50	11	
107-06-2	1,2-Dichloroethane	ND	U	250	50	18	
78-87-5	1,2-Dichloropropane	ND	U	250	50	10	
108-67-8	1,3,5-Trimethylbenzene	ND	U	250	50	10	
541-73-1	1,3-Dichlorobenzene	ND	U	250	50	10	
142-28-9	1,3-Dichloropropane	ND	U	250	50	14	
106-46-7	1,4-Dichlorobenzene	ND	U	250	50	10	
594-20-7	2,2-Dichloropropane	ND	U	250	50	14	
78-93-3	2-Butanone (MEK)	ND	U	250	50	41	
95-49-8	2-Chlorotoluene	ND	U	250	50	10	
591-78-6	2-Hexanone	ND	U	250	250	83	
75-65-0	tert-Butyl Alcohol	ND	U	5000	1000	540	
106-43-4	4-Chlorotoluene	ND	U	250	50	12	
99-87-6	p-Isopropyltoluene	ND	U	250	50	10	
108-10-1	4-Methyl-2-pentanone	ND	U	250	50	34	
67-64-1	Acetone	ND	U	250	250	62	
71-43-2	Benzene	ND	U	250	50	10	
108-86-1	Bromobenzene	ND	U	250	50	15	
74-97-5	Bromochloromethane	ND	U	250	50	16	
75-27-4	Bromodichloromethane	ND	U	250	50	16	
75-25-2	Bromoform	ND	U	250	50	21	
74-83-9	Bromomethane	ND	U	250	50	15	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1018
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 14:28

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2771.D\

Analysis Lot: 415420
Instrument Name: R-MS-10
Dilution Factor: 50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	250	50	23	
108-90-7	Chlorobenzene	ND	U	250	50	15	
75-00-3	Chloroethane	ND	U	250	50	12	
67-66-3	Chloroform	ND	U	250	50	13	
74-87-3	Chloromethane	ND	U	250	50	11	
124-48-1	Dibromochloromethane	ND	U	250	50	16	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	250	50	23	
75-09-2	Methylene Chloride	ND	U	250	50	16	
100-41-4	Ethylbenzene	ND	U	250	50	10	
87-68-3	Hexachlorobutadiene	ND	U	250	50	31	
98-82-8	Isopropylbenzene (Cumene)	ND	U	250	50	10	
1634-04-4	Methyl tert-Butyl Ether	ND	U	250	50	15	
91-20-3	Naphthalene	ND	U	250	50	10	
100-42-5	Styrene	ND	U	250	50	10	
127-18-4	Tetrachloroethene (PCE)	**4800**		250	50	15	
108-88-3	Toluene	ND	U	250	50	10	
79-01-6	Trichloroethene (TCE)	**18**	J	250	50	11	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	250	50	10	
75-01-4	Vinyl Chloride	ND	U	250	50	16	
156-59-2	cis-1,2-Dichloroethene	ND	U	250	50	15	
10061-01-5	cis-1,3-Dichloropropene	ND	U	250	50	12	
179601-23-1	m,p-Xylenes	ND	U	500	100	17	
104-51-8	n-Butylbenzene	ND	U	250	50	11	
103-65-1	n-Propylbenzene	ND	U	250	50	10	
95-47-6	o-Xylene	ND	U	250	50	10	
135-98-8	sec-Butylbenzene	ND	U	250	50	14	
98-06-6	tert-Butylbenzene	ND	U	250	50	10	
156-60-5	trans-1,2-Dichloroethene	ND	U	250	50	17	
10061-02-6	trans-1,3-Dichloropropene	ND	U	250	50	10	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:28
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1407806-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2771.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 14:28	
Dibromofluoromethane	106	85-115	10/9/14 14:28	
Toluene-d8	102	85-120	10/9/14 14:28	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1428

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

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 14:38
Sample Name:	FTMM-TB-093014	**Units:**	µg/L
Lab Code:	R1407806-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2948.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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 14:38
Sample Name:	FTMM-TB-093014	**Units:**	µg/L
Lab Code:	R1407806-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2948.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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 14:38
Sample Name:	FTMM-TB-093014	**Units:**	µg/L
Lab Code:	R1407806-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2948.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	10/14/14 14:38	
Dibromofluoromethane	104	85-115	10/14/14 14:38	
Toluene-d8	99	85-120	10/14/14 14:38	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14 1438

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

Sample Name: FTMM-TB-093014
Lab Code: R1407806-012

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1254
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 18:56

Sample Name: FTMM-22-GW-CW1MW281-38.74
Lab Code: R1407806-013

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2780.D\

Analysis Lot: 415420
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)	**0.64**	J	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	**5.5**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1254
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:56
Sample Name:	FTMM-22-GW-CW1MW281-38.74	**Units:**	µg/L
Lab Code:	R1407806-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2780.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	0.32	
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)	**160**		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	**1.1**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**14**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1254
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:56
Sample Name:	FTMM-22-GW-CW1MW281-38.74	**Units:**	µg/L
Lab Code:	R1407806-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2780.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 18:56	
Dibromofluoromethane	105	85-115	10/9/14 18:56	
Toluene-d8	101	85-120	10/9/14 18:56	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/3/14
		Date Analyzed:	10/9/14 1856

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

Sample Name:	FTMM-22-GW-CW1MW281-38.74	**Units:**	µg/L
Lab Code:	R1407806-013	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1306
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 17:26

Sample Name: FTMM-22-GW-CW1MW28-11.21
Lab Code: R1407806-014

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2777.D\

Analysis Lot: 415420
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	7.4		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1306
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:26
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1407806-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2777.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	0.32	
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)	**1.5**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1306
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:26
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1407806-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2777.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 17:26	
Dibromofluoromethane	108	85-115	10/9/14 17:26	
Toluene-d8	100	85-120	10/9/14 17:26	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/3/14
		Date Analyzed:	10/9/14 1726

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

Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1407806-014	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1310
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 17:56

Sample Name: FTMM-22-GW-CW1MW37-11.78
Lab Code: R1407806-015

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2778.D\

Analysis Lot: 415420
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	**6.7**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1310
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 17:56

Sample Name: FTMM-22-GW-CW1MW37-11.78
Lab Code: R1407806-015

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2778.D\

Analysis Lot: 415420
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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1310
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:56
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1407806-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2778.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	75-120	10/9/14 17:56	
Dibromofluoromethane	105	85-115	10/9/14 17:56	
Toluene-d8	100	85-120	10/9/14 17:56	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1756

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

Sample Name: FTMM-22-GW-CW1MW37-11.78
Lab Code: R1407806-015

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1252
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:29
Sample Name:	FTMM-22-GW-CW1MW28I-33.74	**Units:**	µg/L
Lab Code:	R1407806-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2767.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)	**0.69**	J	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	**6.2**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1252
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:29
Sample Name:	FTMM-22-GW-CW1MW28I-33.74	**Units:**	µg/L
Lab Code:	R1407806-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2767.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	0.32	
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)	**150**		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	**1.1**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**14**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1252
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:29
Sample Name:	FTMM-22-GW-CW1MW28I-33.74	**Units:**	µg/L
Lab Code:	R1407806-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2767.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	75-120	10/9/14 12:29	
Dibromofluoromethane	105	85-115	10/9/14 12:29	
Toluene-d8	99	85-120	10/9/14 12:29	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1229

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

Sample Name: FTMM-22-GW-CW1MW28I-33.74
Lab Code: R1407806-016

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1249
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:59
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1407806-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2768.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	**7.2**		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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1249
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:59
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1407806-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2768.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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1249
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:59
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1407806-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2768.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 12:59	
Dibromofluoromethane	105	85-115	10/9/14 12:59	
Toluene-d8	99	85-120	10/9/14 12:59	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1259

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

Sample Name: FTMM-22-GW-CW1MW27-12.63
Lab Code: R1407806-017

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1257
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:29
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1407806-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2769.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	**5.6**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1257
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 13:29

Sample Name: FTMM-22-GW-CW1MW29-10.85
Lab Code: R1407806-018

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2769.D\

Analysis Lot: 415420
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	0.32	
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)	**3.9**	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	**0.47**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**5.6**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1257
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:29
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1407806-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2769.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 13:29	
Dibromofluoromethane	108	85-115	10/9/14 13:29	
Toluene-d8	101	85-120	10/9/14 13:29	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1329

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

Sample Name: FTMM-22-GW-CW1MW29-10.85
Lab Code: R1407806-018

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1302
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 13:58

Sample Name: FTMM-22-GW-CW1MW31-16.40
Lab Code: R1407806-019

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2770.D\

Analysis Lot: 415420
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)	**0.26**	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)	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	**6.1**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1302
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:58
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1407806-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2770.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	0.32	
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)	**0.47**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1302
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:58
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1407806-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2770.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	75-120	10/9/14 13:58	
Dibromofluoromethane	104	85-115	10/9/14 13:58	
Toluene-d8	99	85-120	10/9/14 13:58	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1358

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

Sample Name: FTMM-22-GW-CW1MW31-16.40
Lab Code: R1407806-019

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 12:00
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412440-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2766.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	**0.24**	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	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 12:00
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412440-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2766.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	0.32	
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	**0.22**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 12:00
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412440-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2766.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	10/9/14 12:00	
Dibromofluoromethane	104	85-115	10/9/14 12:00	
Toluene-d8	101	85-120	10/9/14 12:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: NA
Date Received: NA
Date Analyzed: 10/9/14 1200

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

Sample Name: Method Blank
Lab Code: RQ1412440-01

Units: µg/L
Basis: NA

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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 11:39
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412540-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2942.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	**0.58**	J	5.0	1.0	0.29	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 11:39
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412540-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2942.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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 11:39
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412540-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2942.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/14/14 11:39	
Dibromofluoromethane	103	85-115	10/14/14 11:39	
Toluene-d8	102	85-120	10/14/14 11:39	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: NA
Date Received: NA
Date Analyzed: 10/14/14 1139

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

Sample Name: Method Blank
Lab Code: RQ1412540-01

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1412540-07			FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1412540-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	51.3	50.0	103	51.5	50.0	103	80 - 130	<1	30
1,1,1-Trichloroethane (TCA)	ND	57.7	50.0	115	57.2	50.0	114	65 - 130	<1	30
1,1,2,2-Tetrachloroethane	ND	51.0	50.0	102	52.8	50.0	106	65 - 130	3	30
1,1,2-Trichloroethane	ND	53.6	50.0	107	52.8	50.0	106	75 - 125	2	30
1,1-Dichloroethane (1,1-DCA)	ND	52.1	50.0	104	51.9	50.0	104	70 - 135	<1	30
1,1-Dichloroethene (1,1-DCE)	ND	60.5	50.0	121	59.5	50.0	119	70 - 130	2	30
1,1-Dichloropropene	ND	56.8	50.0	114	57.5	50.0	115	75 - 130	1	30
1,2,3-Trichlorobenzene	ND	54.3	50.0	108	54.1	50.0	108	75 - 125	<1	30
1,2,3-Trichloropropane	ND	49.0	50.0	98	49.0	50.0	98	75 - 125	<1	30
1,2,4-Trichlorobenzene	ND	50.5	50.0	101	51.5	50.0	103	65 - 135	2	30
1,2,4-Trimethylbenzene	54	117	50.0	126	107	50.0	104	75 - 130	9	30
1,2-Dibromo-3-chloropropane (DBC	ND	56.0	50.0	112	57.6	50.0	115	50 - 130	3	30
1,2-Dibromoethane	ND	53.5	50.0	107	53.8	50.0	108	80 - 120	<1	30
1,2-Dichlorobenzene	ND	47.0	50.0	94	46.9	50.0	94	70 - 120	<1	30
1,2-Dichloroethane	ND	55.7	50.0	111	56.0	50.0	112	70 - 130	<1	30
1,2-Dichloropropane	ND	53.7	50.0	107	55.3	50.0	111	75 - 125	3	30
1,3,5-Trimethylbenzene	5.7	58.8	50.0	106	55.3	50.0	99	75 - 130	6	30
1,3-Dichlorobenzene	ND	47.2	50.0	94	48.6	50.0	97	75 - 125	3	30
1,3-Dichloropropane	ND	52.4	50.0	105	53.3	50.0	107	75 - 125	2	30
1,4-Dichlorobenzene	ND	47.3	50.0	95	47.3	50.0	95	75 - 125	<1	30
2,2-Dichloropropane	ND	49.4	50.0	99	49.0	50.0	98	70 - 135	<1	30
2-Butanone (MEK)	ND	48.8	50.0	98	49.4	50.0	99	30 - 150	1	30
2-Chlorotoluene	ND	56.4	50.0	113	55.4	50.0	111	75 - 125	2	30
2-Hexanone	ND	51.3	50.0	103	51.8	50.0	104	55 - 130	<1	30
tert-Butyl Alcohol	ND	1220	1000	122	1210	1000	121	50 - 150	<1	30
4-Chlorotoluene	ND	51.1	50.0	102	50.9	50.0	102	75 - 130	<1	30
p-Isopropyltoluene	ND	48.9	50.0	98	49.0	50.0	98	75 - 130	<1	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

	FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1412540-07				FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1412540-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4-Methyl-2-pentanone	ND	55.8	50.0	112	56.5	50.0	113	60 - 135	1	30
Acetone	12	51.8	50.0	80	52.3	50.0	81	40 - 140	<1	30
Benzene	9.0	65.2	50.0	112	63.9	50.0	110	80 - 120	2	30
Bromobenzene	ND	49.4	50.0	99	50.3	50.0	101	75 - 125	2	30
Bromochloromethane	ND	48.5	50.0	97	48.3	50.0	97	65 - 130	<1	30
Bromodichloromethane	ND	58.4	50.0	117	59.0	50.0	118	75 - 120	<1	30
Bromoform	ND	54.2	50.0	108	55.5	50.0	111	70 - 130	2	30
Bromomethane	ND	54.3	50.0	109	54.4	50.0	109	30 - 145	<1	30
Carbon Tetrachloride	ND	57.9	50.0	116	58.7	50.0	117	65 - 140	1	30
Chlorobenzene	ND	49.7	50.0	99	50.2	50.0	100	80 - 120	<1	30
Chloroethane	ND	52.0	50.0	104	52.0	50.0	104	60 - 135	<1	30
Chloroform	ND	54.8	50.0	110	54.4	50.0	109	65 - 135	<1	30
Chloromethane	ND	54.7	50.0	109	54.0	50.0	108	40 - 125	1	30
Dibromochloromethane	ND	53.4	50.0	107	54.0	50.0	108	60 - 135	1	30
Dichlorodifluoromethane (CFC 12)	ND	55.2	50.0	110	53.6	50.0	107	30 - 155	3	30
Methylene Chloride	ND	51.0	50.0	102	50.9	50.0	102	55 - 140	<1	30
Ethylbenzene	140	223	50.0	161 *	193	50.0	101	75 - 125	14	30
Hexachlorobutadiene	ND	55.4	50.0	111	55.8	50.0	112	50 - 140	<1	30
Isopropylbenzene (Cumene)	14	68.0	50.0	107	67.3	50.0	106	75 - 125	1	30
Methyl tert-Butyl Ether	ND	57.5	50.0	115	57.3	50.0	115	65 - 125	<1	30
Naphthalene	22	84.5	50.0	125	79.4	50.0	115	55 - 140	6	30
Styrene	ND	51.8	50.0	104	51.8	50.0	104	65 - 135	<1	30
Tetrachloroethene (PCE)	ND	53.6	50.0	107	52.6	50.0	105	45 - 150	2	30
Toluene	1.5	54.7	50.0	106	54.9	50.0	107	75 - 120	<1	30
Trichloroethene (TCE)	ND	51.1	50.0	102	52.2	50.0	104	70 - 125	2	30
Trichlorofluoromethane (CFC 11)	ND	55.2	50.0	110	55.5	50.0	111	60 - 145	<1	30
Vinyl Chloride	ND	51.7	50.0	103	49.8	50.0	100	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1412540-07				FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1412540-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**		**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
cis-1,2-Dichloroethene	ND	51.2	50.0	102		51.1	50.0	102	70 - 125	<1	30
cis-1,3-Dichloropropene	ND	58.0	50.0	116		58.8	50.0	118	70 - 130	1	30
m,p-Xylenes	120	286	100	161	*	229	100	105	75 - 130	22	30
n-Butylbenzene	0.27	52.2	50.0	104		52.6	50.0	105	70 - 135	<1	30
n-Propylbenzene	11	67.6	50.0	113		64.5	50.0	107	70 - 130	5	30
o-Xylene	9.3	63.4	50.0	108		61.1	50.0	104	80 - 120	4	30
sec-Butylbenzene	0.48	48.3	50.0	96		49.2	50.0	97	70 - 125	2	30
tert-Butylbenzene	ND	48.9	50.0	98		49.7	50.0	99	70 - 130	2	30
trans-1,2-Dichloroethene	ND	52.6	50.0	105		51.3	50.0	103	60 - 140	3	30
trans-1,3-Dichloropropene	ND	63.4	50.0	127		61.8	50.0	124	55 - 140	3	30

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Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/ 9/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-68-GW-565MW01D-22.31MS Matrix Spike RQ1412440-05			FTMM-68-GW-565MW01D-22.31DMS Duplicate Matrix Spike RQ1412440-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	2500	2500	100	2680	2500	107	80 - 130	7	30
1,1,1-Trichloroethane (TCA)	ND	2550	2500	102	2710	2500	108	65 - 130	6	30
1,1,2,2-Tetrachloroethane	ND	2730	2500	109	2860	2500	114	65 - 130	5	30
1,1,2-Trichloroethane	ND	2540	2500	101	2650	2500	106	75 - 125	4	30
1,1-Dichloroethane (1,1-DCA)	ND	2320	2500	93	2480	2500	99	70 - 135	6	30
1,1-Dichloroethene (1,1-DCE)	ND	2650	2500	106	2810	2500	113	70 - 130	6	30
1,1-Dichloropropene	ND	2610	2500	104	2800	2500	112	75 - 130	7	30
1,2,3-Trichlorobenzene	ND	2590	2500	104	2970	2500	119	75 - 125	13	30
1,2,3-Trichloropropane	ND	2620	2500	105	2680	2500	107	75 - 125	3	30
1,2,4-Trichlorobenzene	ND	2510	2500	100	2760	2500	111	65 - 135	10	30
1,2,4-Trimethylbenzene	ND	2480	2500	99	2580	2500	103	75 - 130	4	30
1,2-Dibromo-3-chloropropane (DBC	ND	3070	2500	123	3270	2500	131 *	50 - 130	6	30
1,2-Dibromoethane	ND	2720	2500	109	2870	2500	115	80 - 120	5	30
1,2-Dichlorobenzene	ND	2390	2500	96	2540	2500	101	70 - 120	6	30
1,2-Dichloroethane	ND	2720	2500	109	2840	2500	114	70 - 130	4	30
1,2-Dichloropropane	ND	2520	2500	101	2680	2500	107	75 - 125	6	30
1,3,5-Trimethylbenzene	ND	2430	2500	97	2560	2500	103	75 - 130	5	30
1,3-Dichlorobenzene	ND	2390	2500	96	2510	2500	100	75 - 125	5	30
1,3-Dichloropropane	ND	2610	2500	104	2810	2500	112	75 - 125	7	30
1,4-Dichlorobenzene	ND	2330	2500	93	2480	2500	99	75 - 125	6	30
2,2-Dichloropropane	ND	2350	2500	94	2410	2500	96	70 - 135	2	30
2-Butanone (MEK)	ND	2510	2500	100	2580	2500	103	30 - 150	3	30
2-Chlorotoluene	ND	2490	2500	100	2640	2500	106	75 - 125	6	30
2-Hexanone	ND	2850	2500	114	2930	2500	117	55 - 130	3	30
tert-Butyl Alcohol	ND	57500	50000	115	63300	50000	127	50 - 150	10	30
4-Chlorotoluene	ND	2500	2500	100	2610	2500	104	75 - 130	4	30
p-Isopropyltoluene	ND	2410	2500	96	2550	2500	102	75 - 130	6	30

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Results flagged with a pound (#) indicate the control criteria is not applicable.

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ALS Group USA, Corp. dba ALS Environmental

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/ 9/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	FTMM-68-GW-565MW01D-22.31MS Matrix Spike RQ1412440-05 Result	Spike Amount	% Rec	FTMM-68-GW-565MW01D-22.31DMS Duplicate Matrix Spike RQ1412440-06 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone	ND	2970	2500	119	2960	2500	118	60 - 135	<1	30
Acetone	ND	1910	2500	76	1880	2500	75	40 - 140	1	30
Benzene	ND	2430	2500	97	2600	2500	104	80 - 120	7	30
Bromobenzene	ND	2460	2500	98	2590	2500	104	75 - 125	5	30
Bromochloromethane	ND	2240	2500	90	2420	2500	97	65 - 130	8	30
Bromodichloromethane	ND	2690	2500	108	2840	2500	114	75 - 120	6	30
Bromoform	ND	2640	2500	106	2880	2500	115	70 - 130	8	30
Bromomethane	ND	1740	2500	70	2200	2500	88	30 - 145	23	30
Carbon Tetrachloride	ND	2620	2500	105	2870	2500	115	65 - 140	9	30
Chlorobenzene	ND	2410	2500	97	2570	2500	103	80 - 120	6	30
Chloroethane	ND	2310	2500	92	2440	2500	98	60 - 135	6	30
Chloroform	ND	2450	2500	98	2600	2500	104	65 - 135	6	30
Chloromethane	ND	2380	2500	95	2490	2500	99	40 - 125	4	30
Dibromochloromethane	ND	2630	2500	105	2800	2500	112	60 - 135	6	30
Dichlorodifluoromethane (CFC 12)	ND	2500	2500	100	2600	2500	104	30 - 155	4	30
Methylene Chloride	ND	2330	2500	93	2460	2500	98	55 - 140	5	30
Ethylbenzene	ND	2250	2500	90	2430	2500	97	75 - 125	8	30
Hexachlorobutadiene	ND	2520	2500	101	2850	2500	114	50 - 140	12	30
Isopropylbenzene (Cumene)	ND	2530	2500	101	2670	2500	107	75 - 125	5	30
Methyl tert-Butyl Ether	ND	2650	2500	106	2840	2500	114	65 - 125	7	30
Naphthalene	ND	2700	2500	108	2980	2500	119	55 - 140	10	30
Styrene	ND	2570	2500	103	2730	2500	109	65 - 135	6	30
Tetrachloroethene (PCE)	4800	6330	2500	62	6660	2500	76	45 - 150	5	30
Toluene	ND	2400	2500	96	2540	2500	102	75 - 120	6	30
Trichloroethene (TCE)	18	2350	2500	93	2520	2500	100	70 - 125	7	30
Trichlorofluoromethane (CFC 11)	ND	2450	2500	98	2650	2500	106	60 - 145	8	30
Vinyl Chloride	ND	2210	2500	88	2330	2500	93	50 - 145	5	30

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

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/ 9/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	FTMM-68-GW-565MW01D-22.31MS Matrix Spike RQ1412440-05 Result	Spike Amount	% Rec	FTMM-68-GW-565MW01D-22.31DMS Duplicate Matrix Spike RQ1412440-06 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND	2290	2500	92	2410	2500	96	70 - 125	5	30
cis-1,3-Dichloropropene	ND	2670	2500	107	2830	2500	113	70 - 130	6	30
m,p-Xylenes	ND	4910	5000	98	5290	5000	106	75 - 130	8	30
n-Butylbenzene	ND	2510	2500	100	2670	2500	107	70 - 135	6	30
n-Propylbenzene	ND	2580	2500	103	2680	2500	107	70 - 130	4	30
o-Xylene	ND	2470	2500	99	2620	2500	105	80 - 120	6	30
sec-Butylbenzene	ND	2350	2500	94	2480	2500	99	70 - 125	5	30
tert-Butylbenzene	ND	2370	2500	95	2490	2500	99	70 - 130	5	30
trans-1,2-Dichloroethene	ND	2260	2500	91	2430	2500	97	60 - 140	7	30
trans-1,3-Dichloropropene	ND	2890	2500	116	3070	2500	123	55 - 140	6	30

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

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/ 9/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 415420

Lab Control Sample
RQ1412440-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	19.4	20.0	97	80 - 130
1,1,1-Trichloroethane (TCA)	19.3	20.0	97	65 - 130
1,1,2,2-Tetrachloroethane	20.1	20.0	101	65 - 130
1,1,2-Trichloroethane	18.5	20.0	92	75 - 125
1,1-Dichloroethane (1,1-DCA)	17.8	20.0	89	70 - 135
1,1-Dichloroethene (1,1-DCE)	20.3	20.0	102	70 - 130
1,1-Dichloropropene	20.1	20.0	100	75 - 130
1,2,3-Trichlorobenzene	21.8	20.0	109	75 - 125
1,2,3-Trichloropropane	19.6	20.0	98	75 - 125
1,2,4-Trichlorobenzene	19.8	20.0	99	65 - 135
1,2,4-Trimethylbenzene	19.1	20.0	95	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	21.0	20.0	105	50 - 130
1,2-Dibromoethane	20.9	20.0	104	80 - 120
1,2-Dichlorobenzene	18.5	20.0	92	70 - 120
1,2-Dichloroethane	20.2	20.0	101	70 - 130
1,2-Dichloropropane	19.1	20.0	96	75 - 125
1,3,5-Trimethylbenzene	18.9	20.0	94	75 - 130
1,3-Dichlorobenzene	18.6	20.0	93	75 - 125
1,3-Dichloropropane	20.2	20.0	101	75 - 125
1,4-Dichlorobenzene	18.4	20.0	92	75 - 125
2,2-Dichloropropane	19.9	20.0	100	70 - 135
2-Butanone (MEK)	17.8	20.0	89	30 - 150
2-Chlorotoluene	19.6	20.0	98	75 - 125
2-Hexanone	19.2	20.0	96	55 - 130
tert-Butyl Alcohol	397	400	99	50 - 150
4-Chlorotoluene	19.9	20.0	99	75 - 130
p-Isopropyltoluene	18.7	20.0	94	75 - 130
4-Methyl-2-pentanone	19.3	20.0	96	60 - 135
Acetone	16.1	20.0	81	40 - 140
Benzene	19.0	20.0	95	80 - 120
Bromobenzene	19.2	20.0	96	75 - 125
Bromochloromethane	17.1	20.0	85	65 - 130
Bromodichloromethane	20.6	20.0	103	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/ 9/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 415420

Lab Control Sample
RQ1412440-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	20.7	20.0	103	70 - 130
Bromomethane	20.9	20.0	105	30 - 145
Carbon Tetrachloride	20.2	20.0	101	65 - 140
Chlorobenzene	18.9	20.0	94	80 - 120
Chloroethane	17.7	20.0	88	60 - 135
Chloroform	18.7	20.0	93	65 - 135
Chloromethane	17.8	20.0	89	40 - 125
Dibromochloromethane	21.0	20.0	105	60 - 135
Dichlorodifluoromethane (CFC 12)	18.5	20.0	92	30 - 155
Methylene Chloride	18.5	20.0	92	55 - 140
Ethylbenzene	17.3	20.0	87	75 - 125
Hexachlorobutadiene	23.4	20.0	117	50 - 140
Isopropylbenzene (Cumene)	19.1	20.0	95	75 - 125
Methyl tert-Butyl Ether	19.7	20.0	99	65 - 125
Naphthalene	19.3	20.0	97	55 - 140
Styrene	19.6	20.0	98	65 - 135
Tetrachloroethene (PCE)	20.7	20.0	103	45 - 150
Toluene	18.6	20.0	93	75 - 120
Trichloroethene (TCE)	18.1	20.0	90	70 - 125
Trichlorofluoromethane (CFC 11)	18.6	20.0	93	60 - 145
Vinyl Chloride	16.9	20.0	84	50 - 145
cis-1,2-Dichloroethene	17.7	20.0	88	70 - 125
cis-1,3-Dichloropropene	20.8	20.0	104	70 - 130
m,p-Xylenes	37.8	40.0	94	75 - 130
n-Butylbenzene	19.6	20.0	98	70 - 135
n-Propylbenzene	19.9	20.0	100	70 - 130
o-Xylene	18.7	20.0	94	80 - 120
sec-Butylbenzene	18.4	20.0	92	70 - 125
tert-Butylbenzene	18.0	20.0	90	70 - 130
trans-1,2-Dichloroethene	17.2	20.0	86	60 - 140
trans-1,3-Dichloropropene	22.3	20.0	112	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/14/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 416090

Analyte Name	Lab Control Sample RQ1412540-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	20.9	20.0	105	80 - 130
1,1,1-Trichloroethane (TCA)	21.5	20.0	108	65 - 130
1,1,2,2-Tetrachloroethane	22.0	20.0	110	65 - 130
1,1,2-Trichloroethane	21.7	20.0	108	75 - 125
1,1-Dichloroethane (1,1-DCA)	20.4	20.0	102	70 - 135
1,1-Dichloroethene (1,1-DCE)	23.4	20.0	117	70 - 130
1,1-Dichloropropene	23.0	20.0	115	75 - 130
1,2,3-Trichlorobenzene	22.0	20.0	110	75 - 125
1,2,3-Trichloropropane	20.7	20.0	104	75 - 125
1,2,4-Trichlorobenzene	20.7	20.0	104	65 - 135
1,2,4-Trimethylbenzene	19.9	20.0	100	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	21.3	20.0	107	50 - 130
1,2-Dibromoethane	22.7	20.0	114	80 - 120
1,2-Dichlorobenzene	19.8	20.0	99	70 - 120
1,2-Dichloroethane	23.3	20.0	117	70 - 130
1,2-Dichloropropane	21.4	20.0	107	75 - 125
1,3,5-Trimethylbenzene	19.7	20.0	98	75 - 130
1,3-Dichlorobenzene	19.8	20.0	99	75 - 125
1,3-Dichloropropane	22.0	20.0	110	75 - 125
1,4-Dichlorobenzene	19.9	20.0	100	75 - 125
2,2-Dichloropropane	22.7	20.0	114	70 - 135
2-Butanone (MEK)	20.4	20.0	102	30 - 150
2-Chlorotoluene	20.4	20.0	102	75 - 125
2-Hexanone	21.0	20.0	105	55 - 130
tert-Butyl Alcohol	477	400	119	50 - 150
4-Chlorotoluene	20.7	20.0	104	75 - 130
p-Isopropyltoluene	19.6	20.0	98	75 - 130
4-Methyl-2-pentanone	21.3	20.0	106	60 - 135
Acetone	20.4	20.0	102	40 - 140
Benzene	21.3	20.0	107	80 - 120
Bromobenzene	20.5	20.0	103	75 - 125
Bromochloromethane	20.8	20.0	104	65 - 130
Bromodichloromethane	23.8	20.0	119	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/14/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 416090

Lab Control Sample
RQ1412540-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	23.0	20.0	115	70 - 130
Bromomethane	24.4	20.0	122	30 - 145
Carbon Tetrachloride	22.6	20.0	113	65 - 140
Chlorobenzene	20.4	20.0	102	80 - 120
Chloroethane	20.3	20.0	101	60 - 135
Chloroform	21.4	20.0	107	65 - 135
Chloromethane	21.6	20.0	108	40 - 125
Dibromochloromethane	23.3	20.0	117	60 - 135
Dichlorodifluoromethane (CFC 12)	21.4	20.0	107	30 - 155
Methylene Chloride	21.6	20.0	108	55 - 140
Ethylbenzene	19.3	20.0	96	75 - 125
Hexachlorobutadiene	23.7	20.0	118	50 - 140
Isopropylbenzene (Cumene)	20.6	20.0	103	75 - 125
Methyl tert-Butyl Ether	22.8	20.0	114	65 - 125
Naphthalene	20.8	20.0	104	55 - 140
Styrene	21.5	20.0	107	65 - 135
Tetrachloroethene (PCE)	21.3	20.0	107	45 - 150
Toluene	20.5	20.0	103	75 - 120
Trichloroethene (TCE)	20.0	20.0	100	70 - 125
Trichlorofluoromethane (CFC 11)	21.5	20.0	108	60 - 145
Vinyl Chloride	19.7	20.0	98	50 - 145
cis-1,2-Dichloroethene	20.4	20.0	102	70 - 125
cis-1,3-Dichloropropene	24.9	20.0	125	70 - 130
m,p-Xylenes	41.6	40.0	104	75 - 130
n-Butylbenzene	20.5	20.0	103	70 - 135
n-Propylbenzene	20.7	20.0	103	70 - 130
o-Xylene	20.5	20.0	102	80 - 120
sec-Butylbenzene	19.0	20.0	95	70 - 125
tert-Butylbenzene	18.9	20.0	95	70 - 130
trans-1,2-Dichloroethene	20.5	20.0	102	60 - 140
trans-1,3-Dichloropropene	25.2	20.0	126	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.

October 24, 2014 Service Request No: R1407806

Tammy Chang
Parsons, Inc.
8000 Centre Park Drive, Suite 200
Austin, TX 78754

Laboratory Results for: FTMM 3 Quarter 2014/748810-03000

Dear Tammy:

Enclosed are the results of the sample(s) submitted to our laboratory on October 3, 2014. For your reference, these analyses have been assigned our service request number **R1407806**.

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
Client Services Manager

CC: Sandra de las Fuentes

ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623 PHONE 585-288-5380 | FAX 585-288-8475
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Parsons, Inc.
R1407806

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VOA QC Summary	00017
VOA Sample Data	00040
VOA Standards Data	00340
VOA Raw QC Data	00565

ALS Environmental

SDG NARRATIVE

ALS Environmental - Rochester, NY
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CASE NARRATIVE

Client:	Parsons Engineering Science	**Service Request No.:**	R1407806
Project:	FTMM 3Q 2014	**Project No.:**	748810-03000
Sample Matrix:	Water	**Date Received:**	10/03/14

General Comments

The DOD QSM 4.1 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 4.1.

Sample Receipt

Samples were collected on 9/30/14 and received in good condition at a cooler temperature of 3.6°C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the batching form for a cross-reference between Client ID and ALS Job #.

Volatile Organics

Nineteen 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 and continuing calibration criteria were met for all analytes.

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

The Blank Spike (LCS) recoveries were all acceptable.

A Matrix Spike/Matrix spike duplicate (MS/MSD) was performed on FTMM-53-GW-699MW06-10.2 and FTMM-68-GW-565MW01D-22.31. All outlying QC has been flagged with an "*".

The Method Blanks associated with these samples were free of contamination except the 10/9/14 blank had low level detections for 1,2,4-Trichlorobenzene and Naphthalene and the 10/14/14 blank had a low level detection for Bromomethane. No data was affected.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 748810-03000	Batch Complete: Yes	Date Revised:
Submission: R1407806	Diskette Requested: No	Date Due: 10/24/14
Client: Parsons Engineering Science	Date: 10/3/14	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: FTMM 3 Quarter 2014	Chain of Custody: Present/Absent:	SDG #: FTMM-53-GW-699MW16-6.5

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1407806-001	FTMM-53-GW-699MW16-6.5	Water	8260C	9/30/14	10/3/14			
R1407806-002	FTMM-53-GW-699MW09-7.75	Water	8260C	9/30/14	10/3/14			
R1407806-003QC	FTMM-53-GW-699MW06-10.2	Water	8260C	9/30/14	10/3/14			
R1407806-004	FTMM-53-GW-699RW05-4.8	Water	8260C	9/30/14	10/3/14			
R1407806-005	FTMM-53-GW-699MW01-7.5	Water	8260C	9/30/14	10/3/14			
R1407806-006	FTMM-53-GW-699MW04-6.85	Water	8260C	9/30/14	10/3/14			
R1407806-007	FTMM-53-GW-699RW03-8.2	Water	8260C	9/30/14	10/3/14			
R1407806-008	FTMM-53-GW-699RW11-8.3	Water	8260C	9/30/14	10/3/14			
R1407806-009	FTMM-53-GW-699MW106-10.2	Water	8260C	9/30/14	10/3/14			
R1407806-010	FTMM-68-GW-565MW01-11.99	Water	8260C	9/30/14	10/3/14			
R1407806-011	FTMM-68-GW-565MW01D-22.31	Water	8260C	9/30/14	10/3/14			
R1407806-012	FTMM-TB-093014	Water	8260C	9/30/14	10/3/14			
R1407806-013	FTMM-22-GW-CW1MW281-38.74	Water	8260C	9/30/14	10/3/14			
R1407806-014	FTMM-22-GW-CW1MW28-11.21	Water	8260C	9/30/14	10/3/14			
R1407806-015	FTMM-22-GW-CW1MW37-11.78	Water	8260C	9/30/14	10/3/14			
R1407806-016	FTMM-22-GW-CW1MW28I-33.74	Water	8260C	9/30/14	10/3/14			
R1407806-017	FTMM-22-GW-CW1MW27-12.63	Water	8260C	9/30/14	10/3/14			
R1407806-018	FTMM-22-GW-CW1MW29-10.85	Water	8260C	9/30/14	10/3/14			
R1407806-019	FTMM-22-GW-CW1MW31-16.40	Water	8260C	9/30/14	10/3/14			

Folder Comments: DoD reporting

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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]

NELAP Accredited	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Connecticut ID # PH0556	Nebraska Accredited	
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
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		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 laboratory case narrative provided. For a specific list of accredited analytes, refer to
http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Environmental

CHAINS OF CUSTODY

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1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

19156

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Project Name: FTMM 3 Quarter 2014	Project Number:
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High street, Boston, MA 02210	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: C. Watton, N. Loizos, J. McDougall

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP	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-699MW16-6.5		9/30/14	1005	GW	3	X							
FTMM-53-GW-699MW09-7.75			1010	GW	3	X							
FTMM-53-GW-699MW06-10.2-MSD			1045	GW	3	X							
FTMM-53-GW-699MW06-10.2-MS			1045	GW	3	X							
FTMM-53-GW-699MW06-10.2			1045	GW	3	X							
FTMM-53-GW-699RW05-4.8			1055	GW	3	X							
FTMM-53-GW-699MW01-7.5			1033	GW	3	X							
FTMM-53-GW-699MW04-6.85			1058	GW	3	X							
FTMM-53-GW-699RW03-8.2			1030	GW	3	X							
FTMM-53-GW-699RW11-8.3			1038	GW	3	X							
FTMM-53-GW-699MW06-10.2			1030	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
STANDARD
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

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Nick Loizos	Printed Name: J. Seward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 10/2/14 @ 1730	Date/Time: 10/3/14 1020	Date/Time	Date/Time	Date/Time	Date/Time

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FTMM 3 Quarter 2014

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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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Project Name: Ftmm 3rd quarter 2014	Project Number: 745810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, Boston, MA 02210	
Phone #: 617-449-1583	Email: cris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP | GC/MS SVOAs ◦ 8270 ◦ 625 | GC VOAs ◦ 8021 ◦ 601/602 | PESTICIDES ◦ 8081 ◦ 608 | PCB's ◦ 8082 ◦ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below)

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

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs	REMARKS/ ALTERNATE DESCRIPTION
Ftmm-68-GW-565MW01-11.99		9/30/14	1015	GW	3	X	
Ftmm-68-GW-565MW01D-22.31		9/30/14	1018	GW	3	X	
Ftmm-TB-093014		9/30/14	—	TB	3	X	
Ftmm-22-GW-CW1MW28I-33.74		9/30/14	1254	GW	3	X	
Ftmm-22-GW-CW1MW28-11.21		9/30/14	1306	GW	3	X	
Ftmm-22-GW-CW1MW37-11.78		9/30/14	1310	GW	3	X	
Ftmm-22-GW-CW1MW28I-33.74		9/30/14	1252	GW	3	X	
Ftmm-22-GW-CW1MW27-12.63		9/30/14	1249	GW	3	X	
Ftmm-22-GW-CW1MW29-10.85		9/30/14	1257	GW	3	X	
Ftmm-22-GW-CW1MW31-16.40		9/30/14	1302	GW	3	X	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

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

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature						
Printed Name	Dick Cobcus	J. Sewell				
Firm	Parsons	ALS				
Date/Time	10/3/14 @ 1730	10/3/14 1020				

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

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Cooler Receipt and Preservation Check Form

Project/Client Parsons. Folder Number 401-7806.

Cooler received on 10/3 by: SG3 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: 10/3 Time: 1103 ID: (IR#3) IR#4 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	3.8	8.7					
Correction Factor (°C)	~~-0.2~~	+0.1					
Corrected Temp (°C)	3.6	8.8					
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: RWR by JH on 10/3 at 1103
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JHH 10/3/14

Cooler Breakdown: Date: 10/3/14 Time: 1631 by: JHS

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	**	**	411370	5/15				

**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: 4-162-002
Other Comments:

* TRIP BLANK + EQUIP BLANK – 1 VIAL w/ headspace

R1407806 5
Parsons, Inc.
FTMM 3 Quarter 2014

PC Secondary Review: JHH 10/7/14 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r7.doc 5/6/14

Client: Parsons, Inc.
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1407806-001.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1231	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-001.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-001.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-002.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1231	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-002.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-002.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-003.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/14/14	1137	In Lab / FNAEGLER	
		10/14/14	1646	R-001-S10 / BWOJTASIEWICZ	
R1407806-003.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-003.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	

Client: Parsons, Inc.
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1407806-003.04					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-003.05					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-003.06					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-003.07					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-003.08					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-003.09					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-004.01					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-004.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-004.03					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-005.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Parsons, Inc.
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1407806-005.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-005.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-006.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-006.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-006.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-007.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1235	R-001-S10 / FNAEGLER	
R1407806-007.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-007.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-008.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	

Client: Parsons, Inc.
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1407806-008.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-008.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-009.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1619	R-001-S10 / BWOJTASIEWICZ	
		10/14/14	1137	In Lab / FNAEGLER	
		10/14/14	1647	R-001-S10 / BWOJTASIEWICZ	
R1407806-009.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-009.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-010.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1619	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-010.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-010.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-011.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1619	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1231	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	

Client: Parsons, Inc.
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1407806-011.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-011.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-012.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1618	R-001-S10 / BWOJTASIEWICZ	
		10/14/14	1137	In Lab / FNAEGLER	
		10/14/14	1646	R-001-S10 / BWOJTASIEWICZ	
R1407806-012.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-012.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-013.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1619	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-013.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-013.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-014.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1619	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	

00014

Client: Parsons, Inc.
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-014.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-014.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-015.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1533	In Lab / FNAEGLER	
		10/7/14	1619	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1232	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-015.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-015.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-016.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1620	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1231	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-016.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-016.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-017.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1620	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1231	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	

00015

Client: Parsons, Inc.
Project: FTMM 3 Quarter 2014/748810-03000
Service Request: R1407806

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1407806-017.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-017.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-018.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1620	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1231	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-018.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-018.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-019.01					
	8260C				
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
		10/7/14	1620	R-001-S10 / BWOJTASIEWICZ	
		10/9/14	1231	In Lab / FNAEGLER	
		10/9/14	1234	R-001-S10 / FNAEGLER	
R1407806-019.02					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	
R1407806-019.03					
		10/3/14	1602	SMO / DWARD	
		10/3/14	1602	R-001 / DWARD	

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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00017

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1412540-07			FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1412540-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	51.3	50.0	103	51.5	50.0	103	80 - 130	<1	30
1,1,1-Trichloroethane (TCA)	ND	57.7	50.0	115	57.2	50.0	114	65 - 130	<1	30
1,1,2,2-Tetrachloroethane	ND	51.0	50.0	102	52.8	50.0	106	65 - 130	3	30
1,1,2-Trichloroethane	ND	53.6	50.0	107	52.8	50.0	106	75 - 125	2	30
1,1-Dichloroethane (1,1-DCA)	ND	52.1	50.0	104	51.9	50.0	104	70 - 135	<1	30
1,1-Dichloroethene (1,1-DCE)	ND	60.5	50.0	121	59.5	50.0	119	70 - 130	2	30
1,1-Dichloropropene	ND	56.8	50.0	114	57.5	50.0	115	75 - 130	1	30
1,2,3-Trichlorobenzene	ND	54.3	50.0	108	54.1	50.0	108	75 - 125	<1	30
1,2,3-Trichloropropane	ND	49.0	50.0	98	49.0	50.0	98	75 - 125	<1	30
1,2,4-Trichlorobenzene	ND	50.5	50.0	101	51.5	50.0	103	65 - 135	2	30
1,2,4-Trimethylbenzene	54	117	50.0	126	107	50.0	104	75 - 130	9	30
1,2-Dibromo-3-chloropropane (DBC	ND	56.0	50.0	112	57.6	50.0	115	50 - 130	3	30
1,2-Dibromoethane	ND	53.5	50.0	107	53.8	50.0	108	80 - 120	<1	30
1,2-Dichlorobenzene	ND	47.0	50.0	94	46.9	50.0	94	70 - 120	<1	30
1,2-Dichloroethane	ND	55.7	50.0	111	56.0	50.0	112	70 - 130	<1	30
1,2-Dichloropropane	ND	53.7	50.0	107	55.3	50.0	111	75 - 125	3	30
1,3,5-Trimethylbenzene	5.7	58.8	50.0	106	55.3	50.0	99	75 - 130	6	30
1,3-Dichlorobenzene	ND	47.2	50.0	94	48.6	50.0	97	75 - 125	3	30
1,3-Dichloropropane	ND	52.4	50.0	105	53.3	50.0	107	75 - 125	2	30
1,4-Dichlorobenzene	ND	47.3	50.0	95	47.3	50.0	95	75 - 125	<1	30
2,2-Dichloropropane	ND	49.4	50.0	99	49.0	50.0	98	70 - 135	<1	30
2-Butanone (MEK)	ND	48.8	50.0	98	49.4	50.0	99	30 - 150	1	30
2-Chlorotoluene	ND	56.4	50.0	113	55.4	50.0	111	75 - 125	2	30
2-Hexanone	ND	51.3	50.0	103	51.8	50.0	104	55 - 130	<1	30
tert-Butyl Alcohol	ND	1220	1000	122	1210	1000	121	50 - 150	<1	30
4-Chlorotoluene	ND	51.1	50.0	102	50.9	50.0	102	75 - 130	<1	30
p-Isopropyltoluene	ND	48.9	50.0	98	49.0	50.0	98	75 - 130	<1	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1412540-07				FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1412540-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**		**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4-Methyl-2-pentanone	ND	55.8	50.0	112		56.5	50.0	113	60 - 135	1	30
Acetone	12	51.8	50.0	80		52.3	50.0	81	40 - 140	<1	30
Benzene	9.0	65.2	50.0	112		63.9	50.0	110	80 - 120	2	30
Bromobenzene	ND	49.4	50.0	99		50.3	50.0	101	75 - 125	2	30
Bromochloromethane	ND	48.5	50.0	97		48.3	50.0	97	65 - 130	<1	30
Bromodichloromethane	ND	58.4	50.0	117		59.0	50.0	118	75 - 120	<1	30
Bromoform	ND	54.2	50.0	108		55.5	50.0	111	70 - 130	2	30
Bromomethane	ND	54.3	50.0	109		54.4	50.0	109	30 - 145	<1	30
Carbon Tetrachloride	ND	57.9	50.0	116		58.7	50.0	117	65 - 140	1	30
Chlorobenzene	ND	49.7	50.0	99		50.2	50.0	100	80 - 120	<1	30
Chloroethane	ND	52.0	50.0	104		52.0	50.0	104	60 - 135	<1	30
Chloroform	ND	54.8	50.0	110		54.4	50.0	109	65 - 135	<1	30
Chloromethane	ND	54.7	50.0	109		54.0	50.0	108	40 - 125	1	30
Dibromochloromethane	ND	53.4	50.0	107		54.0	50.0	108	60 - 135	1	30
Dichlorodifluoromethane (CFC 12)	ND	55.2	50.0	110		53.6	50.0	107	30 - 155	3	30
Methylene Chloride	ND	51.0	50.0	102		50.9	50.0	102	55 - 140	<1	30
Ethylbenzene	140	223	50.0	161	*	193	50.0	101	75 - 125	14	30
Hexachlorobutadiene	ND	55.4	50.0	111		55.8	50.0	112	50 - 140	<1	30
Isopropylbenzene (Cumene)	14	68.0	50.0	107		67.3	50.0	106	75 - 125	1	30
Methyl tert-Butyl Ether	ND	57.5	50.0	115		57.3	50.0	115	65 - 125	<1	30
Naphthalene	22	84.5	50.0	125		79.4	50.0	115	55 - 140	6	30
Styrene	ND	51.8	50.0	104		51.8	50.0	104	65 - 135	<1	30
Tetrachloroethene (PCE)	ND	53.6	50.0	107		52.6	50.0	105	45 - 150	2	30
Toluene	1.5	54.7	50.0	106		54.9	50.0	107	75 - 120	<1	30
Trichloroethene (TCE)	ND	51.1	50.0	102		52.2	50.0	104	70 - 125	2	30
Trichlorofluoromethane (CFC 11)	ND	55.2	50.0	110		55.5	50.0	111	60 - 145	<1	30
Vinyl Chloride	ND	51.7	50.0	103		49.8	50.0	100	50 - 145	4	30

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

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	FTMM-53-GW-699MW06-10.2 MS Matrix Spike RQ1412540-07 Result	Spike Amount	% Rec		FTMM-53-GW-699MW06-10.2 DMS Duplicate Matrix Spike RQ1412540-08 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND	51.2	50.0	102		51.1	50.0	102	70 - 125	<1	30
cis-1,3-Dichloropropene	ND	58.0	50.0	116		58.8	50.0	118	70 - 130	1	30
m,p-Xylenes	120	286	100	161	*	229	100	105	75 - 130	22	30
n-Butylbenzene	0.27	52.2	50.0	104		52.6	50.0	105	70 - 135	<1	30
n-Propylbenzene	11	67.6	50.0	113		64.5	50.0	107	70 - 130	5	30
o-Xylene	9.3	63.4	50.0	108		61.1	50.0	104	80 - 120	4	30
sec-Butylbenzene	0.48	48.3	50.0	96		49.2	50.0	97	70 - 125	2	30
tert-Butylbenzene	ND	48.9	50.0	98		49.7	50.0	99	70 - 130	2	30
trans-1,2-Dichloroethene	ND	52.6	50.0	105		51.3	50.0	103	60 - 140	3	30
trans-1,3-Dichloropropene	ND	63.4	50.0	127		61.8	50.0	124	55 - 140	3	30

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Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/ 9/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-68-GW-565MW01D-22 .31MS Matrix Spike RQ1412440-05			FTMM-68-GW-565MW01D-22 .31DMS Duplicate Matrix Spike RQ1412440-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1,2-Tetrachloroethane	ND	2500	2500	100	2680	2500	107	80 - 130	7	30
1,1,1-Trichloroethane (TCA)	ND	2550	2500	102	2710	2500	108	65 - 130	6	30
1,1,2,2-Tetrachloroethane	ND	2730	2500	109	2860	2500	114	65 - 130	5	30
1,1,2-Trichloroethane	ND	2540	2500	101	2650	2500	106	75 - 125	4	30
1,1-Dichloroethane (1,1-DCA)	ND	2320	2500	93	2480	2500	99	70 - 135	6	30
1,1-Dichloroethene (1,1-DCE)	ND	2650	2500	106	2810	2500	113	70 - 130	6	30
1,1-Dichloropropene	ND	2610	2500	104	2800	2500	112	75 - 130	7	30
1,2,3-Trichlorobenzene	ND	2590	2500	104	2970	2500	119	75 - 125	13	30
1,2,3-Trichloropropane	ND	2620	2500	105	2680	2500	107	75 - 125	3	30
1,2,4-Trichlorobenzene	ND	2510	2500	100	2760	2500	111	65 - 135	10	30
1,2,4-Trimethylbenzene	ND	2480	2500	99	2580	2500	103	75 - 130	4	30
1,2-Dibromo-3-chloropropane (DBC	ND	3070	2500	123	3270	2500	131 *	50 - 130	6	30
1,2-Dibromoethane	ND	2720	2500	109	2870	2500	115	80 - 120	5	30
1,2-Dichlorobenzene	ND	2390	2500	96	2540	2500	101	70 - 120	6	30
1,2-Dichloroethane	ND	2720	2500	109	2840	2500	114	70 - 130	4	30
1,2-Dichloropropane	ND	2520	2500	101	2680	2500	107	75 - 125	6	30
1,3,5-Trimethylbenzene	ND	2430	2500	97	2560	2500	103	75 - 130	5	30
1,3-Dichlorobenzene	ND	2390	2500	96	2510	2500	100	75 - 125	5	30
1,3-Dichloropropane	ND	2610	2500	104	2810	2500	112	75 - 125	7	30
1,4-Dichlorobenzene	ND	2330	2500	93	2480	2500	99	75 - 125	6	30
2,2-Dichloropropane	ND	2350	2500	94	2410	2500	96	70 - 135	2	30
2-Butanone (MEK)	ND	2510	2500	100	2580	2500	103	30 - 150	3	30
2-Chlorotoluene	ND	2490	2500	100	2640	2500	106	75 - 125	6	30
2-Hexanone	ND	2850	2500	114	2930	2500	117	55 - 130	3	30
tert-Butyl Alcohol	ND	57500	50000	115	63300	50000	127	50 - 150	10	30
4-Chlorotoluene	ND	2500	2500	100	2610	2500	104	75 - 130	4	30
p-Isopropyltoluene	ND	2410	2500	96	2550	2500	102	75 - 130	6	30

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Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/ 9/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	FTMM-68-GW-565MW01D-22.31MS Matrix Spike RQ1412440-05 Result	Spike Amount	% Rec	FTMM-68-GW-565MW01D-22.31DMS Duplicate Matrix Spike RQ1412440-06 Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone	ND	2970	2500	119	2960	2500	118	60 - 135	<1	30
Acetone	ND	1910	2500	76	1880	2500	75	40 - 140	1	30
Benzene	ND	2430	2500	97	2600	2500	104	80 - 120	7	30
Bromobenzene	ND	2460	2500	98	2590	2500	104	75 - 125	5	30
Bromochloromethane	ND	2240	2500	90	2420	2500	97	65 - 130	8	30
Bromodichloromethane	ND	2690	2500	108	2840	2500	114	75 - 120	6	30
Bromoform	ND	2640	2500	106	2880	2500	115	70 - 130	8	30
Bromomethane	ND	1740	2500	70	2200	2500	88	30 - 145	23	30
Carbon Tetrachloride	ND	2620	2500	105	2870	2500	115	65 - 140	9	30
Chlorobenzene	ND	2410	2500	97	2570	2500	103	80 - 120	6	30
Chloroethane	ND	2310	2500	92	2440	2500	98	60 - 135	6	30
Chloroform	ND	2450	2500	98	2600	2500	104	65 - 135	6	30
Chloromethane	ND	2380	2500	95	2490	2500	99	40 - 125	4	30
Dibromochloromethane	ND	2630	2500	105	2800	2500	112	60 - 135	6	30
Dichlorodifluoromethane (CFC 12)	ND	2500	2500	100	2600	2500	104	30 - 155	4	30
Methylene Chloride	ND	2330	2500	93	2460	2500	98	55 - 140	5	30
Ethylbenzene	ND	2250	2500	90	2430	2500	97	75 - 125	8	30
Hexachlorobutadiene	ND	2520	2500	101	2850	2500	114	50 - 140	12	30
Isopropylbenzene (Cumene)	ND	2530	2500	101	2670	2500	107	75 - 125	5	30
Methyl tert-Butyl Ether	ND	2650	2500	106	2840	2500	114	65 - 125	7	30
Naphthalene	ND	2700	2500	108	2980	2500	119	55 - 140	10	30
Styrene	ND	2570	2500	103	2730	2500	109	65 - 135	6	30
Tetrachloroethene (PCE)	4800	6330	2500	62	6660	2500	76	45 - 150	5	30
Toluene	ND	2400	2500	96	2540	2500	102	75 - 120	6	30
Trichloroethene (TCE)	18	2350	2500	93	2520	2500	100	70 - 125	7	30
Trichlorofluoromethane (CFC 11)	ND	2450	2500	98	2650	2500	106	60 - 145	8	30
Vinyl Chloride	ND	2210	2500	88	2330	2500	93	50 - 145	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/ 9/14

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-68-GW-565MW01D-22.31MS Matrix Spike RQ1412440-05			FTMM-68-GW-565MW01D-22.31DMS Duplicate Matrix Spike RQ1412440-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
cis-1,2-Dichloroethene	ND	2290	2500	92	2410	2500	96	70 - 125	5	30
cis-1,3-Dichloropropene	ND	2670	2500	107	2830	2500	113	70 - 130	6	30
m,p-Xylenes	ND	4910	5000	98	5290	5000	106	75 - 130	8	30
n-Butylbenzene	ND	2510	2500	100	2670	2500	107	70 - 135	6	30
n-Propylbenzene	ND	2580	2500	103	2680	2500	107	70 - 130	4	30
o-Xylene	ND	2470	2500	99	2620	2500	105	80 - 120	6	30
sec-Butylbenzene	ND	2350	2500	94	2480	2500	99	70 - 125	5	30
tert-Butylbenzene	ND	2370	2500	95	2490	2500	99	70 - 130	5	30
trans-1,2-Dichloroethene	ND	2260	2500	91	2430	2500	97	60 - 140	7	30
trans-1,3-Dichloropropene	ND	2890	2500	116	3070	2500	123	55 - 140	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/ 9/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 415420

Lab Control Sample
RQ1412440-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	19.4	20.0	97	80 - 130
1,1,1-Trichloroethane (TCA)	19.3	20.0	97	65 - 130
1,1,2,2-Tetrachloroethane	20.1	20.0	101	65 - 130
1,1,2-Trichloroethane	18.5	20.0	92	75 - 125
1,1-Dichloroethane (1,1-DCA)	17.8	20.0	89	70 - 135
1,1-Dichloroethene (1,1-DCE)	20.3	20.0	102	70 - 130
1,1-Dichloropropene	20.1	20.0	100	75 - 130
1,2,3-Trichlorobenzene	21.8	20.0	109	75 - 125
1,2,3-Trichloropropane	19.6	20.0	98	75 - 125
1,2,4-Trichlorobenzene	19.8	20.0	99	65 - 135
1,2,4-Trimethylbenzene	19.1	20.0	95	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	21.0	20.0	105	50 - 130
1,2-Dibromoethane	20.9	20.0	104	80 - 120
1,2-Dichlorobenzene	18.5	20.0	92	70 - 120
1,2-Dichloroethane	20.2	20.0	101	70 - 130
1,2-Dichloropropane	19.1	20.0	96	75 - 125
1,3,5-Trimethylbenzene	18.9	20.0	94	75 - 130
1,3-Dichlorobenzene	18.6	20.0	93	75 - 125
1,3-Dichloropropane	20.2	20.0	101	75 - 125
1,4-Dichlorobenzene	18.4	20.0	92	75 - 125
2,2-Dichloropropane	19.9	20.0	100	70 - 135
2-Butanone (MEK)	17.8	20.0	89	30 - 150
2-Chlorotoluene	19.6	20.0	98	75 - 125
2-Hexanone	19.2	20.0	96	55 - 130
tert-Butyl Alcohol	397	400	99	50 - 150
4-Chlorotoluene	19.9	20.0	99	75 - 130
p-Isopropyltoluene	18.7	20.0	94	75 - 130
4-Methyl-2-pentanone	19.3	20.0	96	60 - 135
Acetone	16.1	20.0	81	40 - 140
Benzene	19.0	20.0	95	80 - 120
Bromobenzene	19.2	20.0	96	75 - 125
Bromochloromethane	17.1	20.0	85	65 - 130
Bromodichloromethane	20.6	20.0	103	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/ 9/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 415420

Lab Control Sample
RQ1412440-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	20.7	20.0	103	70 - 130
Bromomethane	20.9	20.0	105	30 - 145
Carbon Tetrachloride	20.2	20.0	101	65 - 140
Chlorobenzene	18.9	20.0	94	80 - 120
Chloroethane	17.7	20.0	88	60 - 135
Chloroform	18.7	20.0	93	65 - 135
Chloromethane	17.8	20.0	89	40 - 125
Dibromochloromethane	21.0	20.0	105	60 - 135
Dichlorodifluoromethane (CFC 12)	18.5	20.0	92	30 - 155
Methylene Chloride	18.5	20.0	92	55 - 140
Ethylbenzene	17.3	20.0	87	75 - 125
Hexachlorobutadiene	23.4	20.0	117	50 - 140
Isopropylbenzene (Cumene)	19.1	20.0	95	75 - 125
Methyl tert-Butyl Ether	19.7	20.0	99	65 - 125
Naphthalene	19.3	20.0	97	55 - 140
Styrene	19.6	20.0	98	65 - 135
Tetrachloroethene (PCE)	20.7	20.0	103	45 - 150
Toluene	18.6	20.0	93	75 - 120
Trichloroethene (TCE)	18.1	20.0	90	70 - 125
Trichlorofluoromethane (CFC 11)	18.6	20.0	93	60 - 145
Vinyl Chloride	16.9	20.0	84	50 - 145
cis-1,2-Dichloroethene	17.7	20.0	88	70 - 125
cis-1,3-Dichloropropene	20.8	20.0	104	70 - 130
m,p-Xylenes	37.8	40.0	94	75 - 130
n-Butylbenzene	19.6	20.0	98	70 - 135
n-Propylbenzene	19.9	20.0	100	70 - 130
o-Xylene	18.7	20.0	94	80 - 120
sec-Butylbenzene	18.4	20.0	92	70 - 125
tert-Butylbenzene	18.0	20.0	90	70 - 130
trans-1,2-Dichloroethene	17.2	20.0	86	60 - 140
trans-1,3-Dichloropropene	22.3	20.0	112	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/14/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 416090

Analyte Name	Lab Control Sample RQ1412540-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	20.9	20.0	105	80 - 130
1,1,1-Trichloroethane (TCA)	21.5	20.0	108	65 - 130
1,1,2,2-Tetrachloroethane	22.0	20.0	110	65 - 130
1,1,2-Trichloroethane	21.7	20.0	108	75 - 125
1,1-Dichloroethane (1,1-DCA)	20.4	20.0	102	70 - 135
1,1-Dichloroethene (1,1-DCE)	23.4	20.0	117	70 - 130
1,1-Dichloropropene	23.0	20.0	115	75 - 130
1,2,3-Trichlorobenzene	22.0	20.0	110	75 - 125
1,2,3-Trichloropropane	20.7	20.0	104	75 - 125
1,2,4-Trichlorobenzene	20.7	20.0	104	65 - 135
1,2,4-Trimethylbenzene	19.9	20.0	100	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	21.3	20.0	107	50 - 130
1,2-Dibromoethane	22.7	20.0	114	80 - 120
1,2-Dichlorobenzene	19.8	20.0	99	70 - 120
1,2-Dichloroethane	23.3	20.0	117	70 - 130
1,2-Dichloropropane	21.4	20.0	107	75 - 125
1,3,5-Trimethylbenzene	19.7	20.0	98	75 - 130
1,3-Dichlorobenzene	19.8	20.0	99	75 - 125
1,3-Dichloropropane	22.0	20.0	110	75 - 125
1,4-Dichlorobenzene	19.9	20.0	100	75 - 125
2,2-Dichloropropane	22.7	20.0	114	70 - 135
2-Butanone (MEK)	20.4	20.0	102	30 - 150
2-Chlorotoluene	20.4	20.0	102	75 - 125
2-Hexanone	21.0	20.0	105	55 - 130
tert-Butyl Alcohol	477	400	119	50 - 150
4-Chlorotoluene	20.7	20.0	104	75 - 130
p-Isopropyltoluene	19.6	20.0	98	75 - 130
4-Methyl-2-pentanone	21.3	20.0	106	60 - 135
Acetone	20.4	20.0	102	40 - 140
Benzene	21.3	20.0	107	80 - 120
Bromobenzene	20.5	20.0	103	75 - 125
Bromochloromethane	20.8	20.0	104	65 - 130
Bromodichloromethane	23.8	20.0	119	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/14/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 416090

Lab Control Sample
RQ1412540-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	23.0	20.0	115	70 - 130
Bromomethane	24.4	20.0	122	30 - 145
Carbon Tetrachloride	22.6	20.0	113	65 - 140
Chlorobenzene	20.4	20.0	102	80 - 120
Chloroethane	20.3	20.0	101	60 - 135
Chloroform	21.4	20.0	107	65 - 135
Chloromethane	21.6	20.0	108	40 - 125
Dibromochloromethane	23.3	20.0	117	60 - 135
Dichlorodifluoromethane (CFC 12)	21.4	20.0	107	30 - 155
Methylene Chloride	21.6	20.0	108	55 - 140
Ethylbenzene	19.3	20.0	96	75 - 125
Hexachlorobutadiene	23.7	20.0	118	50 - 140
Isopropylbenzene (Cumene)	20.6	20.0	103	75 - 125
Methyl tert-Butyl Ether	22.8	20.0	114	65 - 125
Naphthalene	20.8	20.0	104	55 - 140
Styrene	21.5	20.0	107	65 - 135
Tetrachloroethene (PCE)	21.3	20.0	107	45 - 150
Toluene	20.5	20.0	103	75 - 120
Trichloroethene (TCE)	20.0	20.0	100	70 - 125
Trichlorofluoromethane (CFC 11)	21.5	20.0	108	60 - 145
Vinyl Chloride	19.7	20.0	98	50 - 145
cis-1,2-Dichloroethene	20.4	20.0	102	70 - 125
cis-1,3-Dichloropropene	24.9	20.0	125	70 - 130
m,p-Xylenes	41.6	40.0	104	75 - 130
n-Butylbenzene	20.5	20.0	103	70 - 135
n-Propylbenzene	20.7	20.0	103	70 - 130
o-Xylene	20.5	20.0	102	80 - 120
sec-Butylbenzene	19.0	20.0	95	70 - 125
tert-Butylbenzene	18.9	20.0	95	70 - 130
trans-1,2-Dichloroethene	20.5	20.0	102	60 - 140
trans-1,3-Dichloropropene	25.2	20.0	126	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.

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/9/14 12:00

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1412440-01
Analytical Method: 8260C

Instrument ID: R-MS-10
File ID: I:\ACQUDATA\msvoa10\data\100914\A2766.D\

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1412440-02	I:\ACQUDATA\msvoa10\data\100914\A2764.D\	10/9/14 11:00
FTMM-22-GW-CW1MW28I-33.74	R1407806-016	I:\ACQUDATA\msvoa10\data\100914\A2767.D\	10/9/14 12:29
FTMM-22-GW-CW1MW27-12.63	R1407806-017	I:\ACQUDATA\msvoa10\data\100914\A2768.D\	10/9/14 12:59
FTMM-22-GW-CW1MW29-10.85	R1407806-018	I:\ACQUDATA\msvoa10\data\100914\A2769.D\	10/9/14 13:29
FTMM-22-GW-CW1MW31-16.40	R1407806-019	I:\ACQUDATA\msvoa10\data\100914\A2770.D\	10/9/14 13:58
FTMM-68-GW-565MW01D-22.31	R1407806-011	I:\ACQUDATA\msvoa10\data\100914\A2771.D\	10/9/14 14:28
FTMM-53-GW-699MW16-6.5	R1407806-001	I:\ACQUDATA\msvoa10\data\100914\A2772.D\	10/9/14 14:58
FTMM-53-GW-699MW09-7.75	R1407806-002	I:\ACQUDATA\msvoa10\data\100914\A2773.D\	10/9/14 15:28
FTMM-53-GW-699RW05-4.8	R1407806-004	I:\ACQUDATA\msvoa10\data\100914\A2774.D\	10/9/14 15:57
FTMM-53-GW-699MW01-7.5	R1407806-005	I:\ACQUDATA\msvoa10\data\100914\A2775.D\	10/9/14 16:27
FTMM-53-GW-699MW04-6.85	R1407806-006	I:\ACQUDATA\msvoa10\data\100914\A2776.D\	10/9/14 16:57
FTMM-22-GW-CW1MW28-11.21	R1407806-014	I:\ACQUDATA\msvoa10\data\100914\A2777.D\	10/9/14 17:26
FTMM-22-GW-CW1MW37-11.78	R1407806-015	I:\ACQUDATA\msvoa10\data\100914\A2778.D\	10/9/14 17:56
FTMM-53-GW-699RW11-8.3	R1407806-008	I:\ACQUDATA\msvoa10\data\100914\A2779.D\	10/9/14 18:26
FTMM-22-GW-CW1MW28I-38.74	R1407806-013	I:\ACQUDATA\msvoa10\data\100914\A2780.D\	10/9/14 18:56
FTMM-68-GW-565MW01-11.99	R1407806-010	I:\ACQUDATA\msvoa10\data\100914\A2781.D\	10/9/14 19:25
FTMM-53-GW-699RW03-8.2	R1407806-007	I:\ACQUDATA\msvoa10\data\100914\A2782.D\	10/9/14 19:55
FTMM-68-GW-565MW01D-22.31MS	RQ1412440-05	I:\ACQUDATA\msvoa10\data\100914\A2783.D\	10/9/14 20:25
FTMM-68-GW-565MW01D-22.31DMS	RQ1412440-06	I:\ACQUDATA\msvoa10\data\100914\A2784.D\	10/9/14 20:55

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Analyzed: 10/14/14 11:39

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1412540-01
Instrument ID: R-MS-10
File ID: I:\ACQUDATA\MSVOA10\DATA\101414\A2942.D\

Analytical Method: 8260C

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1412540-02	I:\ACQUDATA\MSVOA10\DATA\101414\A2940.D\	10/14/14 10:40
FTMM-TB-093014	R1407806-012	I:\ACQUDATA\MSVOA10\DATA\101414\A2948.D\	10/14/14 14:38
FTMM-53-GW-699MW06-10.2	R1407806-003	I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\	10/14/14 15:07
FTMM-53-GW-699MW106-10.2	R1407806-009	I:\ACQUDATA\MSVOA10\DATA\101414\A2950.D\	10/14/14 15:37
FTMM-53-GW-699MW06-10.2MS	RQ1412540-07	I:\ACQUDATA\MSVOA10\DATA\101414\A2960.D\	10/14/14 20:34
FTMM-53-GW-699MW06-10.2DMS	RQ1412540-08	I:\ACQUDATA\MSVOA10\DATA\101414\A2961.D\	10/14/14 21:04

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 7/21/14 10:55

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\072114\A0508.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 215799

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	23.99	112021	Pass
75	95	30	60	47.10	219883	Pass
95	95	100	100	100.00	466859	Pass
96	95	5	9	6.38	29771	Pass
173	174	0	2	1.00	3689	Pass
174	95	50	120	79.24	369941	Pass
175	174	5	9	7.65	28299	Pass
176	174	95	101	96.83	358208	Pass
177	176	5	9	6.43	23022	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa10\data\072114\A0510.D\	7/21/14 11:52	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa10\data\072114\A0511.D\	7/21/14 12:22	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa10\data\072114\A0512.D\	7/21/14 12:52	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa10\data\072114\A0513.D\	7/21/14 13:23	
Initial CalibrationICAL	10 ppb	I:\ACQUDATA\msvoa10\data\072114\A0514.D\	7/21/14 13:53	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa10\data\072114\A0515.D\	7/21/14 14:23	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa10\data\072114\A0516.D\	7/21/14 14:54	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa10\data\072114\A0517.D\	7/21/14 15:24	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa10\data\072114\A0518.D\	7/21/14 15:55	

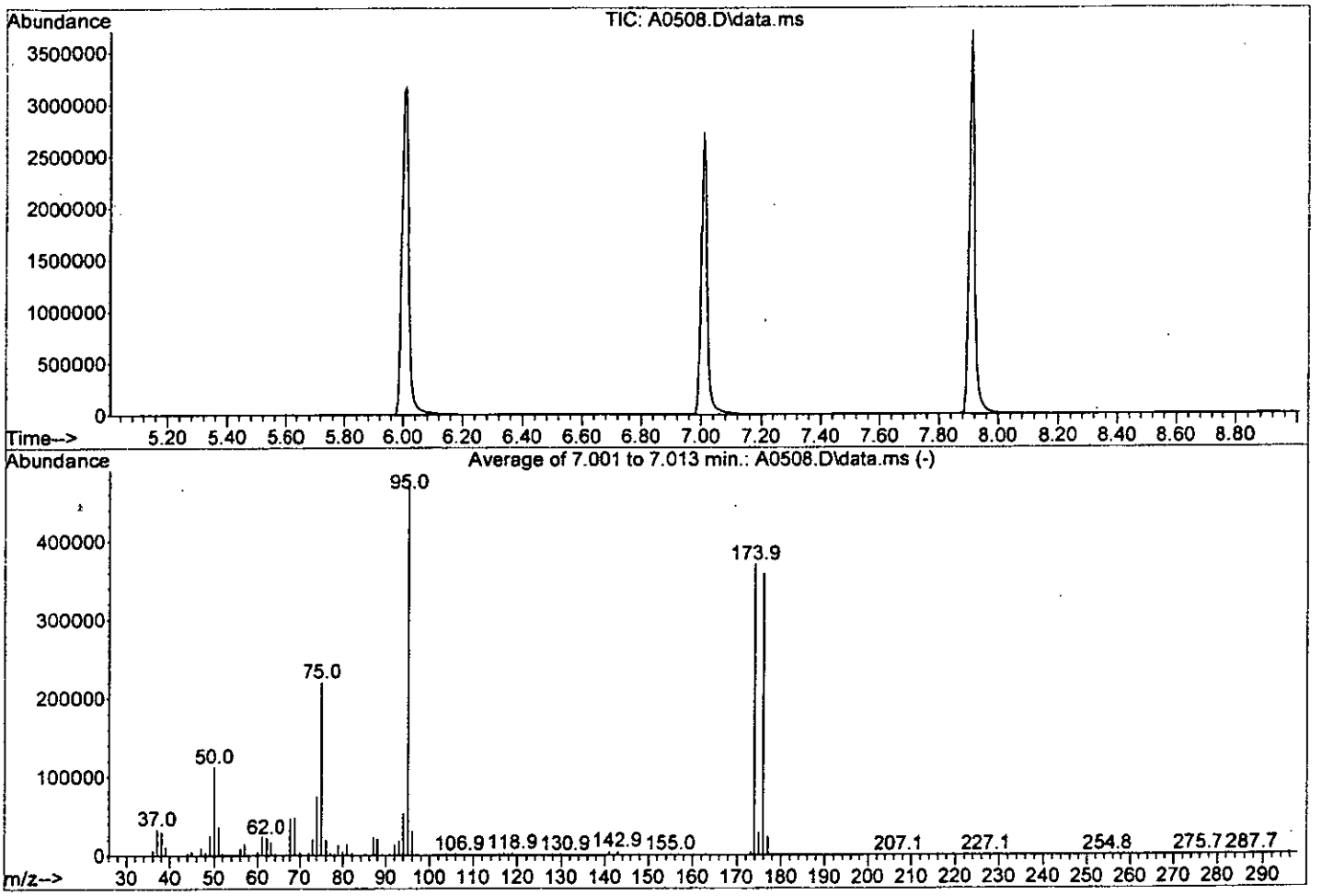
BFB

Data Path : I:\ACQUDATA\msvoa10\data\072114\
Data File : A0508.D
Acq On : 21 Jul 2014 10:55 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

FW 7/22/14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T072114.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 309

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	112021	PASS
75	95	30	60	47.1	219883	PASS
95	95	100	100	100.0	466859	PASS
96	95	5	9	6.4	29771	PASS
173	174	0.00	2	1.0	3689	PASS
174	95	50	120	79.2	369941	PASS
175	174	5	9	7.6	28299	PASS
176	174	95	101	96.8	358208	PASS
177	176	5	9	6.4	23022	PASS

T072114.M Mon Jul 21 11:45:31 2014 MSVO10

00031

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Service Request: R1407806
Date Analyzed: 10/9/14 09:44

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\100914\A2762.D\
Instrument ID: R-MS-10
Analytical Method: 8260C
Analysis Lot: 415420

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	22.81	101340	Pass
75	95	30	60	50.27	223360	Pass
95	95	100	100	100.00	444309	Pass
96	95	5	9	6.57	29193	Pass
173	174	0	2	1.15	4423	Pass
174	95	50	120	86.42	383979	Pass
175	174	5	9	7.90	30352	Pass
176	174	95	101	95.53	366827	Pass
177	176	5	9	6.42	23555	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1412440-04	I:\ACQUDATA\msvoa10\data\100914\A2763.D\	10/9/14 10:31	
Lab Control Sample	RQ1412440-02	I:\ACQUDATA\msvoa10\data\100914\A2764.D\	10/9/14 11:00	
Method Blank	RQ1412440-01	I:\ACQUDATA\msvoa10\data\100914\A2766.D\	10/9/14 12:00	
FTMM-22-GW-CW1MW28I-33.74	R1407806-016	I:\ACQUDATA\msvoa10\data\100914\A2767.D\	10/9/14 12:29	
FTMM-22-GW-CW1MW27-12.63	R1407806-017	I:\ACQUDATA\msvoa10\data\100914\A2768.D\	10/9/14 12:59	
FTMM-22-GW-CW1MW29-10.85	R1407806-018	I:\ACQUDATA\msvoa10\data\100914\A2769.D\	10/9/14 13:29	
FTMM-22-GW-CW1MW31-16.40	R1407806-019	I:\ACQUDATA\msvoa10\data\100914\A2770.D\	10/9/14 13:58	
FTMM-68-GW-565MW01D-22.31	R1407806-011	I:\ACQUDATA\msvoa10\data\100914\A2771.D\	10/9/14 14:28	
FTMM-53-GW-699MW16-6.5	R1407806-001	I:\ACQUDATA\msvoa10\data\100914\A2772.D\	10/9/14 14:58	
FTMM-53-GW-699MW09-7.75	R1407806-002	I:\ACQUDATA\msvoa10\data\100914\A2773.D\	10/9/14 15:28	
FTMM-53-GW-699RW05-4.8	R1407806-004	I:\ACQUDATA\msvoa10\data\100914\A2774.D\	10/9/14 15:57	
FTMM-53-GW-699MW01-7.5	R1407806-005	I:\ACQUDATA\msvoa10\data\100914\A2775.D\	10/9/14 16:27	
FTMM-53-GW-699MW04-6.85	R1407806-006	I:\ACQUDATA\msvoa10\data\100914\A2776.D\	10/9/14 16:57	
FTMM-22-GW-CW1MW28-11.21	R1407806-014	I:\ACQUDATA\msvoa10\data\100914\A2777.D\	10/9/14 17:26	
FTMM-22-GW-CW1MW37-11.78	R1407806-015	I:\ACQUDATA\msvoa10\data\100914\A2778.D\	10/9/14 17:56	
FTMM-53-GW-699RW11-8.3	R1407806-008	I:\ACQUDATA\msvoa10\data\100914\A2779.D\	10/9/14 18:26	
FTMM-22-GW-CW1MW28I-38.74	R1407806-013	I:\ACQUDATA\msvoa10\data\100914\A2780.D\	10/9/14 18:56	
FTMM-68-GW-565MW01-11.99	R1407806-010	I:\ACQUDATA\msvoa10\data\100914\A2781.D\	10/9/14 19:25	
FTMM-53-GW-699RW03-8.2	R1407806-007	I:\ACQUDATA\msvoa10\data\100914\A2782.D\	10/9/14 19:55	
FTMM-68-GW-565MW01D-22.31MS	RQ1412440-05	I:\ACQUDATA\msvoa10\data\100914\A2783.D\	10/9/14 20:25	
FTMM-68-GW-565MW01D-22.31DMS	RQ1412440-06	I:\ACQUDATA\msvoa10\data\100914\A2784.D\	10/9/14 20:55	

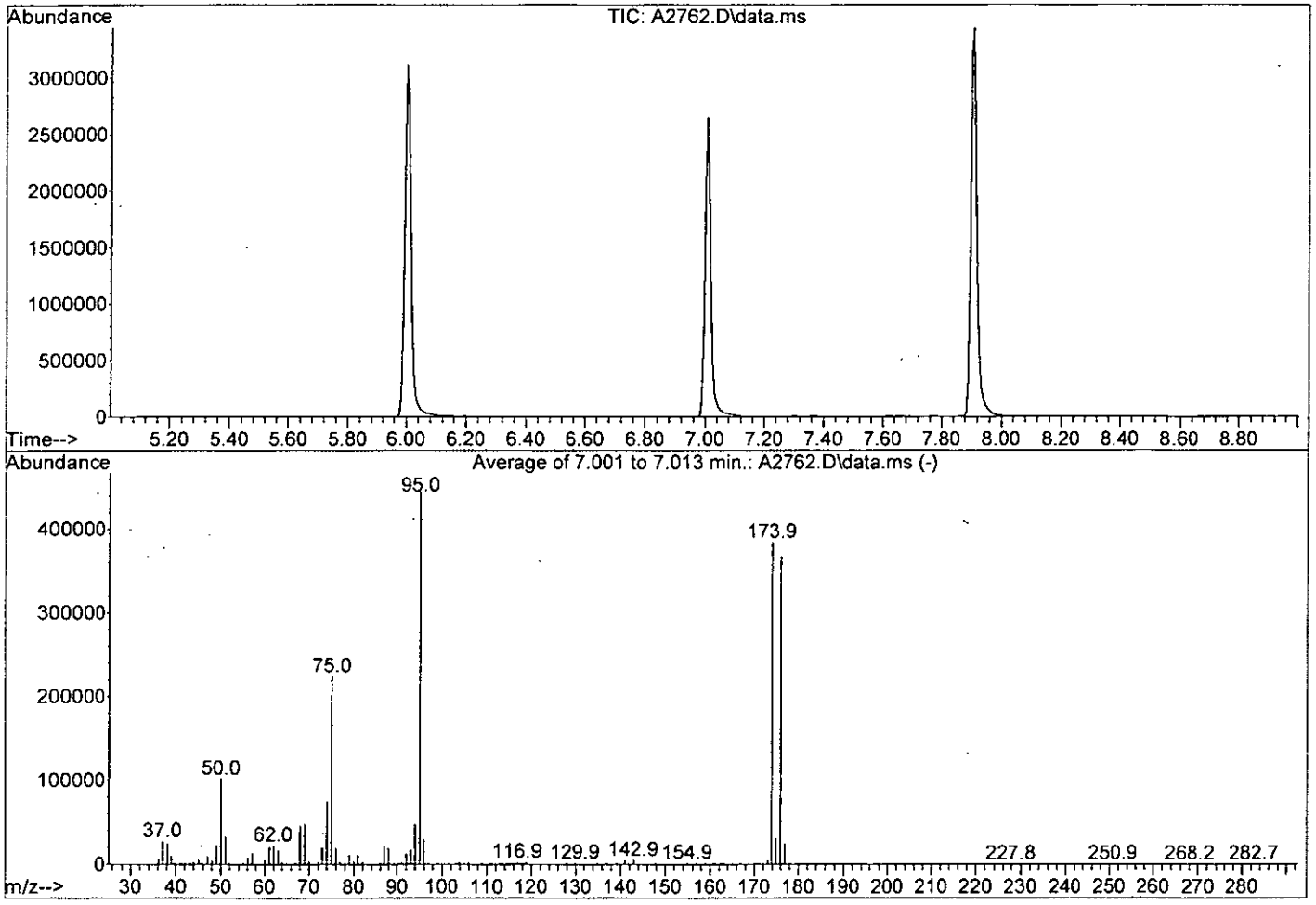
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2762.D
Acq On : 9 Oct 2014 9:44 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

RQ1412445-03

Integration File: CPD4.P

FN 10/14/14

Method : I:\ACQUDATA\MSVOA10\METHODS\T072114.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 309

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	101340	PASS
75	95	30	60	50.3	223360	PASS
95	95	100	100	100.0	444309	PASS
96	95	5	9	6.6	29193	PASS
173	174	0.00	2	1.2	4423	PASS
174	95	50	120	86.4	383979	PASS
175	174	5	9	7.9	30352	PASS
176	174	95	101	95.5	366827	PASS
177	176	5	9	6.4	23555	PASS

T072114.M Thu Oct 09 10:21:04 2014 MSVO10 Page: 1

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/14/14 09:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA10\DATA\101414\A2938.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 416090

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	23.00	33006	Pass
75	95	30	60	50.08	71875	Pass
95	95	100	100	100.00	143527	Pass
96	95	5	9	6.87	9855	Pass
173	174	0	2	0.37	465	Pass
174	95	50	120	87.83	126065	Pass
175	174	5	9	7.79	9816	Pass
176	174	95	101	95.74	120690	Pass
177	176	5	9	6.51	7862	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1412540-04	I:\ACQUDATA\MSVOA10\DATA\101414\A2939.D\	10/14/14 10:08	
Lab Control Sample	RQ1412540-02	I:\ACQUDATA\MSVOA10\DATA\101414\A2940.D\	10/14/14 10:40	
Method Blank	RQ1412540-01	I:\ACQUDATA\MSVOA10\DATA\101414\A2942.D\	10/14/14 11:39	
FTMM-TB-093014	R1407806-012	I:\ACQUDATA\MSVOA10\DATA\101414\A2948.D\	10/14/14 14:38	
FTMM-53-GW-699MW06-10.2	R1407806-003	I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\	10/14/14 15:07	
FTMM-53-GW-699MW106-10.2	R1407806-009	I:\ACQUDATA\MSVOA10\DATA\101414\A2950.D\	10/14/14 15:37	
FTMM-53-GW-699MW06-10.2MS	RQ1412540-07	I:\ACQUDATA\MSVOA10\DATA\101414\A2960.D\	10/14/14 20:34	
FTMM-53-GW-699MW06-10.2DMS	RQ1412540-08	I:\ACQUDATA\MSVOA10\DATA\101414\A2961.D\	10/14/14 21:04	

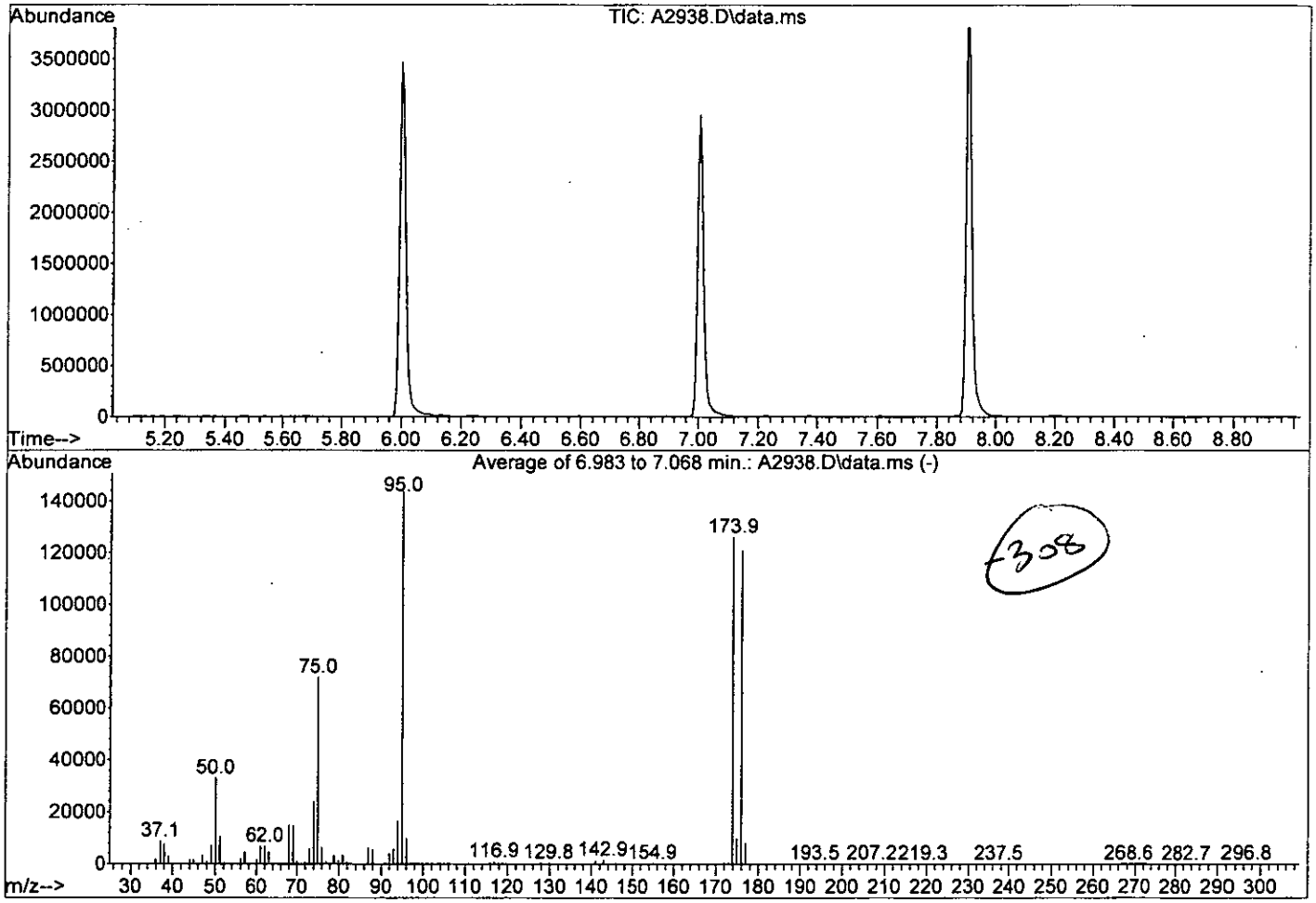
Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2938.D
Acq On : 14 Oct 2014 9:42 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

RQ1412543-03

FJ 10/14/14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T072114.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



308

Spectrum Information: Average of 6.983 to 7.068 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	33006	PASS
75	95	30	60	50.1	71875	PASS
95	95	100	100	100.0	143527	PASS
96	95	5	9	6.9	9855	PASS
173	174	0.00	2	0.4	465	PASS
174	95	50	120	87.8	126065	PASS
175	174	5	9	7.8	9816	PASS
176	174	95	101	95.7	120690	PASS
177	176	5	9	6.5	7862	PASS

T072114.M Tue Oct 14 09:51:57 2014 MSVO10 Page: 1

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/9/14 10:31

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

File ID: I:\ACQUDATA\msvoa10\data\100914\A2763.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1412440-04
Analysis Lot: 415420
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
Results ==>		645,434	10.83	1,407,449	5.60	1,202,624	8.84
Upper Limit ==>		1,290,868	11.33	2,814,898	6.10	2,405,248	9.34
Lower Limit ==>		322,717	10.33	703,725	5.10	601,312	8.34
ICAL Result ==>		701,453	10.83	1,398,556	5.61	1,270,603	8.84
Associated Analyses							
Lab Control Sample	RQ1412440-02	643,374	10.83	1,411,302	5.61	1,231,587	8.84
Method Blank	RQ1412440-01	631,665	10.84	1,324,937	5.61	1,185,949	8.84
FTMM-22-GW-CW1MW28I-33.74	R1407806-016	638,895	10.83	1,371,680	5.61	1,223,923	8.84
FTMM-22-GW-CW1MW27-12.63	R1407806-017	629,263	10.84	1,360,953	5.61	1,193,613	8.84
FTMM-22-GW-CW1MW29-10.85	R1407806-018	628,684	10.83	1,300,462	5.61	1,165,535	8.84
FTMM-22-GW-CW1MW31-16.40	R1407806-019	618,501	10.83	1,344,793	5.61	1,191,013	8.84
FTMM-68-GW-565MW01D-22.31	R1407806-011	619,829	10.84	1,311,452	5.61	1,187,344	8.84
FTMM-53-GW-699MW16-6.5	R1407806-001	613,796	10.83	1,287,921	5.61	1,167,669	8.84
FTMM-53-GW-699MW09-7.75	R1407806-002	616,131	10.83	1,308,356	5.61	1,183,293	8.84
FTMM-53-GW-699RW05-4.8	R1407806-004	624,658	10.83	1,279,951	5.61	1,148,760	8.84
FTMM-53-GW-699MW01-7.5	R1407806-005	615,096	10.84	1,284,866	5.61	1,154,842	8.84
FTMM-53-GW-699MW04-6.85	R1407806-006	614,261	10.83	1,323,121	5.61	1,175,412	8.84
FTMM-22-GW-CW1MW28-11.21	R1407806-014	610,547	10.83	1,280,311	5.61	1,146,690	8.84
FTMM-22-GW-CW1MW37-11.78	R1407806-015	622,149	10.84	1,275,383	5.61	1,135,589	8.84
FTMM-53-GW-699RW11-8.3	R1407806-008	621,278	10.83	1,323,654	5.61	1,183,850	8.84
FTMM-22-GW-CW1MW28I-38.74	R1407806-013	620,737	10.83	1,308,728	5.61	1,183,366	8.84
FTMM-68-GW-565MW01-11.99	R1407806-010	611,496	10.83	1,315,883	5.61	1,167,969	8.84
FTMM-53-GW-699RW03-8.2	R1407806-007	630,022	10.83	1,316,948	5.61	1,156,274	8.84
FTMM-68-GW-565MW01D-22.31MS	RQ1412440-05	646,552	10.83	1,323,951	5.61	1,185,834	8.84
FTMM-68-GW-565MW01D-22.31DM	RQ1412440-06	657,062	10.83	1,378,101	5.61	1,205,763	8.84

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

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/9/14 10:31

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

File ID: I:\ACQUDATA\msvoa10\data\100914\A2763.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1412440-04
Analysis Lot: 415420
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	997,959	4.41
	Upper Limit ==>	1,995,918	4.91
	Lower Limit ==>	498,980	3.91
	ICAL Result ==>	949,160	4.41
Associated Analyses			
Lab Control Sample	RQ1412440-02	1,017,679	4.41
Method Blank	RQ1412440-01	923,777	4.41
FTMM-22-GW-CW1MW28I-33.74	R1407806-016	974,395	4.41
FTMM-22-GW-CW1MW27-12.63	R1407806-017	951,407	4.41
FTMM-22-GW-CW1MW29-10.85	R1407806-018	923,797	4.41
FTMM-22-GW-CW1MW31-16.40	R1407806-019	933,916	4.41
FTMM-68-GW-565MW01D-22.31	R1407806-011	933,871	4.41
FTMM-53-GW-699MW16-6.5	R1407806-001	937,098	4.40
FTMM-53-GW-699MW09-7.75	R1407806-002	939,999	4.41
FTMM-53-GW-699RW05-4.8	R1407806-004	917,102	4.41
FTMM-53-GW-699MW01-7.5	R1407806-005	929,672	4.41
FTMM-53-GW-699MW04-6.85	R1407806-006	957,805	4.41
FTMM-22-GW-CW1MW28-11.21	R1407806-014	906,731	4.41
FTMM-22-GW-CW1MW37-11.78	R1407806-015	904,547	4.41
FTMM-53-GW-699RW11-8.3	R1407806-008	946,655	4.41
FTMM-22-GW-CW1MW28I-38.74	R1407806-013	915,489	4.41
FTMM-68-GW-565MW01-11.99	R1407806-010	935,851	4.41
FTMM-53-GW-699RW03-8.2	R1407806-007	930,580	4.40
FTMM-68-GW-565MW01D-22.31MS	RQ1412440-05	938,657	4.41
FTMM-68-GW-565MW01D-22.31DM	RQ1412440-06	979,625	4.41

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

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/14/14 10:08

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

File ID: I:\ACQUDATA\MSVOA10\DATA\101414\A2939.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1412540-04
Analysis Lot: 416090
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	718,000	10.84	1,417,881	5.61	1,317,059	8.84
	Upper Limit ==>	1,436,000	11.34	2,835,762	6.11	2,634,118	9.34
	Lower Limit ==>	359,000	10.34	708,941	5.11	658,530	8.34
	ICAL Result ==>	701,453	10.83	1,398,556	5.61	1,270,603	8.84
Associated Analyses							
Lab Control Sample	RQ1412540-02	734,627	10.83	1,435,494	5.61	1,308,582	8.84
Method Blank	RQ1412540-01	714,253	10.83	1,432,156	5.61	1,328,905	8.84
FTMM-TB-093014	R1407806-012	704,572	10.83	1,398,003	5.61	1,303,026	8.84
FTMM-53-GW-699MW06-10.2	R1407806-003	725,184	10.83	1,401,457	5.61	1,315,760	8.84
FTMM-53-GW-699MW106-10.2	R1407806-009	723,868	10.83	1,365,738	5.61	1,270,924	8.84
FTMM-53-GW-699MW06-10.2MS	RQ1412540-07	764,861	10.83	1,456,028	5.61	1,371,835	8.84
FTMM-53-GW-699MW06-10.2DMS	RQ1412540-08	775,943	10.83	1,462,769	5.61	1,391,122	8.84

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

ALS Group USA, Corp. dba ALS Environmental

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/14/14 10:08

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

File ID: I:\ACQUDATA\MSVOA10\DATA\101414\A2939.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1412540-04
Analysis Lot: 416090
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	997,026	4.41
	Upper Limit ==>	1,994,052	4.91
	Lower Limit ==>	498,513	3.91
	ICAL Result ==>	949,160	4.41
Associated Analyses			
Lab Control Sample	RQ1412540-02	1,007,470	4.40
Method Blank	RQ1412540-01	989,825	4.40
FTMM-TB-093014	R1407806-012	957,242	4.41
FTMM-53-GW-699MW06-10.2	R1407806-003	990,314	4.41
FTMM-53-GW-699MW106-10.2	R1407806-009	946,470	4.41
FTMM-53-GW-699MW06-10.2MS	RQ1412540-07	1,006,494	4.41
FTMM-53-GW-699MW06-10.2DMS	RQ1412540-08	1,030,083	4.41

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

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1005
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 14:58

Sample Name: FTMM-53-GW-699MW16-6.5
Lab Code: R1407806-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2772.D\

Analysis Lot: 415420
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	**6.3**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1005
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 14:58

Sample Name: FTMM-53-GW-699MW16-6.5
Lab Code: R1407806-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2772.D\

Analysis Lot: 415420
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	**1.6**	J	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	0.32	
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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1005
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:58
Sample Name:	FTMM-53-GW-699MW16-6.5	**Units:**	µg/L
Lab Code:	R1407806-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2772.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 14:58	
Dibromofluoromethane	106	85-115	10/9/14 14:58	
Toluene-d8	102	85-120	10/9/14 14:58	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1458

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

Sample Name: FTMM-53-GW-699MW16-6.5
Lab Code: R1407806-001

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-001|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2772.D Vial: 11
Acq On : 9 Oct 2014 2:58 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:21:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.403	168	937098	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1287921	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1167669	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	613796	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	435475	53.03	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	106.06%		
48) surr1,1,2-dichloroetha...	4.854	65	491292	56.69	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	113.38%		
65) SURR3,Toluene-d8	7.427	98	1471626	50.88	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	101.76%		
70) SURR2,BFB	9.878	95	585454	51.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	102.88%		
Target Compounds						Qvalue
15) Acetone	2.123	43	17835	6.25	ug/L	94
23) TBA	2.507	59	3192m	6.57	ug/L	
40) Chloroform	4.092	83	24381	1.57	ug/L	95
72) Tetrachloroethene	8.061	164	8682	1.29	ug/L #	89

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

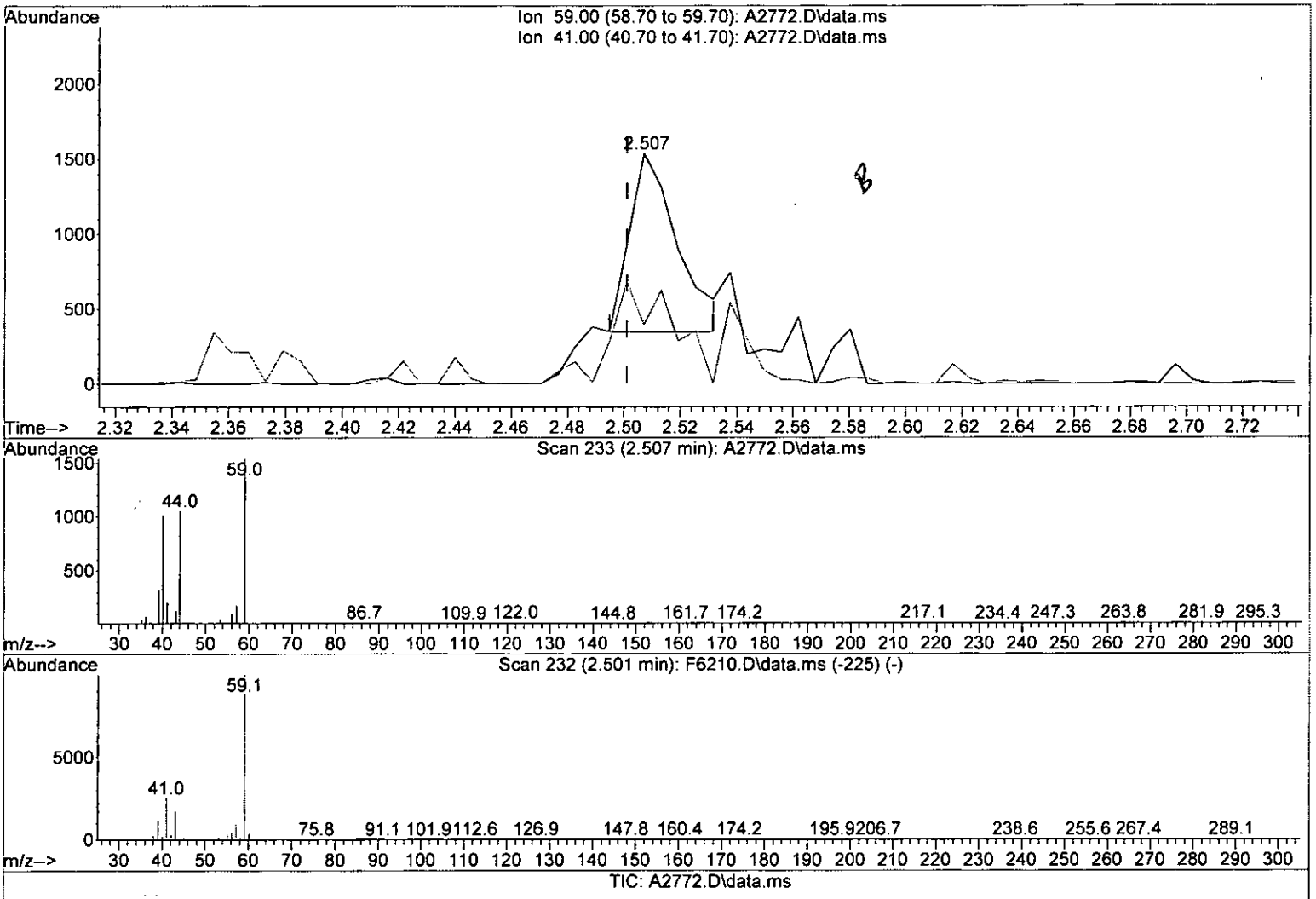
FD 12/14/14

W072114.M Tue Oct 14 14:21:20 2014 MSVO10 Page: 1

Quantitation Report (Qedit)

Sample : R1407806-001|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2772.D Vial: 11
Acq On : 9 Oct 2014 2:58 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 15:11:25 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2772.D\data.ms

(23) TBA

2.507min (+0.006) 2.85 ug/L

response 1384

Ion	Exp%	Act%
59.00	100	100
41.00	22.80	25.78
0.00	0.00	0.00
0.00	0.00	0.00

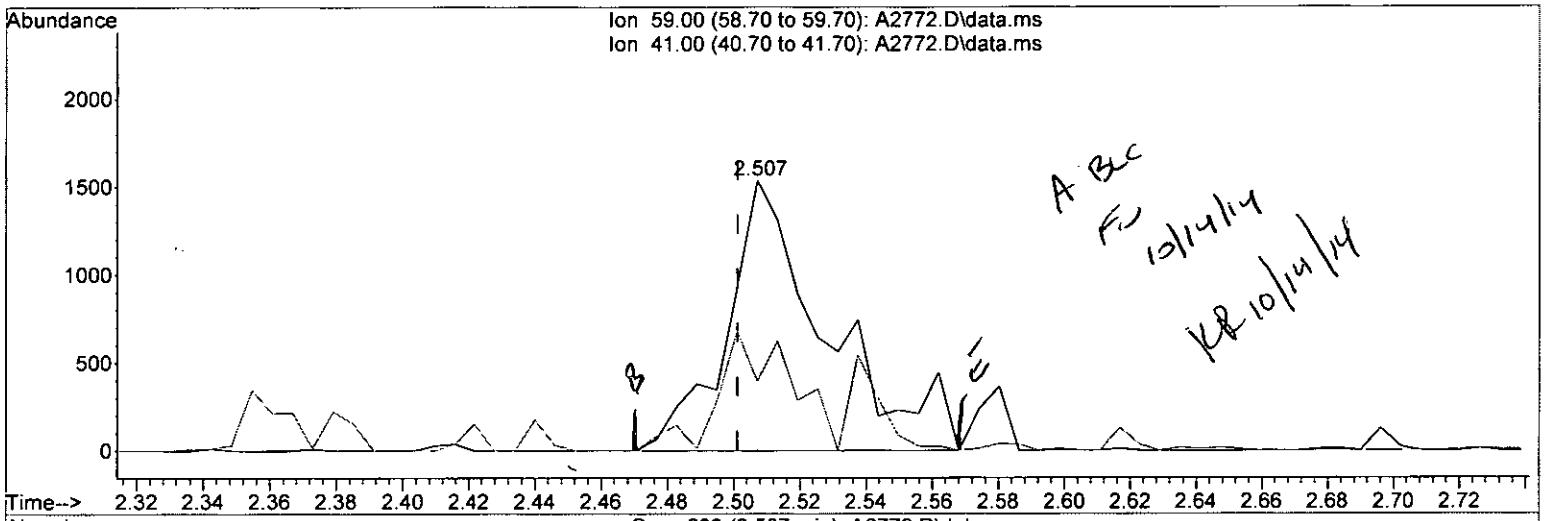
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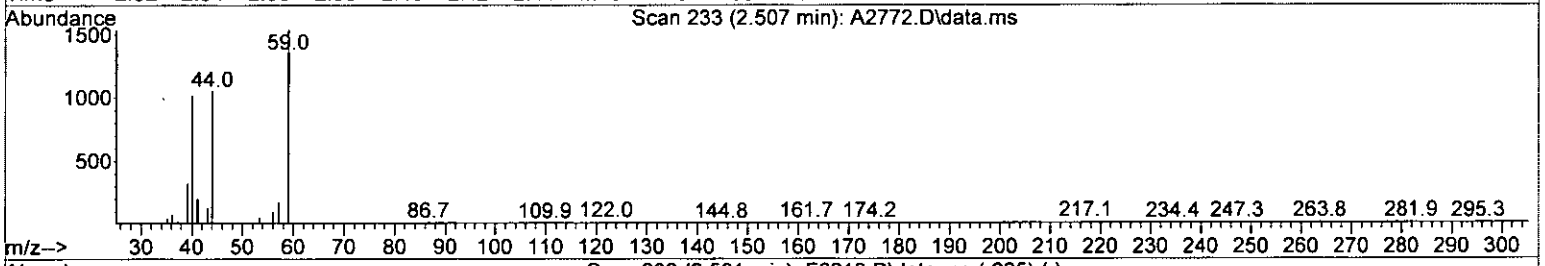
W072114.M Tue Oct 14 14:19:58 2014 MSVO10 Page: 1

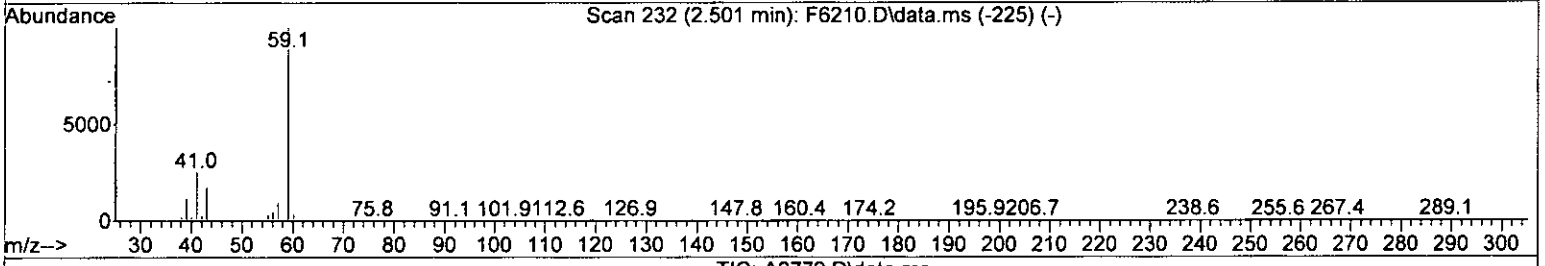
Quantitation Report (Qedit)

Sample : R1407806-001|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2772.D Vial: 11
Acq On : 9 Oct 2014 2:58 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 15:11:25 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2772.D\data.ms

(23) TBA

2.507min (+0.006) 6.57 ug/L m

response 3192

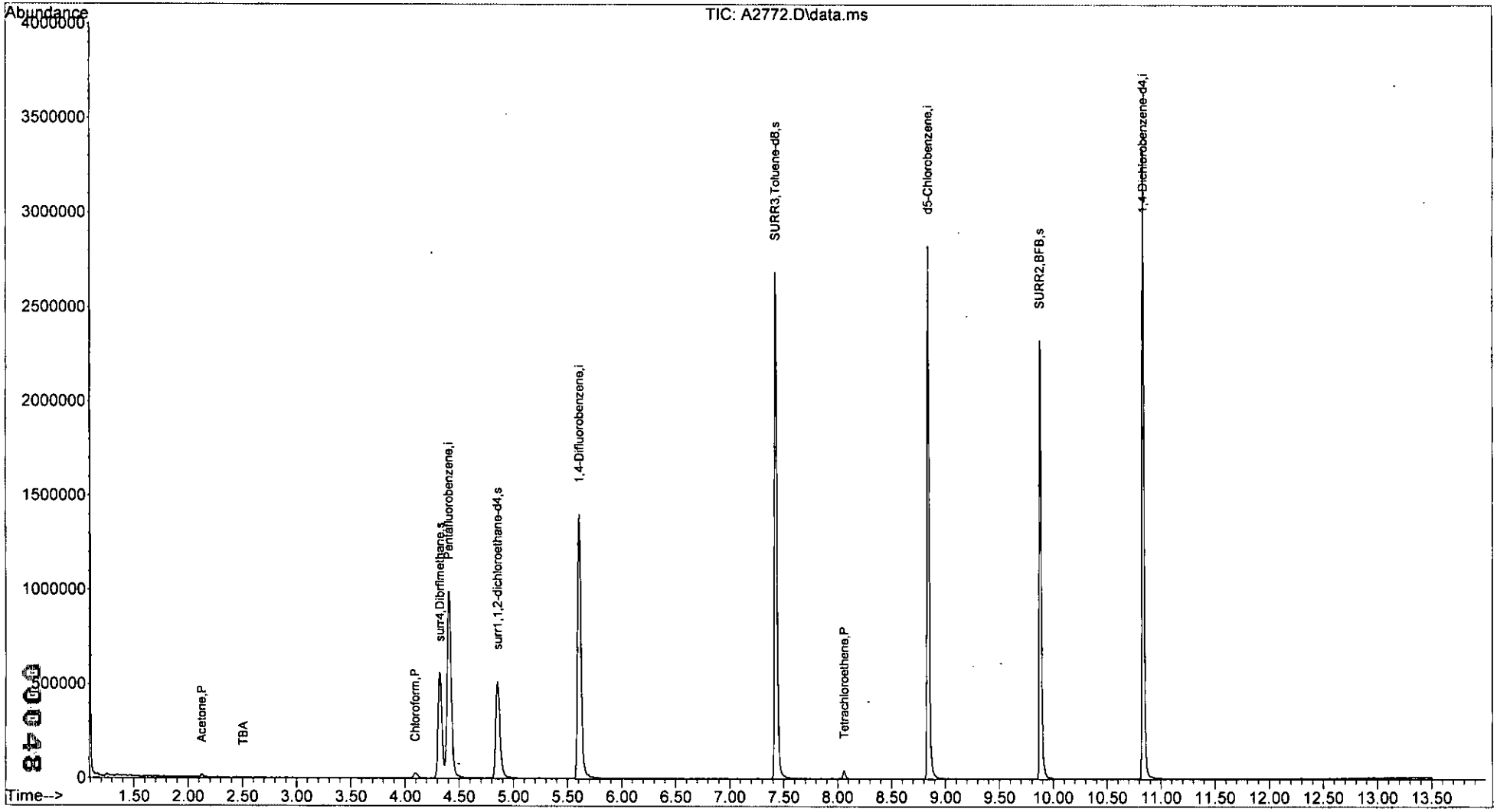
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	13.02
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 14:20:12 2014 MSVO10 Page: 1

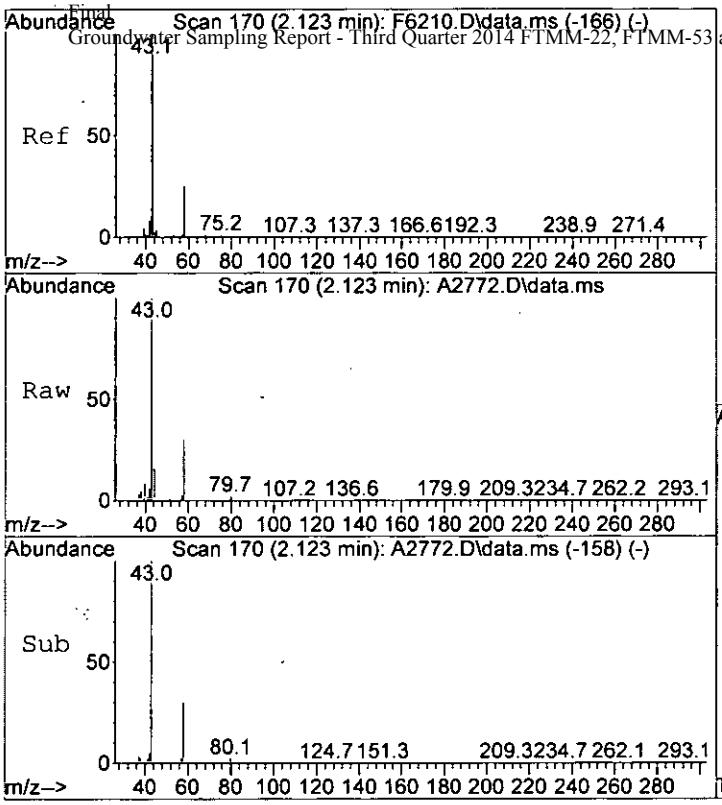
Quantitation Report (QT Reviewed)

Sample : R1407806-001|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2772.D Vial: 11
Acq On : 9 Oct 2014 2:58 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:21:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



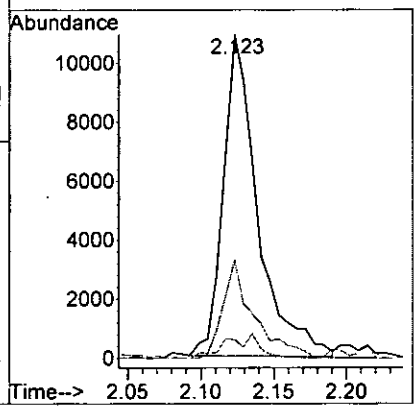
W072114.M Tue Oct 14 14:21:22 2014 MSVO10 Page: 2

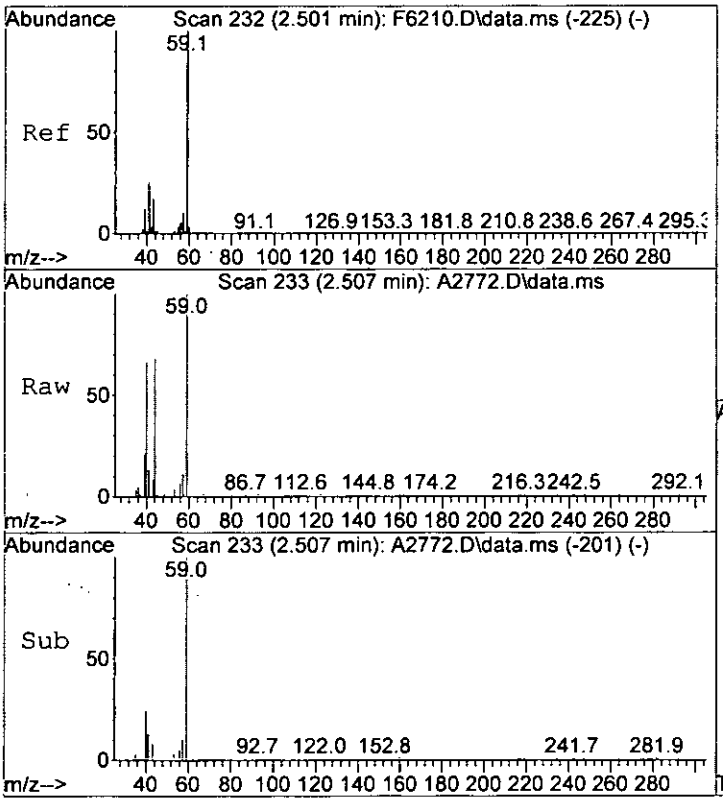


#15
Acetone
Concen: 6.25 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2772.D
Acq: 9 Oct 2014 2:58 pm

Tgt Ion: 43 Resp: 17835

Ion	Ratio	Lower	Upper
43	100		
58	30.5	7.2	47.2
42	5.7	0.0	27.0

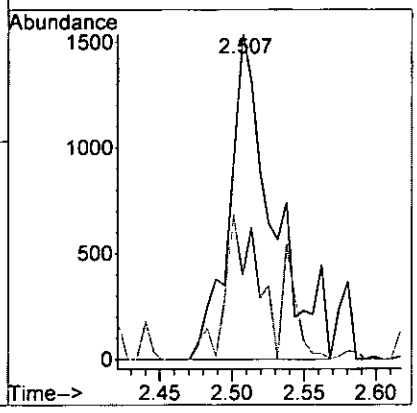


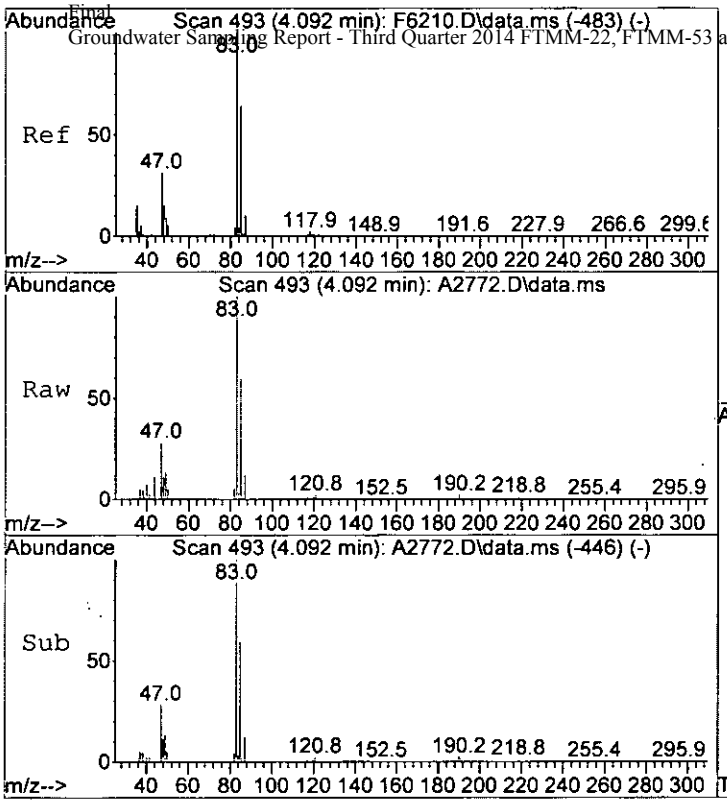


#23
TBA
Concen: 6.57 ug/L m
RT: 2.507 min Scan# 233
Delta R.T. 0.006 min
Lab File: A2772.D
Acq: 9 Oct 2014 2:58 pm

Tgt Ion: 59 Resp: 3192

Ion	Ratio	Lower	Upper
59	100		
41	13.0	2.8	42.8

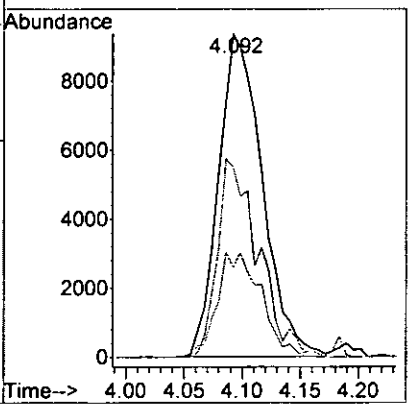


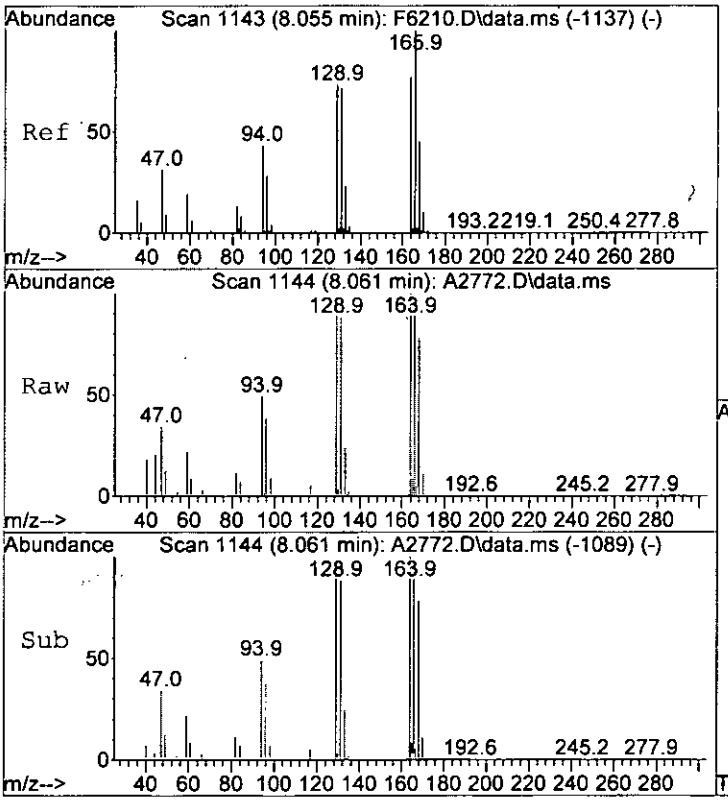


#40
Chloroform
Concen: 1.57 ug/L
RT: 4.092 min Scan# 493
Delta R.T. -0.000 min
Lab File: A2772.D
Acq: 9 Oct 2014 2:58 pm

Tgt Ion: 83 Resp: 24381

Ion	Ratio	Lower	Upper
83	100		
85	58.5	42.7	82.7
47	27.7	5.9	45.9

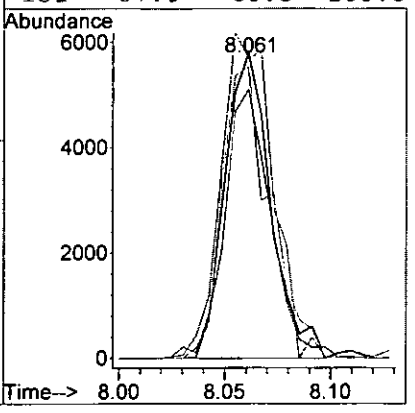




#72
Tetrachloroethene
Concen: 1.29 ug/L
RT: 8.061 min Scan# 1144
Delta R.T. 0.006 min
Lab File: A2772.D
Acq: 9 Oct 2014 2:58 pm

Tgt Ion:164 Resp: 8682

Ion	Ratio	Lower	Upper
164	100		
166	103.3	106.8	146.8#
129	95.4	69.6	109.6
131	87.9	68.5	108.5



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2772.D
Acq On : 9 Oct 2014 2:58 pm
Operator : F.NAEGLER
Sample : R1407806-001|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2772.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.098	486	494	503	rBV3	24075	64043	1.53%	0.270%
2	4.318	522	530	538	rBV2	558793	1400611	33.37%	5.911%
3	4.403	538	544	560	rVB	985540	2579552	61.46%	10.886%
4	4.854	609	618	641	rBV	511350	1395160	33.24%	5.888%
5	5.610	734	742	755	rBV	1398673	3164791	75.41%	13.356%
6	7.427	1035	1040	1056	rBV	2683194	4197016	100.00%	17.712%
7	8.061	1139	1144	1152	rVB2	41330	66429	1.58%	0.280%
8	8.841	1267	1272	1291	rBV	2824477	3801594	90.58%	16.043%
9	9.878	1438	1442	1458	rBV	2322372	3031464	72.23%	12.793%
10	10.835	1594	1599	1613	rBV	3332452	3995094	95.19%	16.860%

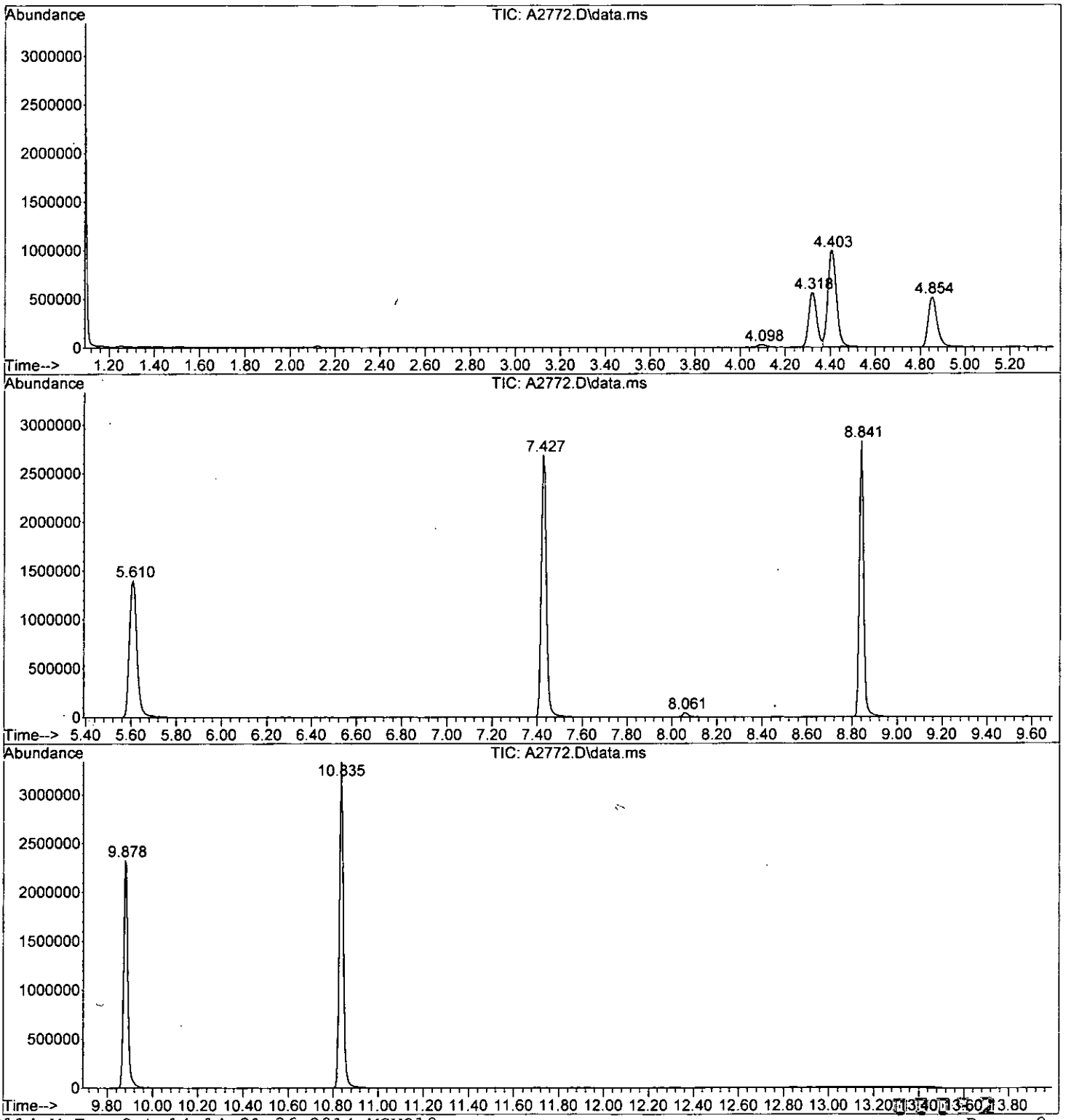
Sum of corrected areas: 23695754

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2772.D
Acq On    :  9 Oct 2014   2:58 pm
Operator  : F.NAEGLER
Sample    : R1407806-001|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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




```
W072114.M Tue Oct 14 14:21:36 2014 MSVO10                    Page:  2
```

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2772.D
Acq On : 9 Oct 2014 2:58 pmm
Operator : F.NAEGLERR
Sample : R1407806-001|1.0
Misc : PARSONS 11603 T44
ALS Vial : 11 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

00053

W072114.M Tue Oct 14 14:21:37 2014 MSVO10 Page: 3

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1010
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 15:28
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1407806-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2773.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	**6.6**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1010
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 15:28
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1407806-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2773.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	0.32	
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	**0.49**	J	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)	**0.33**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1010
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 15:28
Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1407806-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2773.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 15:28	
Dibromofluoromethane	108	85-115	10/9/14 15:28	
Toluene-d8	102	85-120	10/9/14 15:28	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/3/14
		Date Analyzed:	10/9/14 1528

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

Sample Name:	FTMM-53-GW-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1407806-002	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-002|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2773.D Vial: 12
Acq On : 9 Oct 2014 3:28 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:22:26 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	939999	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1308356	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1183293	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	616131	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	449824	53.92	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.84%			
48) surr1,1,2-dichloroetha...	4.854	65	498000	56.56	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 113.12%			
65) SURR3,Toluene-d8	7.427	98	1494474	50.86	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.72%			
70) SURR2,BFB	9.878	95	578751	50.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.10%			
Target Compounds						Qvalue
15) Acetone	2.123	43	18965	6.63	ug/L	96
23) TBA	2.513	59	3668m	7.53	ug/L	
25) Methyl-t-Butyl Ether	2.666	73	9139	0.49	ug/L	81
72) Tetrachloroethene	8.067	164	2230	0.33	ug/L #	33

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

FJ 10/14/14

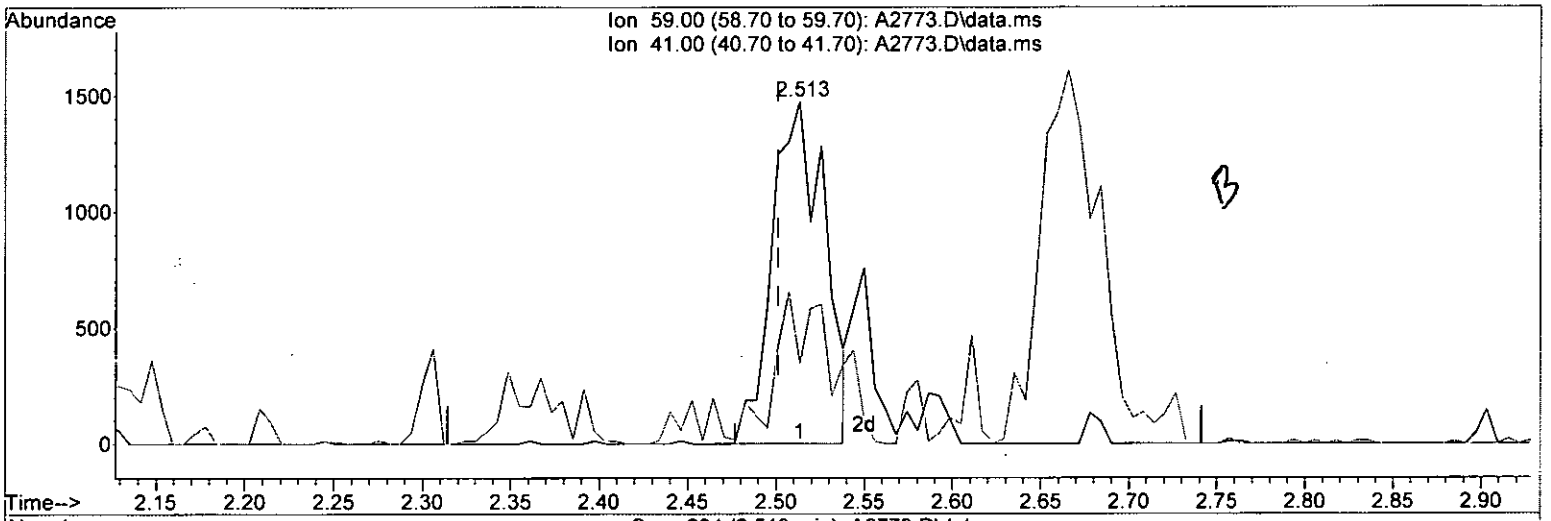
W072114.M Tue Oct 14 14:23:22 2014 MSVO10 Page: 1

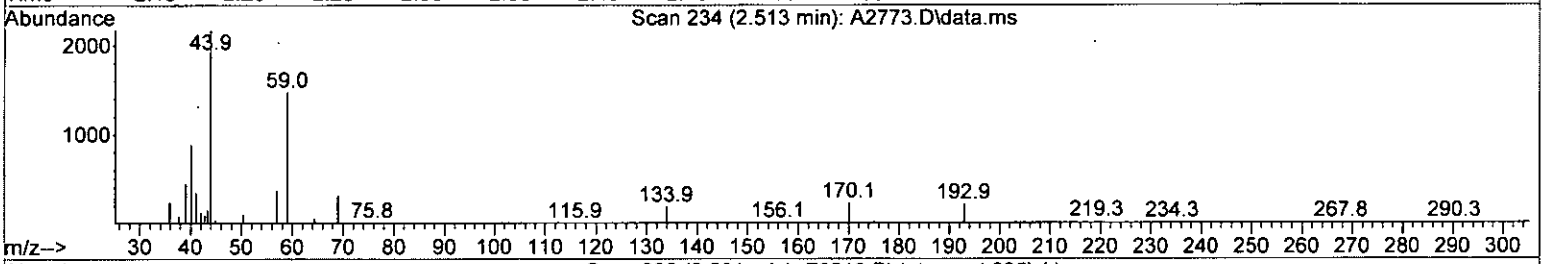
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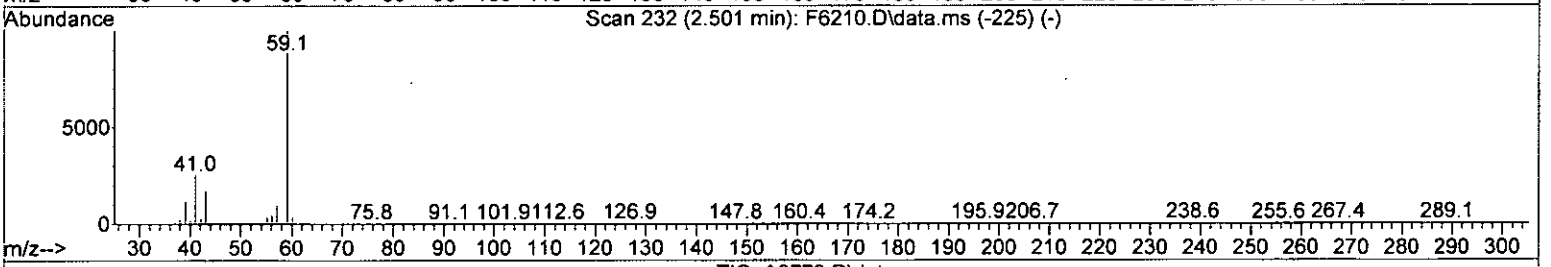
Quantitation Report (Qedit)

Sample : R1407806-002|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2773.D Vial: 12
Acq On : 9 Oct 2014 3:28 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 15:41:11 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2773.D\data.ms

(23) TBA

2.513min (+0.012) 6.20 ug/L

response 3023

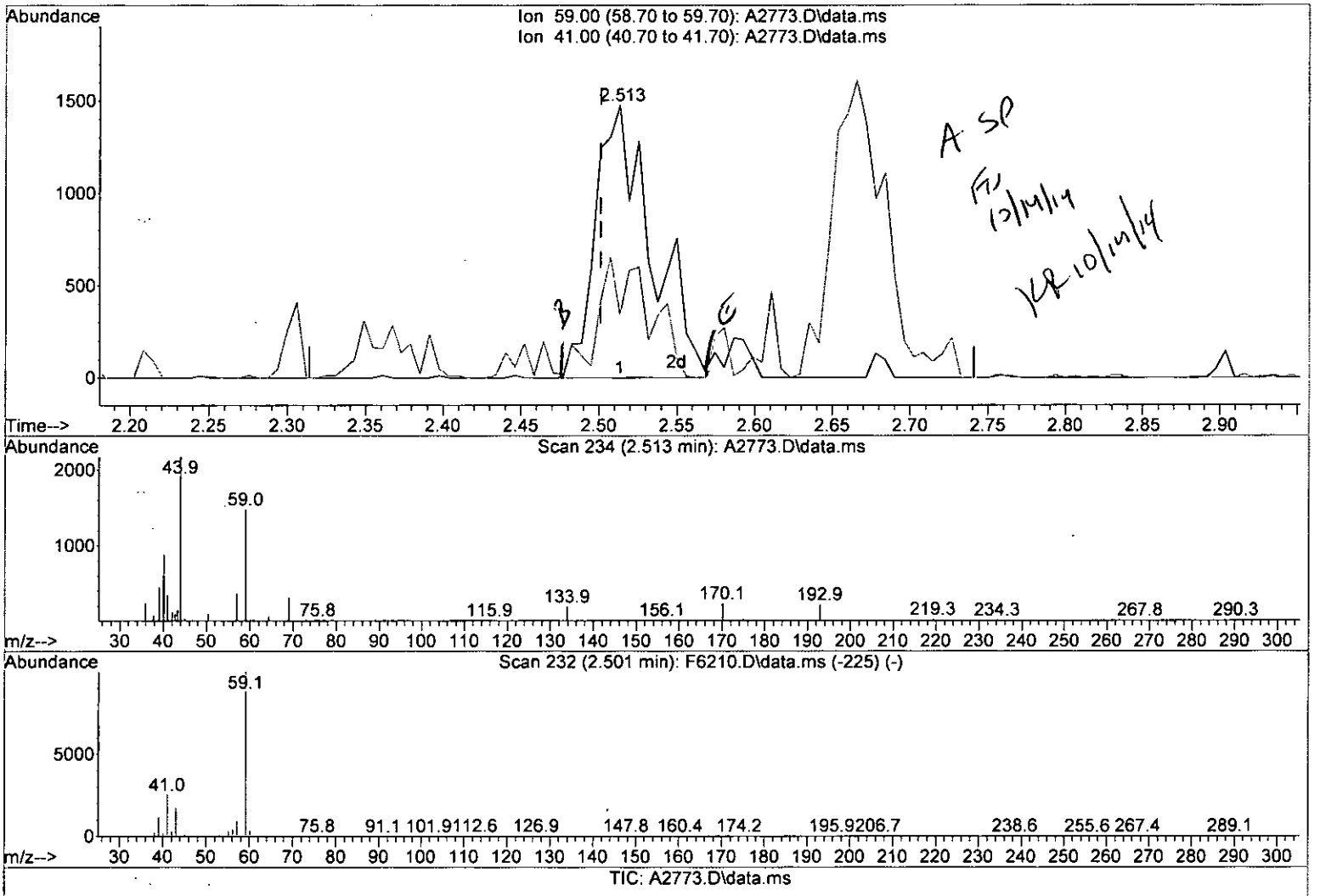
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	23.36
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 14:22:08 2014 MSVO10 Page: 1

Quantitation Report (Qedit)

Sample : R1407806-002|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2773.D Vial: 12
Acq On : 9 Oct 2014 3:28 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 15:41:11 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2773.D\data.ms

(23) TBA

2.513min (+0.012) 7.53 ug/L m

response 3668

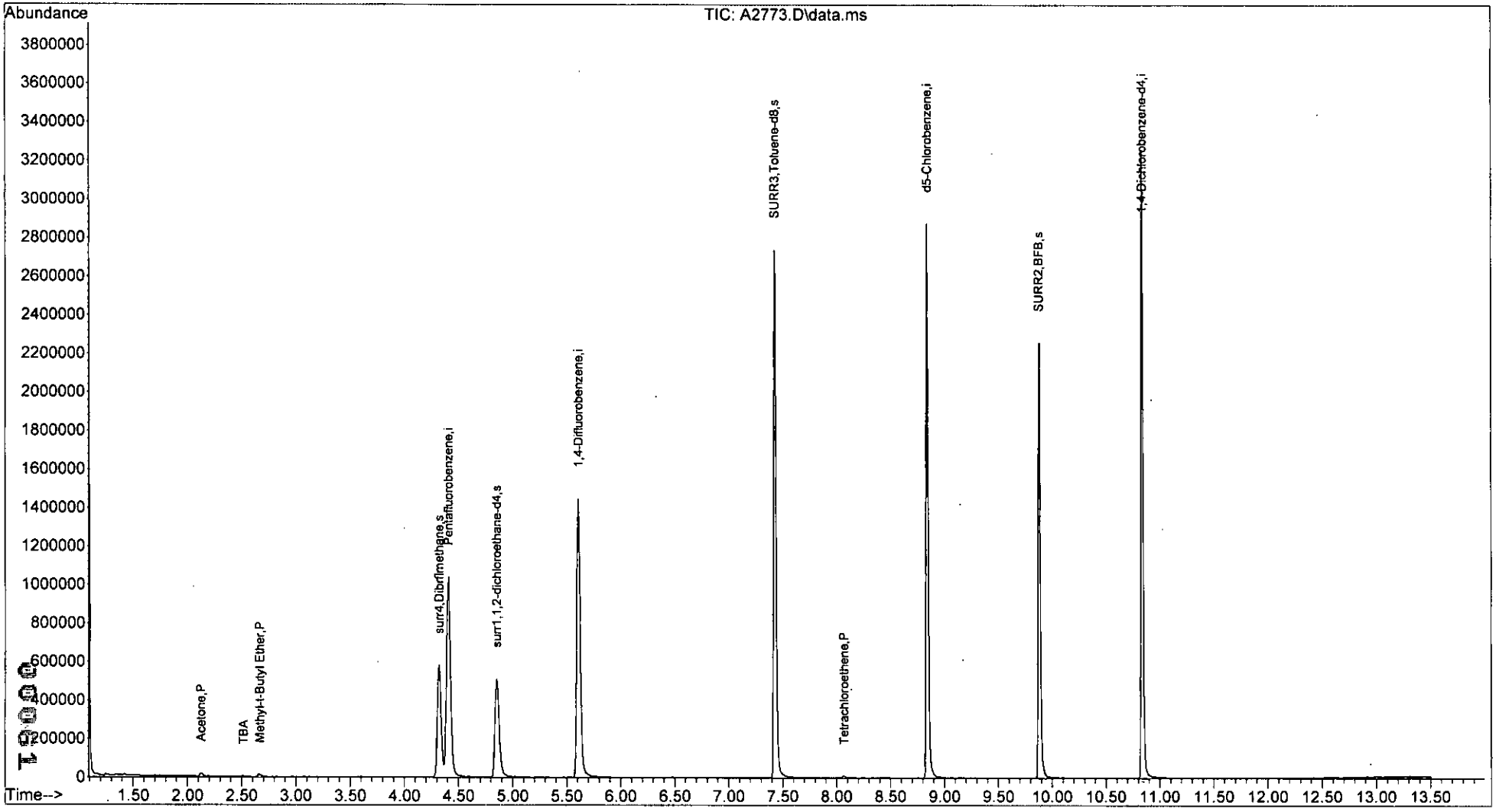
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	23.36
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 14:22:17 2014 MSVO10 Page: 1

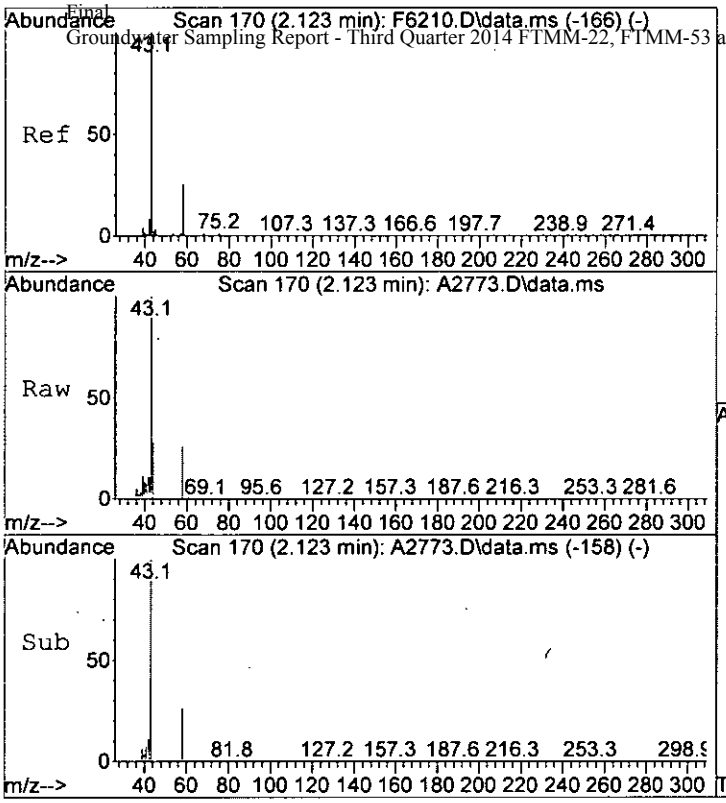
Quantitation Report (QT Reviewed)

Sample : R1407806-002|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2773.D Vial: 12
Acq On : 9 Oct 2014 3:28 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:22:26 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



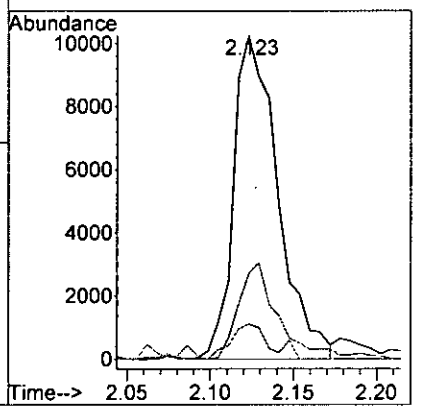
W072114.M Tue Oct 14 14:23:24 2014 MSVO10 Page: 2

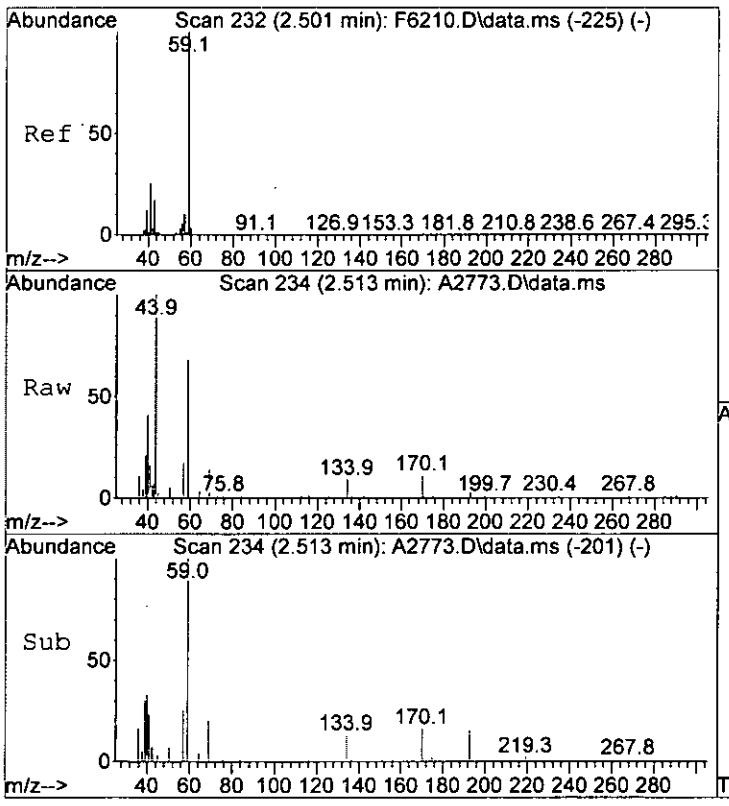


#15
Acetone
Concen: 6.63 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2773.D
Acq: 9 Oct 2014 3:28 pm

Tgt Ion: 43 Resp: 18965

Ion	Ratio	Lower	Upper
43	100		
58	26.2	7.2	47.2
42	10.7	0.0	27.0

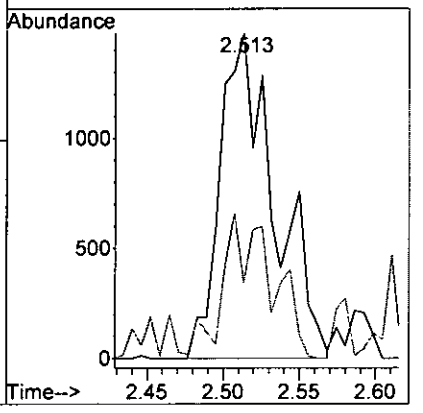


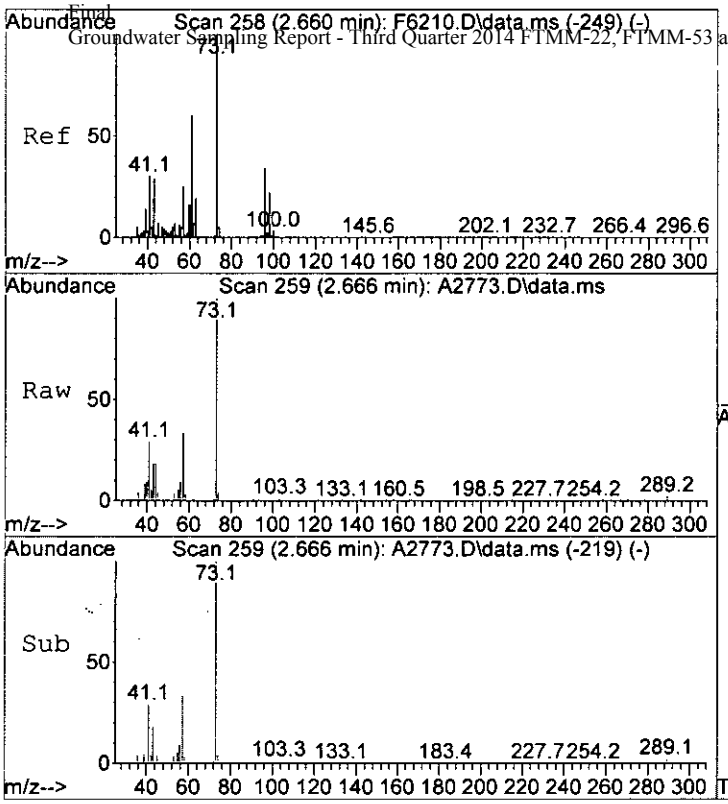


#23
TBA
Concen: 7.53 ug/L m
RT: 2.513 min Scan# 234
Delta R.T. 0.012 min
Lab File: A2773.D
Acq: 9 Oct 2014 3:28 pm

Tgt Ion: 59 Resp: 3668

Ion	Ratio	Lower	Upper
59	100		
41	23.4	2.8	42.8

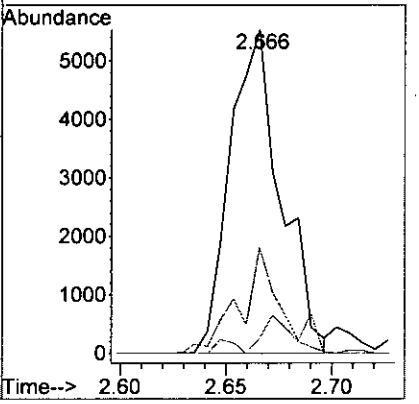


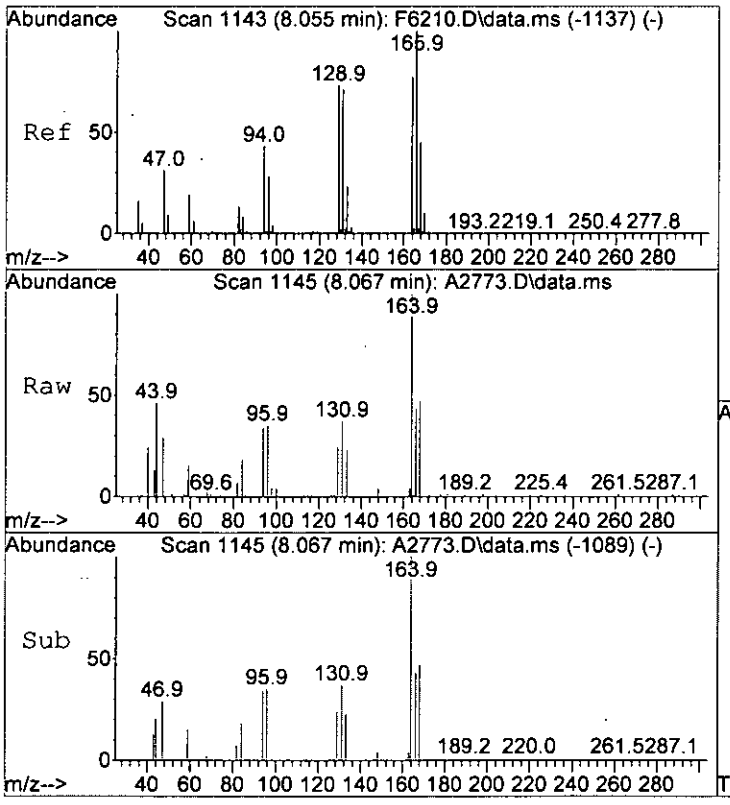


#25
Methyl-t-Butyl Ether
Concen: 0.49 ug/L
RT: 2.666 min Scan# 259
Delta R.T. 0.006 min
Lab File: A2773.D
Acq: 9 Oct 2014 3:28 pm

Tgt Ion: 73 Resp: 9139

Ion	Ratio	Lower	Upper
73	100		
57	32.7	1.6	41.6
55	4.6	0.0	24.7

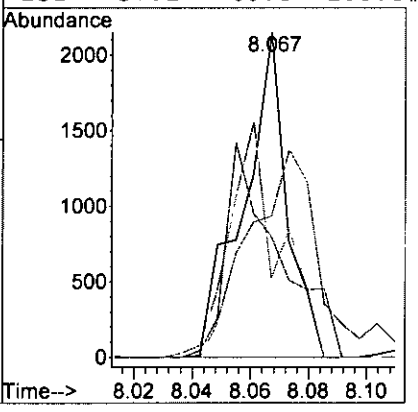




#72
Tetrachloroethene
Concen: 0.33 ug/L
RT: 8.067 min Scan# 1145
Delta R.T. 0.012 min
Lab File: A2773.D
Acq: 9 Oct 2014 3:28 pm

Tgt Ion:164 Resp: 2230

Ion	Ratio	Lower	Upper
164	100		
166	43.4	106.8	146.8#
129	24.3	69.6	109.6#
131	37.1	68.5	108.5#



A2773.D W072114.M Tue Oct 14 14:23:27 2014 MSVO10 Page 4

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2773.D
Acq On : 9 Oct 2014 3:28 pm
Operator : F.NAEGLER
Sample : R1407806-002|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2773.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.324	521	531	538	rBV	579311	1434814	33.72%	6.019%
2	4.409	538	545	560	rVB	1032706	2618714	61.55%	10.985%
3	4.854	609	618	634	rBV	508318	1383341	32.51%	5.803%
4	5.610	733	742	760	rBV	1446108	3247895	76.34%	13.624%
5	7.427	1035	1040	1056	rBV	2735871	4254680	100.00%	17.847%
6	8.841	1267	1272	1290	rBV	2872970	3863664	90.81%	16.207%
7	9.884	1438	1443	1456	rBV	2253887	3026441	71.13%	12.695%
8	10.835	1594	1599	1612	rBV	3256369	4009853	94.25%	16.820%

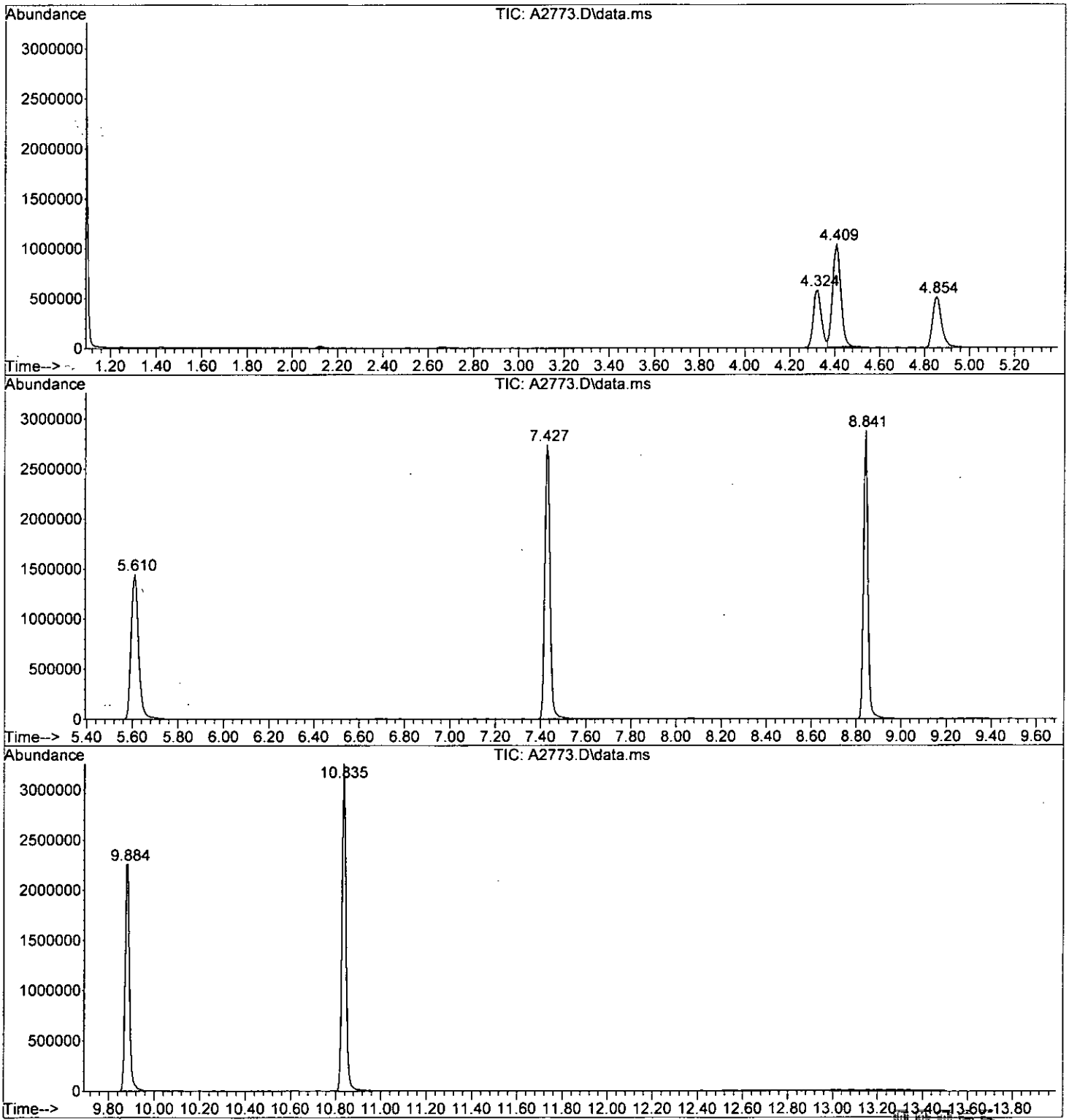
Sum of corrected areas: 23839402

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2773.D
Acq On : 9 Oct 2014 3:28 pm
Operator : F.NAEGLER
Sample : R1407806-002|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:23:36 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2773.D
Acq On : 9 Oct 2014 3:28 pmm
Operator : F.NAEGLERR
Sample : R1407806-002¦1.0
Misc : PARSONS 11603 T44
ALS Vial : 12 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1045
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 15:07

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\

Analysis Lot: 416090
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	**54**		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	**5.7**		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	**12**		5.0	5.0	1.3	
71-43-2	Benzene	**9.0**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1045
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 15:07

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\

Analysis Lot: 416090
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	0.32	
100-41-4	Ethylbenzene	**140**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**14**		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	**22**		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	**1.5**	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	**120**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**0.27**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**11**		5.0	1.0	0.20	
95-47-6	o-Xylene	**9.3**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**0.48**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1045
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 15:07
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1407806-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2949.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	10/14/14 15:07	
Dibromofluoromethane	104	85-115	10/14/14 15:07	
Toluene-d8	101	85-120	10/14/14 15:07	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14 1507

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

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: R1407806-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	1.66	**12.0**	JN
	unknown	2.51	**9.6**	J
000096-37-7	Cyclopentane, methyl-	3.56	**14.4**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	10.18	**27.5**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	10.41	**29.3**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	10.90	**14.3**	JN
000496-11-7	Indane	11.05	**30.9**	JN

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2949.D Vial: 12
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 15:27:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	990314	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1401457	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1315760	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	725184	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	466427	52.19	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.38%			
48) surr1,1,2-dichloroetha...	4.848	65	526203	55.79	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 111.58%			
65) SURR3,Toluene-d8	7.427	98	1589523	50.50	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.00%			
70) SURR2,BFB	9.878	95	675539	54.54	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.08%			
Target Compounds						Qvalue
15) Acetone	2.123	43	35171	11.66	ug/L	95
49) Benzene	4.958	78	308068	8.99	ug/L	85
66) Toluene	7.506	91	53840	1.50	ug/L	99
82) Ethylbenzene	8.976	106	1806239	142.88	ug/L	98
83) (m+p)Xylene	9.085	106	1946204	124.84	ug/L	99
84) o-Xylene	9.433	106	141151	9.26	ug/L	94
88) Isopropylbenzene	9.756	105	553554	14.44	ug/L	97
95) n-Propylbenzene	10.103	91	501531	11.08	ug/L	97
99) 1,3,5-Trimethylbenzene	10.250	105	187257	5.69	ug/L	97
101) 1,2,4-Trimethylbenzene	10.554	105	1812771	54.49	ug/L	100
103) sec-Butylbenzene	10.701	105	18701	0.48	ug/L	90
109) n-Butylbenzene	11.146	91	7817	0.27	ug/L	87
117) Naphthalen	12.377	128	418551	21.85	ug/L	98

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

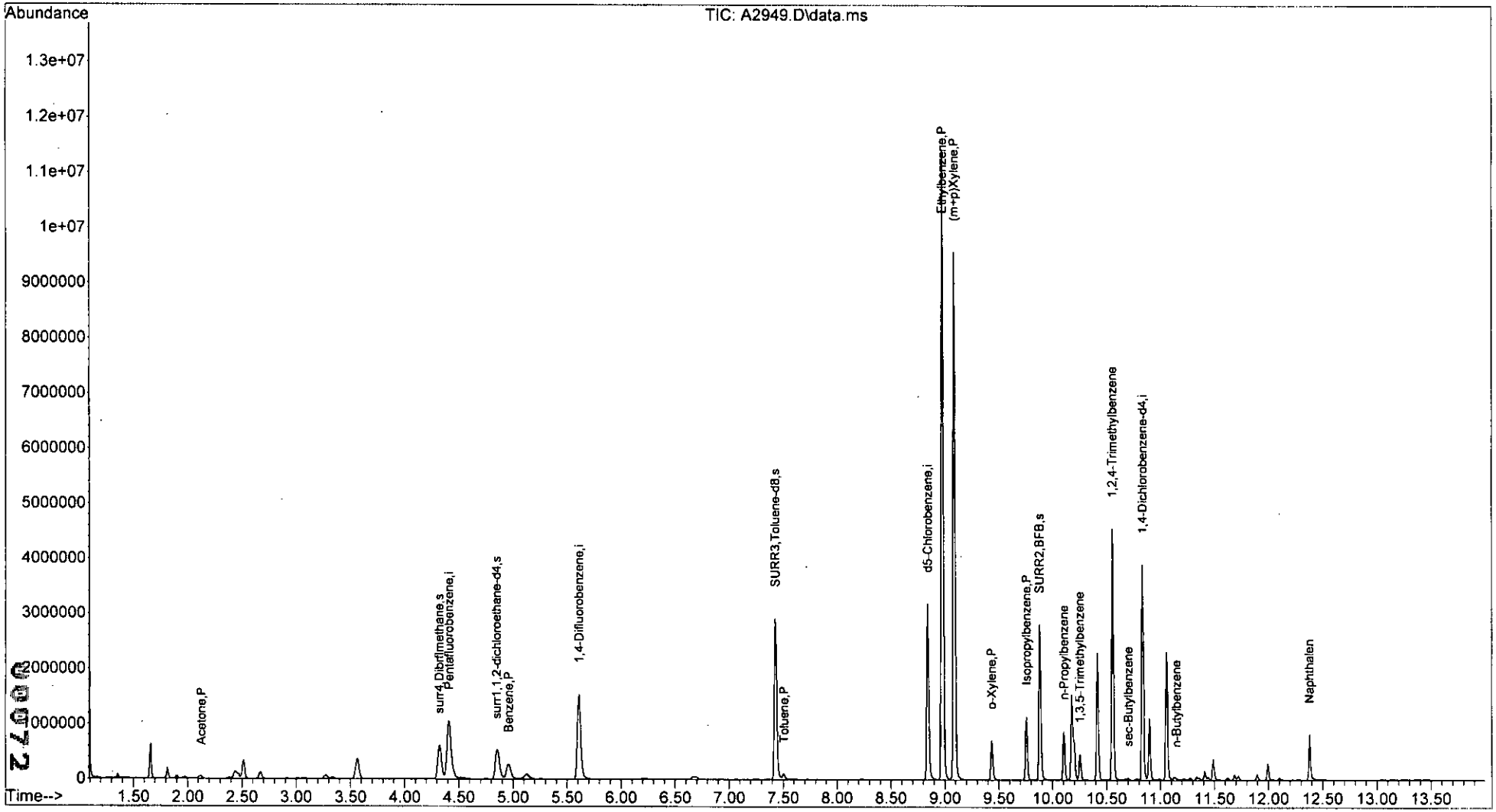
FD
12/15/14

FR 10/15/14

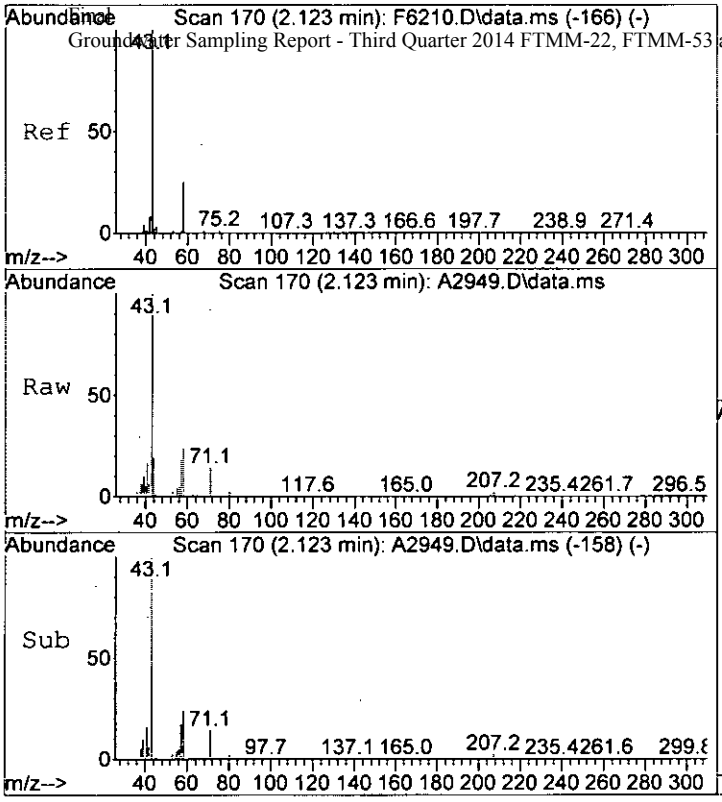
Quantitation Report (QT Reviewed)

Sample : R1407806-003|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2949.D Vial: 12
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 15:27:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



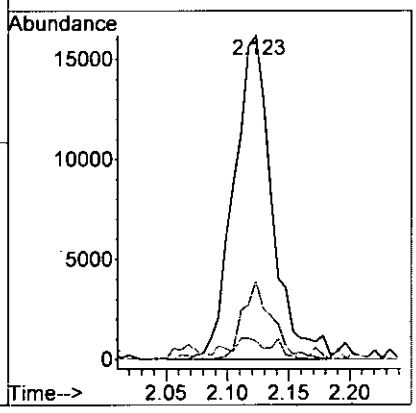
W072114.M Wed Oct 15 15:27:46 2014 MSVO10

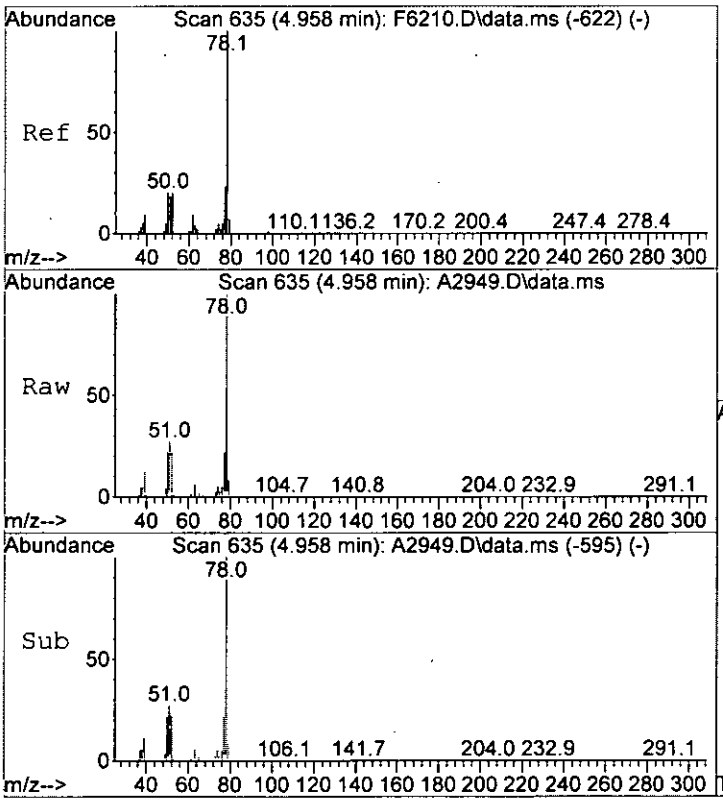


#15
Acetone
Concen: 11.66 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion: 43 Resp: 35171

Ion	Ratio	Lower	Upper
43	100		
58	24.2	7.2	47.2
42	5.6	0.0	27.0

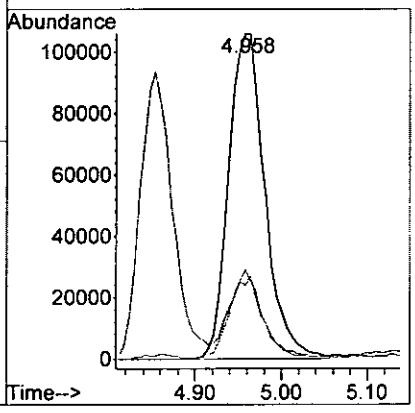


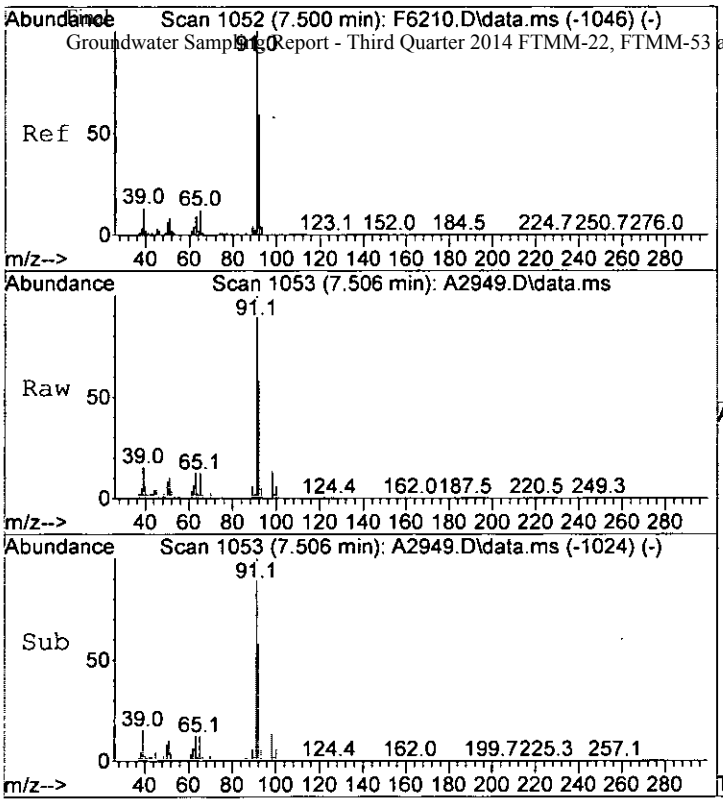


#49
Benzene
Concen: 8.99 ug/L
RT: 4.958 min Scan# 635
Delta R.T. -0.000 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion: 78 Resp: 308068

Ion	Ratio	Lower	Upper
78	100		
51	27.3	0.0	39.4
52	22.5	0.0	36.9

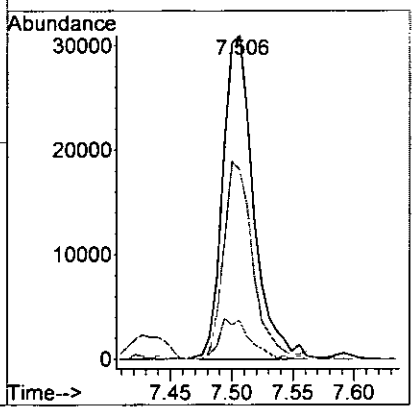


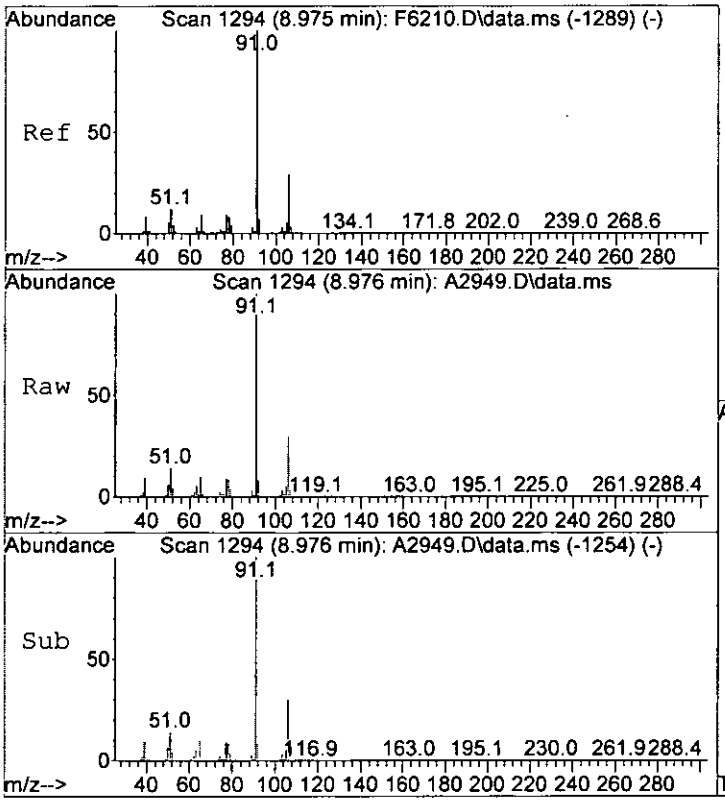


#66
Toluene
Concen: 1.50 ug/L
RT: 7.506 min Scan# 1053
Delta R.T. 0.006 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion: 91 Resp: 53840

Ion	Ratio	Lower	Upper
91	100		
92	58.3	39.5	79.5
65	12.1	0.0	32.0

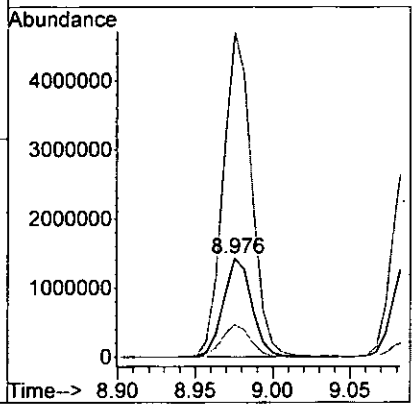




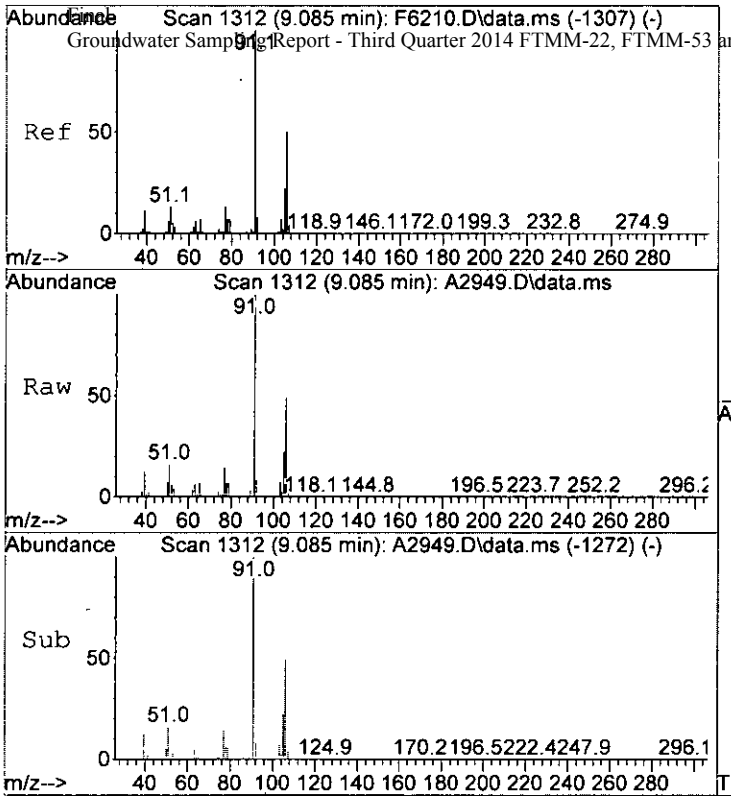
#82
Ethylbenzene
Concen: 142.88 ug/L
RT: 8.976 min Scan# 1294
Delta R.T. -0.006 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:106 Resp: 1806239

Ion	Ratio	Lower	Upper
106	100		
91	330.7	314.0	354.0
65	32.4	11.1	51.1



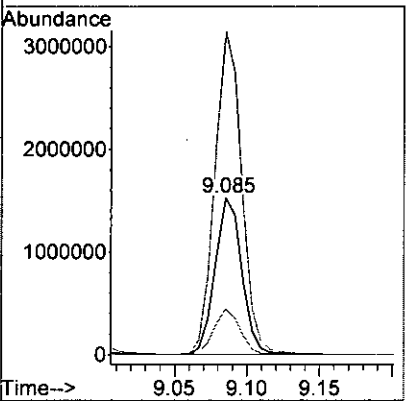
A2949.D W072114.M Wed Oct 15 15:27:49 2014 MSVO10 Page 4

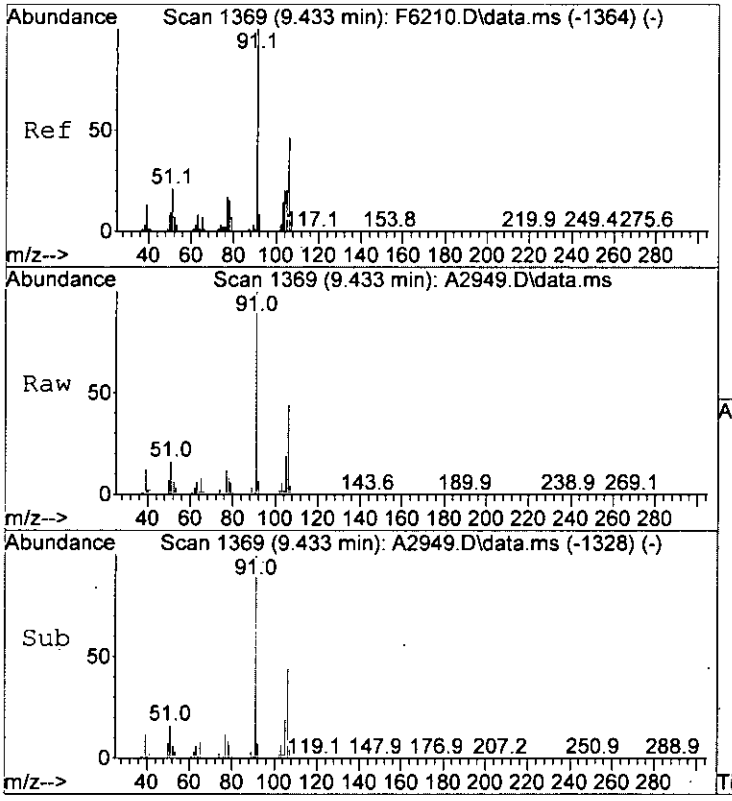


#83
(m+p)Xylene
Concen: 124.84 ug/L
RT: 9.085 min Scan# 1312
Delta R.T. -0.006 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:106 Resp: 1946204

Ion	Ratio	Lower	Upper
106	100		
91	206.0	183.8	223.8
77	28.8	8.7	48.7

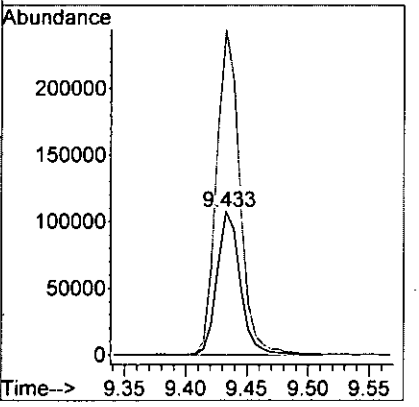


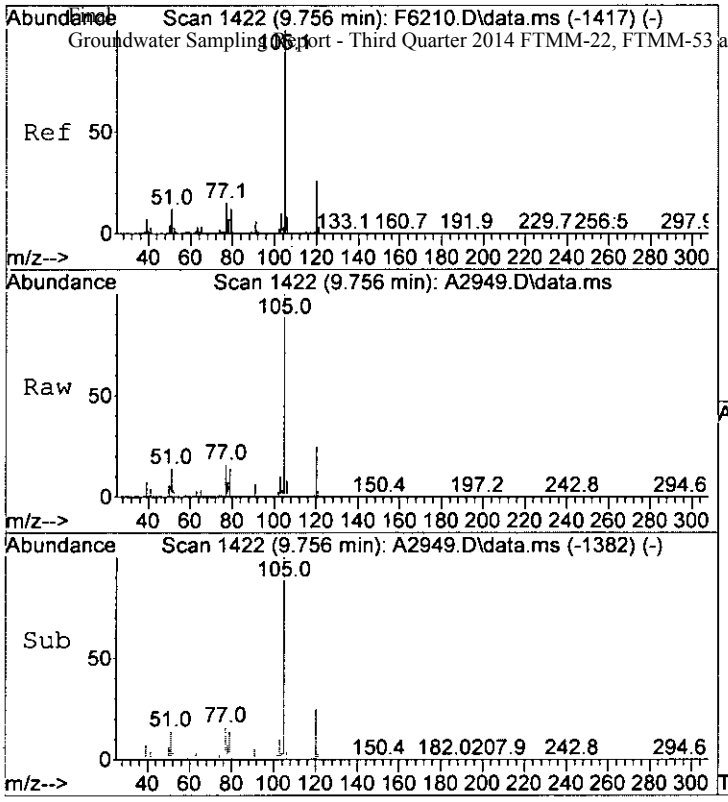


#84
o-Xylene
Concen: 9.26 ug/L
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:106 Resp: 141151

Ion	Ratio	Lower	Upper
106	100		
91	227.2	198.0	238.0

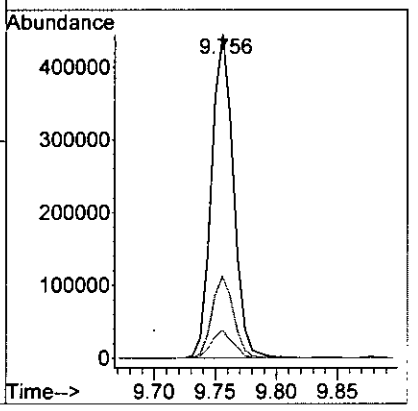


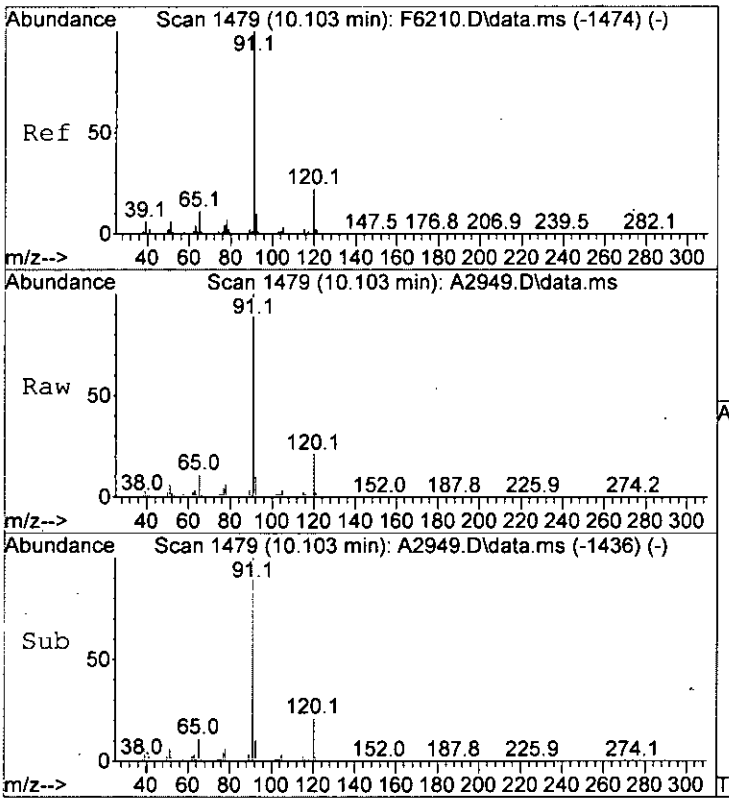


#88
Isopropylbenzene
Concen: 14.44 ug/L
RT: 9.756 min Scan# 1422
Delta R.T. -0.000 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:105 Resp: 553554

Ion	Ratio	Lower	Upper
105	100		
120	25.1	6.8	46.8
106	8.5	0.0	28.8

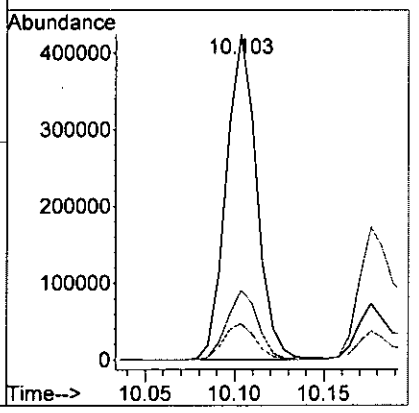


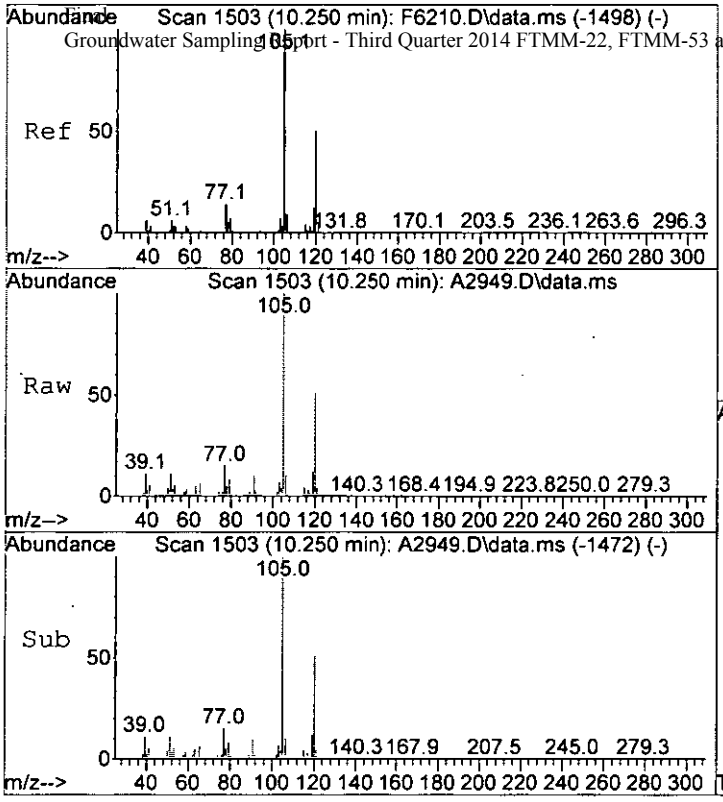


#95
n-Propylbenzene
Concen: 11.08 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion: 91 Resp: 501531

Ion	Ratio	Lower	Upper
91	100		
120	21.2	2.9	42.9
65	11.1	0.0	31.4

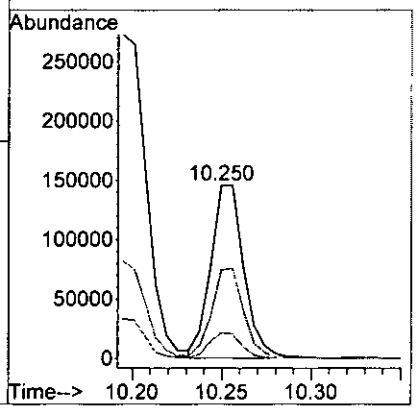


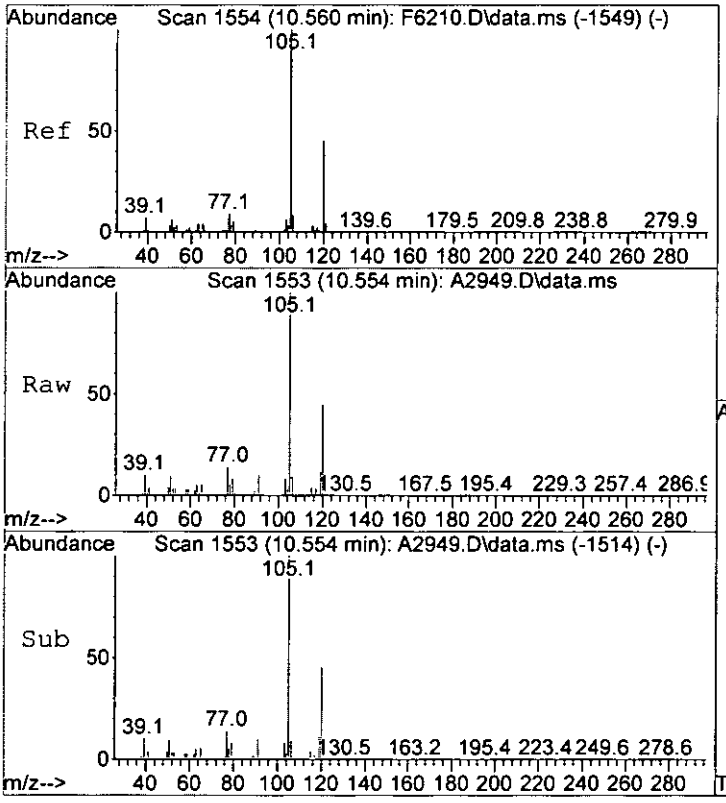


#99
1,3,5-Trimethylbenzene
Concen: 5.69 ug/L
RT: 10.250 min Scan# 1503
Delta R.T. -0.006 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:105 Resp: 187257

Ion	Ratio	Lower	Upper
105	100		
120	50.9	28.5	68.5
77	14.8	0.0	34.2

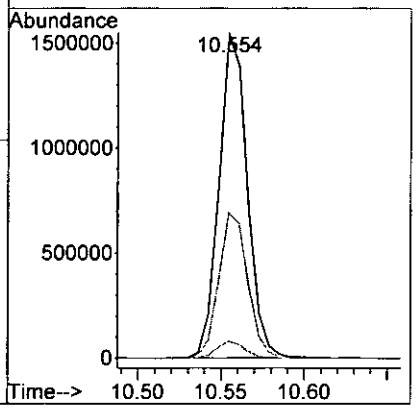




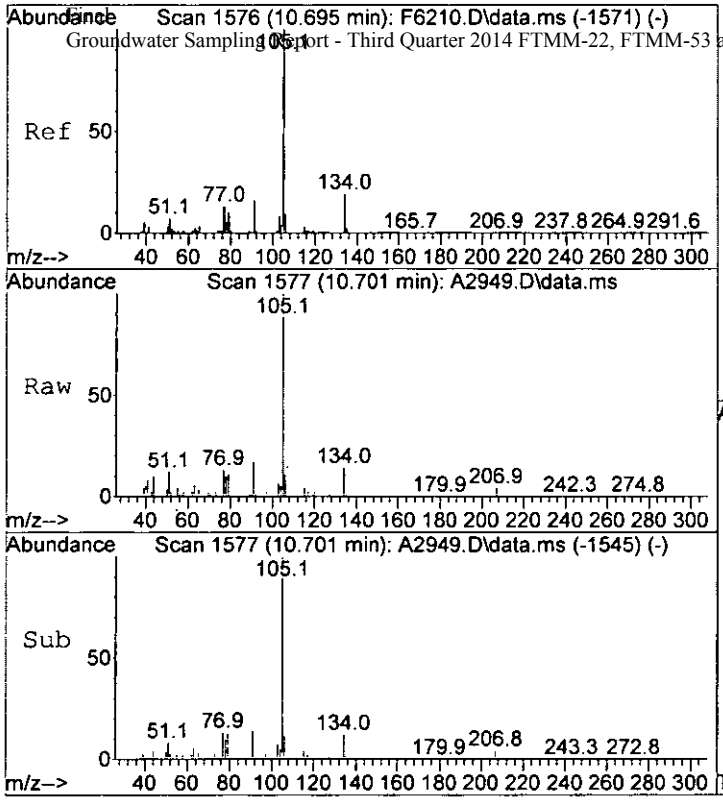
#101
1,2,4-Trimethylbenzene
Concen: 54.49 ug/L
RT: 10.554 min Scan# 1553
Delta R.T. -0.006 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:105 Resp: 1812771

Ion	Ratio	Lower	Upper
105	100		
120	44.8	24.9	64.9
65	5.2	0.0	25.0



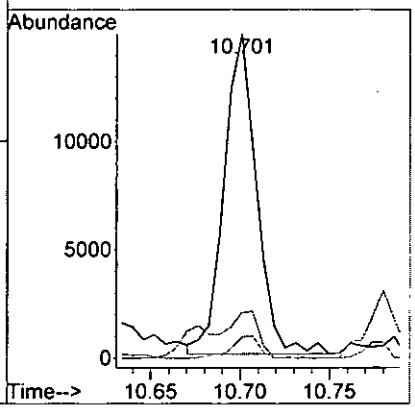
A2949.D W072114.M Wed Oct 15 15:27:53 2014 MSVO10

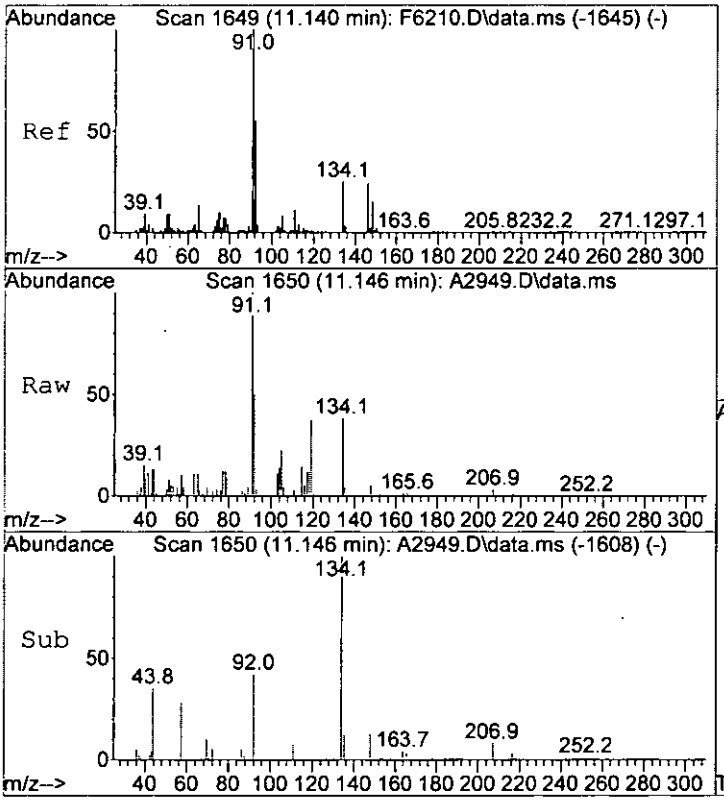


#103
sec-Butylbenzene
Concen: 0.48 ug/L
RT: 10.701 min Scan# 1577
Delta R.T. -0.000 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:105 Resp: 18701

Ion	Ratio	Lower	Upper
105	100		
134	13.9	0.0	38.9
103	6.4	0.0	28.6

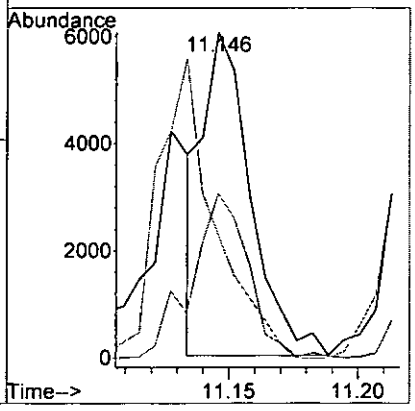


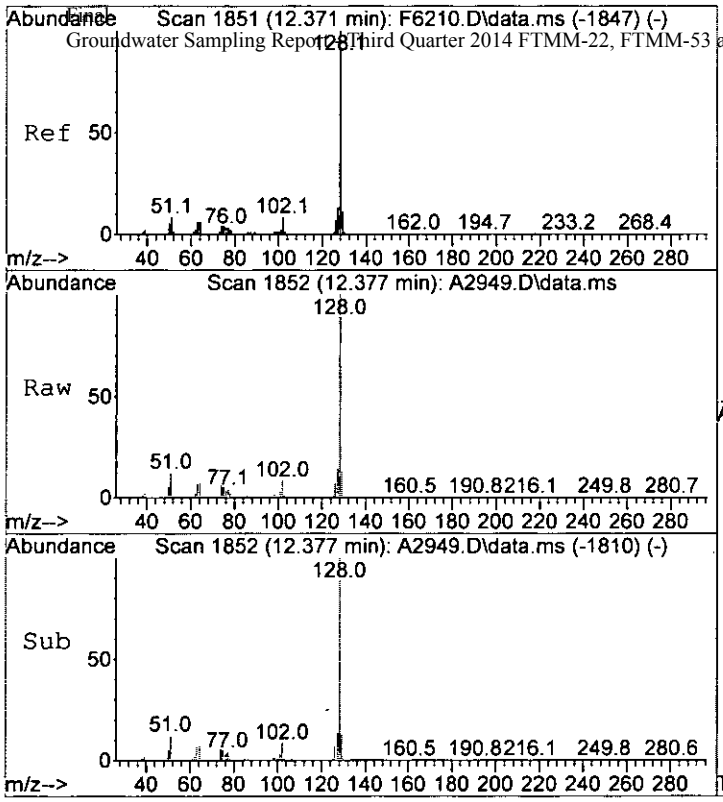


#109
n-Butylbenzene
Concen: 0.27 ug/L
RT: 11.146 min Scan# 1650
Delta R.T. 0.006 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion: 91 Resp: 7817

Ion	Ratio	Lower	Upper
91	100		
92	50.4	35.1	75.1
134	37.6	4.2	44.2

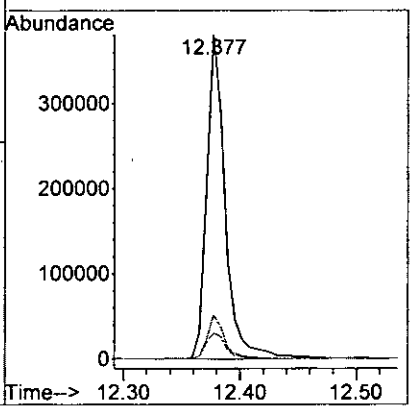




#117
Naphthalen
Concen: 21.85 ug/L
RT: 12.377 min Scan# 1852
Delta R.T. -0.000 min
Lab File: A2949.D
Acq: 14 Oct 2014 3:07 pm

Tgt Ion:128 Resp: 418551

Ion	Ratio	Lower	Upper
128	100		
127	13.6	0.0	32.9
102	8.0	0.0	28.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2949.D
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
Sample : R1407806-003|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2949.D\data.ms

FJ 10/15/14

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.660	89	94	98	rBV	631440	688363	4.76%	0.890%
2	1.812	115	119	125	rVB	192403	203801	1.41%	0.264%
3	2.440	216	222	224	rBV2	115792	215117	1.49%	0.278%
4	2.513	229	234	243	rVB	335941	552454	3.82%	0.715%
5	2.672	253	260	267	rBV2	111422	204393	1.41%	0.264%
6	3.562	397	406	418	rBV2	368028	828359	5.73%	1.071%
7	4.318	522	530	538	rBV	608022	1499380	10.37%	1.939%
8	4.403	538	544	560	rVB	1032046	2874133	19.88%	3.717%
9	4.854	610	618	628	rBV	531757	1429107	9.88%	1.848%
10	4.958	628	635	646	rVB2	258217	726995	5.03%	0.940%
11	5.129	654	663	673	rVB2	79527	237477	1.64%	0.307%
12	5.610	734	742	760	rBV	1533638	3443794	23.82%	4.454%
13	7.427	1035	1040	1049	rBV	2911034	4532815	31.35%	5.863%
14	7.506	1049	1053	1059	rVB	87206	153043	1.06%	0.198%
15	8.841	1267	1272	1286	rBV	3179164	4264582	29.49%	5.516%
16	8.976	1289	1294	1307	rVV	11406273	14459156	100.00%	18.701%
17	9.085	1307	1312	1329	rVB	9560008	12179828	84.24%	15.753%
18	9.433	1363	1369	1382	rBV	713995	950066	6.57%	1.229%
19	9.756	1417	1422	1434	rBV	1145101	1420871	9.83%	1.838%
20	9.878	1437	1442	1452	rBV	2803274	3513101	24.30%	4.544%
21	10.103	1474	1479	1486	rBV	873710	1060719	7.34%	1.372%
22	10.177	1486	1491	1499	rVV	1544770	2547004	17.62%	3.294%
23	10.250	1499	1503	1513	rVB	460638	586827	4.06%	0.759%
24	10.414	1525	1530	1540	rBV	2298712	2714977	18.78%	3.511%
25	10.554	1549	1553	1568	rVB	4547311	5376784	37.19%	6.954%
26	10.835	1594	1599	1605	rBV	3892215	4632764	32.04%	5.992%
27	10.896	1605	1609	1618	rVB	1105780	1320341	9.13%	1.708%
28	11.054	1630	1635	1644	rBV	2311509	2864201	19.81%	3.704%
29	11.408	1689	1693	1696	rBV	156475	170965	1.18%	0.221%
30	11.487	1702	1706	1713	rBV2	366341	446916	3.09%	0.578%
31	11.993	1783	1789	1794	rBV2	296391	325237	2.25%	0.421%
32	12.377	1848	1852	1863	rBV	822384	893460	6.18%	1.156%

Sum of corrected areas: 77317030

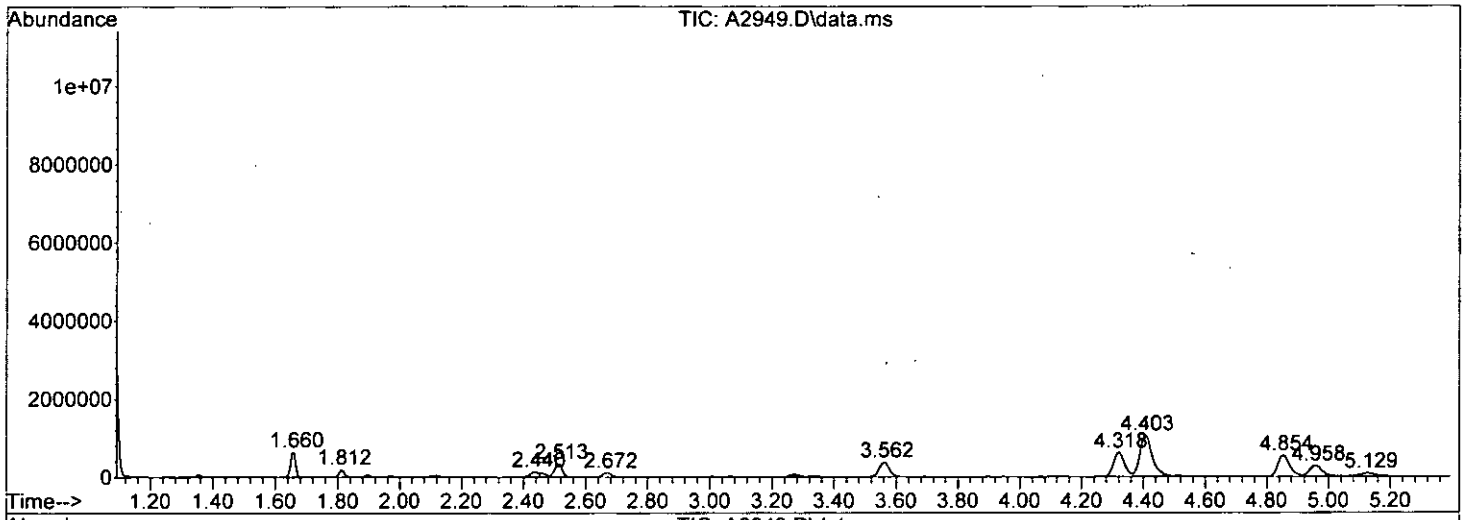
W072114.M Wed Oct 15 15:28:12 2014 MSVO10 Page: 1

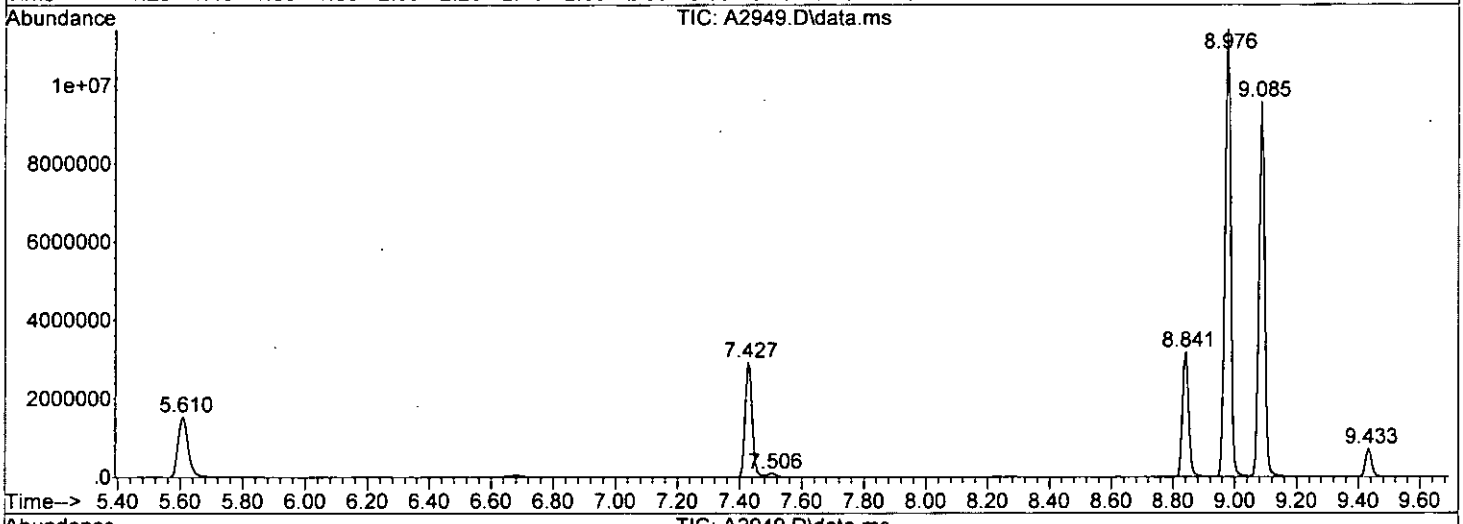
LSC Report - Integrated Chromatogram

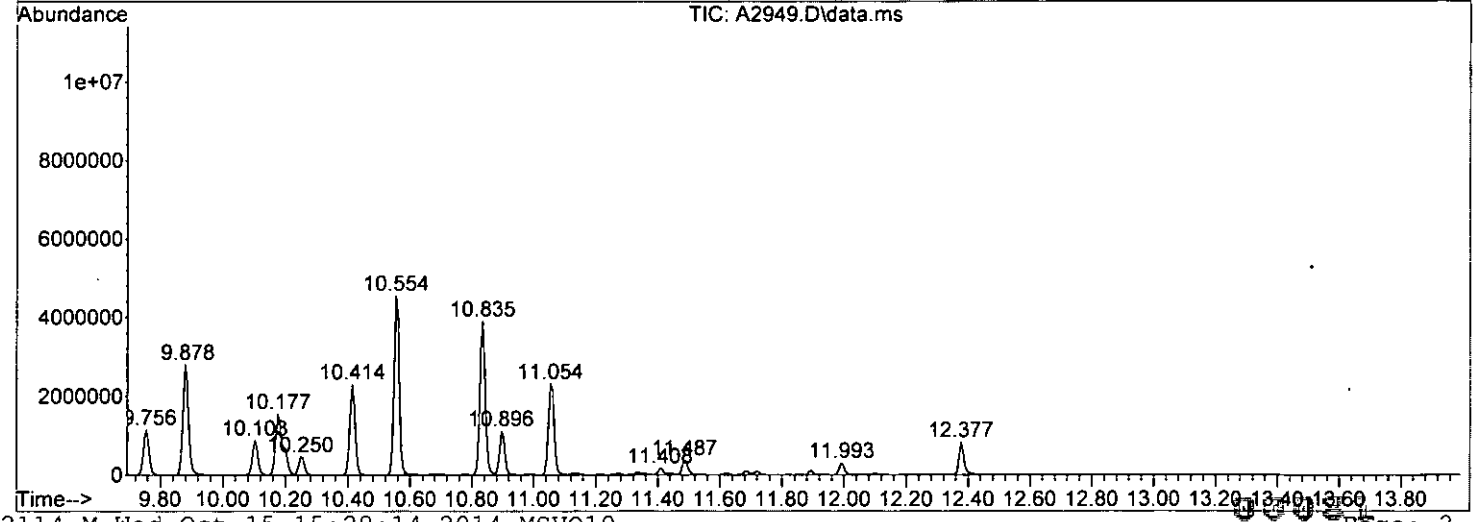
Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2949.D
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
Sample : R1407806-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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







W072114.M Wed Oct 15 15:28:14 2014 MSV010 Page: 2

Library Search Compound Report

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Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2949.D
Acq On    : 14 Oct 2014    3:07 pm
Operator  : F.NAEGLER
Sample    : R1407806-003|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

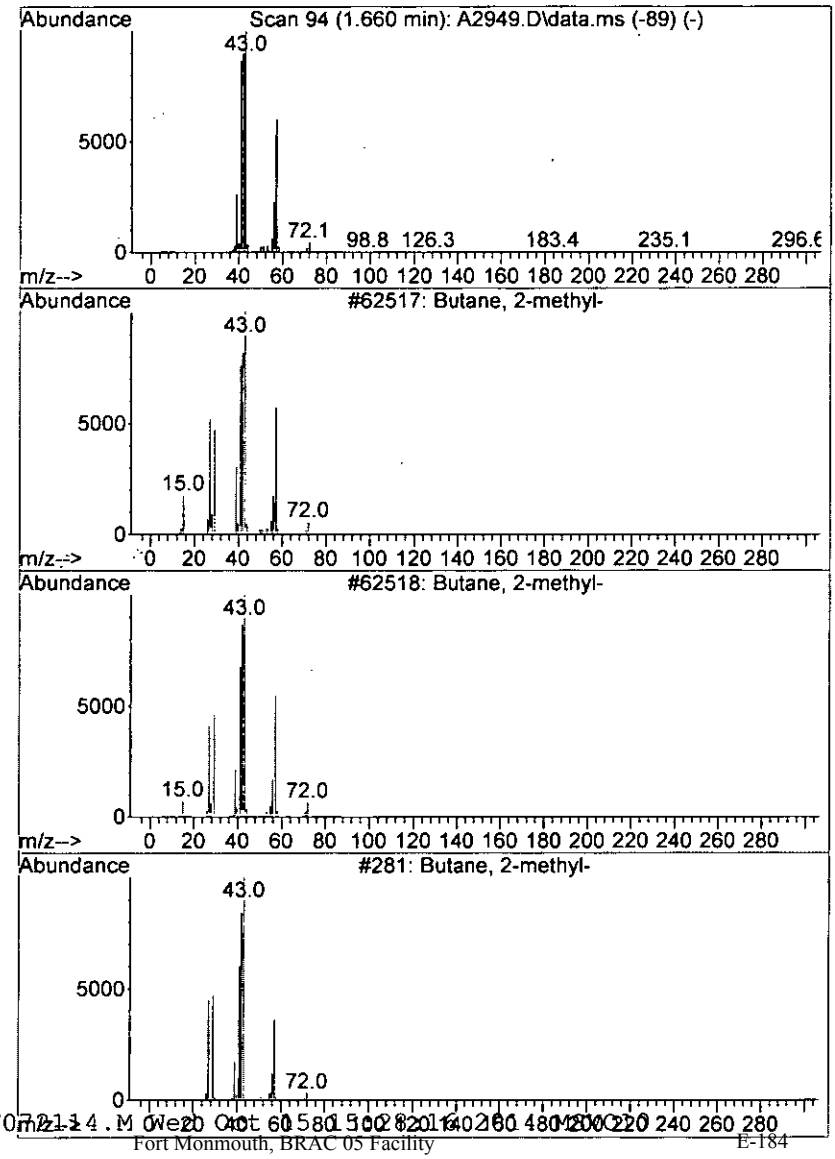
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TIC Integration Parameters: LSCINT.P
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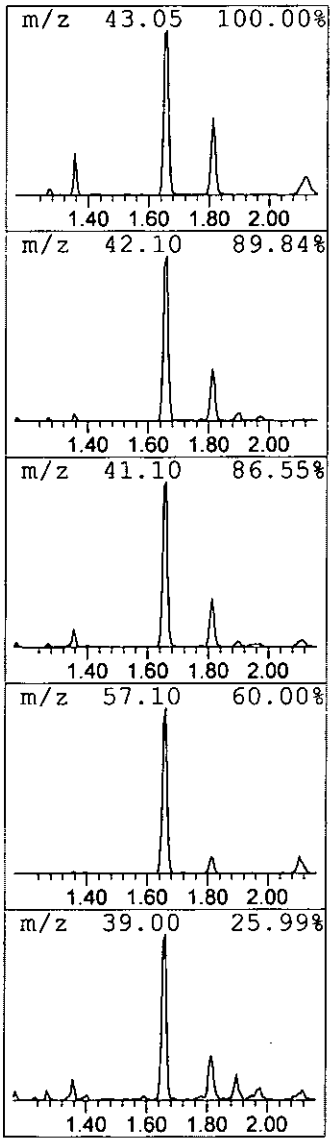
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Peak Number 1 Butane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.660	11.98 ug/L	688363	Pentafluorobenzene	4.409

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	83
3	Butane, 2-methyl-	72	C5H12	000078-78-4	80
4	Propiolactone	72	C3H4O2	000057-57-8	9
5	Methane, isocyanato-	57	C2H3NO	000624-83-9	9





Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2949.D
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
Sample : R1407806-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

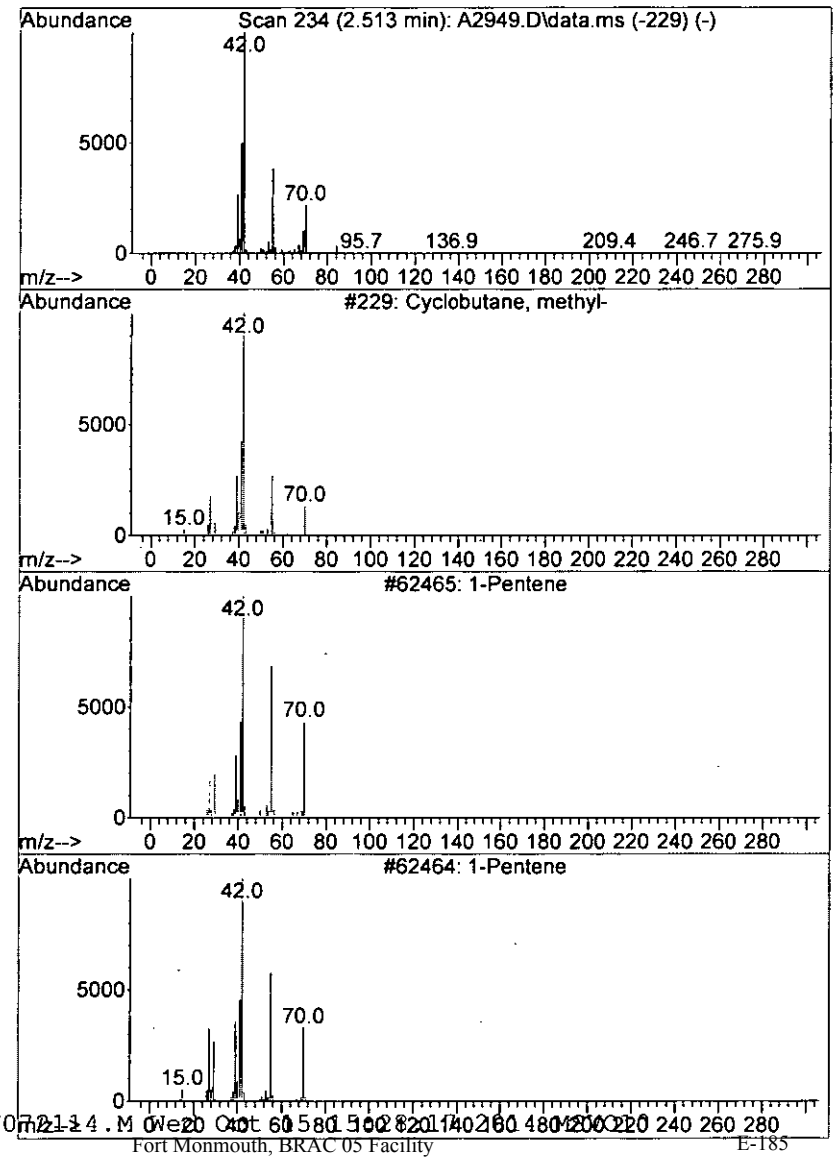
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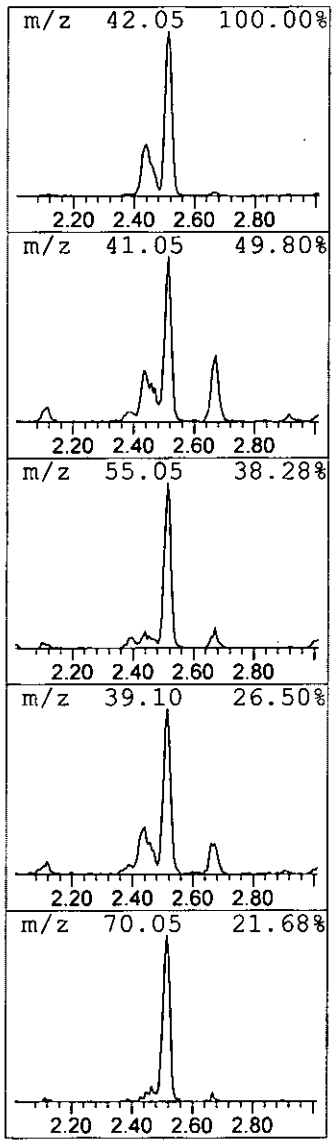
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Peak Number 2 Cyclobutane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.513	9.61 ug/L	552454	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	Cyclobutane, methyl-	70	C5H10	000598-61-8	72
2	1-Pentene	70	C5H10	000109-67-1	50
3	1-Pentene	70	C5H10	000109-67-1	43
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	43
5	1-Pentene	70	C5H10	000109-67-1	43





W072114.M Wed Oct 15 08:28:14 2014 Page: 4

Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2949.D
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
Sample : R1407806-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

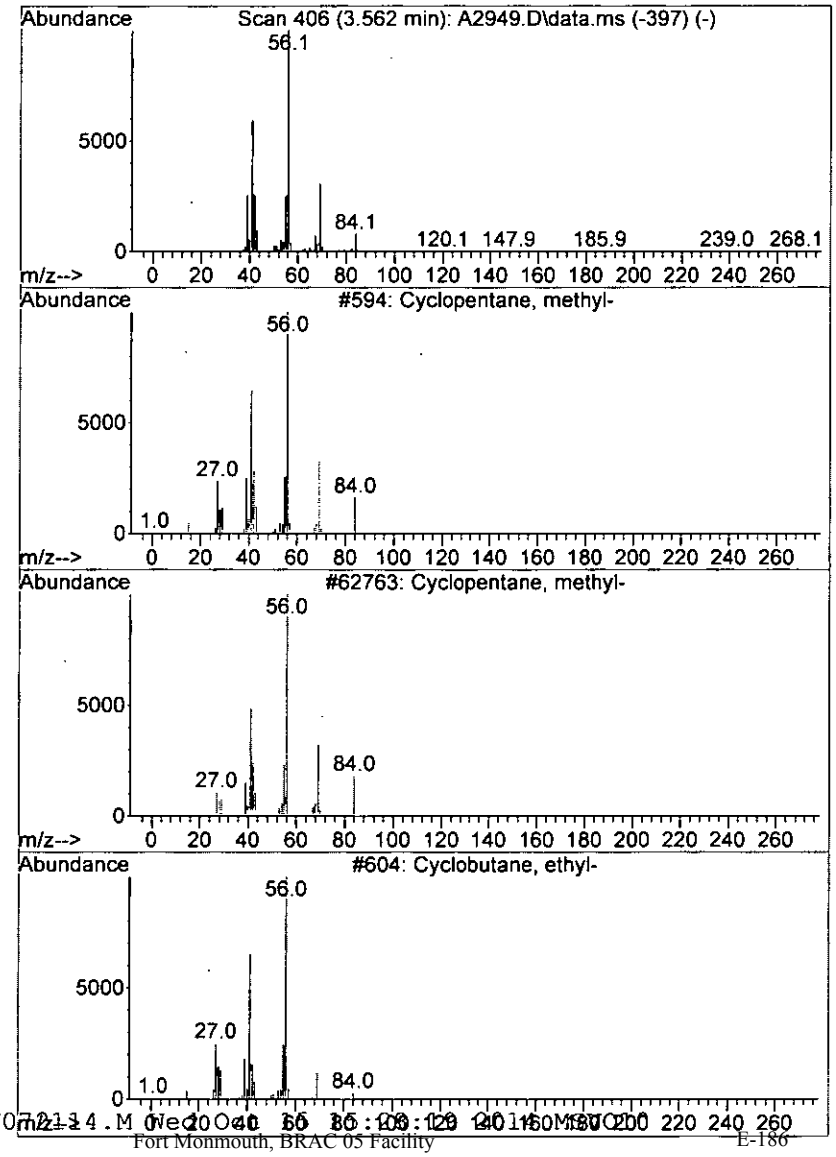
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TIC Integration Parameters: LSCINT.P

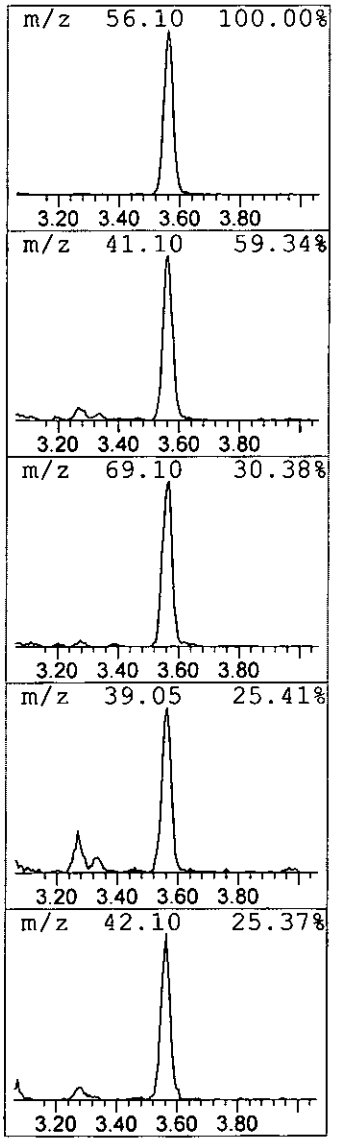
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Peak Number 3 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.562	14.41 ug/L	828359	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	83
3	Cyclobutane, ethyl-	84	C6H12	004806-61-5	78
4	Cyclopropane, propyl-	84	C6H12	002415-72-7	78
5	Cyclohexane	84	C6H12	000110-82-7	72





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2949.D
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
Sample : R1407806-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

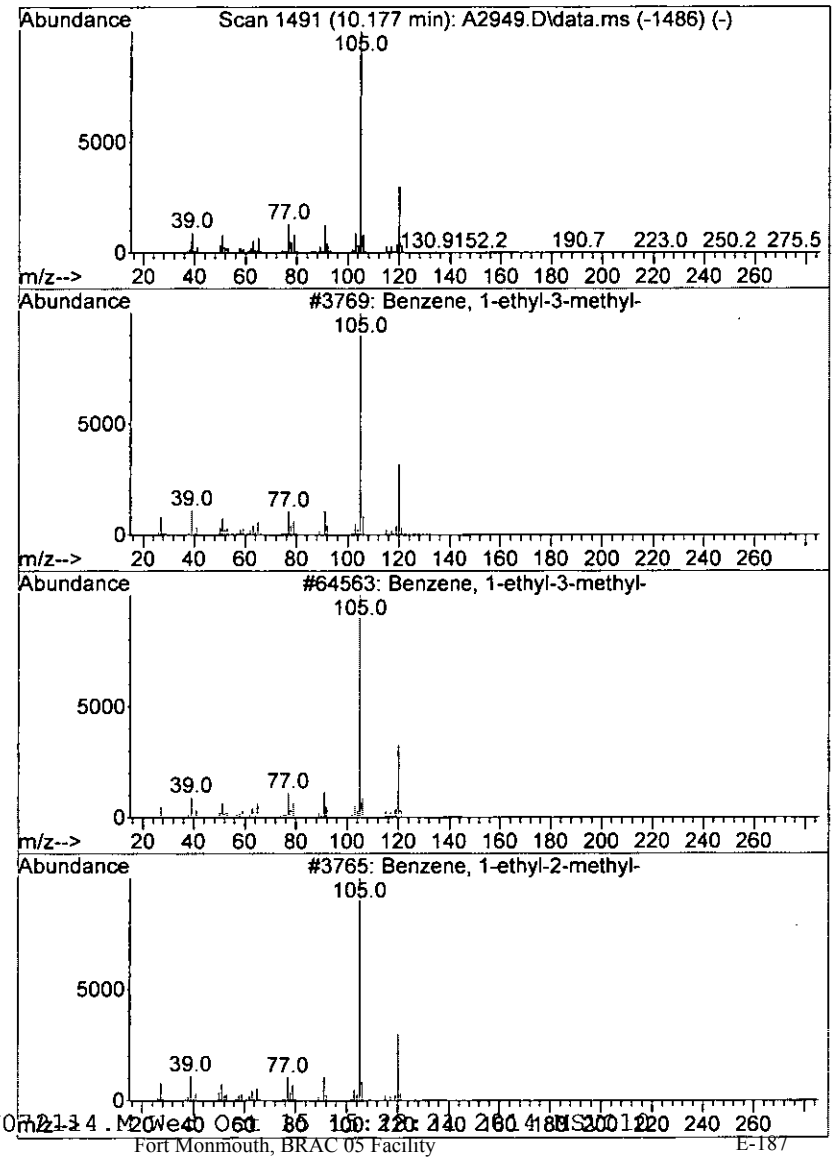
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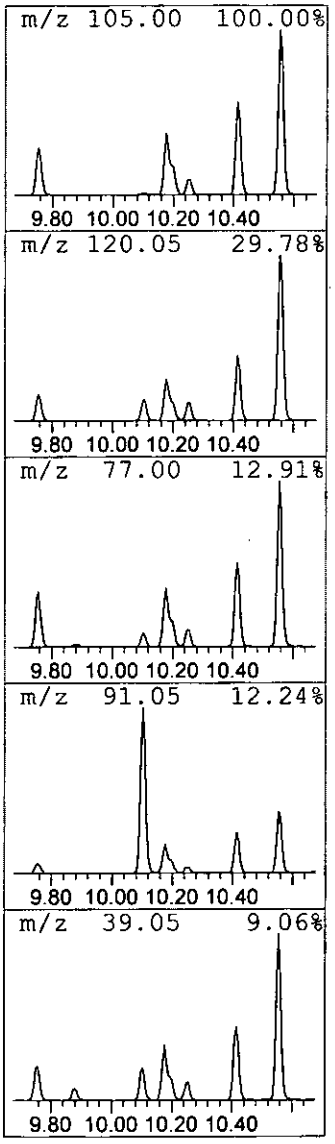
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Peak Number 4 Benzene, 1-ethyl-3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.177	27.49 ug/L	2547000	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	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	95





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2949.D
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
Sample : R1407806-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

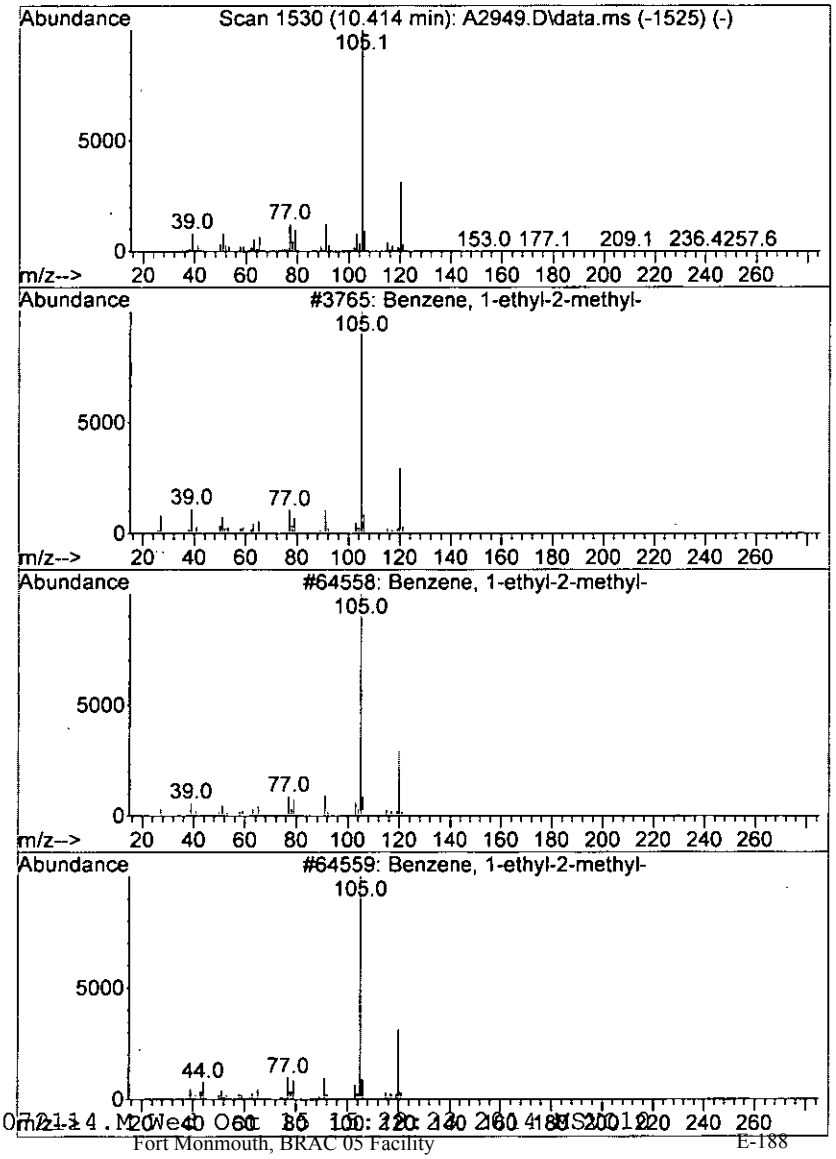
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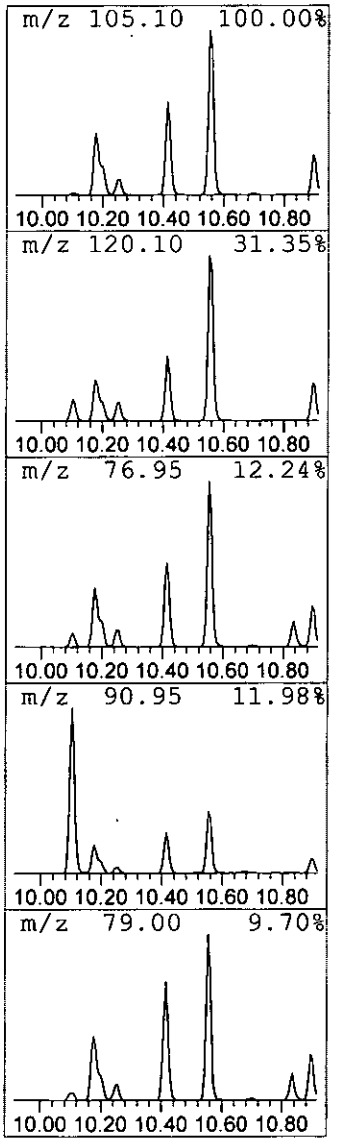
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Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.414	29.30 ug/L	2714980	1,4-Dichlorobenzene-d4	10.835

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





W072114.M Wed Oct 15 10:22:24 2014 MSVOA10

Library Search Compound Report

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Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2949.D
Acq On    : 14 Oct 2014    3:07 pm
Operator  : F.NAEGLER
Sample    : R1407806-003|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

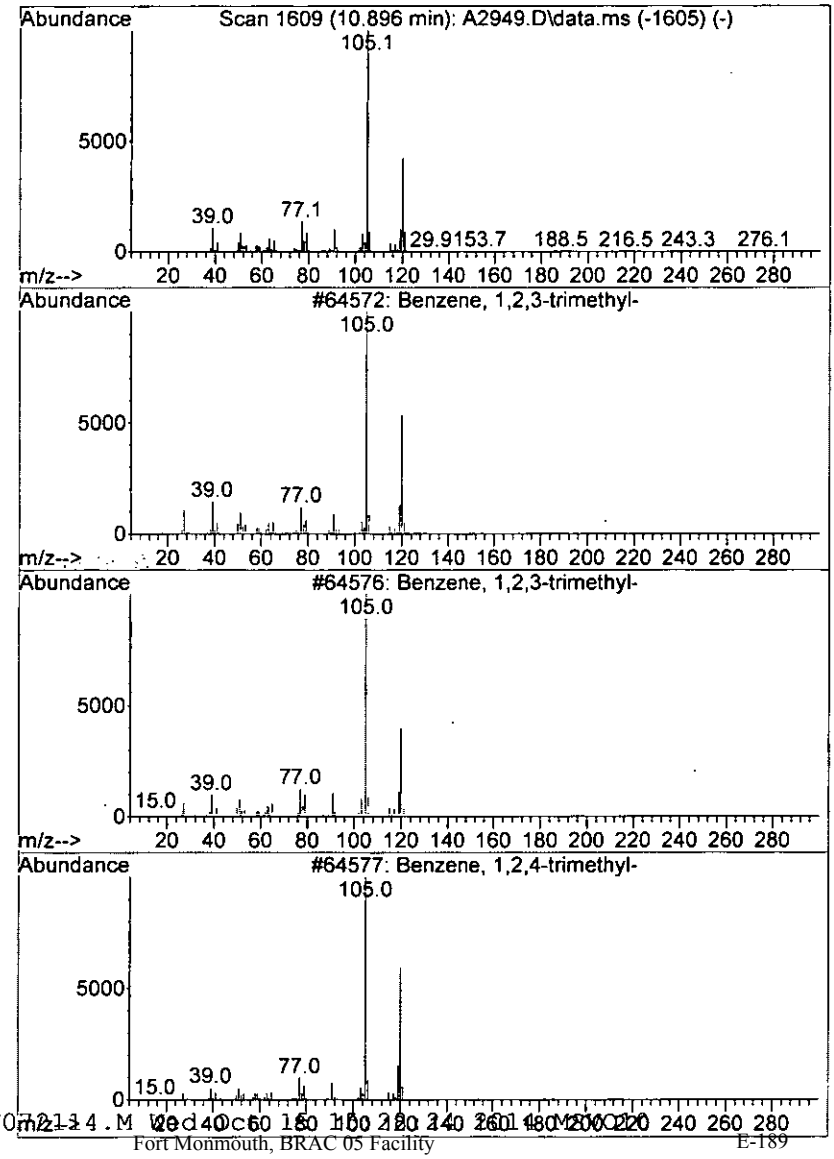
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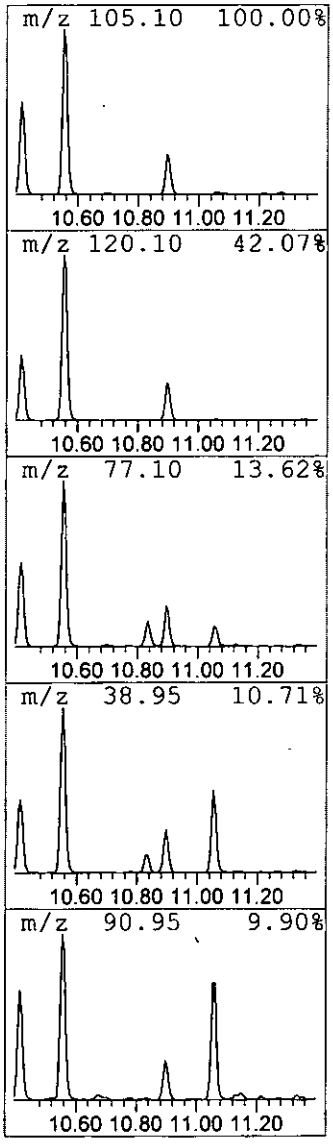
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Peak Number 6 Benzene, 1,2,3-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.896	14.25 ug/L	1320340	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2949.D
Acq On : 14 Oct 2014 3:07 pm
Operator : F.NAEGLER
Sample : R1407806-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

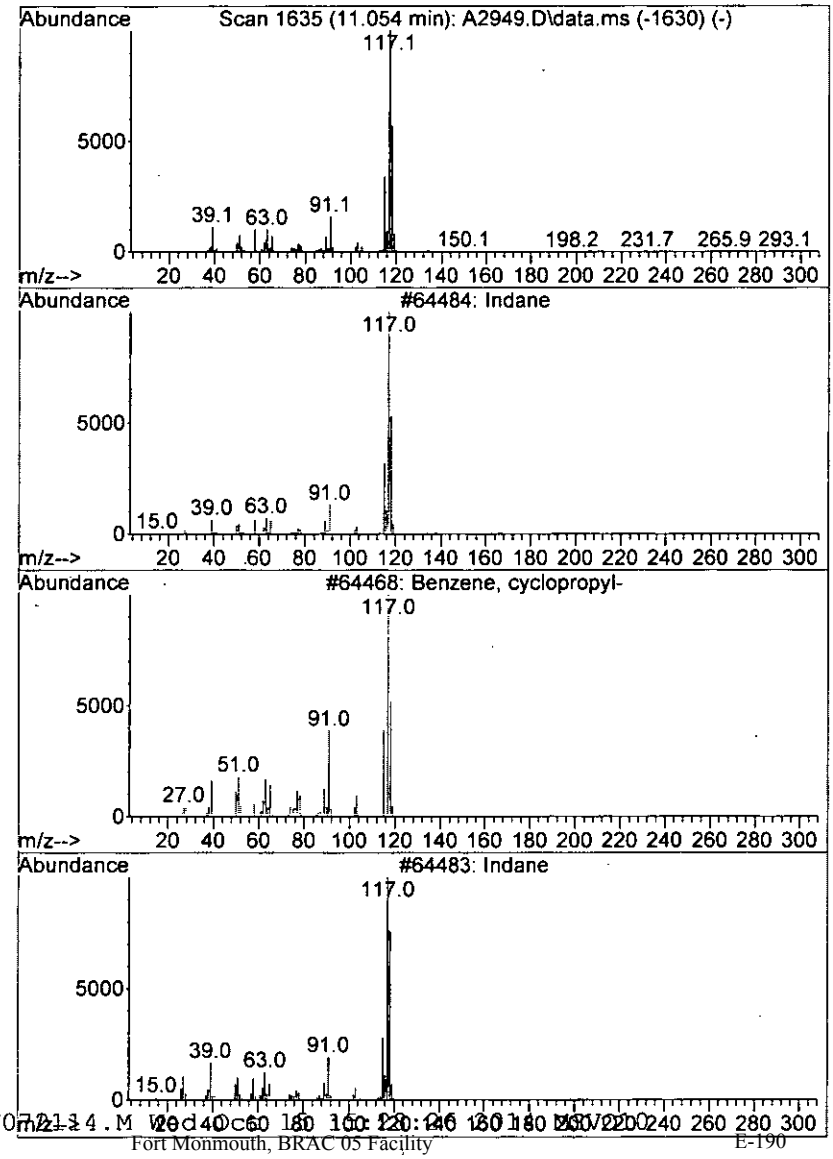
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TIC Integration Parameters: LSCINT.P

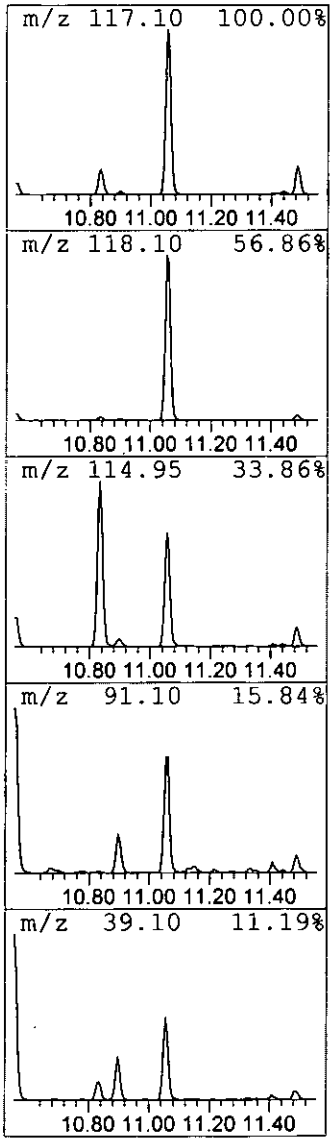
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Peak Number 7 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.054	30.91 ug/L	2864200	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	95
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	90
3	Indane	118	C9H10	000496-11-7	90
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	76
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	74





Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1055
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 15:57

Sample Name: FTMM-53-GW-699RW05-4.8
Lab Code: R1407806-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2774.D\

Analysis Lot: 415420
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	**1.4**	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	**0.22**	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	**14**		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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1055
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 15:57

Sample Name: FTMM-53-GW-699RW05-4.8
Lab Code: R1407806-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2774.D\

Analysis Lot: 415420
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	0.32	
100-41-4	Ethylbenzene	**0.51**	J	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	**0.33**	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	**0.88**	J	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	**1.0**	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	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1055
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 15:57
Sample Name:	FTMM-53-GW-699RW05-4.8	**Units:**	µg/L
Lab Code:	R1407806-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2774.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	10/9/14 15:57	
Dibromofluoromethane	107	85-115	10/9/14 15:57	
Toluene-d8	102	85-120	10/9/14 15:57	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1557

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

Sample Name: FTMM-53-GW-699RW05-4.8
Lab Code: R1407806-004

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000096-37-7	Cyclopentane, methyl-	3.56	5.7	JN

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-004|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2774.D Vial: 13
Acq On : 9 Oct 2014 3:57 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:24:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	917102	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1279951	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1148760	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	624658	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	438311	53.70	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.40%				
48) surr1,1,2-dichloroetha...	4.854	65	498459	57.87	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 115.74%				
65) SURR3,Toluene-d8	7.427	98	1469339	51.12	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.24%				
70) SURR2,BFB	9.878	95	589440	52.11	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.22%				
Target Compounds							Qvalue
15) Acetone	2.123	43	38859	13.91	ug/L		93
82) Ethylbenzene	8.988	106	5592	0.51	ug/L	#	71
83) (m+p)Xylene	9.098	106	11924	0.88	ug/L	#	73
84) o-Xylene	9.445	106	13760	1.03	ug/L	#	81
99) 1,3,5-Trimethylbenzene	10.262	105	6244	0.22	ug/L		98
101) 1,2,4-Trimethylbenzene	10.561	105	40925	1.43	ug/L		98
117) Naphthalen	12.420	128	5422	0.33	ug/L		83

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

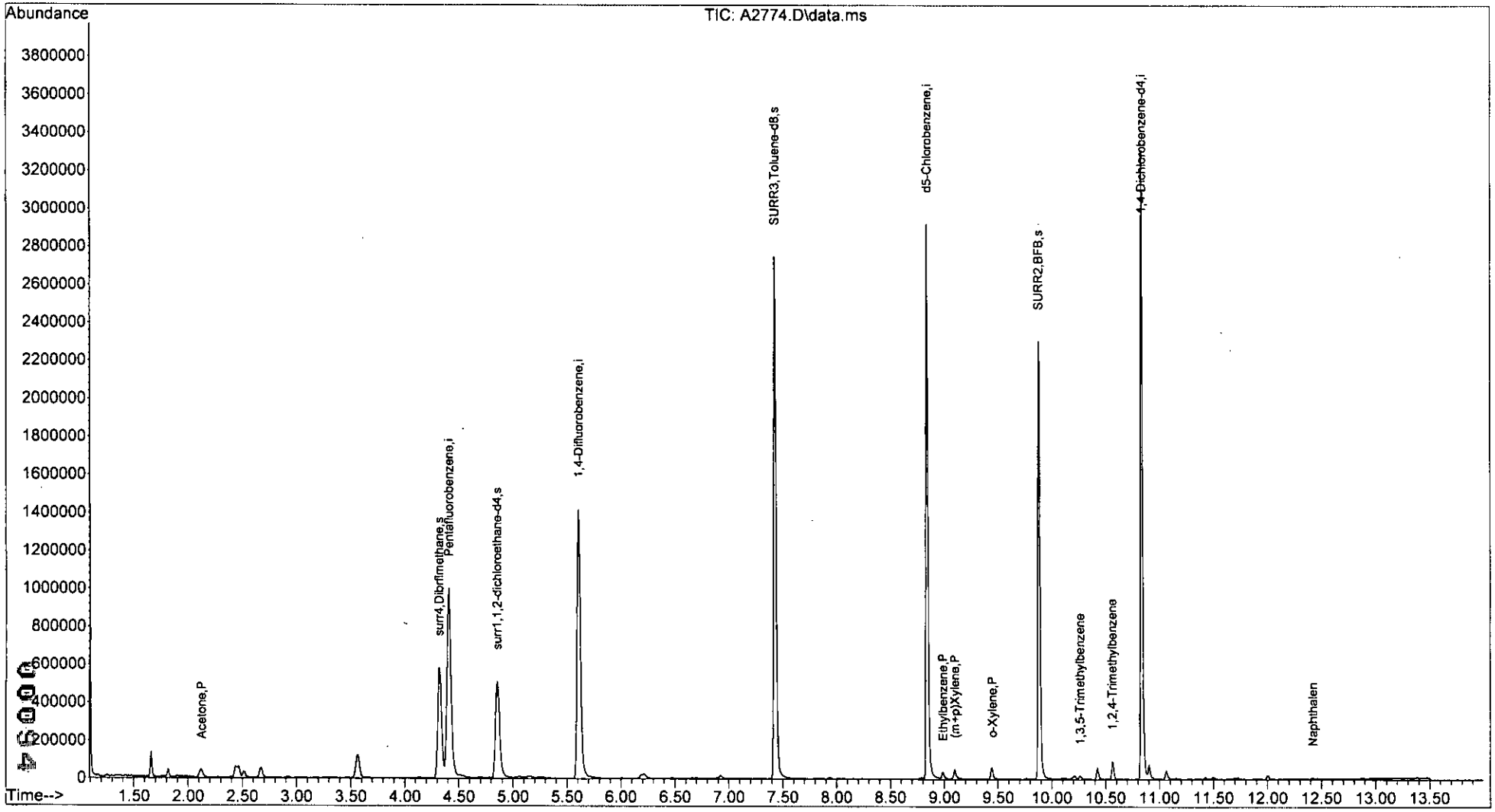
FV 12/12/14

W072114.M Tue Oct 14 14:26:06 2014 MSVO10 Page: 1

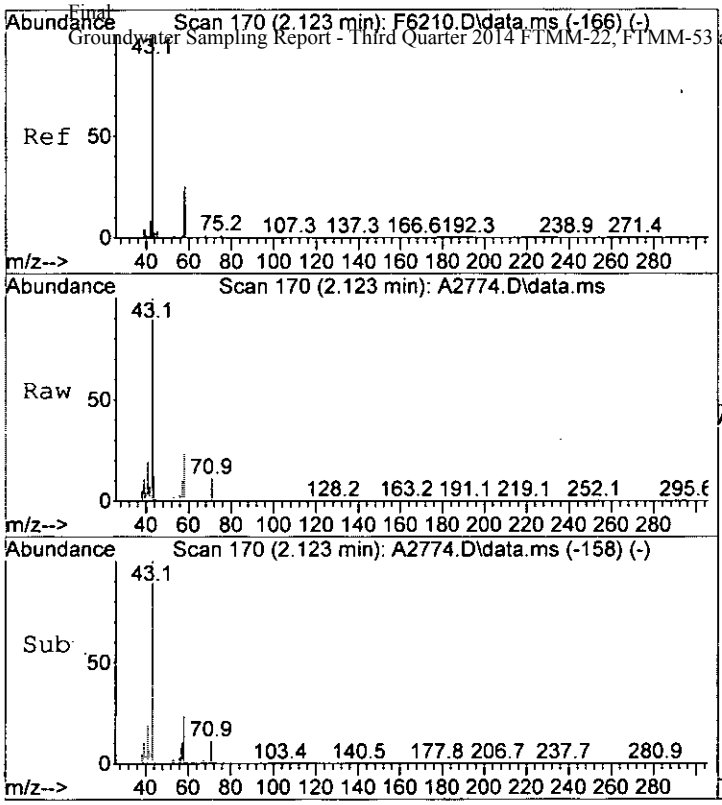
Quantitation Report (QT Reviewed)

Sample : R1407806-004|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2774.D Vial: 13
Acq On : 9 Oct 2014 3:57 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:24:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



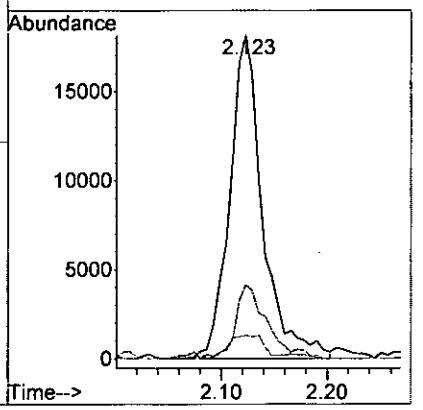
W072114.M Tue Oct 14 14:26:08 2014 MSVO10 Page: 2

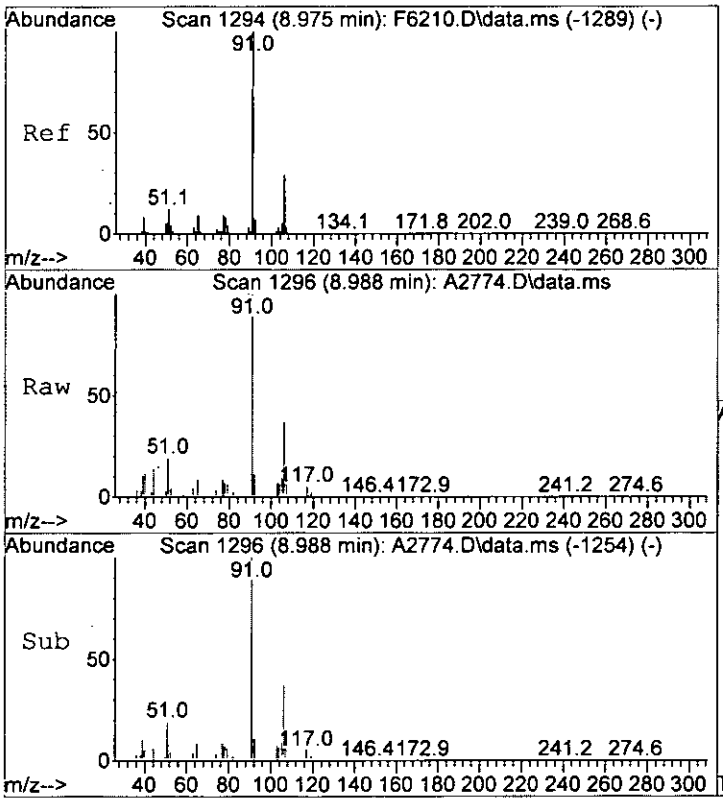


#15
Acetone
Concen: 13.91 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2774.D
Acq: 9 Oct 2014 3:57 pm

Tgt Ion: 43 Resp: 38859

Ion	Ratio	Lower	Upper
43	100		
58	22.7	7.2	47.2
42	7.1	0.0	27.0

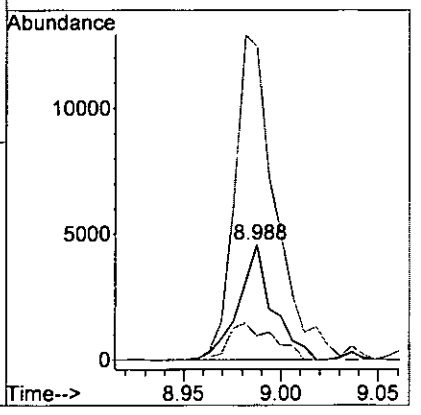


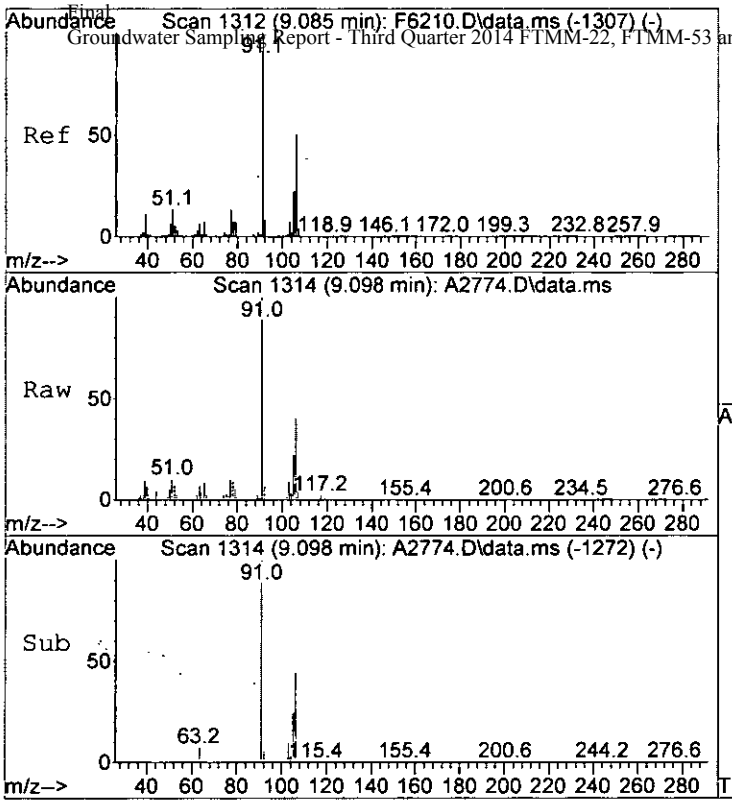


#82
Ethylbenzene
Concen: 0.51 ug/L
RT: 8.988 min Scan# 1296
Delta R.T. 0.006 min
Lab File: A2774.D
Acq: 9 Oct 2014 3:57 pm

Tgt Ion:106 Resp: 5592

Ion	Ratio	Lower	Upper
106	100		
91	271.6	314.0	354.0#
65	20.6	11.1	51.1

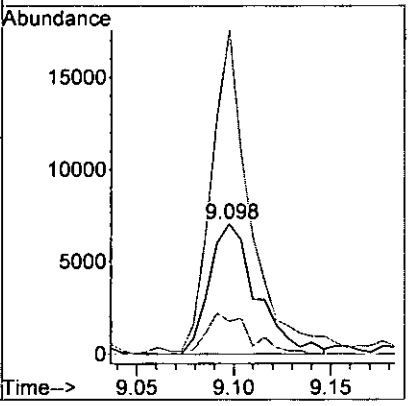


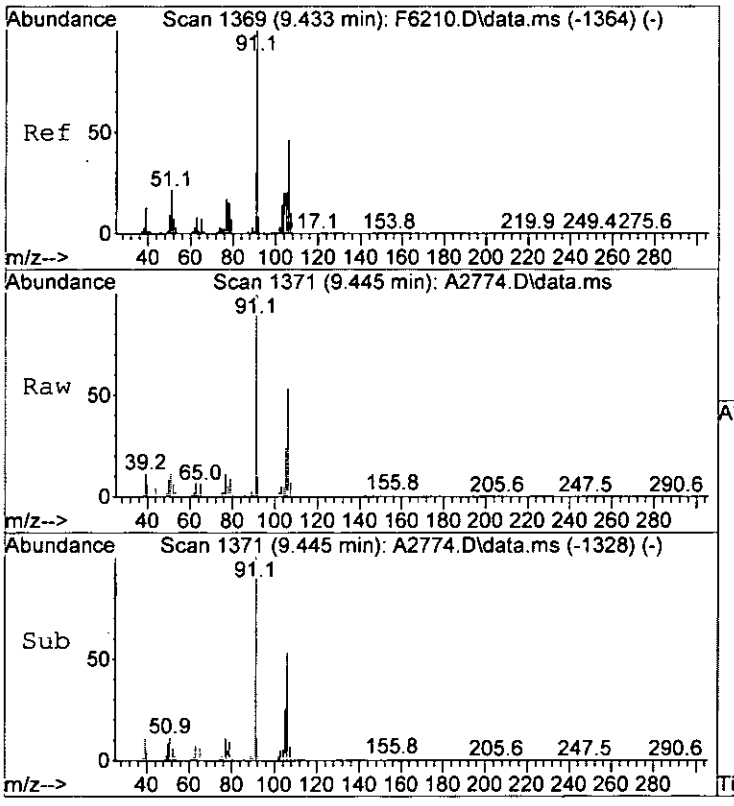


#83
(m+p)Xylene
Concen: 0.88 ug/L
RT: 9.098 min Scan# 1314
Delta R.T. 0.006 min
Lab File: A2774.D
Acq: 9 Oct 2014 3:57 pm

Tgt Ion:106 Resp: 11924

Ion	Ratio	Lower	Upper
106	100		
91	248.6	183.8	223.8#
77	24.9	8.7	48.7

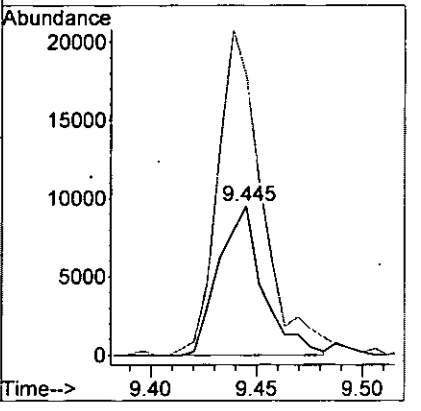


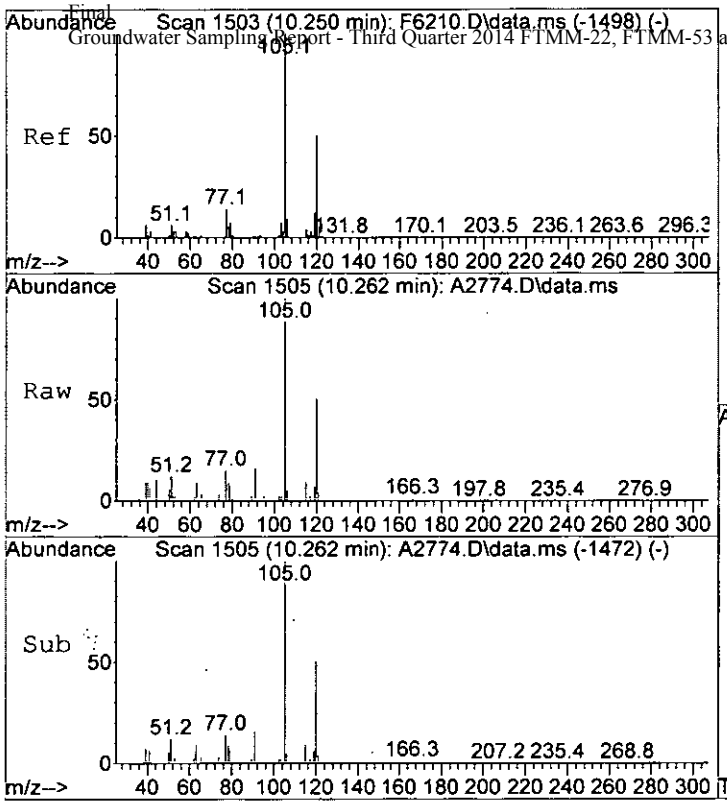


#84
o-Xylene
Concen: 1.03 ug/L
RT: 9.445 min Scan# 1371
Delta R.T. 0.012 min
Lab File: A2774.D
Acq: 9 Oct 2014 3:57 pm

Tgt Ion:106 Resp: 13760

Ion	Ratio	Lower	Upper
106	100		
91	187.6	198.0	238.0#

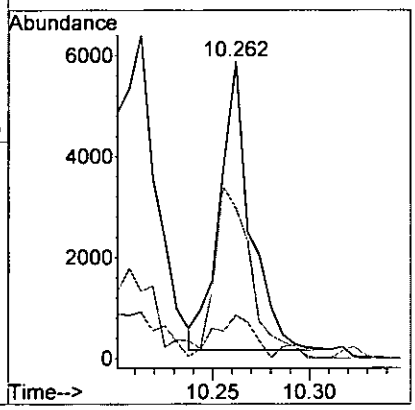


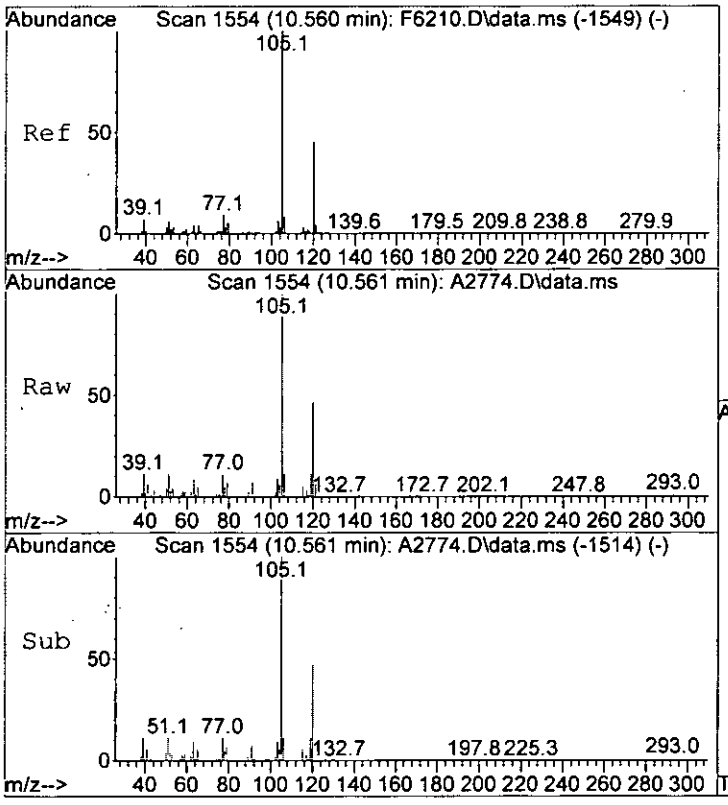


#99
1,3,5-Trimethylbenzene
Concen: 0.22 ug/L
RT: 10.262 min Scan# 1505
Delta R.T. 0.006 min
Lab File: A2774.D
Acq: 9 Oct 2014 3:57 pm

Tgt Ion:105 Resp: 6244

Ion	Ratio	Lower	Upper
105	100		
120	50.5	28.5	68.5
77	14.5	0.0	34.2

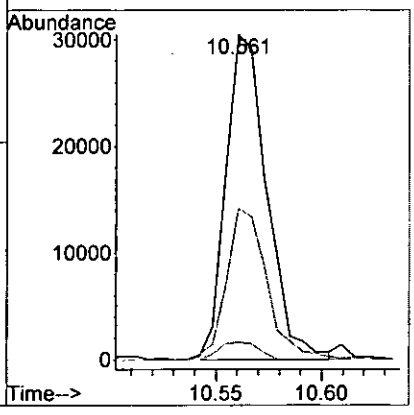


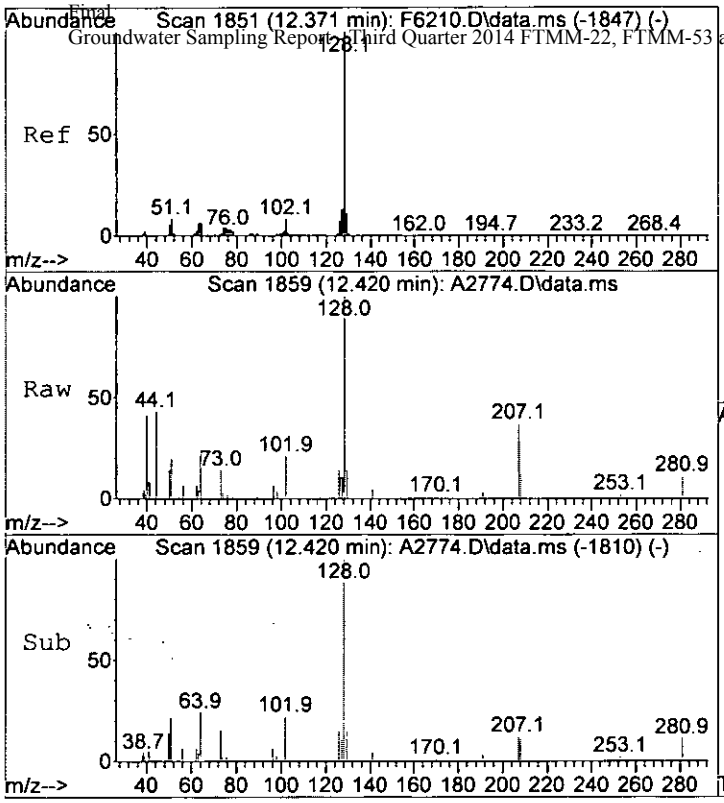


#101
1,2,4-Trimethylbenzene
Concen: 1.43 ug/L
RT: 10.561 min Scan# 1554
Delta R.T. 0.000 min
Lab File: A2774.D
Acq: 9 Oct 2014 3:57 pm

Tgt Ion:105 Resp: 40925

Ion	Ratio	Lower	Upper
105	100		
120	46.4	24.9	64.9
65	5.3	0.0	25.0

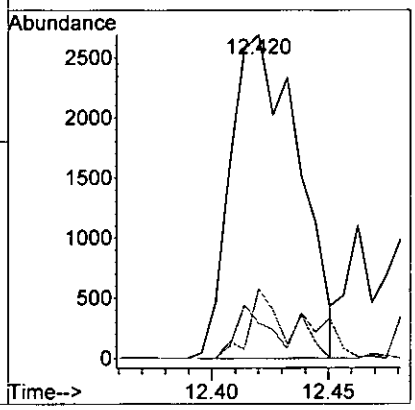




#117
Naphthalen
Concen: 0.33 ug/L
RT: 12.420 min Scan# 1859
Delta R.T. 0.043 min
Lab File: A2774.D
Acq: 9 Oct 2014 3:57 pm

Tgt Ion:128 Resp: 5422

Ion	Ratio	Lower	Upper
128	100		
127	10.9	0.0	32.9
102	21.4	0.0	28.7



A2774.D W072114.M Tue Oct 14 14:26:13 2014 MSVO10 Page 6

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2774.D
Acq On : 9 Oct 2014 3:57 pm
Operator : F.NAEGLER
Sample : R1407806-004|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2774.D\data.ms

FD 10/14/14

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.660	89	94	102	rVB	131942	139000	3.31%	0.554%
2	1.812	116	119	125	rVB	42097	46558	1.11%	0.186%
3	2.117	162	169	178	rBV3	40668	89739	2.13%	0.358%
4	2.434	217	221	224	rBV2	56245	100131	2.38%	0.399%
5	2.513	230	234	240	rVB2	29036	52461	1.25%	0.209%
6	2.672	252	260	269	rBV	54281	106834	2.54%	0.426%
7	3.562	396	406	417	rBV2	120560	294534	7.00%	1.175%
8	4.318	521	530	538	rBV	580535	1417520	33.71%	5.653%
9	4.409	538	545	558	rVB	989116	2573277	61.19%	10.261%
10	4.854	609	618	632	rBV2	507442	1370462	32.59%	5.465%
11	5.610	734	742	756	rBV	1415847	3173272	75.46%	12.654%
12	6.208	829	840	847	rBV9	21508	78201	1.86%	0.312%
13	7.427	1035	1040	1058	rBV	2743806	4205463	100.00%	16.770%
14	8.841	1267	1272	1290	rBV	2915255	3813264	90.67%	15.206%
15	8.988	1292	1296	1303	rVB	33545	52136	1.24%	0.208%
16	9.098	1308	1314	1321	rBV2	48230	75389	1.79%	0.301%
17	9.439	1364	1370	1380	rBV3	56716	92311	2.20%	0.368%
18	9.878	1438	1442	1457	rBV	2299135	3024094	71.91%	12.059%
19	10.420	1526	1531	1538	rBV	57299	77746	1.85%	0.310%
20	10.561	1549	1554	1560	rBV	93503	122200	2.91%	0.487%
21	10.835	1594	1599	1607	rBV	3306840	4004061	95.21%	15.967%
22	10.902	1607	1610	1622	rVB2	71583	104596	2.49%	0.417%
23	11.061	1631	1636	1644	rBV3	42802	64030	1.52%	0.255%

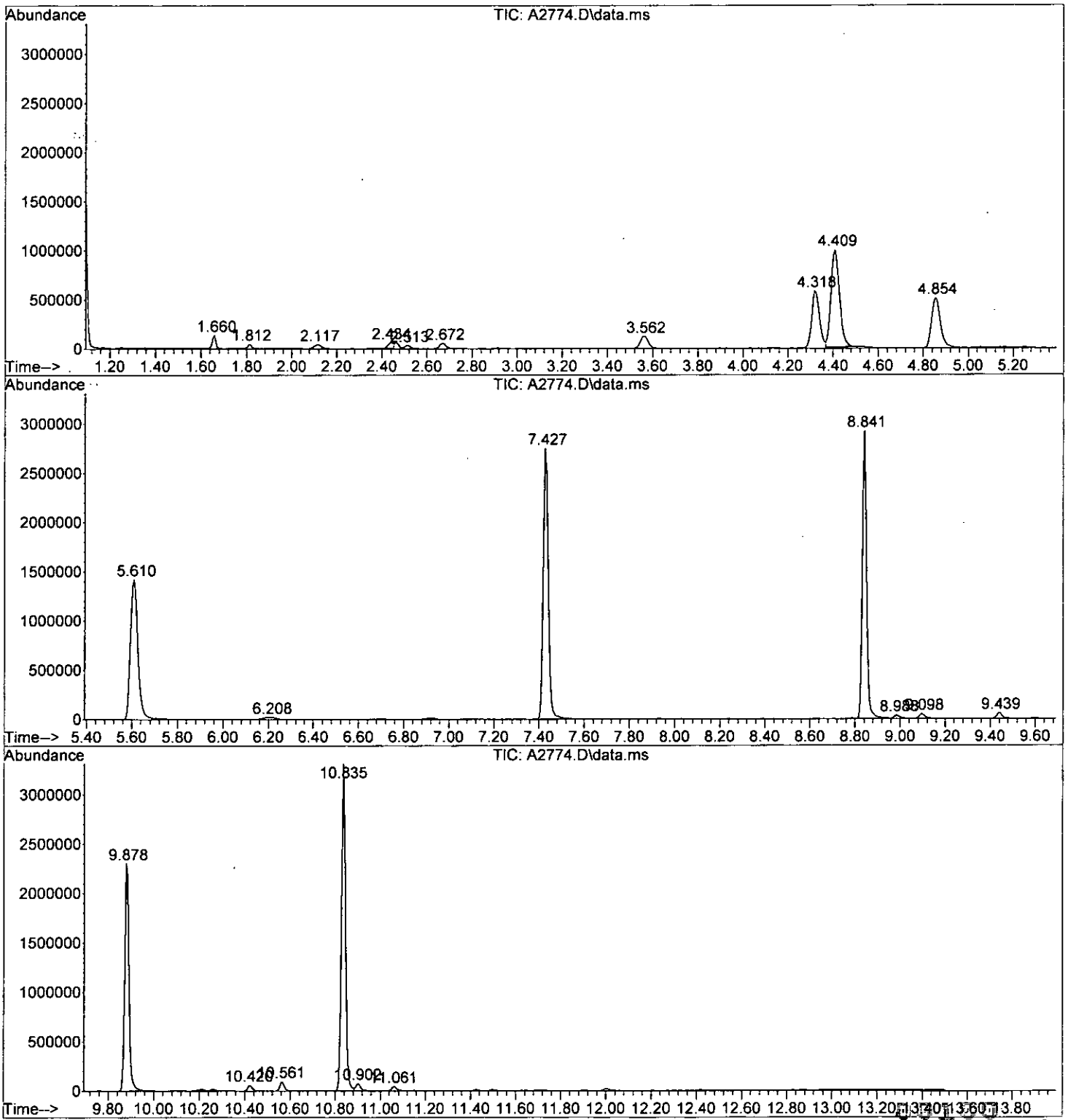
Sum of corrected areas: 25077279

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2774.D
Acq On    :  9 Oct 2014    3:57 pm
Operator  : F.NAEGLER
Sample    : R1407806-004|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:26:21 2014 MSVO10 Page: 2

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2774.D
Acq On : 9 Oct 2014 3:57 pm
Operator : F.NAEGLER
Sample : R1407806-004|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

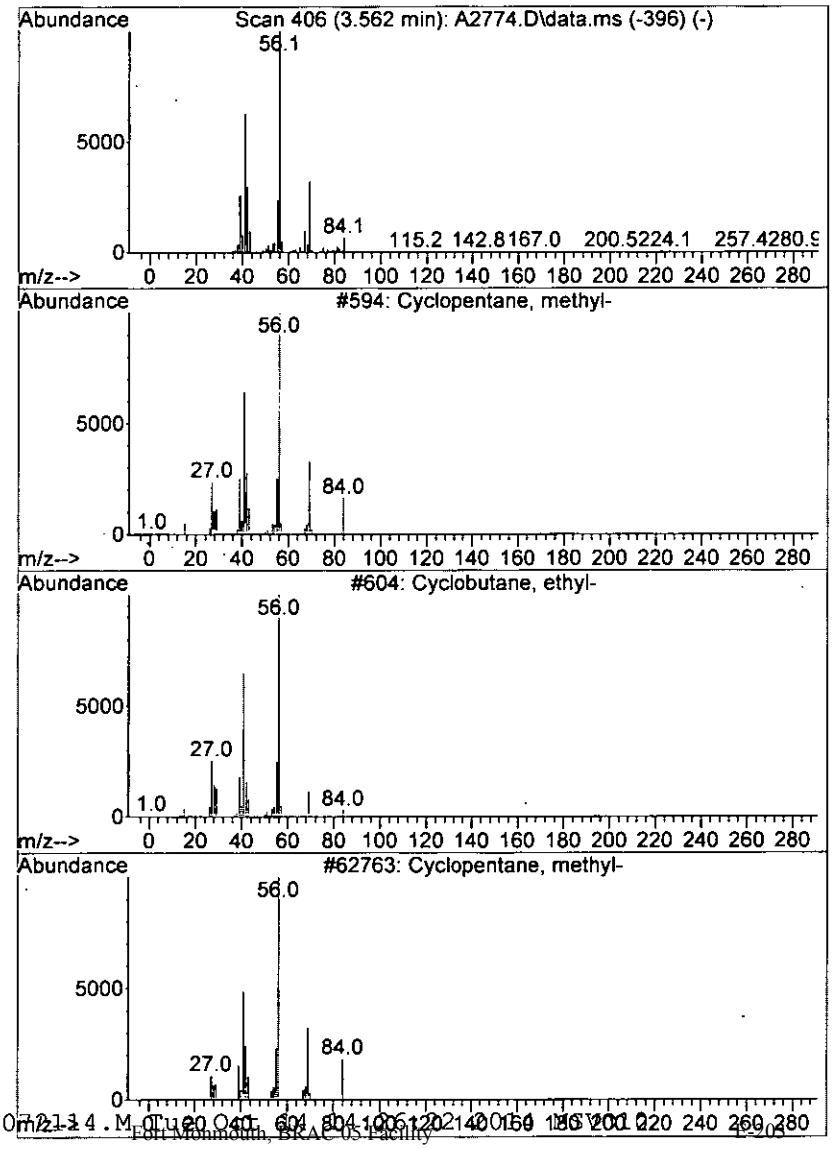
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

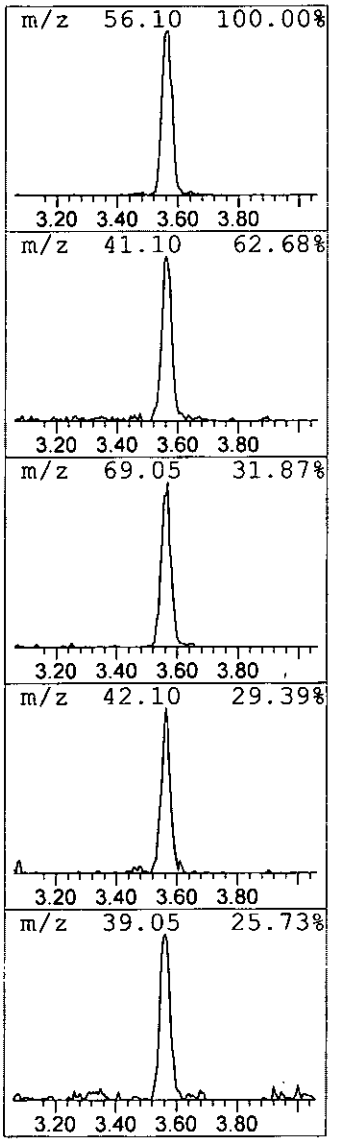
****

Peak Number 1 Cyclopentane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.562	5.72 ug/L	294534	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclobutane, ethyl-	84	C6H12	004806-61-5	72
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
4	Cyclopropane, propyl-	84	C6H12	002415-72-7	64
5	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	50





Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2774.D
Acq On : 9 Oct 2014 3:57 pm
Operator : F.NAEGLER
Sample : R1407806-004|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
Cyclopentane, m...	3.562	5.7	ug/L	294534	1	4.409	2573280	50.0

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1033
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:27
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1407806-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2775.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	**1.3**	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	**6.4**		5.0	5.0	1.3	
71-43-2	Benzene	**0.52**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1033
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:27
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1407806-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2775.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	0.32	
100-41-4	Ethylbenzene	**1.6**	J	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**0.29**	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	**0.39**	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	**0.27**	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	**0.39**	J	5.0	1.0	0.20	
95-47-6	o-Xylene	**0.40**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1033
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:27
Sample Name:	FTMM-53-GW-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1407806-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2775.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	75-120	10/9/14 16:27	
Dibromofluoromethane	107	85-115	10/9/14 16:27	
Toluene-d8	101	85-120	10/9/14 16:27	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1627

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

Sample Name: FTMM-53-GW-699MW01-7.5
Lab Code: R1407806-005

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:29:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	929672	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1284866	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1154842	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	615096	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	439405	53.63	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.26%			
48) surr1,1,2-dichloroetha...	4.854	65	496535	57.43	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.86%			
65) SURR3,Toluene-d8	7.427	98	1452756	50.35	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.70%			
70) SURR2,BFB	9.878	95	574820	50.62	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.24%			
Target Compounds						Qvalue
15) Acetone	2.123	43	18145	6.41	ug/L	85
23) TBA	2.513	59	3459m	7.18	ug/L	
49) Benzene	4.970	78	16190m	0.52	ug/L	
66) Toluene	7.506	91	9029	0.27	ug/L	93
82) Ethylbenzene	8.982	106	18069	1.63	ug/L #	90
83) (m+p)Xylene	9.104	106	3191	0.23	ug/L	90
84) o-Xylene	9.445	106	5347	0.40	ug/L	99
88) Isopropylbenzene	9.762	105	9716	0.29	ug/L	92
95) n-Propylbenzene	10.110	91	15013	0.39	ug/L	94
101) 1,2,4-Trimethylbenzene	10.561	105	37753	1.34	ug/L	86
117) Naphthalen	12.414	128	6290m	0.39	ug/L	

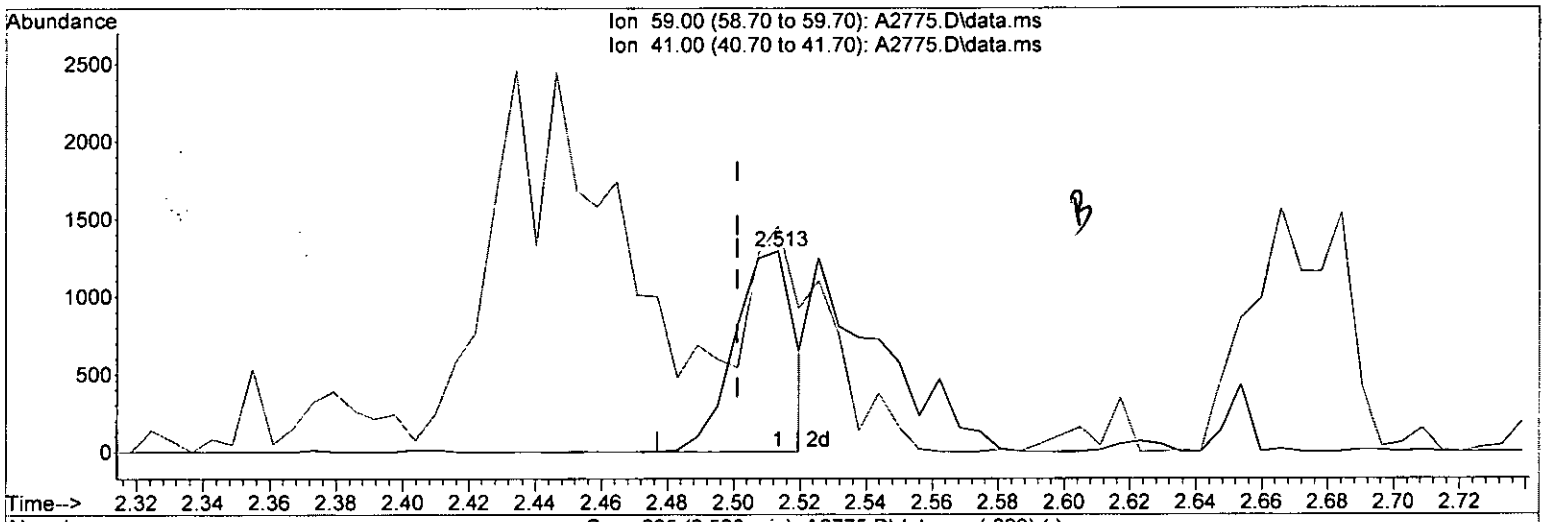
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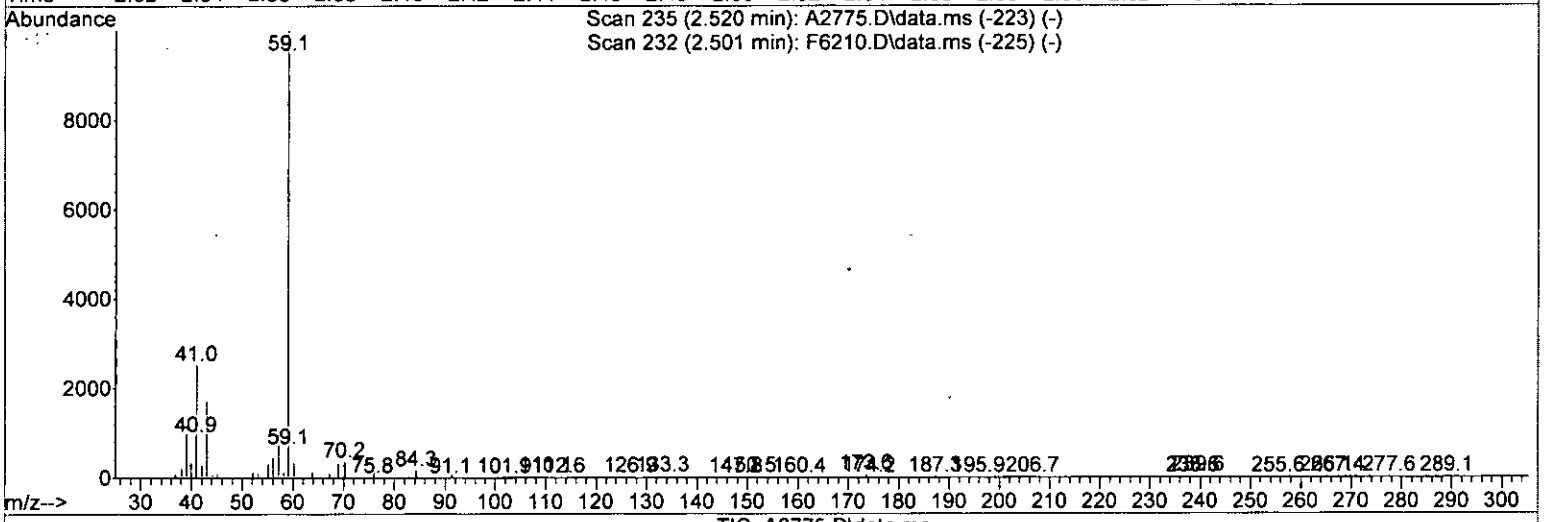
PM 10/14/14
KR 10/14/14

Quantitation Report (Qedit)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 16:40:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration





TIC: A2775.D\data.ms

(23) TBA

2.513min (+0.012) 3.33 ug/L

response 1607

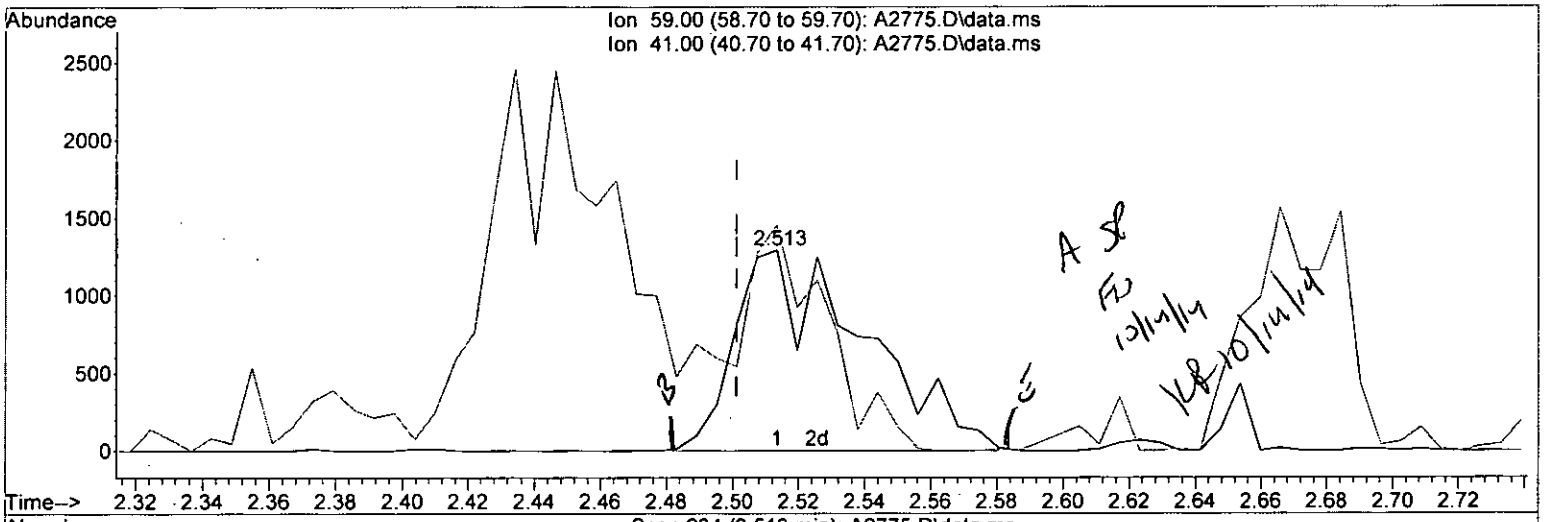
Ion	Exp%	Act%
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41.00	22.80	112.55#
0.00	0.00	0.00
0.00	0.00	0.00

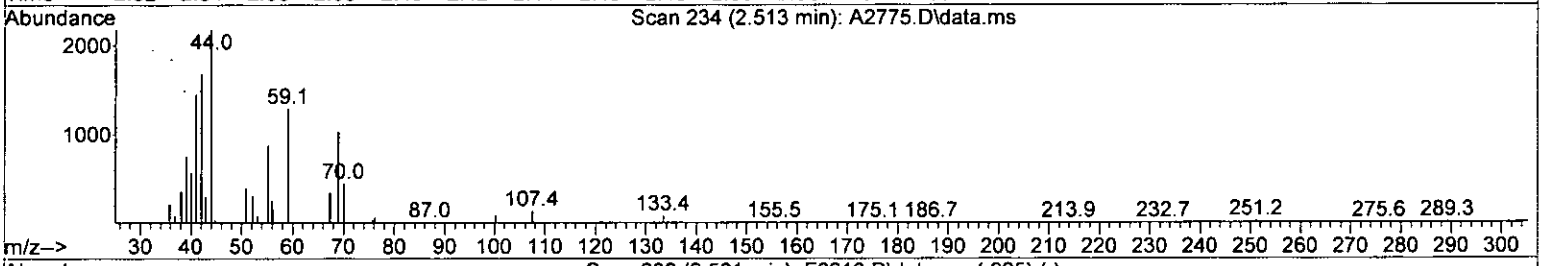
W072114.M Tue Oct 14 14:27:11 2014 MSVO10 Page: 1

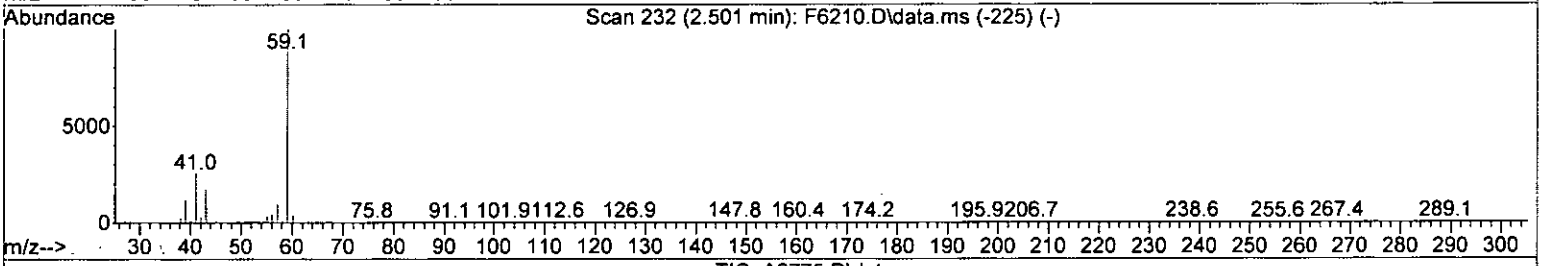
Quantitation Report (Qedit)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 16:40:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2775.D\data.ms

(23) TBA

2.513min (+0.012) 7.18 ug/L m

response 3459

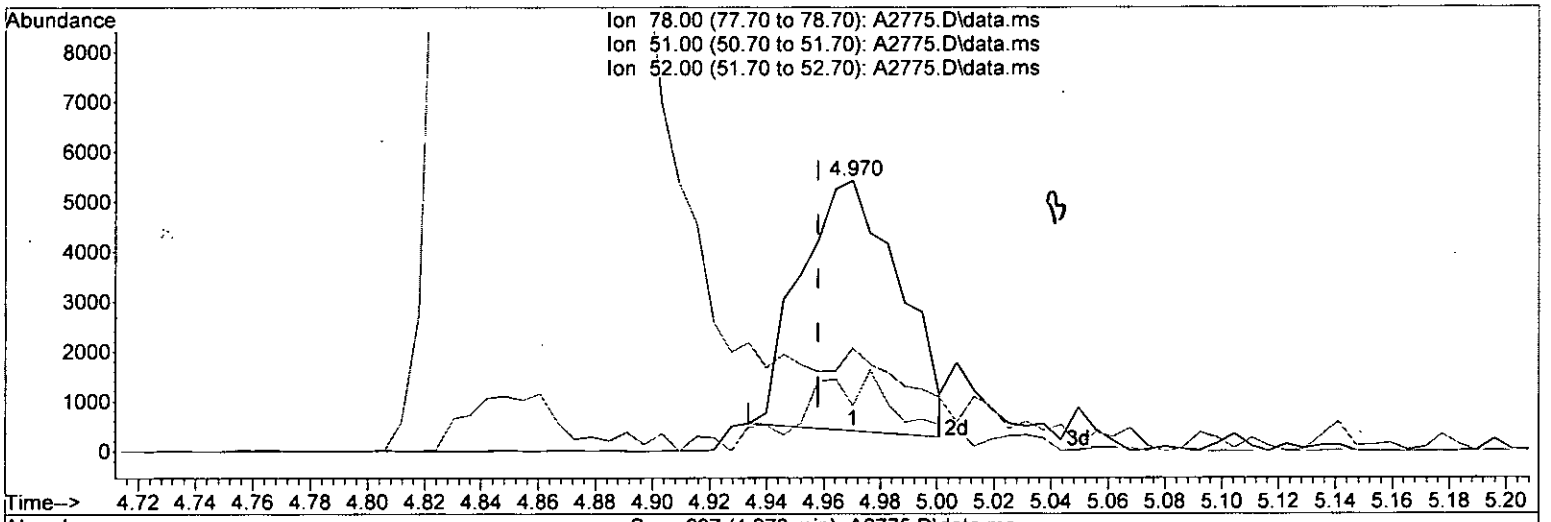
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41.00	22.80	112.55#
0.00	0.00	0.00
0.00	0.00	0.00

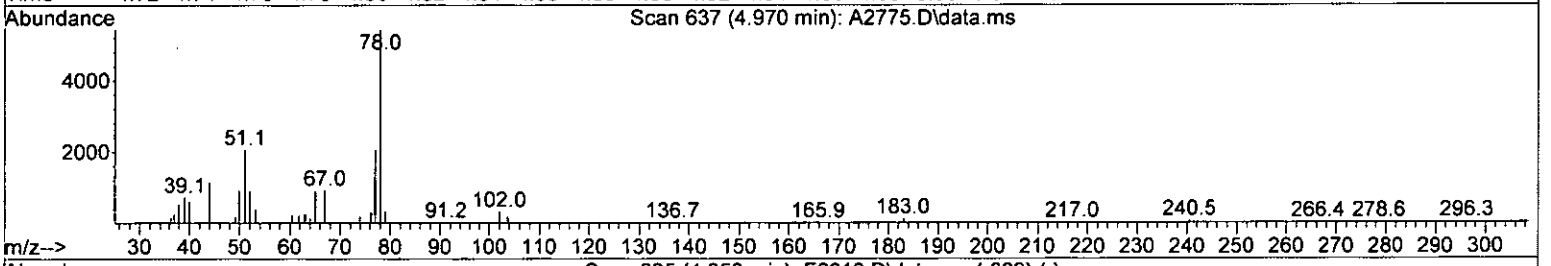
W072114.M Tue Oct 14 14:27:19 2014 MSVO10 Page: 1

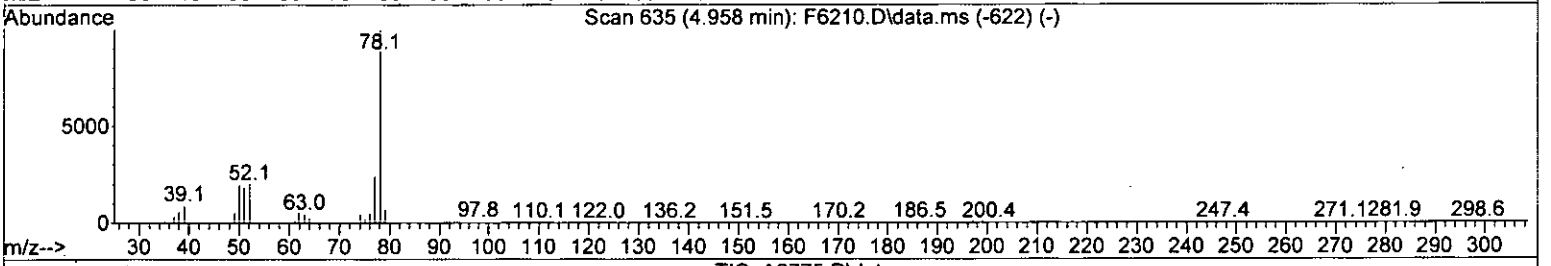
Quantitation Report (Qedit)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 16:40:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2775.D\data.ms

(49) Benzene (P)

4.970min (+0.012) 0.39 ug/L

response 12097

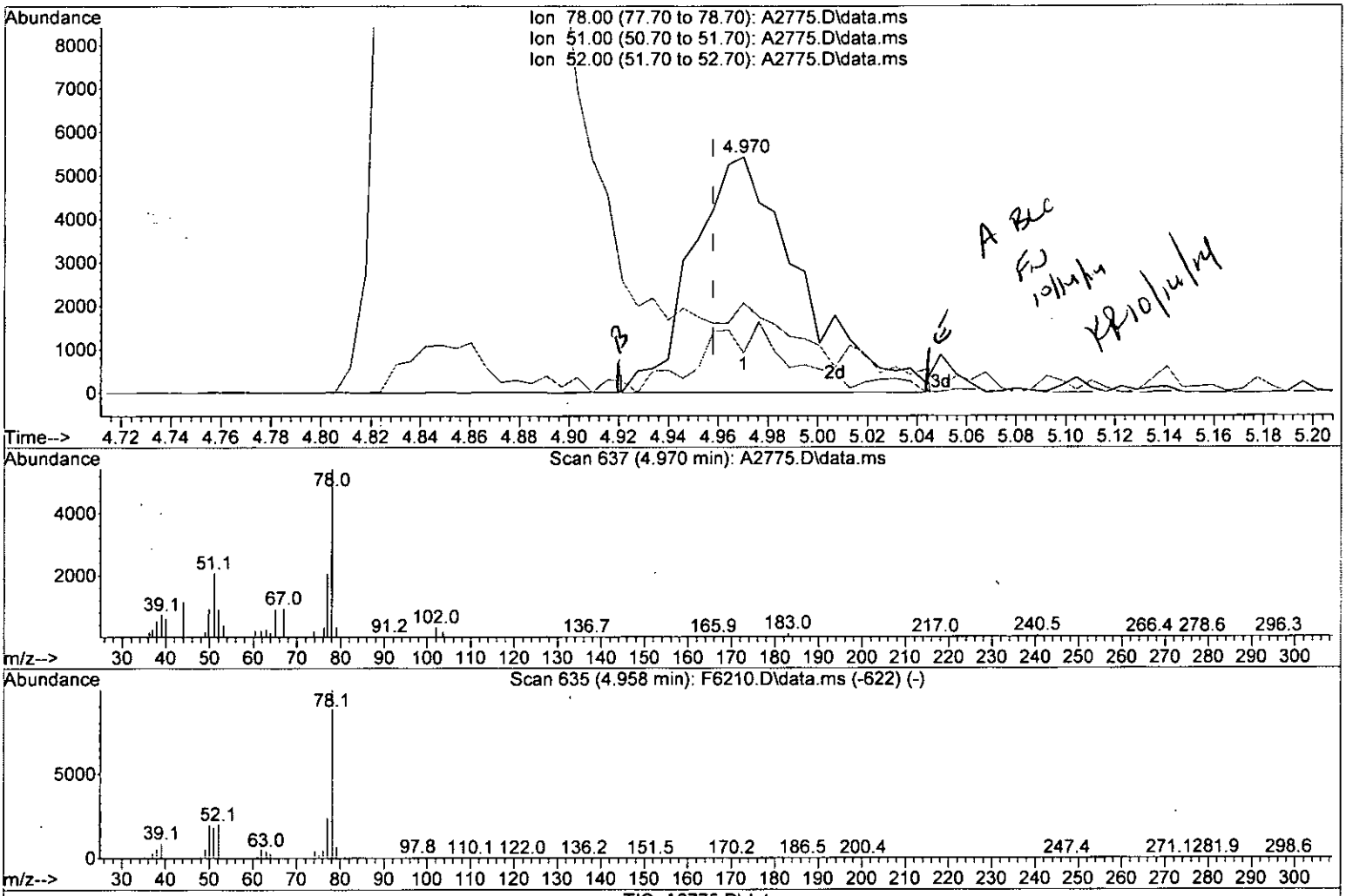
Ion	Exp%	Act%
78.00	100	100
51.00	19.40	38.06
52.00	16.90	16.64
0.00	0.00	0.00

W072114.M Tue Oct 14 14:27:26 2014 MSVO10 Page: 1

Quantitation Report (Qedit)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 16:40:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2775.D\data.ms

(49) Benzene (P)

4.970min (+0.012) 0.52 ug/L m

response 16190

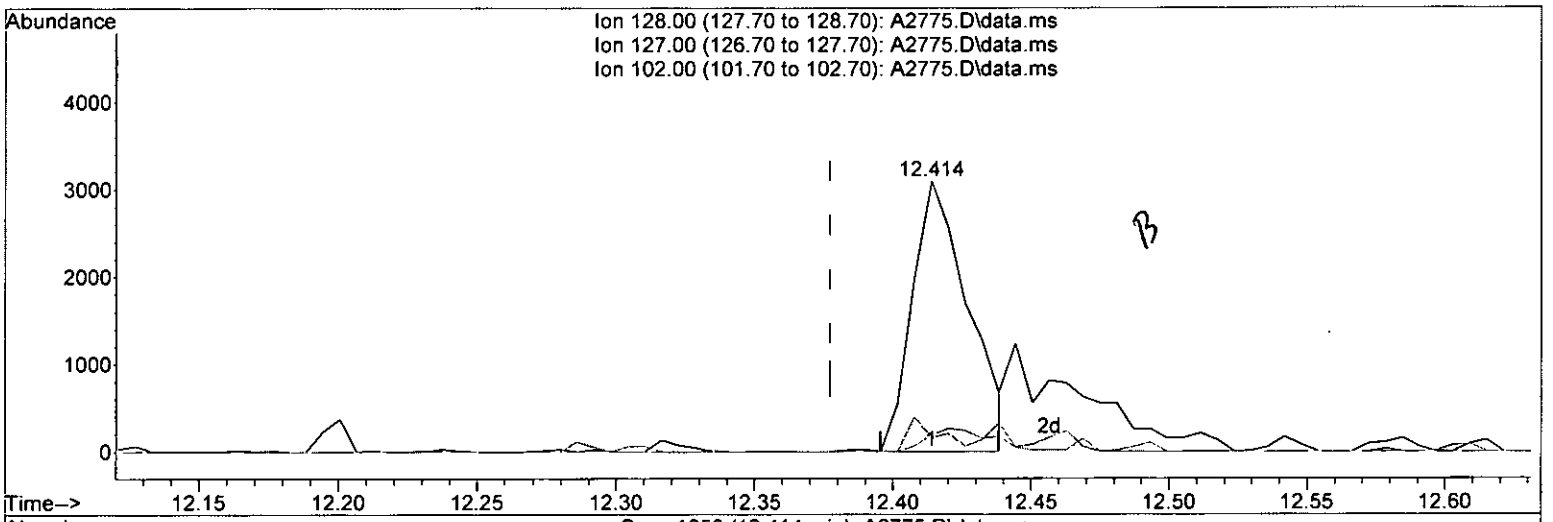
Ion	Exp%	Act%
78.00	100	100
51.00	19.40	38.06
52.00	16.90	16.64
0.00	0.00	0.00

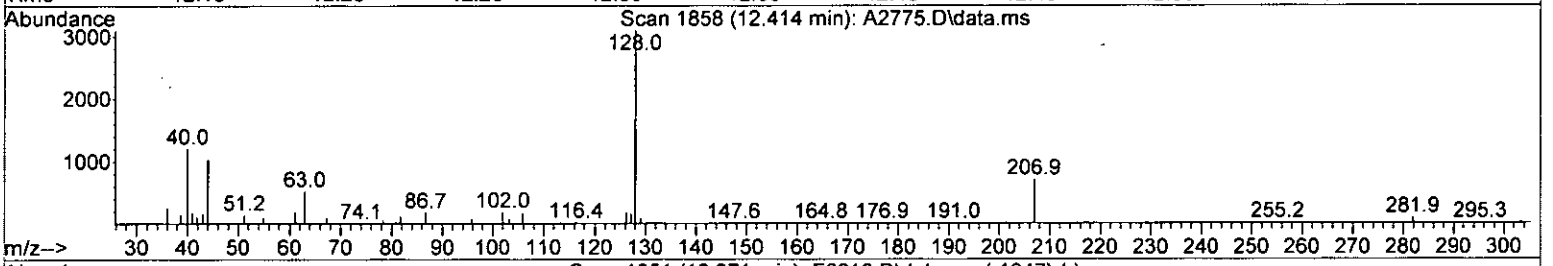
W072114.M Tue Oct 14 14:27:35 2014 MSVO10 Page: 1

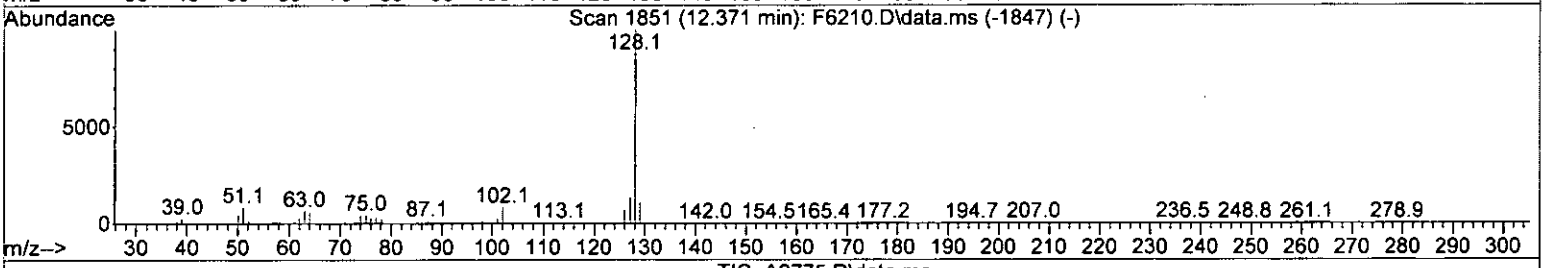
Quantitation Report (Qedit)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 16:40:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2775.D\data.ms

(117) Naphthalen

12.414min (+0.037) 0.27 ug/L

response 4326

Ion	Exp%	Act%
128.00	100	100
127.00	12.90	5.08
102.00	8.70	6.01
0.00	0.00	0.00

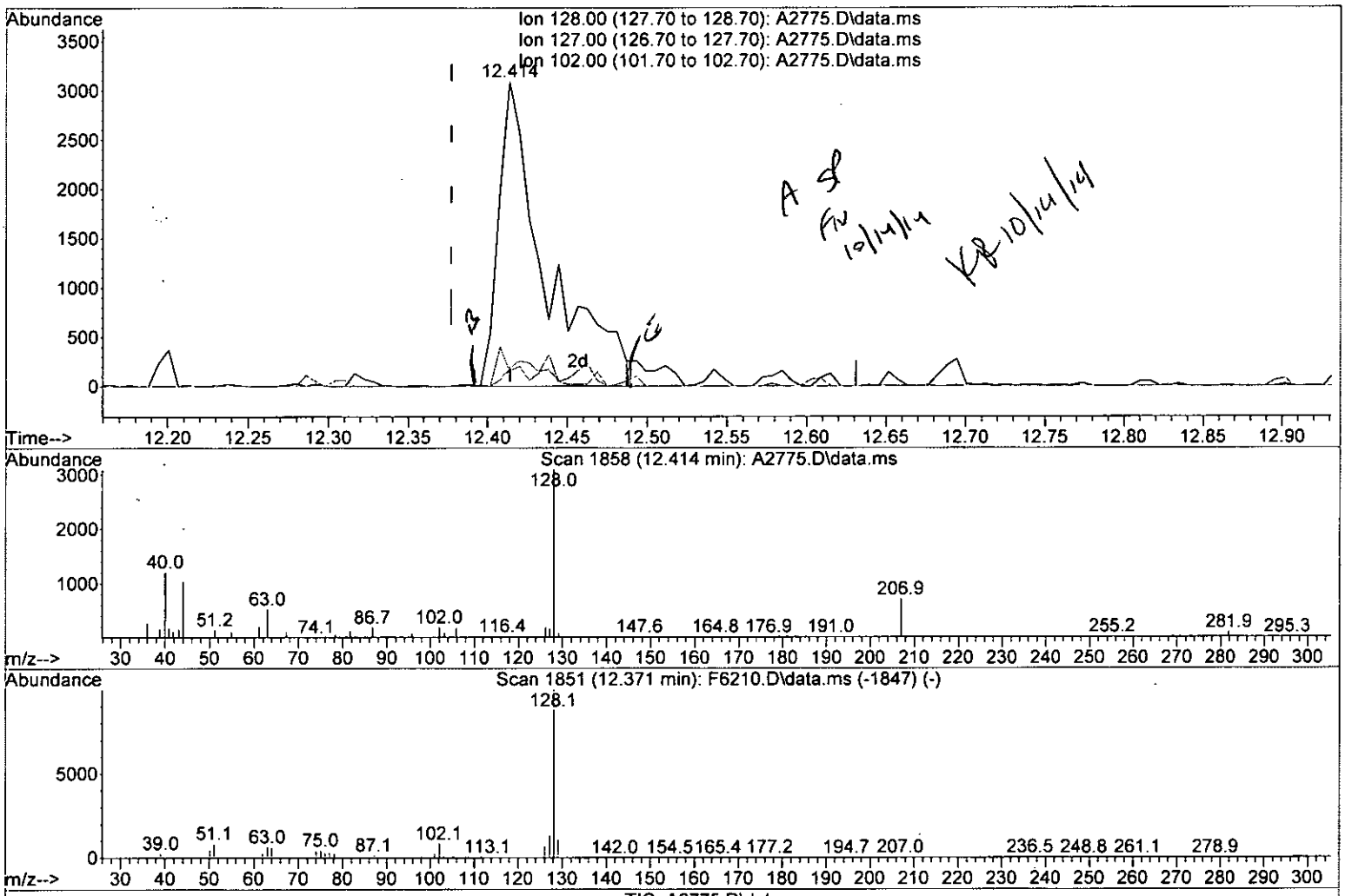
W072114.M Tue Oct 14 14:28:26 2014 MSVO10 Page: 1

00112

Quantitation Report (Qedit)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 16:40:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2775.D\data.ms

(117) Naphthalen

12.414min (+0.037) 0.39 ug/L m

response 6290

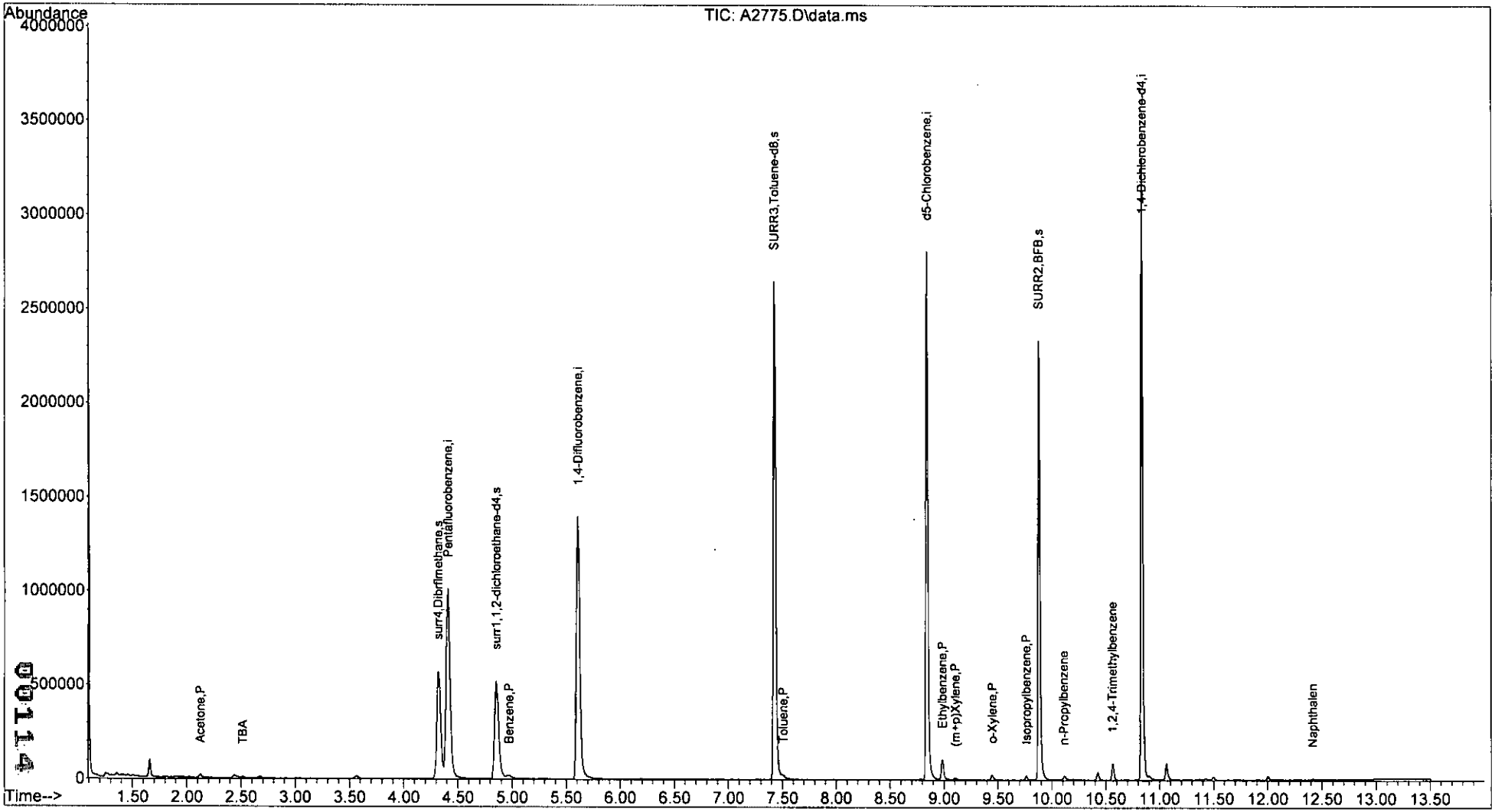
Ion	Exp%	Act%
128.00	100	100
127.00	12.90	5.08
102.00	8.70	6.01
0.00	0.00	0.00

W072114.M Tue Oct 14 14:28:48 2014 MSVO10 Page: 1

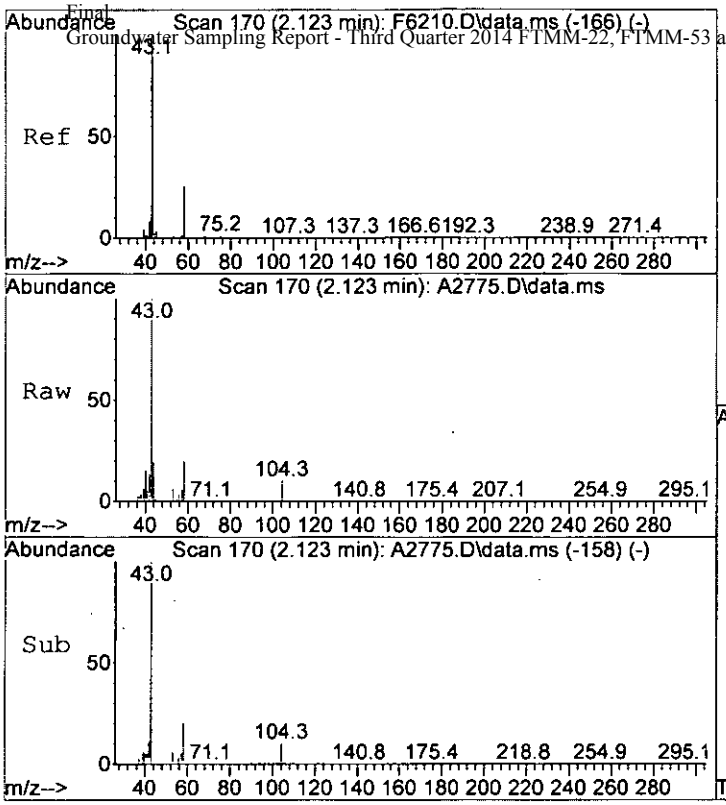
Quantitation Report (QT Reviewed)

Sample : R1407806-005|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2775.D Vial: 14
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:29:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



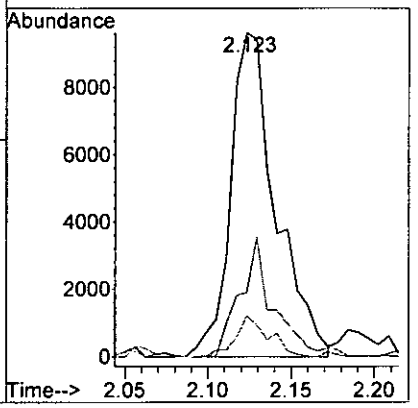
W072114.M Tue Oct 14 14:29:47 2014 MSVO10 Page: 2

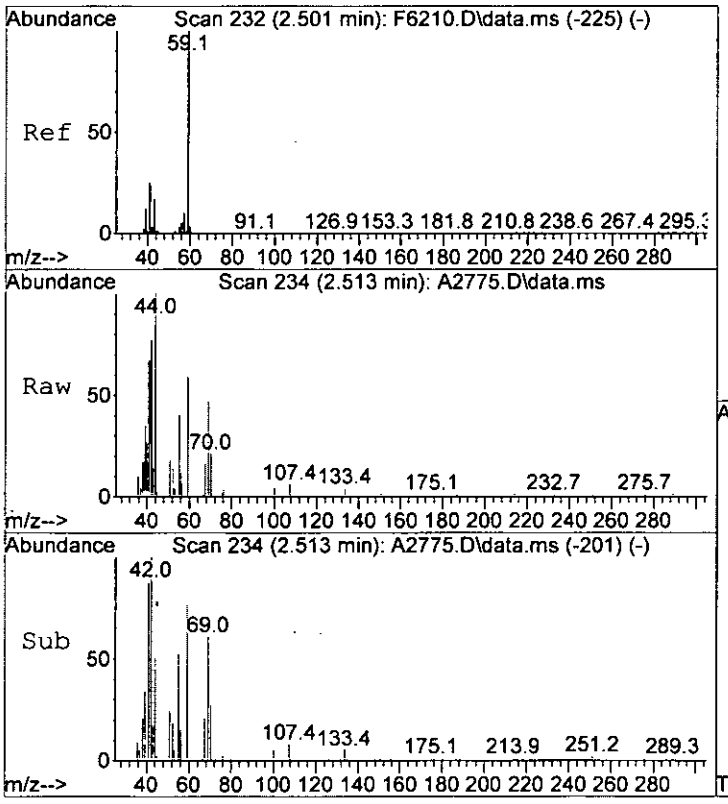


#15
Acetone
Concen: 6.41 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion: 43 Resp: 18145

Ion	Ratio	Lower	Upper
43	100		
58	19.7	7.2	47.2
42	12.5	0.0	27.0

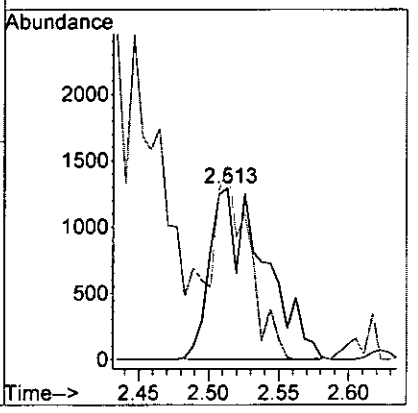


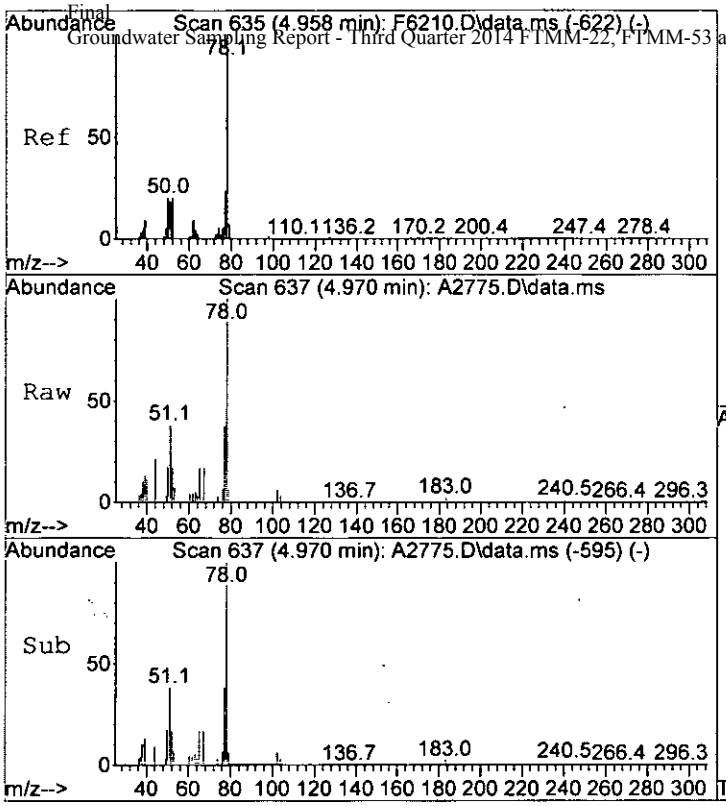


#23
TBA
Concen: 7.18 ug/L m
RT: 2.513 min Scan# 234
Delta R.T. 0.012 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion: 59 Resp: 3459

Ion	Ratio	Lower	Upper
59	100		
41	112.5	2.8	42.8#

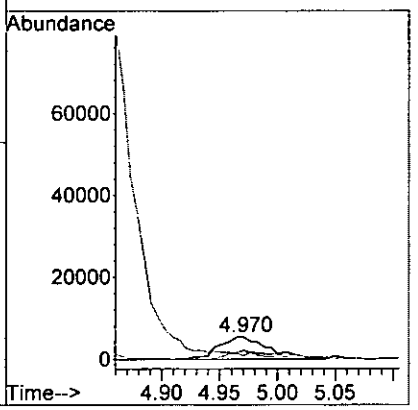


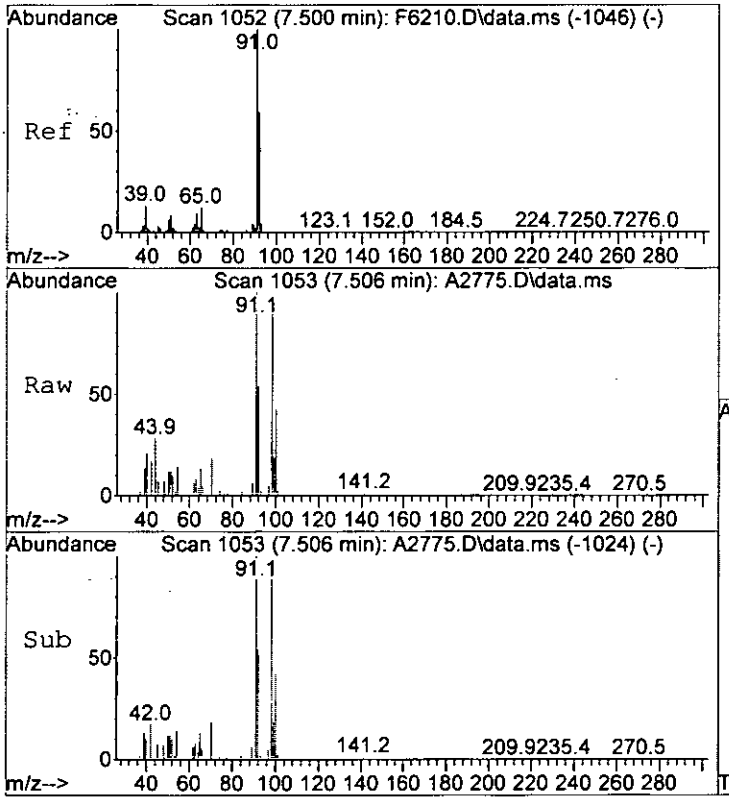


#49
Benzene
Concen: 0.52 ug/L m
RT: 4.970 min Scan# 637
Delta R.T. 0.012 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion: 78 Resp: 16190

Ion	Ratio	Lower	Upper
78	100		
51	38.1	0.0	39.4
52	16.6	0.0	36.9

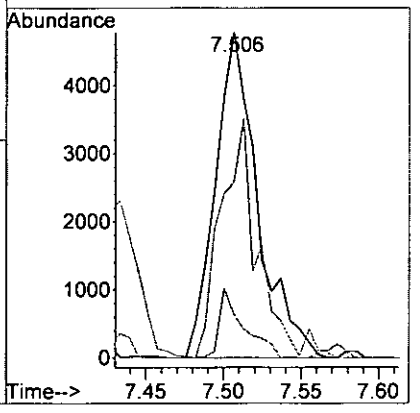


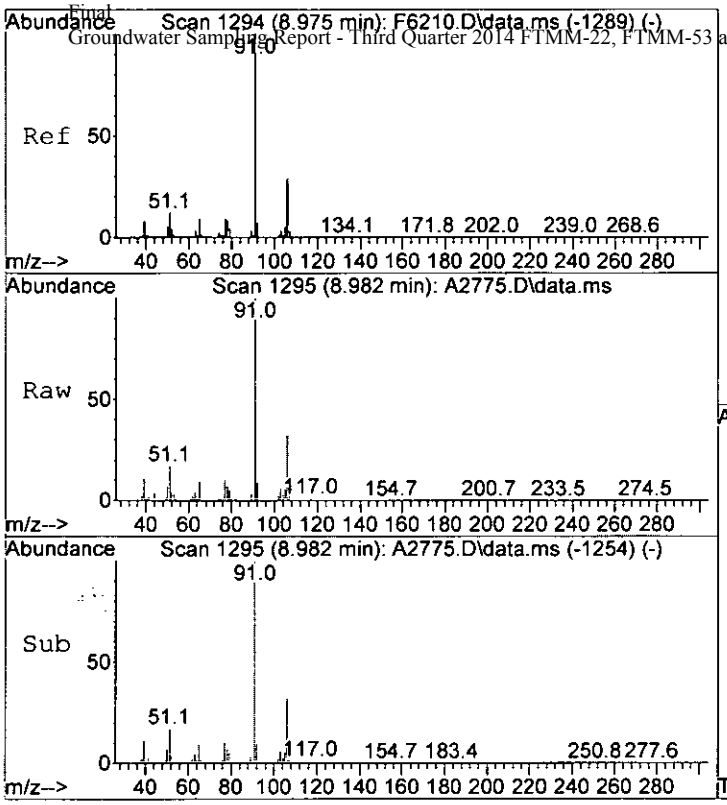


#66
Toluene
Concen: 0.27 ug/L
RT: 7.506 min Scan# 1053
Delta R.T. 0.006 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion: 91 Resp: 9029

Ion	Ratio	Lower	Upper
91	100		
92	53.8	39.5	79.5
65	13.5	0.0	32.0

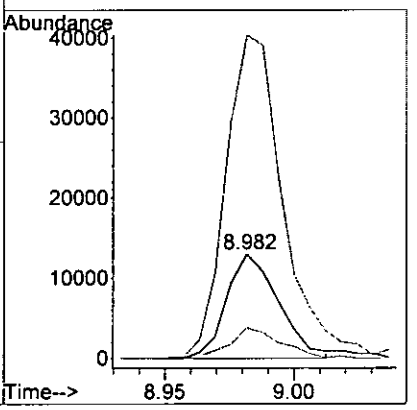


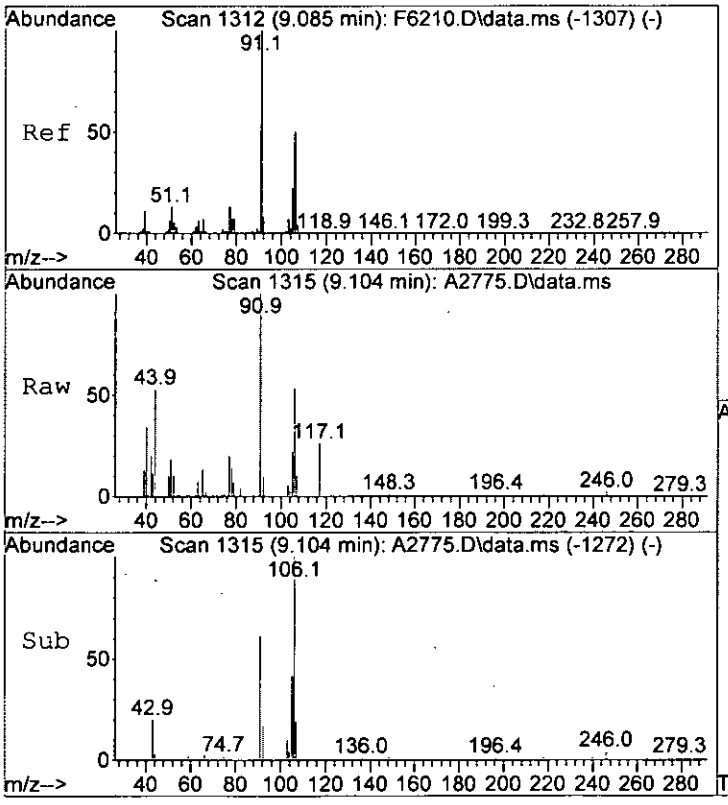


#82
Ethylbenzene
Concen: 1.63 ug/L
RT: 8.982 min Scan# 1295
Delta R.T. 0.000 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion:106 Resp: 18069

Ion	Ratio	Lower	Upper
106	100		
91	311.0	314.0	354.0#
65	28.8	11.1	51.1

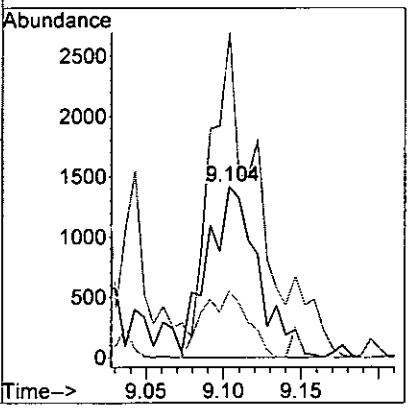


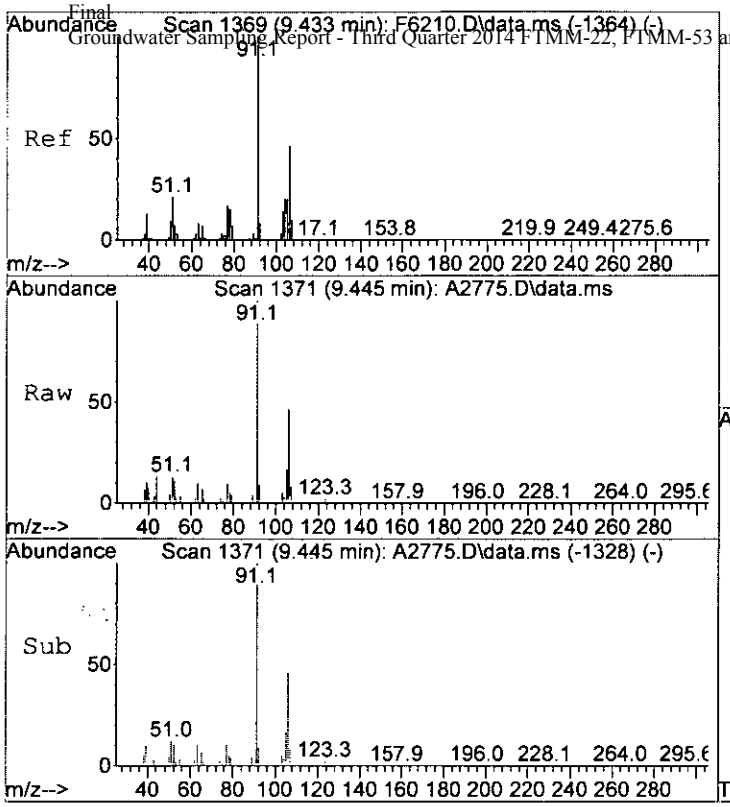


#83
(m+p)Xylene
Concen: 0.23 ug/L
RT: 9.104 min Scan# 1315
Delta R.T. 0.012 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion:106 Resp: 3191

Ion	Ratio	Lower	Upper
106	100		
91	190.1	183.8	223.8
77	38.7	8.7	48.7

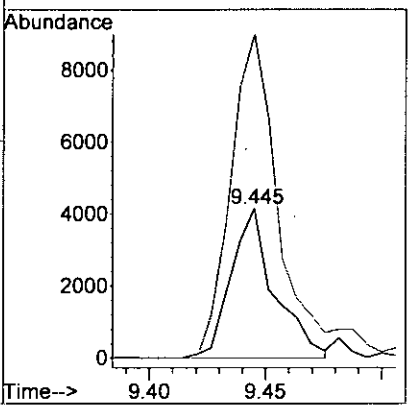


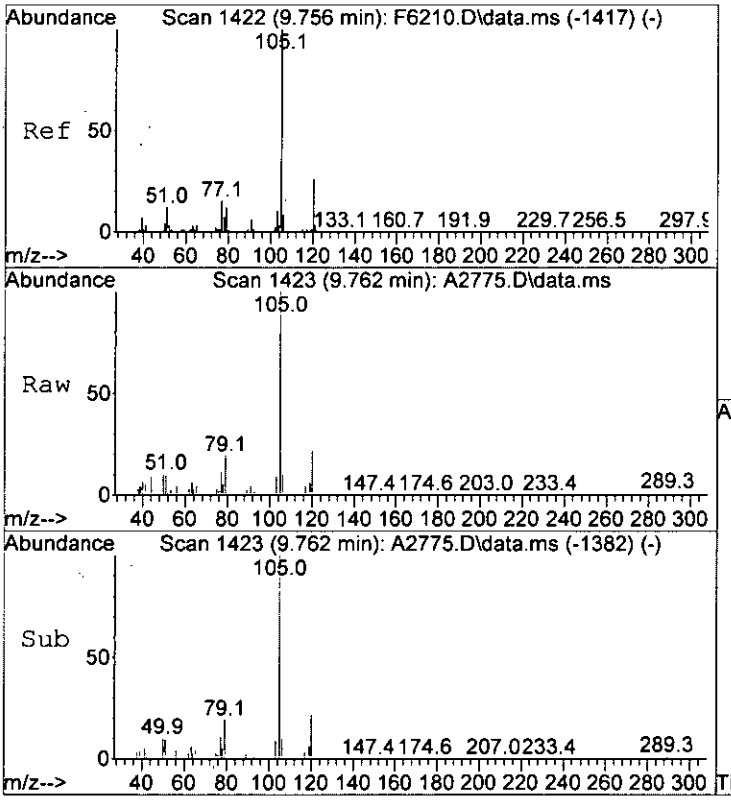


#84
o-Xylene
Concen: 0.40 ug/L
RT: 9.445 min Scan# 1371
Delta R.T. 0.012 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion:106 Resp: 5347

Ion	Ratio	Lower	Upper
106	100		
91	216.9	198.0	238.0

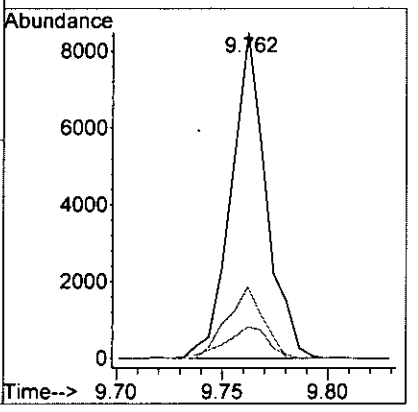


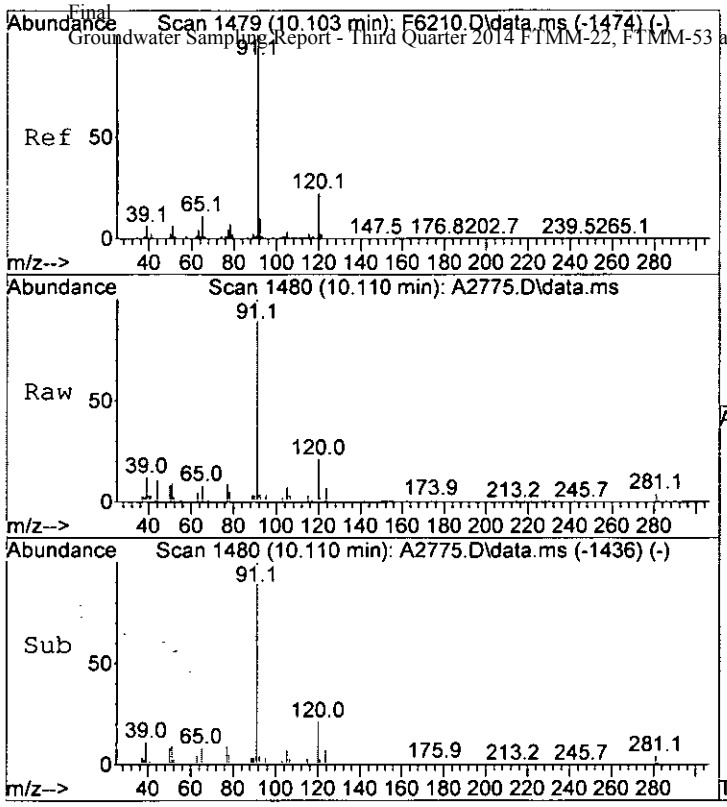


#88
Isopropylbenzene
Concen: 0.29 ug/L
RT: 9.762 min Scan# 1423
Delta R.T. 0.006 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion:105 Resp: 9716

Ion	Ratio	Lower	Upper
105	100		
120	22.0	6.8	46.8
106	9.5	0.0	28.8

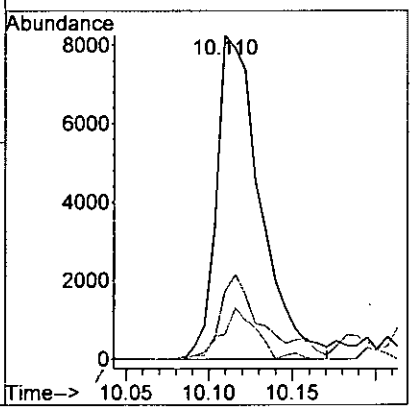


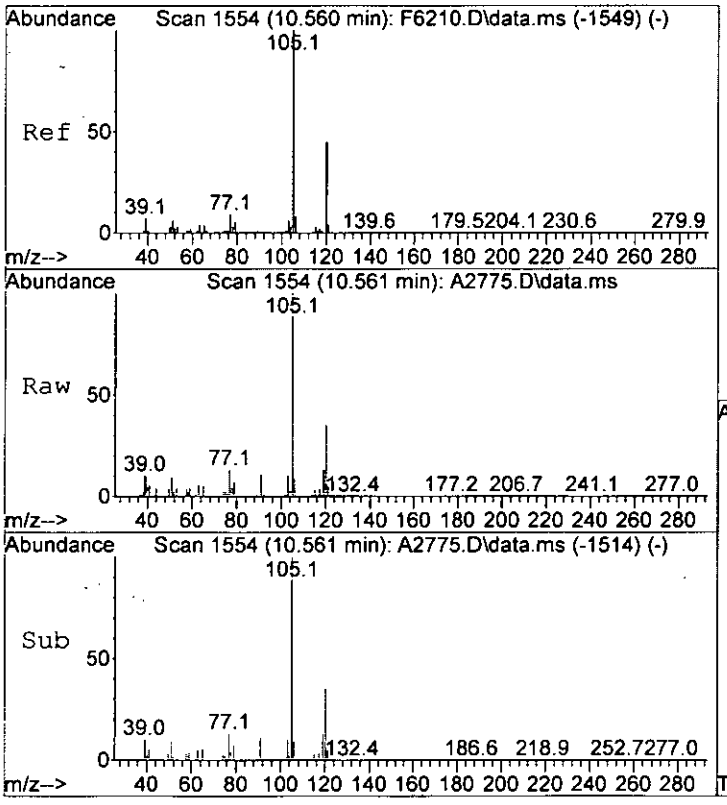


#95
n-Propylbenzene
Concen: 0.39 ug/L
RT: 10.110 min Scan# 1480
Delta R.T. 0.006 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion: 91 Resp: 15013

Ion	Ratio	Lower	Upper
91	100		
120	20.7	2.9	42.9
65	7.6	0.0	31.4

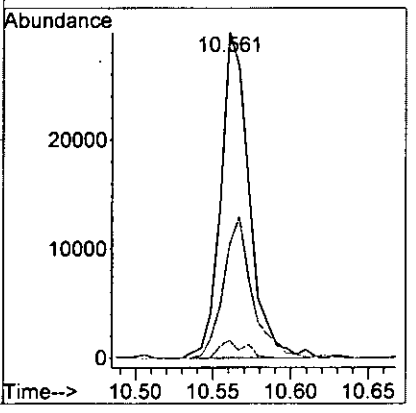


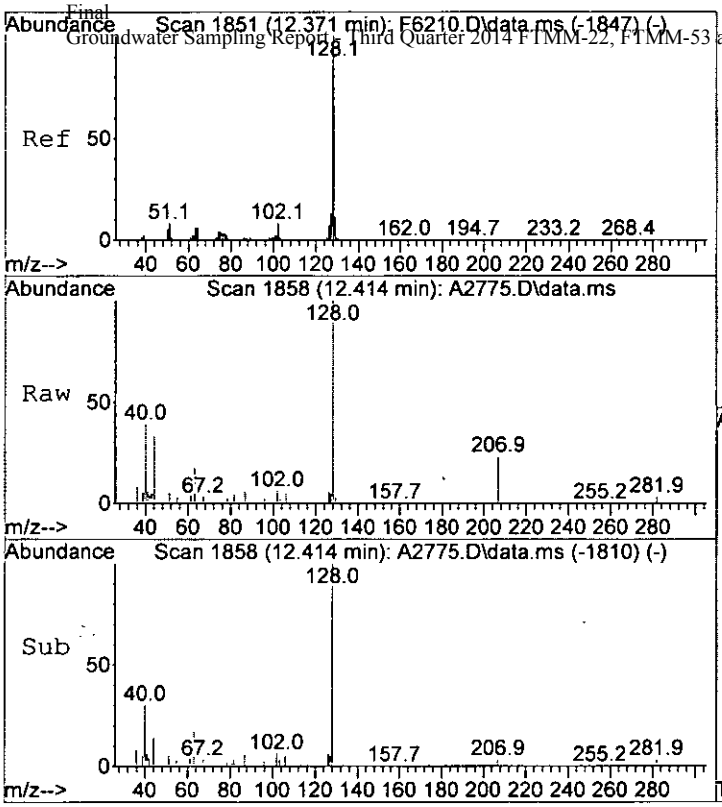


#101
1,2,4-Trimethylbenzene
Concen: 1.34 ug/L
RT: 10.561 min Scan# 1554
Delta R.T. 0.000 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion:105 Resp: 37753

Ion	Ratio	Lower	Upper
105	100		
120	34.8	24.9	64.9
65	5.4	0.0	25.0

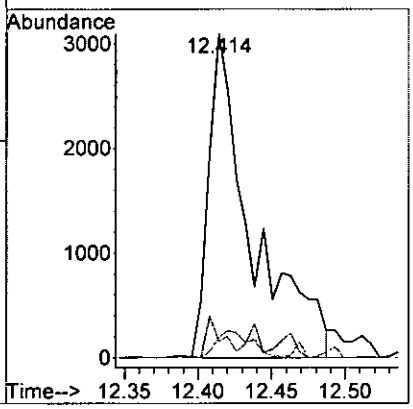




#117
Naphthalen
Concen: 0.39 ug/L m
RT: 12.414 min Scan# 1858
Delta R.T. 0.037 min
Lab File: A2775.D
Acq: 9 Oct 2014 4:27 pm

Tgt Ion:128 Resp: 6290

Ion	Ratio	Lower	Upper
128	100		
127	5.1	0.0	32.9
102	6.0	0.0	28.7



A2775.D W072114.M Tue Oct 14 14:29:54 2014 MSVO10

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2775.D
Acq On : 9 Oct 2014 4:27 pm
Operator : F.NAEGLER
Sample : R1407806-005|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2775.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.660	90	94	98	rBV	90353	98607	2.37%	0.409%
2	4.318	520	530	538	rBV2	570722	1408490	33.87%	5.845%
3	4.409	538	545	564	rVB	1006884	2611136	62.79%	10.835%
4	4.854	609	618	632	rBV	518326	1380696	33.20%	5.729%
5	5.610	734	742	760	rBV	1395822	3173861	76.32%	13.170%
6	7.427	1034	1040	1050	rBV	2645005	4158817	100.00%	17.257%
7	8.841	1267	1272	1291	rBV	2803343	3771754	90.69%	15.651%
8	8.982	1291	1295	1303	rVV	101817	154878	3.72%	0.643%
9	9.878	1438	1442	1457	rBV	2330303	3006302	72.29%	12.475%
10	10.427	1524	1532	1539	rBV	42132	61728	1.48%	0.256%
11	10.567	1547	1555	1563	rBV	85333	118316	2.84%	0.491%
12	10.835	1594	1599	1608	rBV	3303970	4026694	96.82%	16.709%
13	11.061	1632	1636	1644	rBV	86261	127541	3.07%	0.529%

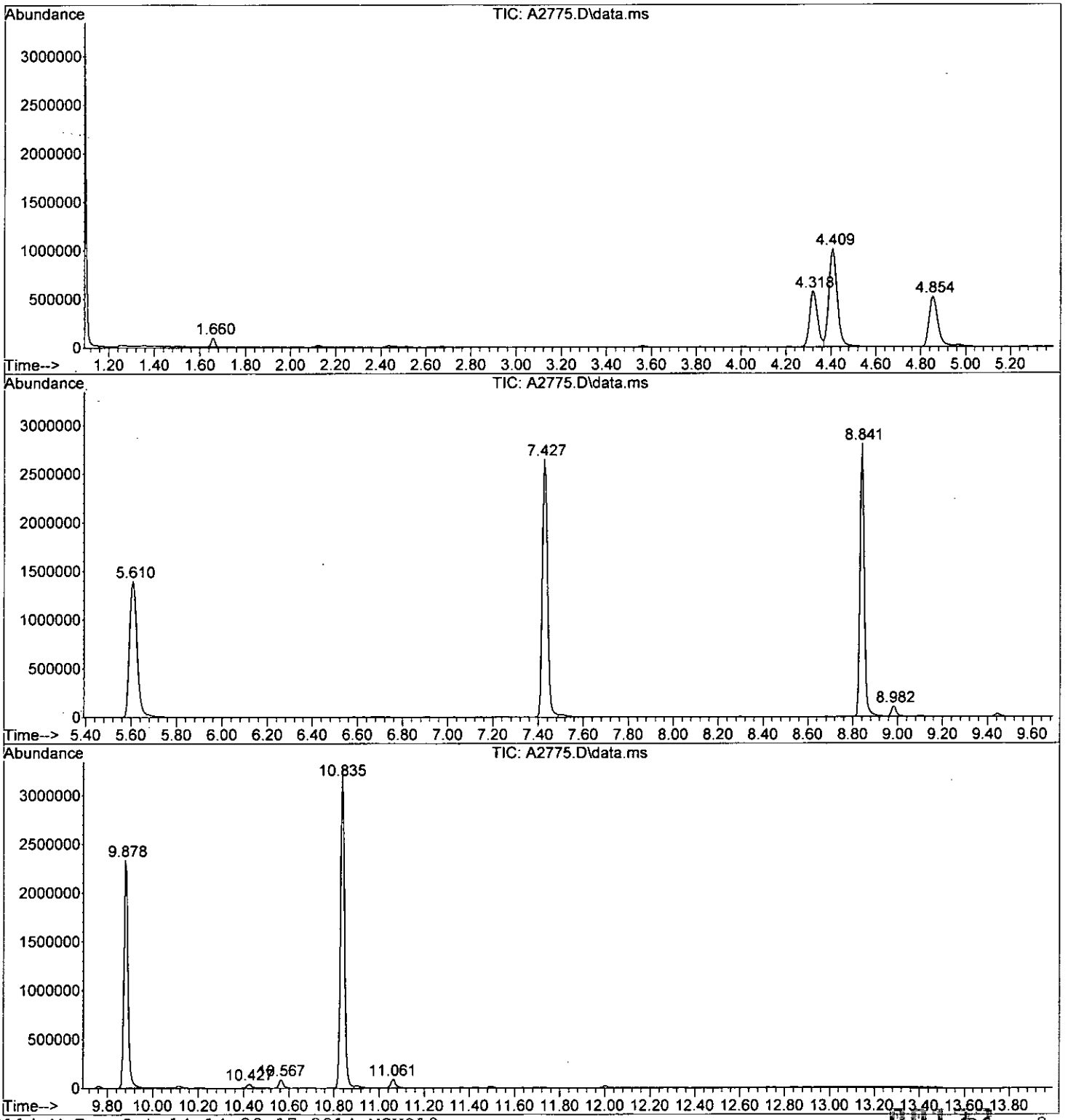
Sum of corrected areas: 24098820

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2775.D
Acq On    :  9 Oct 2014    4:27 pm
Operator  : F.NAEGLER
Sample    : R1407806-005|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:30:17 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2775.D
Acq On : 9 Oct 2014 4:27 pmm
Operator : F.NAEGLERR
Sample : R1407806-005|1.0
Misc : PARSONS 11603 T44
ALS Vial : 14 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

00123

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1058
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 16:57

Sample Name: FTMM-53-GW-699MW04-6.85
Lab Code: R1407806-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2776.D\

Analysis Lot: 415420
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	**0.25**	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	**11**		5.0	5.0	1.3	
71-43-2	Benzene	**0.37**	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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1058
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 16:57

Sample Name: FTMM-53-GW-699MW04-6.85
Lab Code: R1407806-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2776.D\

Analysis Lot: 415420
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	0.32	
100-41-4	Ethylbenzene	**0.28**	**J**	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	**0.27**	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	**1.0**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1058
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 16:57
Sample Name:	FTMM-53-GW-699MW04-6.85	**Units:**	µg/L
Lab Code:	R1407806-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2776.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 16:57	
Dibromofluoromethane	105	85-115	10/9/14 16:57	
Toluene-d8	100	85-120	10/9/14 16:57	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1657

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

Sample Name: FTMM-53-GW-699MW04-6.85
Lab Code: R1407806-006

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-006|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2776.D Vial: 15
Acq On : 9 Oct 2014 4:57 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:40:36 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	957805	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1323121	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1175412	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	614261	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	442850	52.49	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.98%				
48) surr1,1,2-dichloroetha...	4.854	65	515568	57.90	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 115.80%				
65) SURR3,Toluene-d8	7.427	98	1484816	49.97	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.94%				
70) SURR2,BFB	9.878	95	586582	50.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.34%				
Target Compounds							Qvalue
15) Acetone	2.123	43	30874	10.59	ug/L		91
23) TBA	2.513	59	3273	6.59	ug/L	#	36
49) Benzene	4.970	78	11844m	0.37	ug/L		
66) Toluene	7.506	91	9028	0.27	ug/L		94
82) Ethylbenzene	8.982	106	3138	0.28	ug/L	#	86
83) (m+p)Xylene	9.104	106	3018	0.22	ug/L	#	76
84) o-Xylene	9.439	106	13589	1.00	ug/L		89
101) 1,2,4-Trimethylbenzene	10.567	105	7167	0.25	ug/L		95

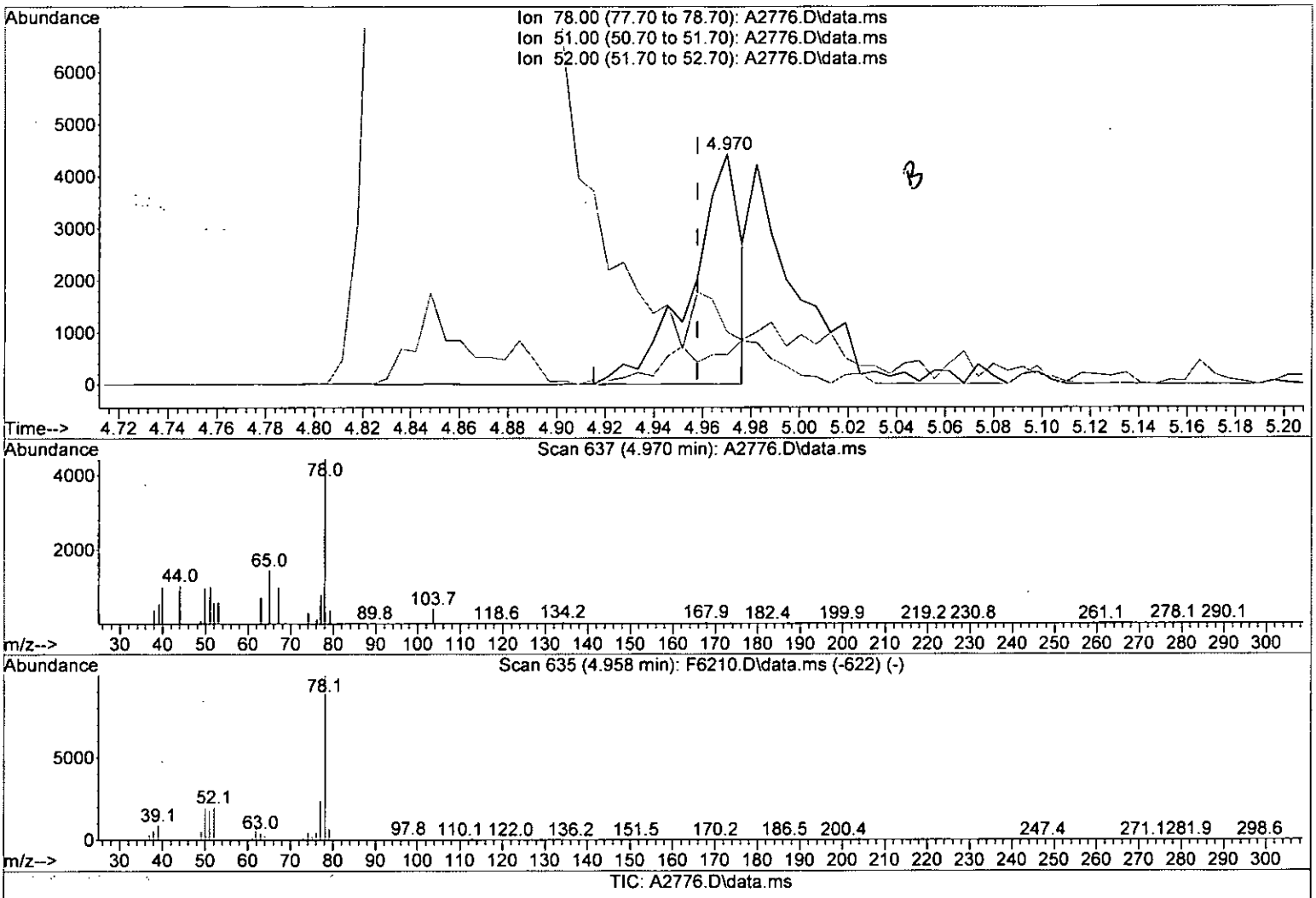
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FJ
10/14/14

Quantitation Report (Qedit)

Sample : R1407806-006|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2776.D Vial: 15
Acq On : 9 Oct 2014 4:57 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 17:10:31 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2776.D\data.ms

(49) Benzene (P)

4.970min (+0.012) 0.19 ug/L

response 6260

Ion	Exp%	Act%
78.00	100	100
51.00	19.40	22.67
52.00	16.90	12.79
0.00	0.00	0.00

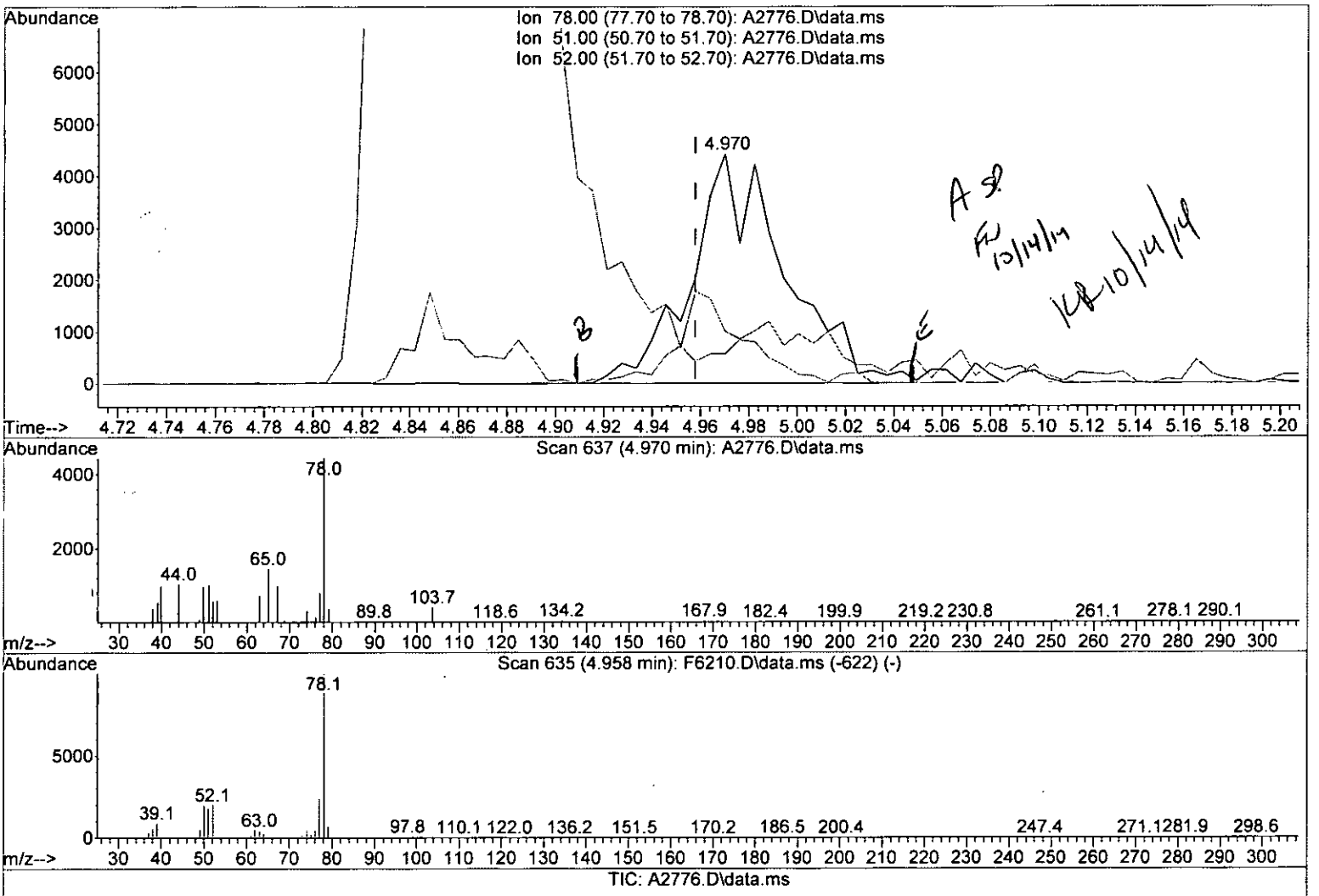
W072114.M Tue Oct 14 14:40:33 2014 MSVO10 Page: 1

00123

Quantitation Report (Qedit)

Sample : R1407806-006|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2776.D Vial: 15
Acq On : 9 Oct 2014 4:57 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 17:10:31 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2776.D\data.ms

(49) Benzene (P)

4.970min (+0.012) 0.37 ug/L m

response 11844

Ion	Exp%	Act%
78.00	100	100
51.00	19.40	22.67
52.00	16.90	12.79
0.00	0.00	0.00

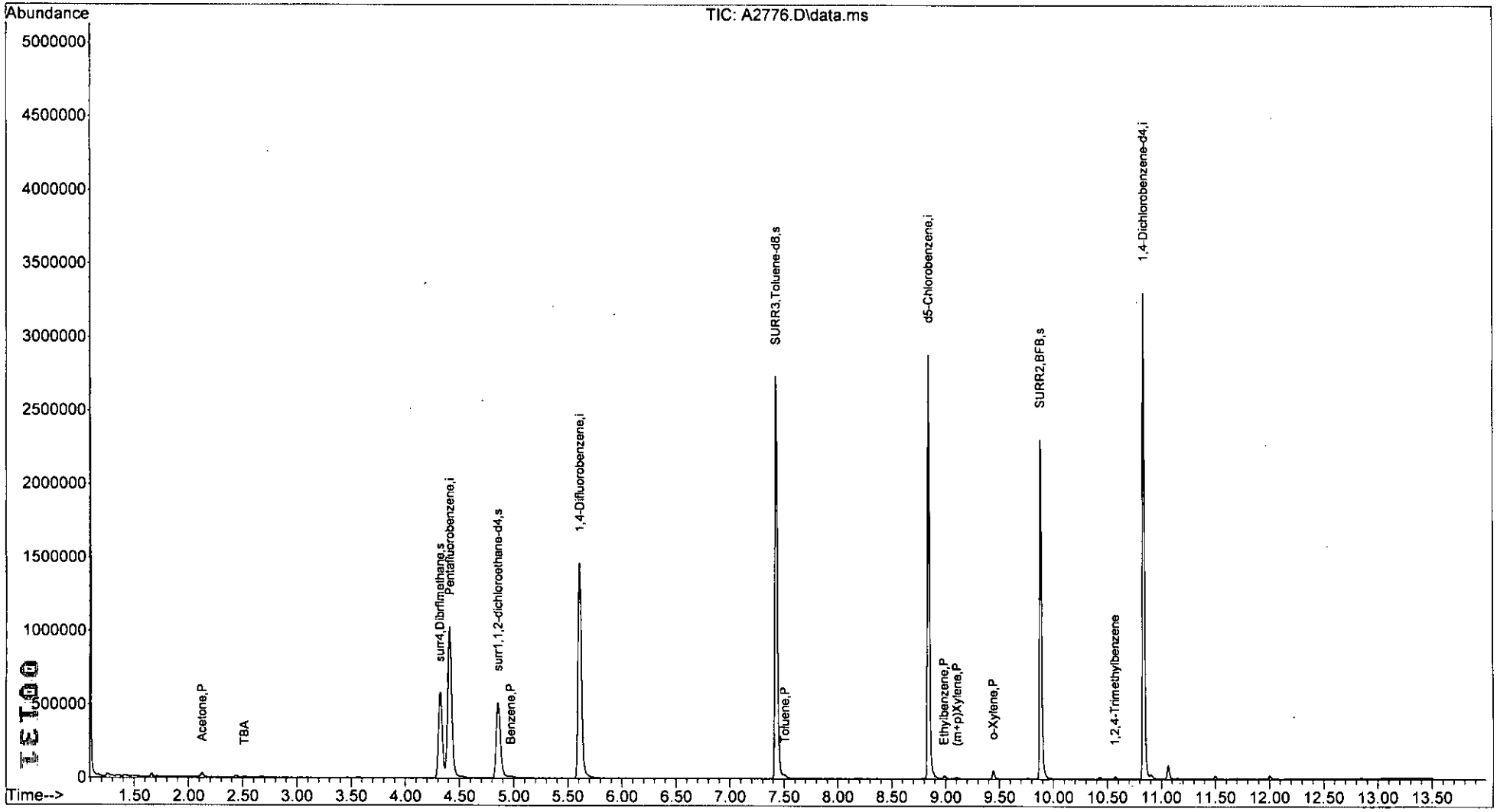
W072114.M Tue Oct 14 14:40:42 2014 MSVO10 Page: 1

00130

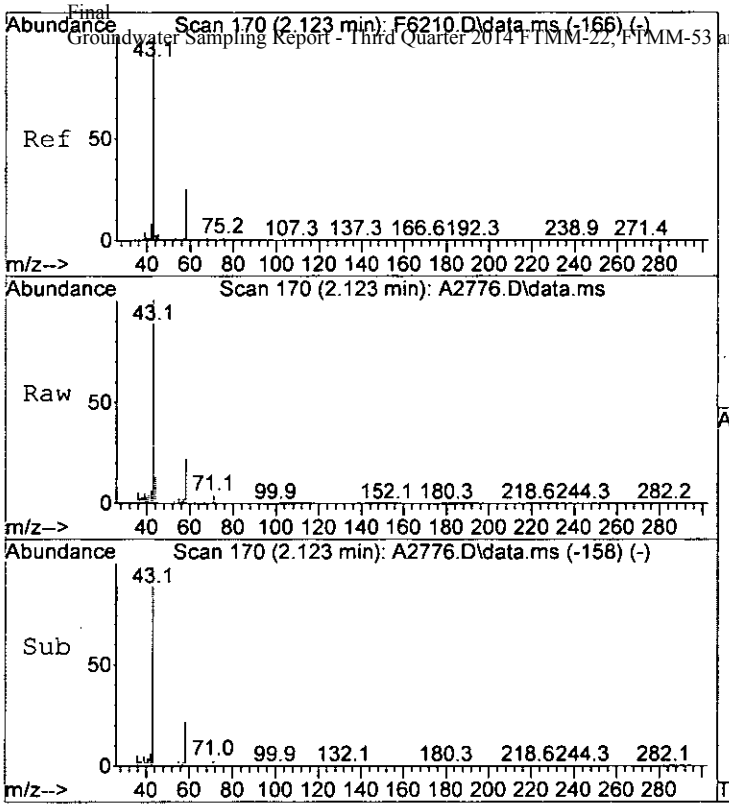
Quantitation Report (QT Reviewed)

Sample : R1407806-006|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2776.D Vial: 15
Acq On : 9 Oct 2014 4:57 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:40:36 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



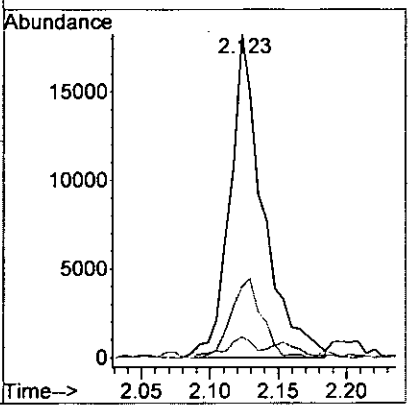
W072114.M Tue Oct 14 14:42:20 2014 MSVO10 Page: 2

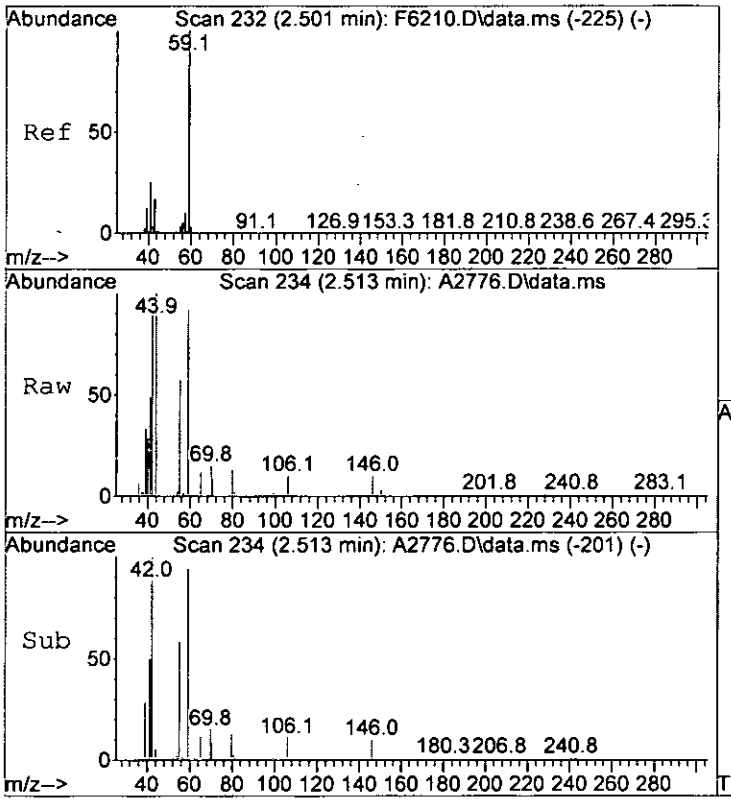


#15
Acetone
Concen: 10.59 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion: 43 Resp: 30874

Ion	Ratio	Lower	Upper
43	100		
58	21.9	7.2	47.2
42	6.3	0.0	27.0

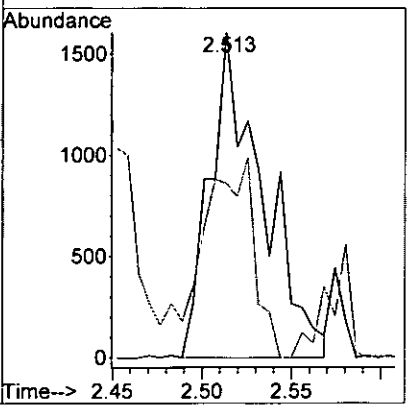


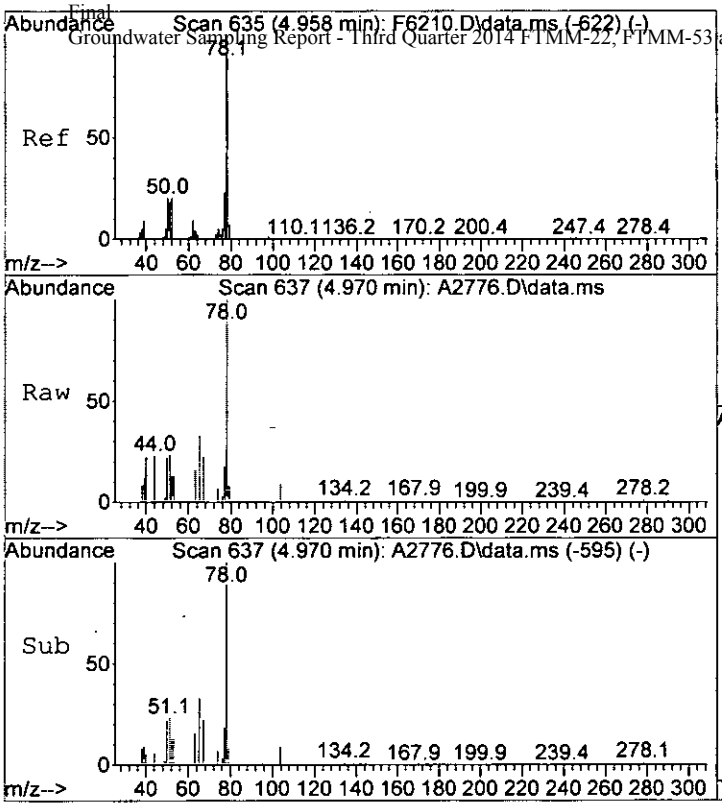


#23
TBA
Concen: 6.59 ug/L
RT: 2.513 min Scan# 234
Delta R.T. 0.012 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion: 59 Resp: 3273

Ion	Ratio	Lower	Upper
59	100		
41	53.6	2.8	42.8#

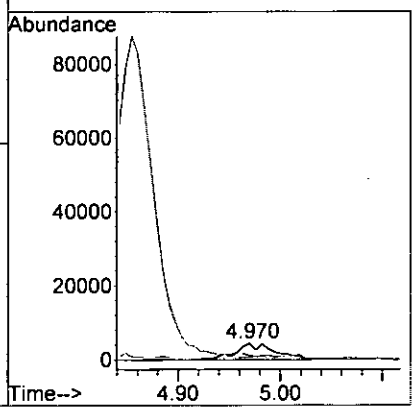


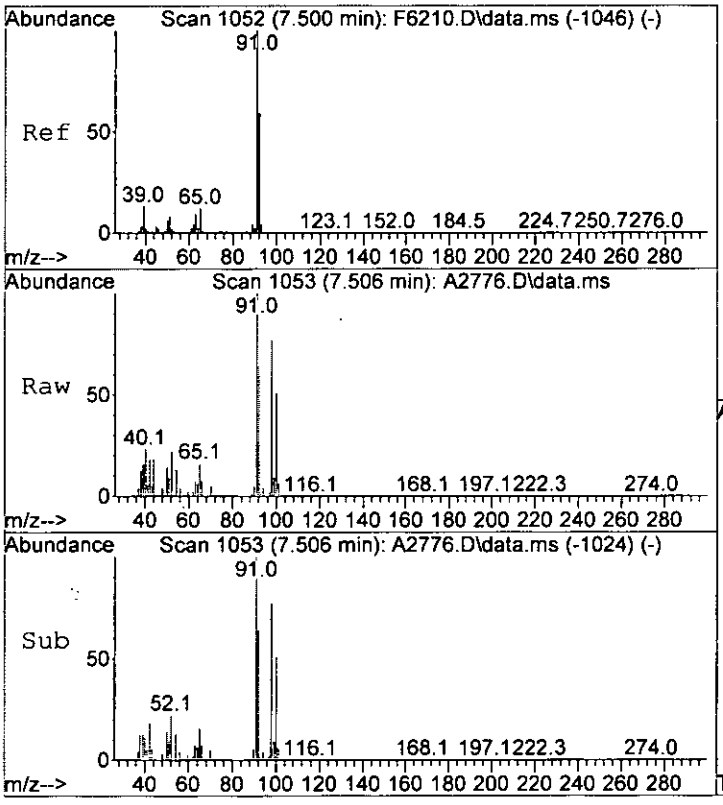


#49
Benzene
Concen: 0.37 ug/L m
RT: 4.970 min Scan# 637
Delta R.T. 0.012 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion: 78 Resp: 11844

Ion	Ratio	Lower	Upper
78	100		
51	22.7	0.0	39.4
52	12.8	0.0	36.9

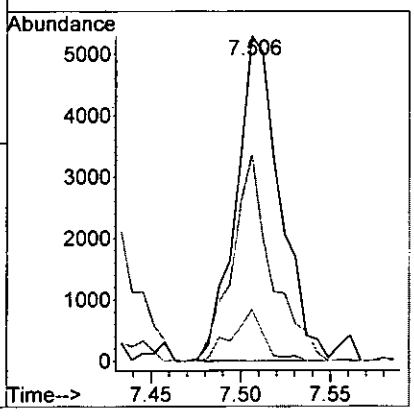


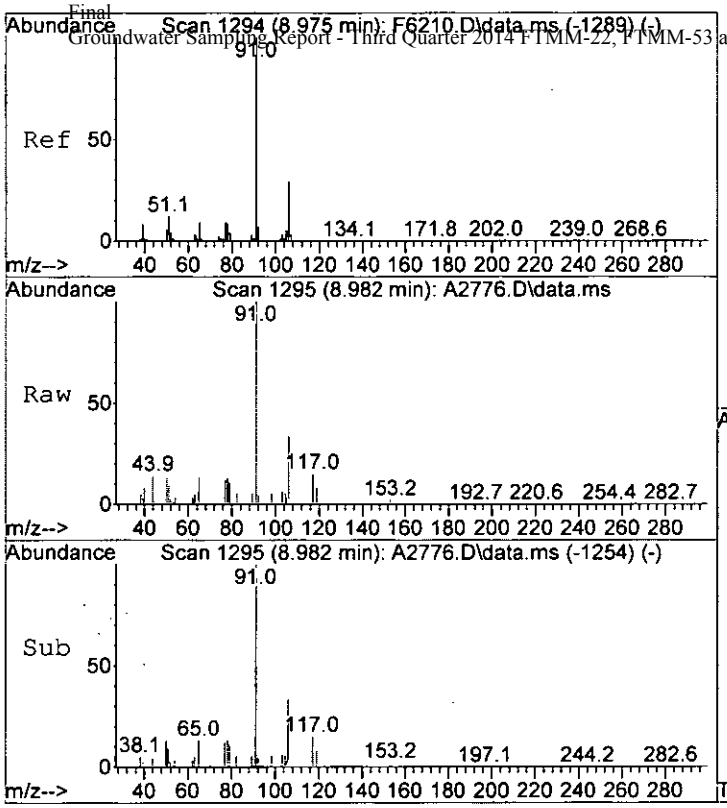


#66
Toluene
Concen: 0.27 ug/L
RT: 7.506 min Scan# 1053
Delta R.T. 0.006 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion: 91 Resp: 9028

Ion	Ratio	Lower	Upper
91	100		
92	63.5	39.5	79.5
65	15.7	0.0	32.0

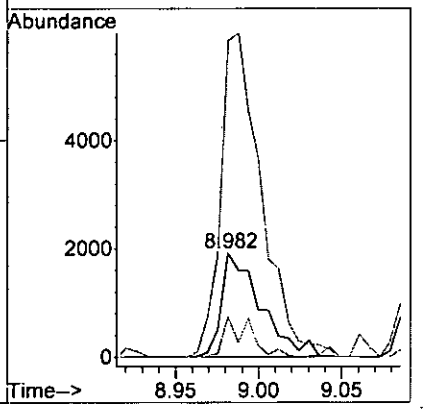


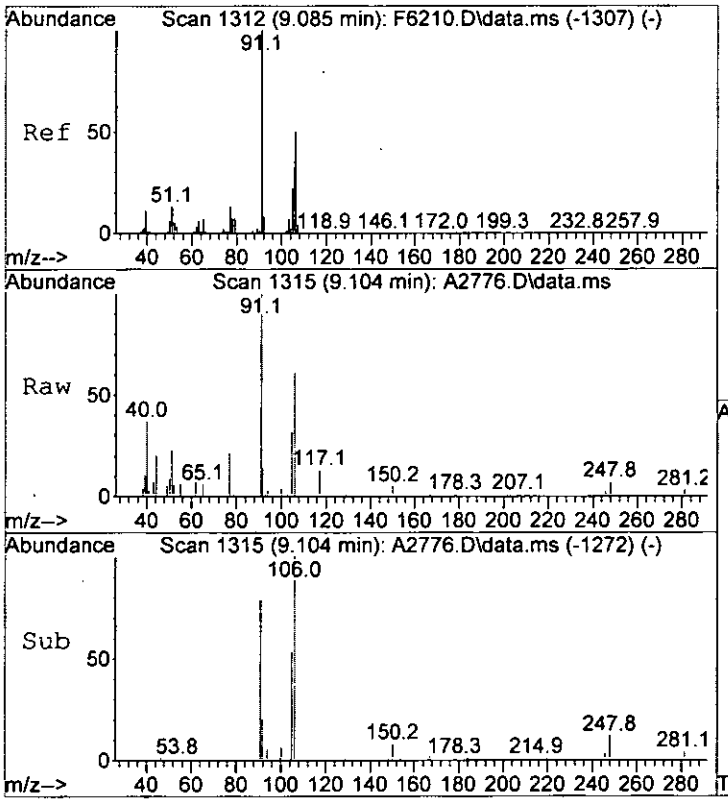


#82
Ethylbenzene
Concen: 0.28 ug/L
RT: 8.982 min Scan# 1295
Delta R.T. -0.000 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion:106 Resp: 3138

Ion	Ratio	Lower	Upper
106	100		
91	305.3	314.0	354.0#
65	38.5	11.1	51.1

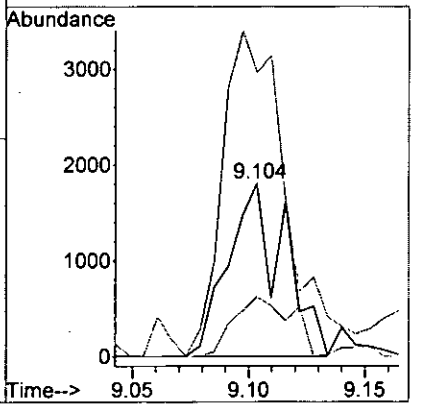


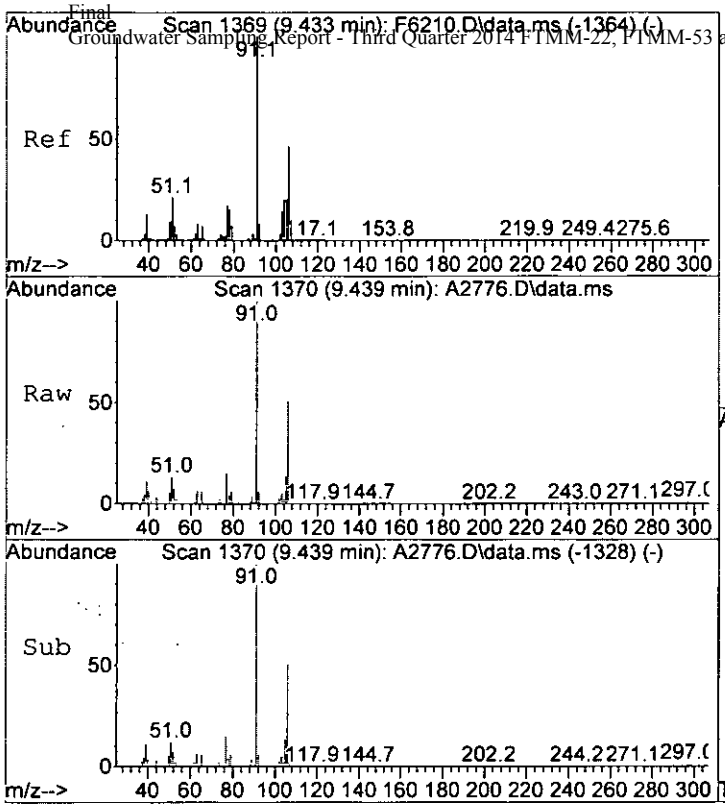


#83
(m+p)Xylene
Concen: 0.22 ug/L
RT: 9.104 min Scan# 1315
Delta R.T. 0.012 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion:106 Resp: 3018

Ion	Ratio	Lower	Upper
106	100		
91	164.2	183.8	223.8#
77	34.3	8.7	48.7

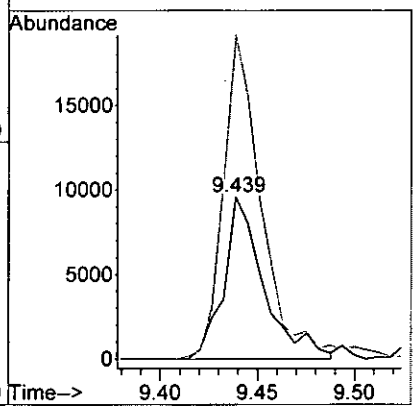


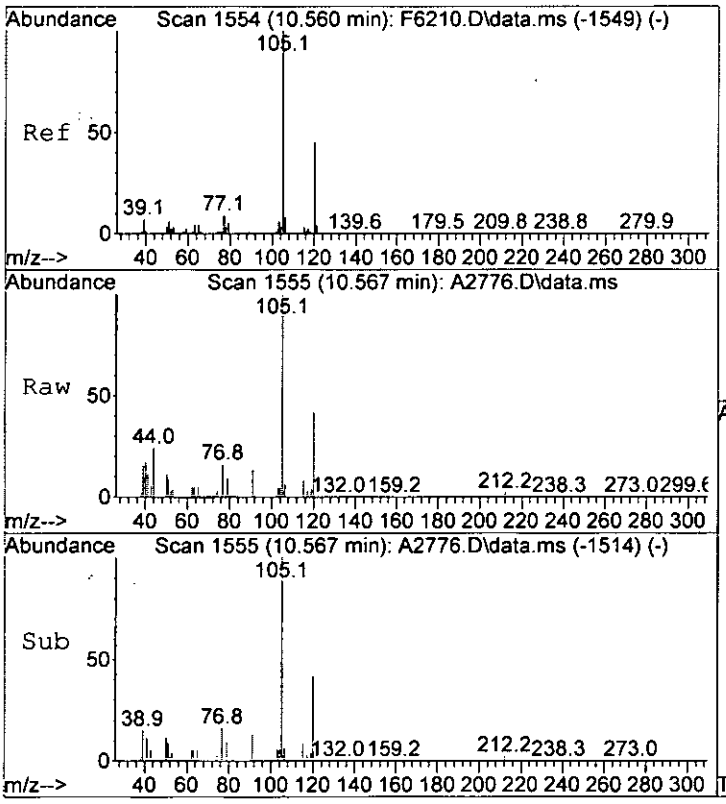


#84
o-Xylene
Concen: 1.00 ug/L
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion:106 Resp: 13589

Ion	Ratio	Lower	Upper
106	100		
91	199.9	198.0	238.0

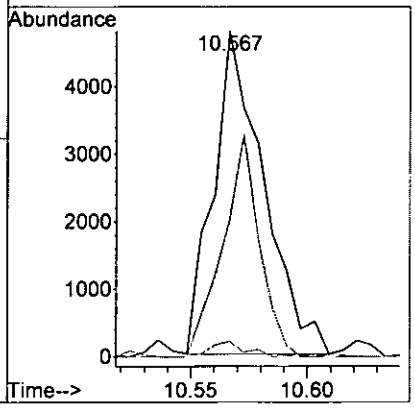




#101
1,2,4-Trimethylbenzene
Concen: 0.25 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. 0.006 min
Lab File: A2776.D
Acq: 9 Oct 2014 4:57 pm

Tgt Ion:105 Resp: 7167

Ion	Ratio	Lower	Upper
105	100		
120	41.6	24.9	64.9
65	4.6	0.0	25.0



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2776.D
Acq On : 9 Oct 2014 4:57 pm
Operator : F.NAEGLER
Sample : R1407806-006|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2776.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.123	164	170	180	rVB	28797	55390	1.30%	0.229%
2	4.324	521	531	538	rBV	583915	1438646	33.83%	5.957%
3	4.409	538	545	560	rVB	1018969	2647077	62.25%	10.960%
4	4.854	608	618	632	rBV2	511413	1399959	32.92%	5.796%
5	5.610	734	742	762	rBV	1461085	3289281	77.36%	13.619%
6	7.427	1035	1040	1051	rBV	2730809	4252020	100.00%	17.605%
7	8.841	1267	1272	1289	rBV	2882294	3854212	90.64%	15.958%
8	9.439	1366	1370	1378	rBV	53921	79066	1.86%	0.327%
9	9.878	1437	1442	1461	rBV	2306260	3030232	71.27%	12.546%
10	10.835	1594	1599	1608	rBV	3302896	3978226	93.56%	16.471%
11	11.060	1632	1636	1644	rBV	91334	128210	3.02%	0.531%

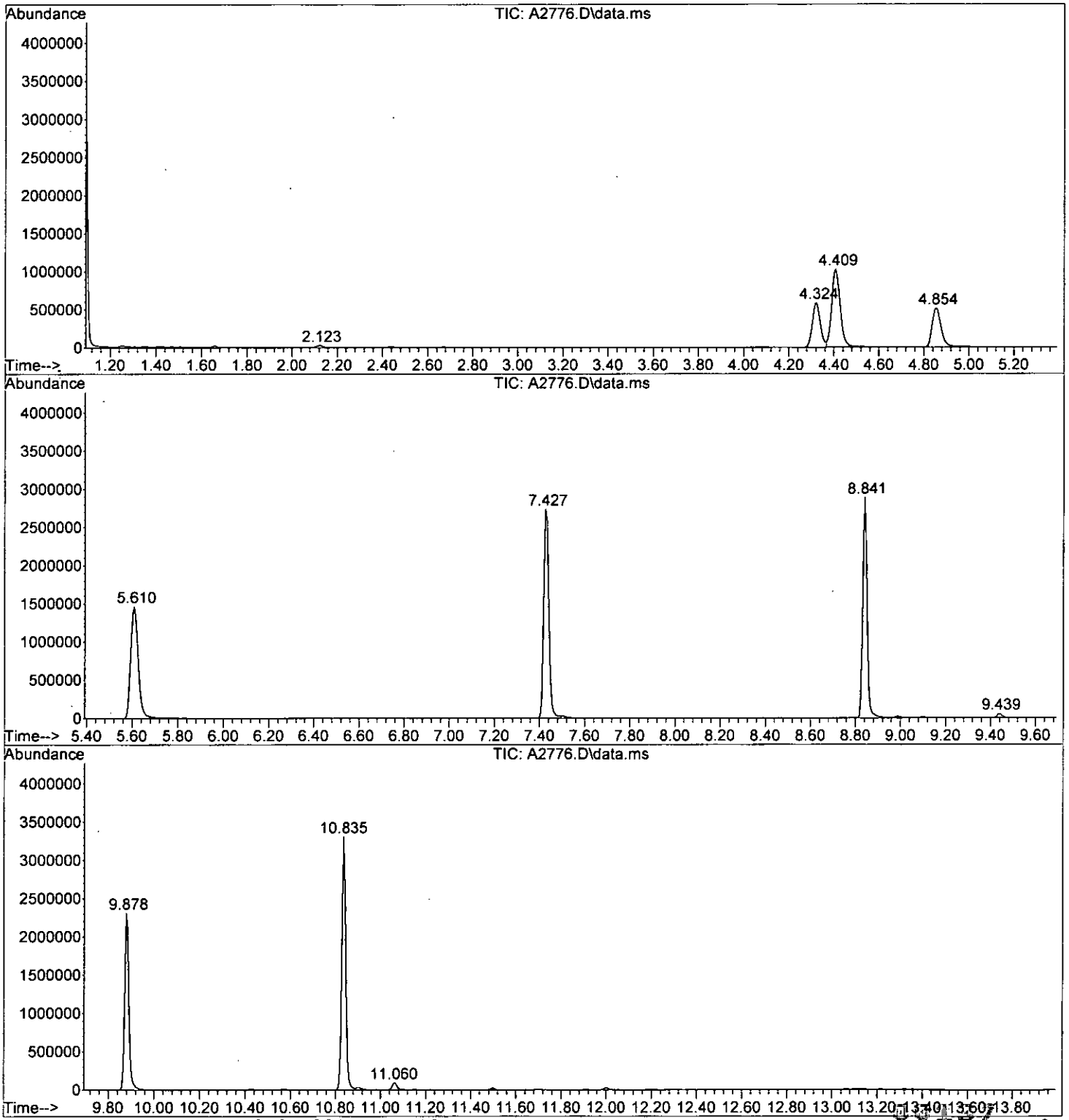
Sum of corrected areas: 24152319

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2776.D
Acq On    :  9 Oct 2014    4:57 pm
Operator  : F.NAEGLER
Sample    : R1407806-006|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:42:34 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2776.D
Acq On : 9 Oct 2014 4:57 pmm
Operator : F.NAEGLERR
Sample : R1407806-006|1.0
Misc : PARSONS 11603 T44
ALS Vial : 15 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1030
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 19:55

Sample Name: FTMM-53-GW-699RW03-8.2
Lab Code: R1407806-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2782.D\

Analysis Lot: 415420
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	**26**		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	**0.63**	J	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	**0.46**	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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1030
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 19:55

Sample Name: FTMM-53-GW-699RW03-8.2
Lab Code: R1407806-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2782.D\

Analysis Lot: 415420
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	**0.29**	J	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	0.32	
100-41-4	Ethylbenzene	**8.4**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**3.7**	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	**2.9**	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	**0.21**	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	**0.77**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	**1.2**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**6.6**		5.0	1.0	0.20	
95-47-6	o-Xylene	**6.4**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**1.5**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1030
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 19:55
Sample Name:	FTMM-53-GW-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1407806-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2782.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	10/9/14 19:55	
Dibromofluoromethane	105	85-115	10/9/14 19:55	
Toluene-d8	101	85-120	10/9/14 19:55	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1955

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

Sample Name: FTMM-53-GW-699RW03-8.2
Lab Code: R1407806-007

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.66	**8.0**	J
000079-29-8	Butane, 2,3-dimethyl-	2.44	**7.8**	JN
000096-14-0	Pentane, 3-methyl-	2.67	**9.2**	JN
	unknown	3.56	**6.1**	J
000565-59-3	Pentane, 2,3-dimethyl-	4.53	**5.7**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	10.41	**14.2**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	10.90	**9.3**	JN
	unknown	11.06	**22.5**	J
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	11.41	**5.1**	JN
000767-58-8	Indan, 1-methyl-	11.49	**11.5**	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	11.68	**10.1**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	11.72	**7.9**	JN
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	11.99	**12.3**	JN

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-007|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2782.D Vial: 21
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:02:04 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.403	168	930580	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1316948	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1156274	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	630022	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	441261	52.55	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.10%				
48) surr1,1,2-dichloroetha...	4.854	65	505929	57.09	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.18%				
65) SURR3,Toluene-d8	7.427	98	1494692	50.54	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.08%				
70) SURR2,BFB	9.878	95	592491	50.91	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.82%				
Target Compounds							Qvalue
40) Chloroform	4.086	83	4462	0.29	ug/L	#	61
49) Benzene	4.970	78	14909m	0.46	ug/L		
66) Toluene	7.512	91	7004	0.21	ug/L		96
72) Tetrachloroethene	8.055	164	1943	0.29	ug/L	#	69 <MDL
82) Ethylbenzene	8.982	106	93159	8.39	ug/L	#	90
83) (m+p)Xylene	9.097	106	10554	0.77	ug/L		89
84) o-Xylene	9.433	106	85954	6.42	ug/L		91
88) Isopropylbenzene	9.756	105	123626	3.67	ug/L		98
95) n-Propylbenzene	10.103	91	259580	6.60	ug/L		98
101) 1,2,4-Trimethylbenzene	10.561	105	751463	26.00	ug/L		97
103) sec-Butylbenzene	10.701	105	51034	1.52	ug/L		95
104) p-Isopropyltoluene	10.817	119	18332	0.63	ug/L		89
109) n-Butylbenzene	11.140	91	29523	1.20	ug/L		89
117) Naphthalen	12.377	128	48607	2.92	ug/L		97

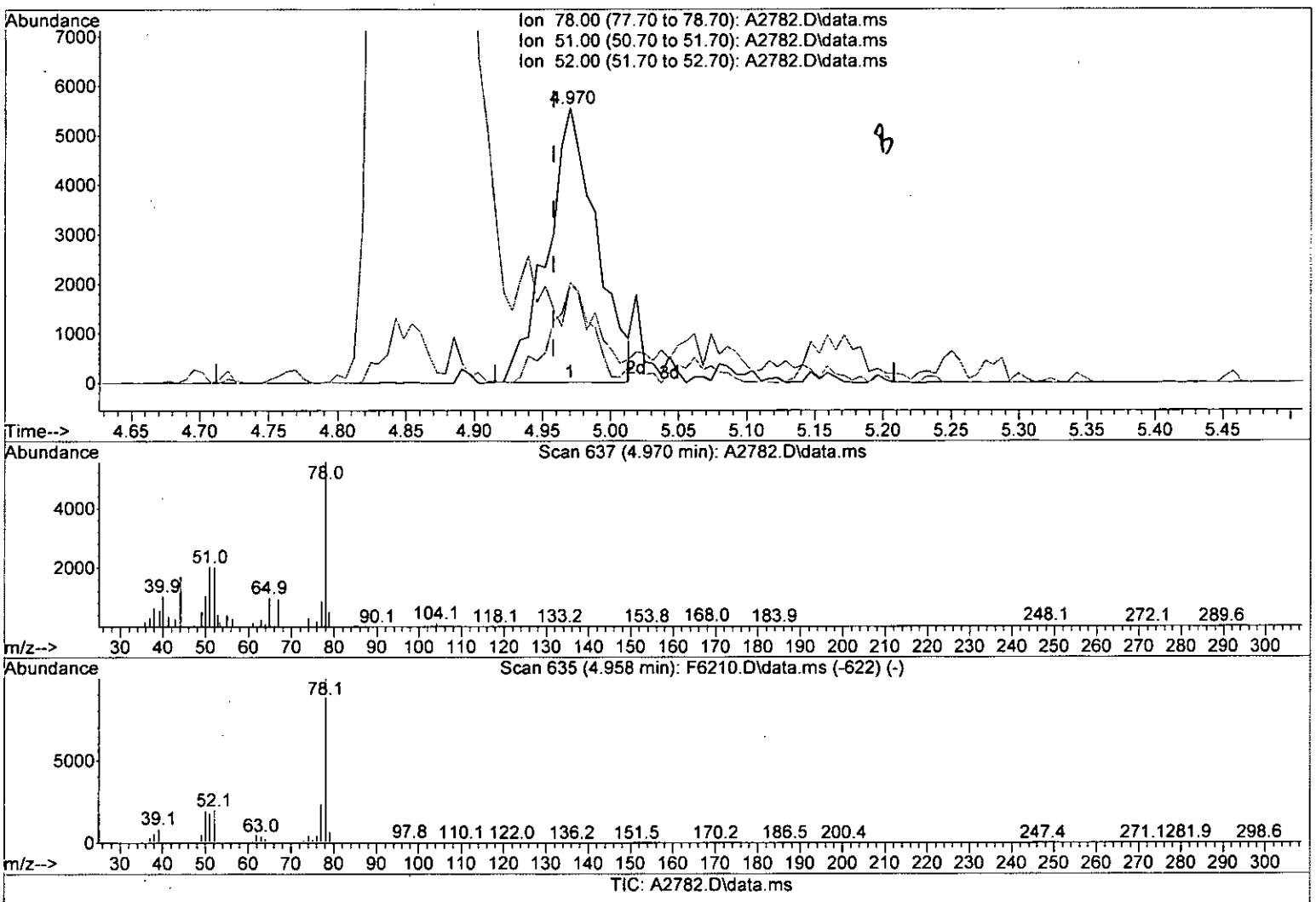
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FW 10/14/14

Quantitation Report (Qedit)

Sample : R1407806-007|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2782.D Vial: 21
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 20:08:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2782.D\data.ms

(49) Benzene (P)

4.970min (+0.012) 0.43 ug/L

response 13832

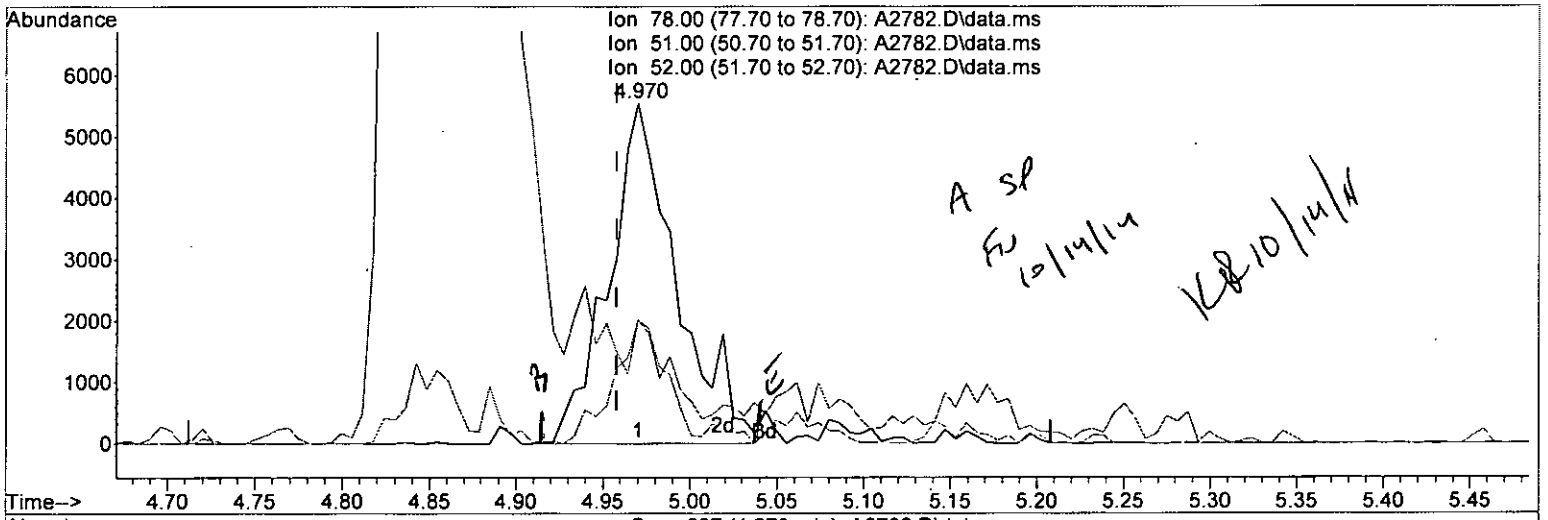
Ion	Exp%	Act%
78.00	100	100
51.00	19.40	36.48
52.00	16.90	36.21
0.00	0.00	0.00

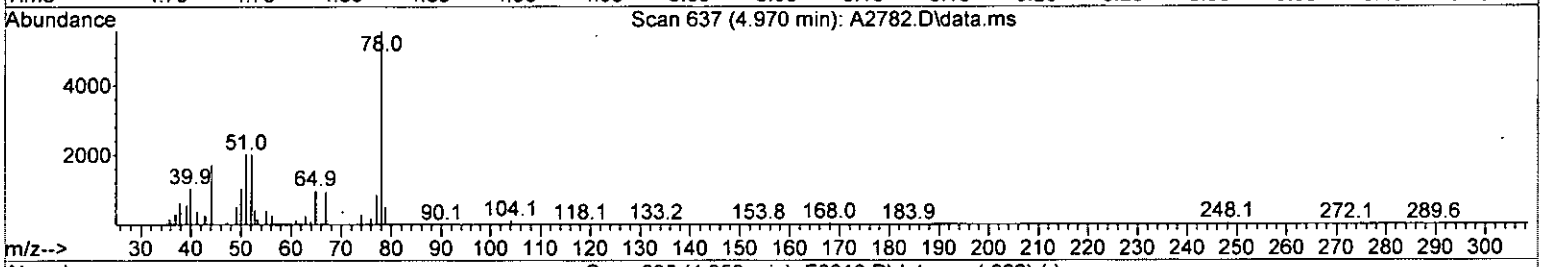
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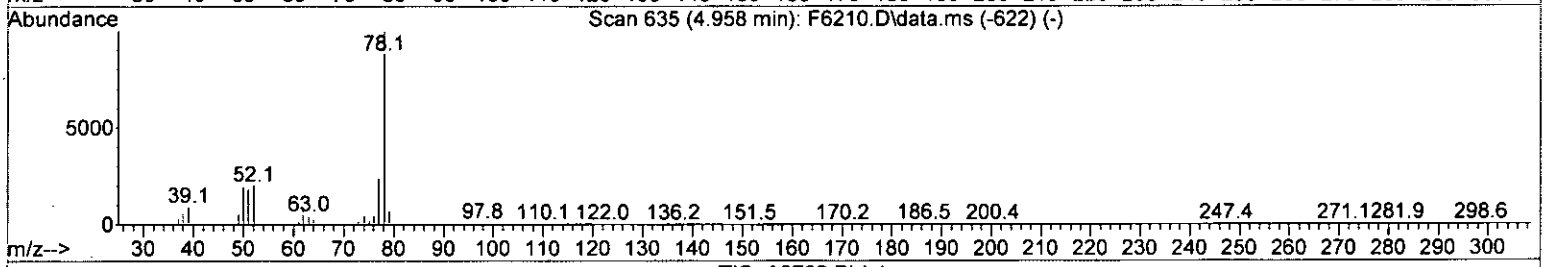
Quantitation Report (Qedit)

Sample : R1407806-007|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2782.D Vial: 21
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 20:08:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2782.D\data.ms

(49) Benzene (P)

4.970min (+0.012) 0.46 ug/L m

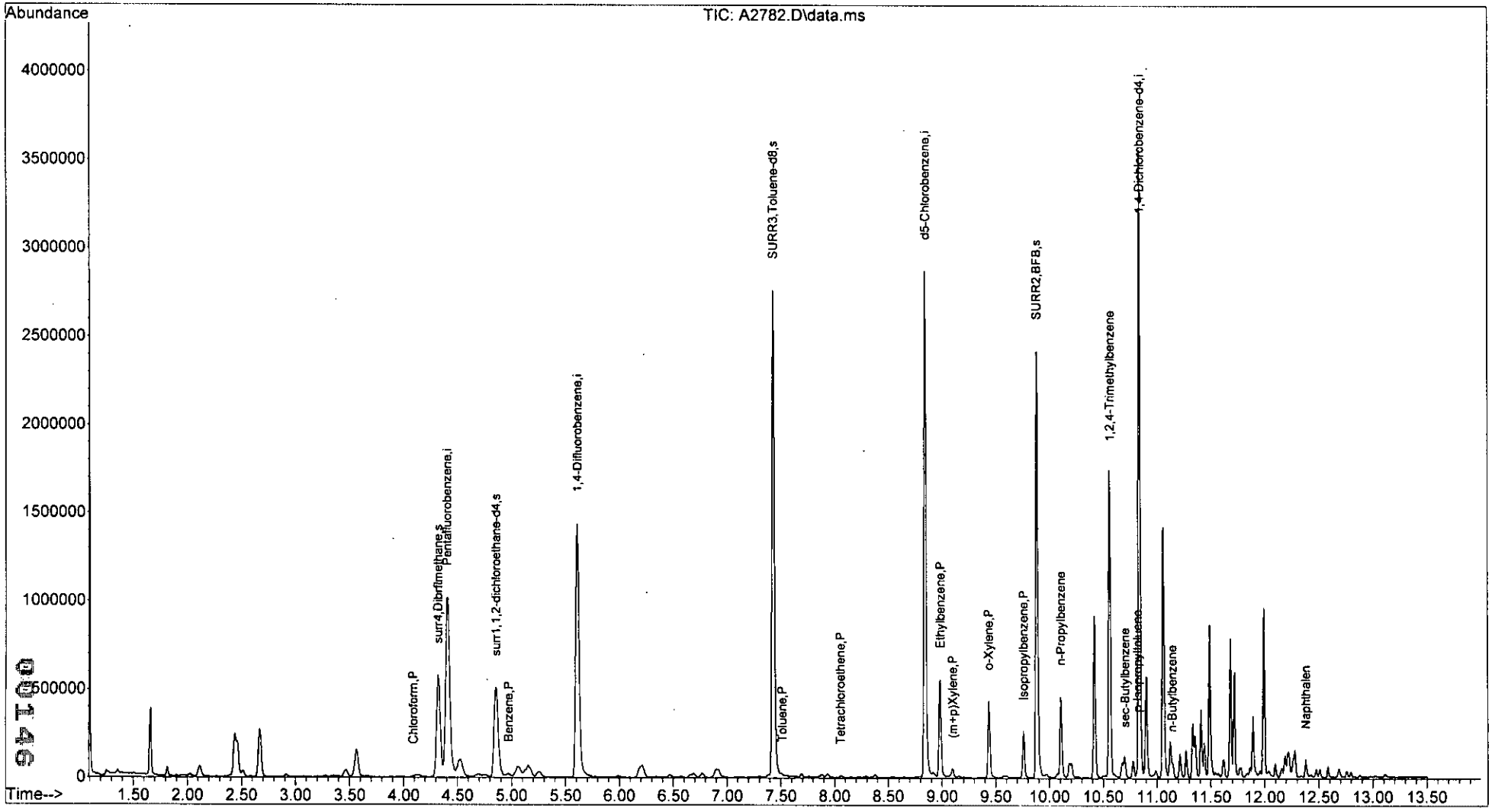
response 14909

Ion	Exp%	Act%
78.00	100	100
51.00	19.40	36.48
52.00	16.90	36.21
0.00	0.00	0.00

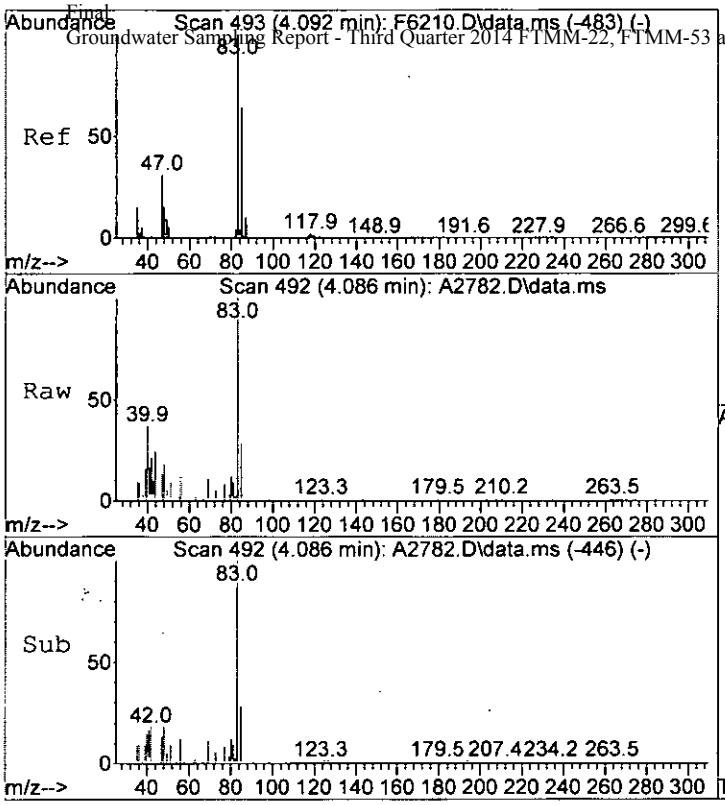
Quantitation Report (QT Reviewed)

Sample : R1407806-007|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2782.D Vial: 21
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:02:04 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



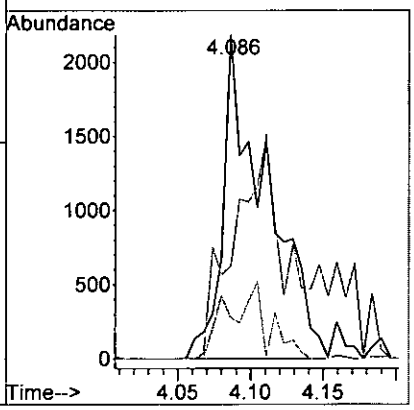
W072114.M Tue Oct 14 15:04:18 2014 MSVO10 Page: 2

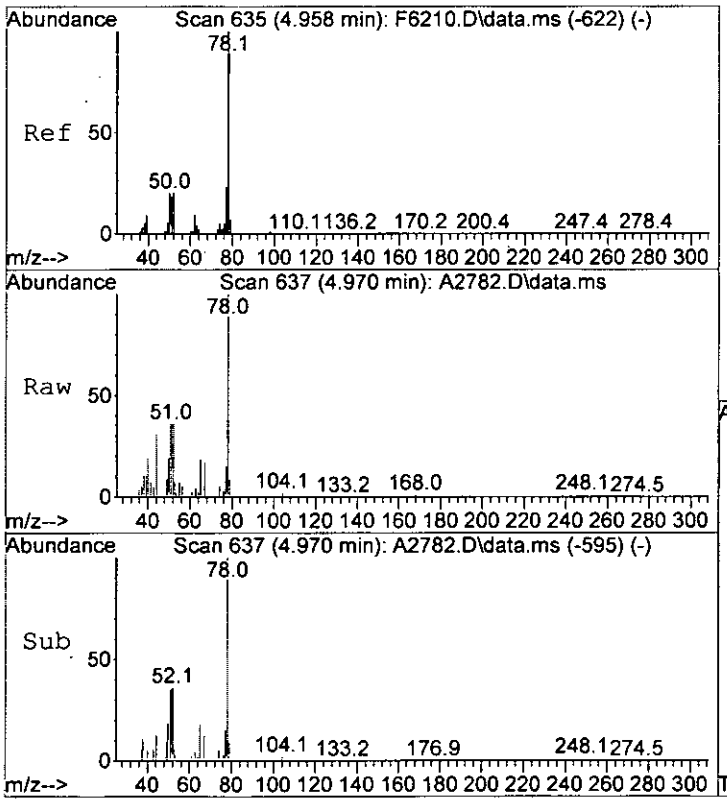


#40
Chloroform
Concen: 0.29 ug/L
RT: 4.086 min Scan# 492
Delta R.T. -0.006 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion: 83 Resp: 4462

Ion	Ratio	Lower	Upper
83	100		
85	28.4	42.7	82.7#
47	12.7	5.9	45.9

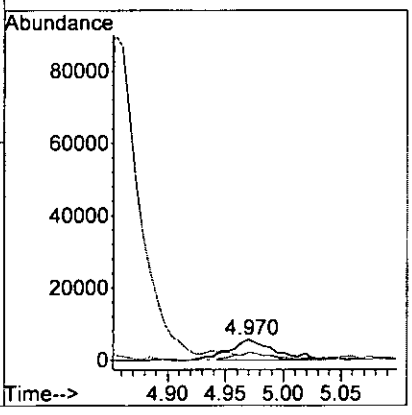


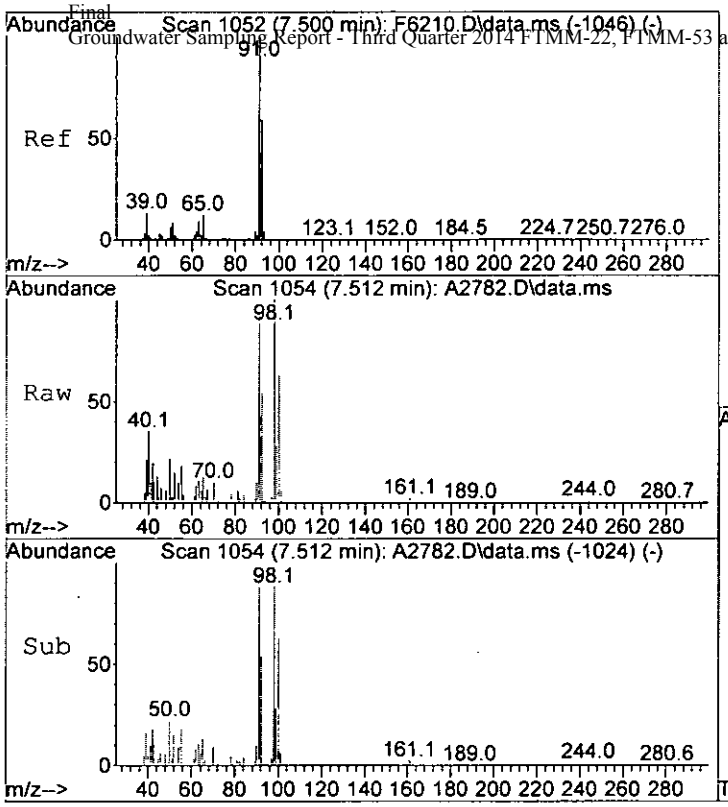


#49
Benzene
Concen: 0.46 ug/L m
RT: 4.970 min Scan# 637
Delta R.T. 0.012 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion: 78 Resp: 14909

Ion	Ratio	Lower	Upper
78	100		
51	36.5	0.0	39.4
52	36.2	0.0	36.9

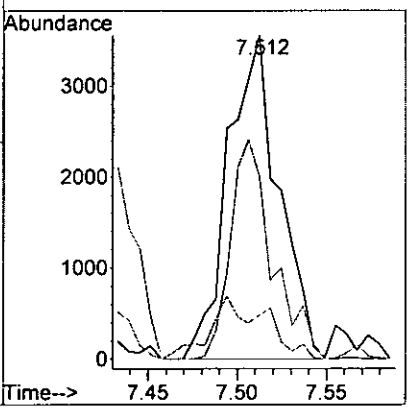


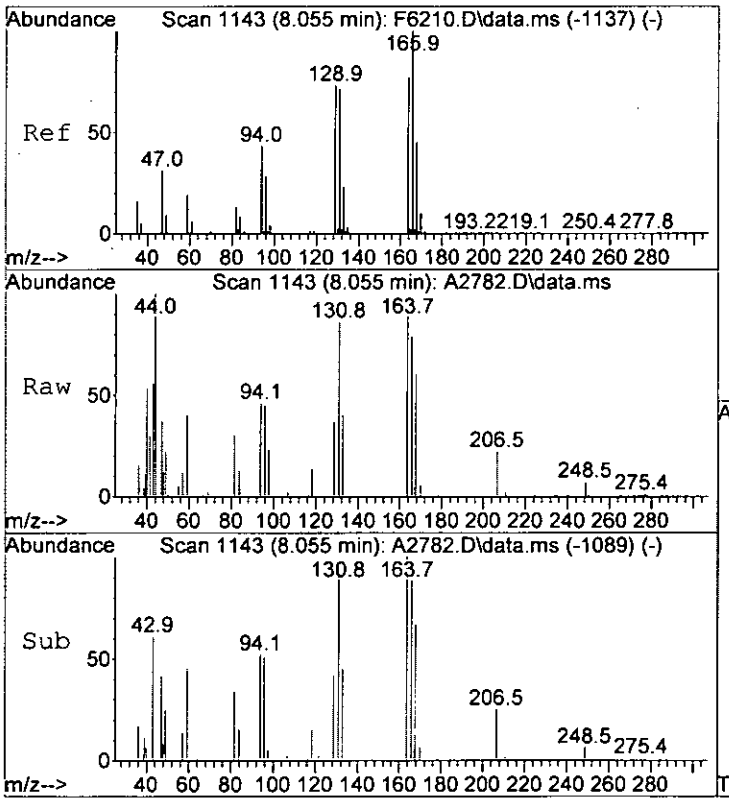


#66
Toluene
Concen: 0.21 ug/L
RT: 7.512 min Scan# 1054
Delta R.T. 0.012 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion: 91 Resp: 7004

Ion	Ratio	Lower	Upper
91	100		
92	56.3	39.5	79.5
65	13.4	0.0	32.0

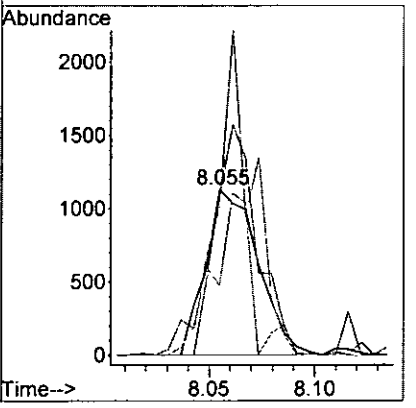


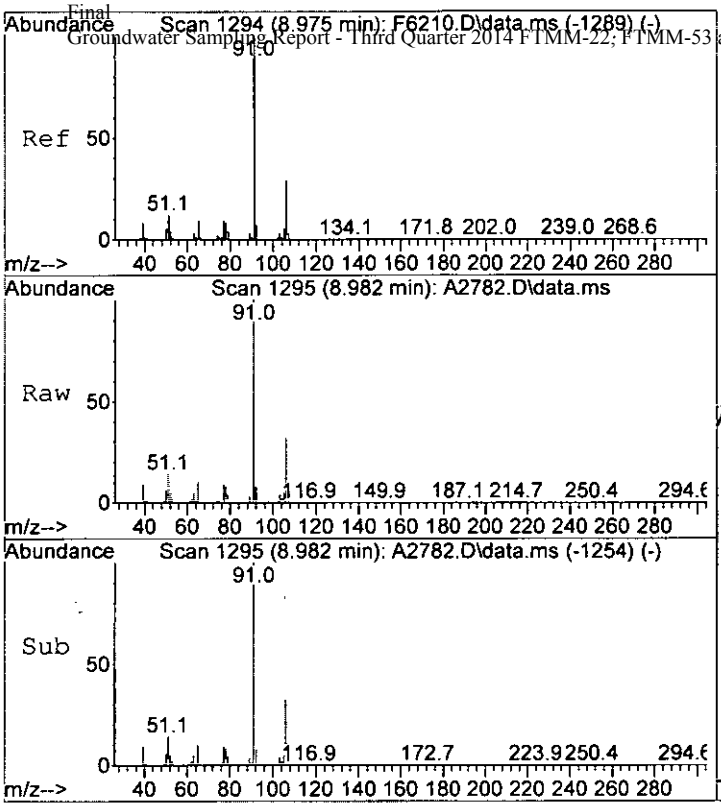


#72
Tetrachloroethene
Concen: 0.29 ug/L
RT: 8.055 min Scan# 1143
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:164 Resp: 1943

Ion	Ratio	Lower	Upper
164	100		
166	89.1	106.8	146.8#
129	42.1	69.6	109.6#
131	96.6	68.5	108.5

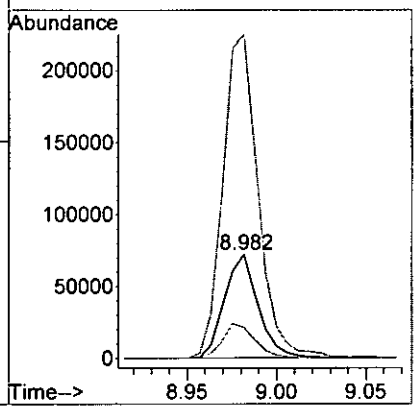


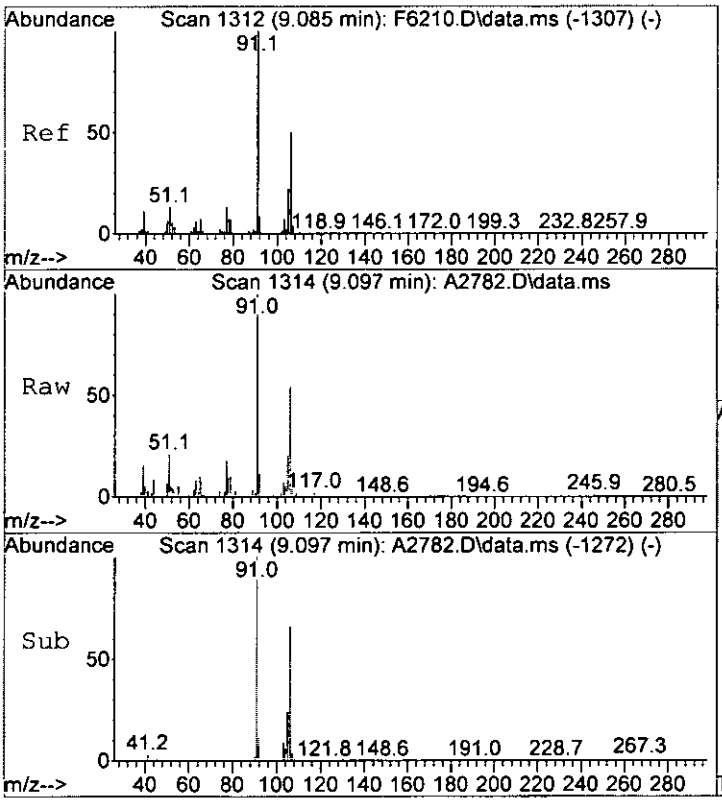


#82
Ethylbenzene
Concen: 8.39 ug/L
RT: 8.982 min Scan# 1295
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:106 Resp: 93159

Ion	Ratio	Lower	Upper
106	100		
91	312.0	314.0	354.0#
65	29.8	11.1	51.1

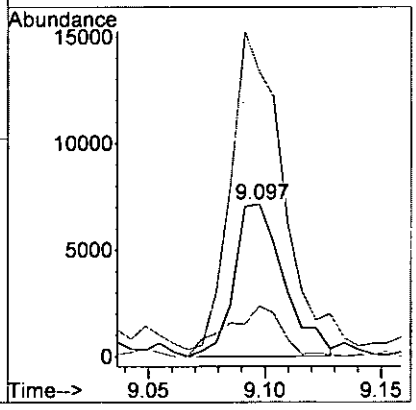


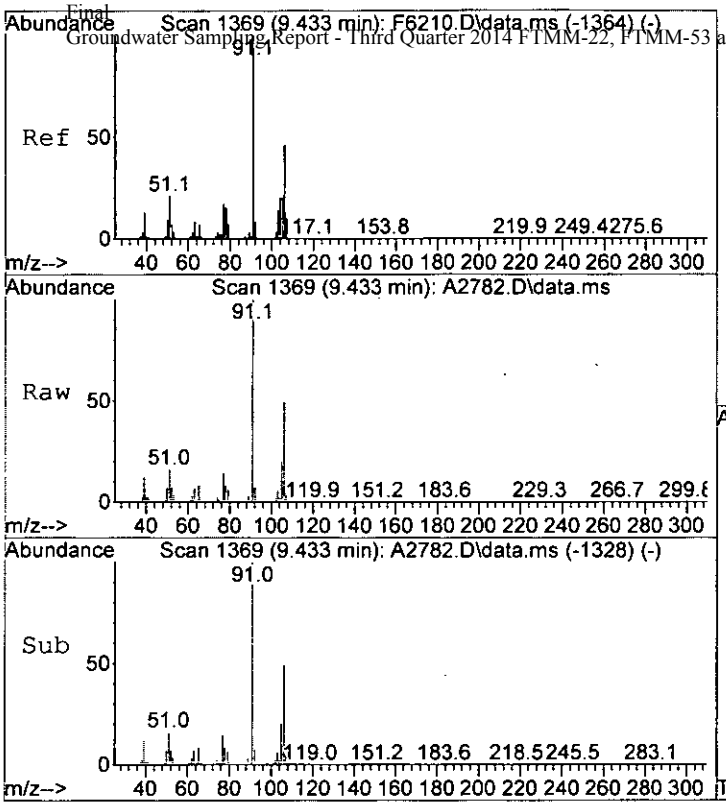


#83
(m+p)Xylene
Concen: 0.77 ug/L
RT: 9.097 min Scan# 1314
Delta R.T. 0.006 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:106 Resp: 10554

Ion	Ratio	Lower	Upper
106	100		
91	186.8	183.8	223.8
77	32.9	8.7	48.7

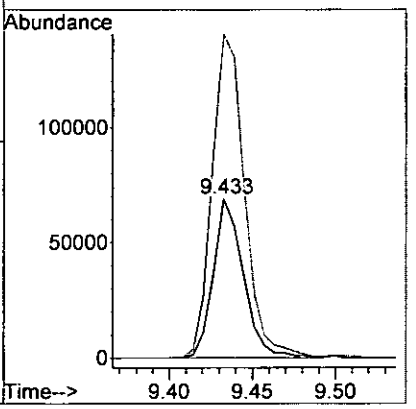


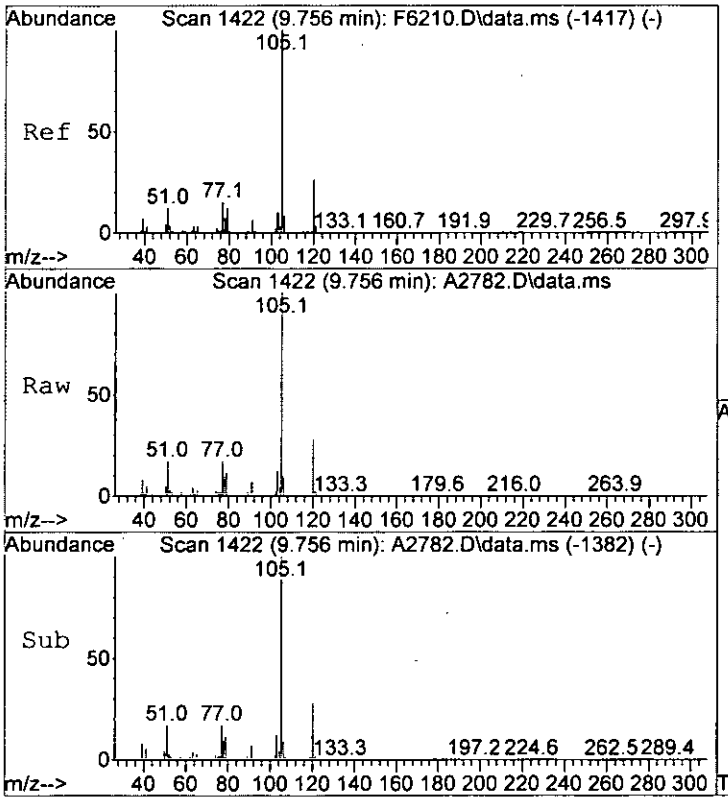


#84
o-Xylene
Concen: 6.42 ug/L
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:106 Resp: 85954

Ion	Ratio	Lower	Upper
106	100		
91	203.1	198.0	238.0

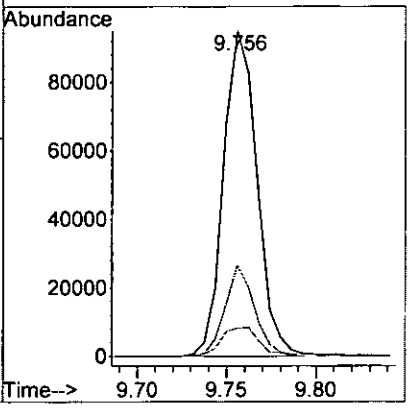


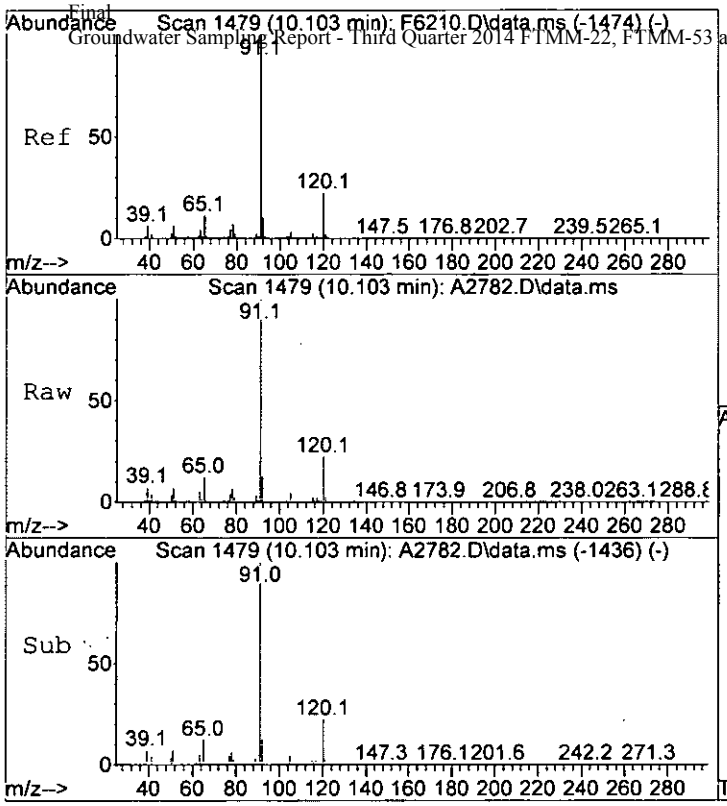


#88
Isopropylbenzene
Concen: 3.67 ug/L
RT: 9.756 min Scan# 1422
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:105 Resp: 123626

Ion	Ratio	Lower	Upper
105	100		
120	27.8	6.8	46.8
106	8.6	0.0	28.8

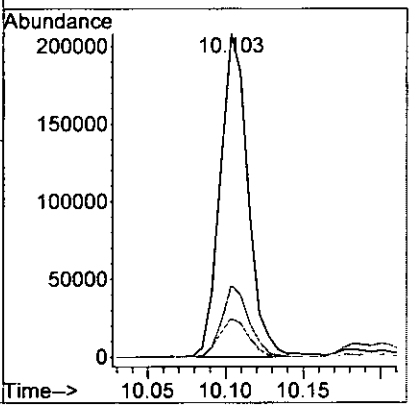


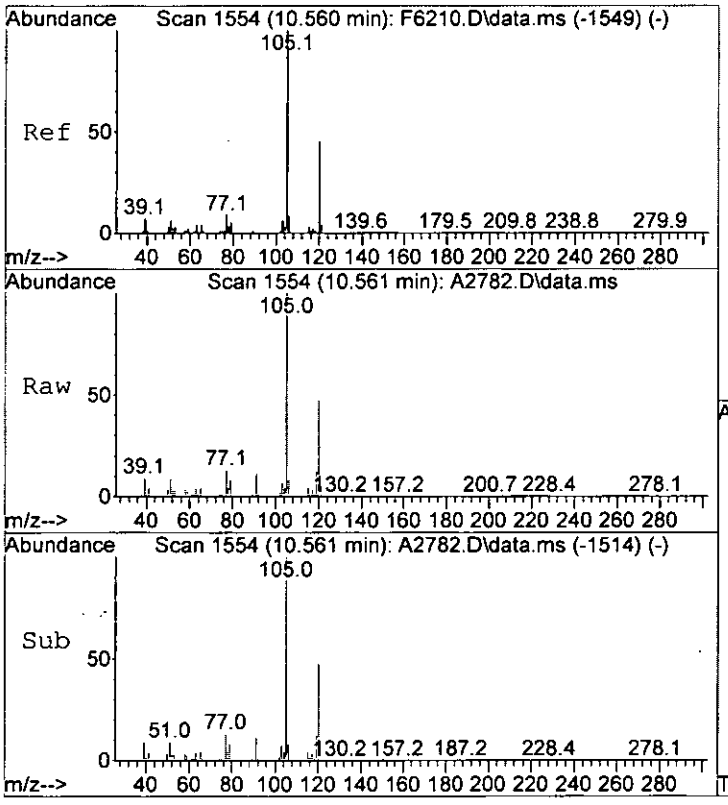


#95
n-Propylbenzene
Concen: 6.60 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion: 91 Resp: 259580

Ion	Ratio	Lower	Upper
91	100		
120	22.0	2.9	42.9
65	11.8	0.0	31.4

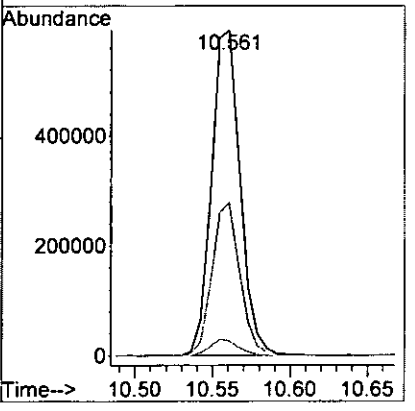


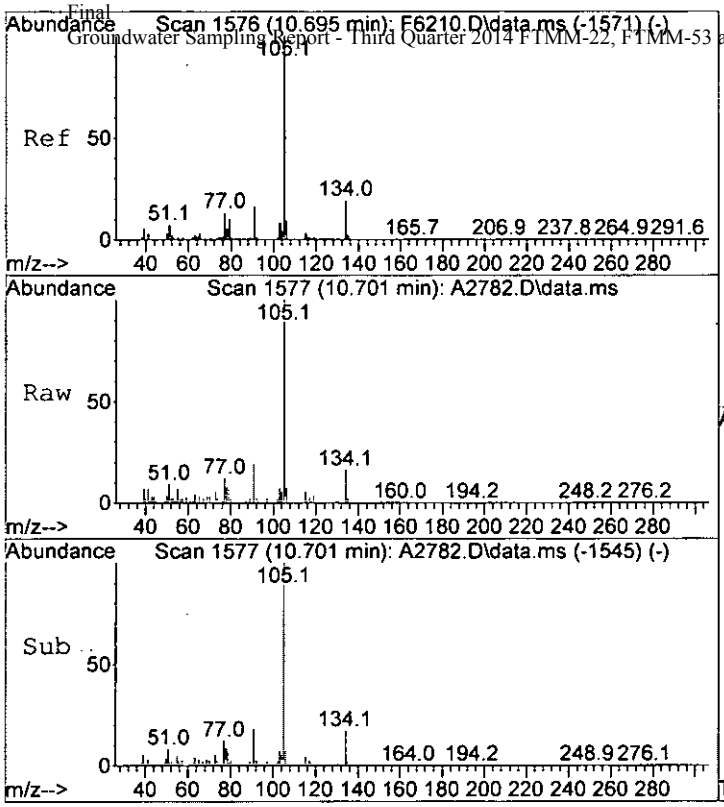


#101
1,2,4-Trimethylbenzene
Concen: 26.00 ug/L
RT: 10.561 min Scan# 1554
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:105 Resp: 751463

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.9	64.9
65	4.5	0.0	25.0

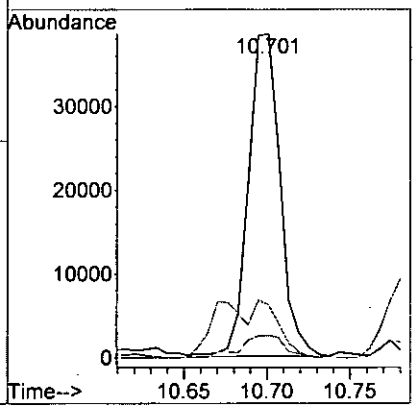


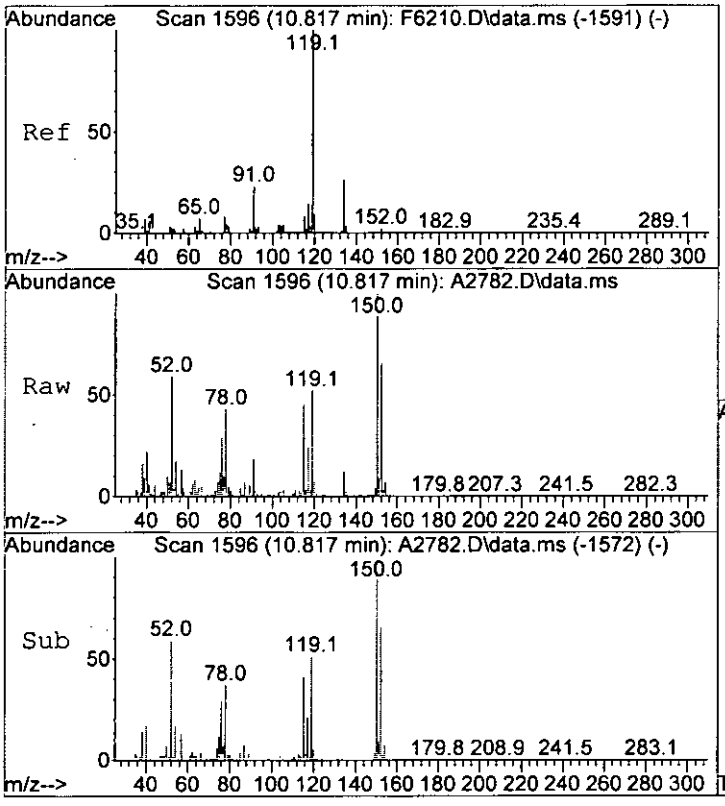


#103
sec-Butylbenzene
Concen: 1.52 ug/L
RT: 10.701 min Scan# 1577
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:105 Resp: 51034

Ion	Ratio	Lower	Upper
105	100		
134	16.4	0.0	38.9
103	6.8	0.0	28.6

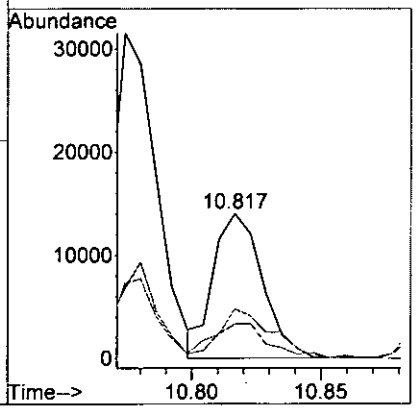


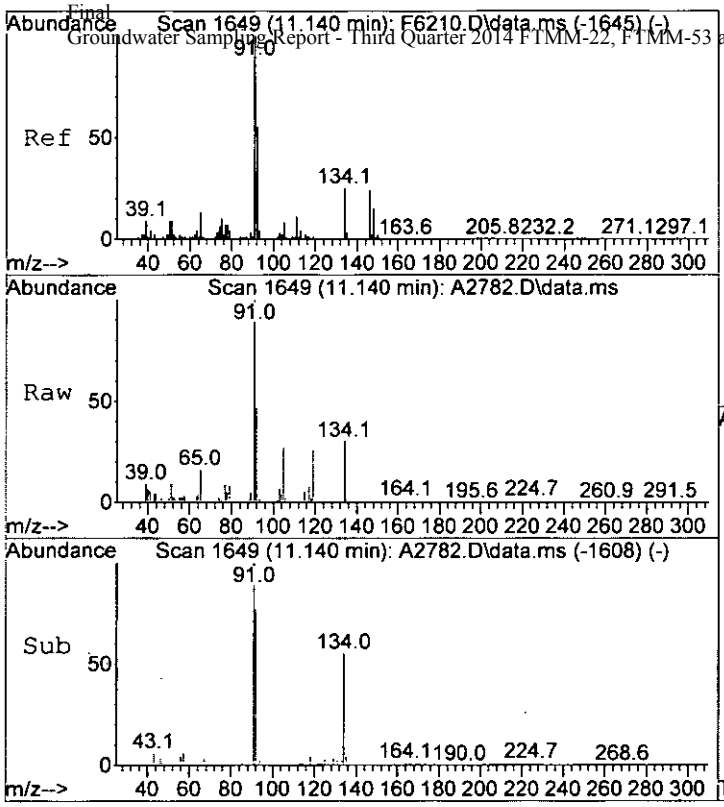


#104
p-Isopropyltoluene
Concen: 0.63 ug/L
RT: 10.817 min Scan# 1596
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:119 Resp: 18332

Ion	Ratio	Lower	Upper
119	100		
134	23.5	5.5	45.5
91	34.1	4.5	44.5

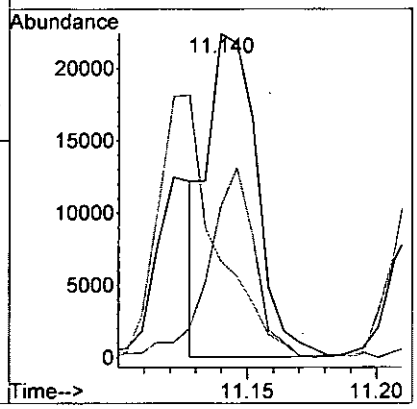


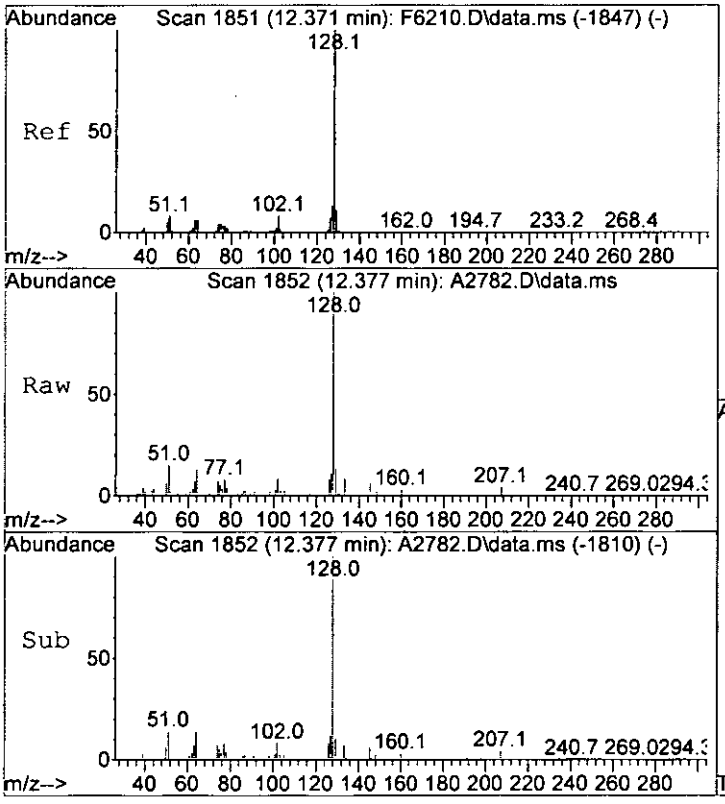


#109
n-Butylbenzene
Concen: 1.20 ug/L
RT: 11.140 min Scan# 1649
Delta R.T. -0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion: 91 Resp: 29523

Ion	Ratio	Lower	Upper
91	100		
92	46.8	35.1	75.1
134	29.7	4.2	44.2

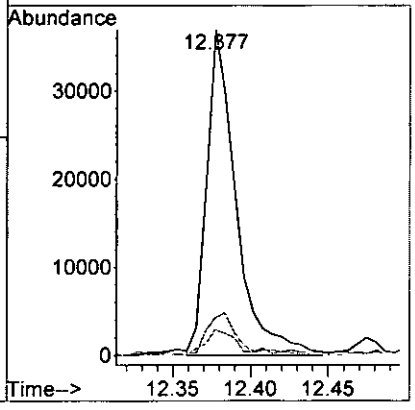




#117
Naphthalen
Concen: 2.92 ug/L
RT: 12.377 min Scan# 1852
Delta R.T. 0.000 min
Lab File: A2782.D
Acq: 9 Oct 2014 7:55 pm

Tgt Ion:128 Resp: 48607

Ion	Ratio	Lower	Upper
128	100		
127	11.4	0.0	32.9
102	7.9	0.0	28.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

FJ
12/14/14

Signal : TIC: A2782.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.251	24	27	34	rBV3	26394	53706	1.28%	0.125%
2	1.660	90	94	104	rVB	383638	443663	10.58%	1.035%
3	1.812	115	119	126	rBV	50076	57173	1.36%	0.133%
4	2.111	162	168	178	rVB4	55770	116994	2.79%	0.273%
5	2.440	215	222	224	rBV	237313	431643	10.29%	1.007%
6	2.513	231	234	239	rVB2	32165	47394	1.13%	0.111%
7	2.666	253	259	273	rVB	270067	506802	12.08%	1.182%
8	3.464	384	390	398	rVB2	34286	77486	1.85%	0.181%
9	3.562	398	406	415	rBV2	154366	336995	8.03%	0.786%
10	4.318	522	530	537	rBV2	573960	1391180	33.17%	3.245%
11	4.403	537	544	557	rVV	1014205	2761654	65.85%	6.442%
12	4.525	557	564	576	rVB3	96805	311838	7.44%	0.727%
13	4.690	583	591	598	rBV6	15160	49260	1.17%	0.115%
14	4.854	610	618	629	rBV2	505257	1367615	32.61%	3.190%
15	5.062	644	652	657	rBV6	48979	141980	3.39%	0.331%
16	5.153	663	667	676	rVB8	58119	151089	3.60%	0.352%
17	5.251	676	683	697	rVB8	29838	91148	2.17%	0.213%
18	5.610	734	742	761	rBV	1435937	3256117	77.64%	7.595%
19	6.208	829	840	848	rBV6	67286	229845	5.48%	0.536%
20	6.763	926	931	940	rVB3	23217	46885	1.12%	0.109%
21	6.909	944	955	965	rBV5	44774	158515	3.78%	0.370%
22	7.427	1035	1040	1050	rBV	2743278	4194125	100.00%	9.783%
23	8.841	1267	1272	1282	rBV	2865415	3794348	90.47%	8.851%
24	8.982	1290	1295	1303	rVB	548304	747106	17.81%	1.743%
25	9.091	1309	1313	1320	rVB2	44277	69444	1.66%	0.162%
26	9.433	1364	1369	1381	rBV	432285	568780	13.56%	1.327%
27	9.756	1417	1422	1428	rBV	261068	329377	7.85%	0.768%
28	9.878	1438	1442	1453	rBV	2412544	3034663	72.36%	7.079%
29	10.103	1475	1479	1487	rVB	453754	566950	13.52%	1.322%
30	10.183	1487	1492	1494	rBV2	76613	109786	2.62%	0.256%
31	10.414	1526	1530	1541	rBV	914062	1156494	27.57%	2.698%
32	10.555	1549	1553	1560	rBV	1737305	2224125	53.03%	5.188%
33	10.676	1568	1573	1574	rBV	82457	102737	2.45%	0.240%
34	10.695	1574	1576	1583	rVB	119942	152525	3.64%	0.356%
35	10.780	1585	1590	1593	rBV	91923	115634	2.76%	0.270%

W072114.M Tue Oct 14 15:04:44 2014 MSVO10 Page: 1

00154

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	10.835	1593	1599	1605	rVV	3548438	4086676	97.44%	9.532%
37	10.896	1605	1609	1618	rVV	567691	756312	18.03%	1.764%
38	10.987	1621	1624	1629	rVB3	38303	51377	1.22%	0.120%
39	11.061	1629	1636	1643	rBV	1419545	1836121	43.78%	4.283%
40	11.121	1643	1646	1657	rVB2	204245	325699	7.77%	0.760%
41	11.213	1657	1661	1667	rBV	131819	163835	3.91%	0.382%
42	11.268	1667	1670	1676	rVB	153774	176927	4.22%	0.413%
43	11.335	1676	1681	1682	rBV	303872	339235	8.09%	0.791%
44	11.353	1682	1684	1689	rVB	225956	241302	5.75%	0.563%
45	11.408	1689	1693	1696	rBV	377551	414048	9.87%	0.966%
46	11.438	1696	1698	1702	rVV	184802	183935	4.39%	0.429%
47	11.487	1702	1706	1713	rVB	855307	941621	22.45%	2.196%
48	11.621	1722	1728	1732	rVB3	99460	134983	3.22%	0.315%
49	11.682	1732	1738	1741	rBV	787130	828009	19.74%	1.931%
50	11.719	1741	1744	1749	rVV	594316	642920	15.33%	1.500%
51	11.780	1749	1754	1759	rVB2	52143	86346	2.06%	0.201%
52	11.890	1769	1772	1780	rVB	335047	352148	8.40%	0.821%
53	11.993	1785	1789	1793	rVV2	946628	1003904	23.94%	2.342%
54	12.036	1793	1796	1803	rVB6	30352	50131	1.20%	0.117%
55	12.097	1803	1806	1812	rVB2	77881	83275	1.99%	0.194%
56	12.158	1812	1816	1818	rBV2	50042	65499	1.56%	0.153%
57	12.188	1818	1821	1823	rVV	116042	137131	3.27%	0.320%
58	12.219	1823	1826	1830	rVV2	138581	228253	5.44%	0.532%
59	12.280	1830	1836	1842	rVB2	153815	259748	6.19%	0.606%
60	12.377	1849	1852	1857	rBV	97825	112210	2.68%	0.262%
61	12.475	1863	1868	1871	rBV3	41016	47099	1.12%	0.110%
62	12.585	1882	1886	1892	rBV2	61109	62272	1.48%	0.145%
63	12.688	1898	1903	1908	rBV	45649	65151	1.55%	0.152%

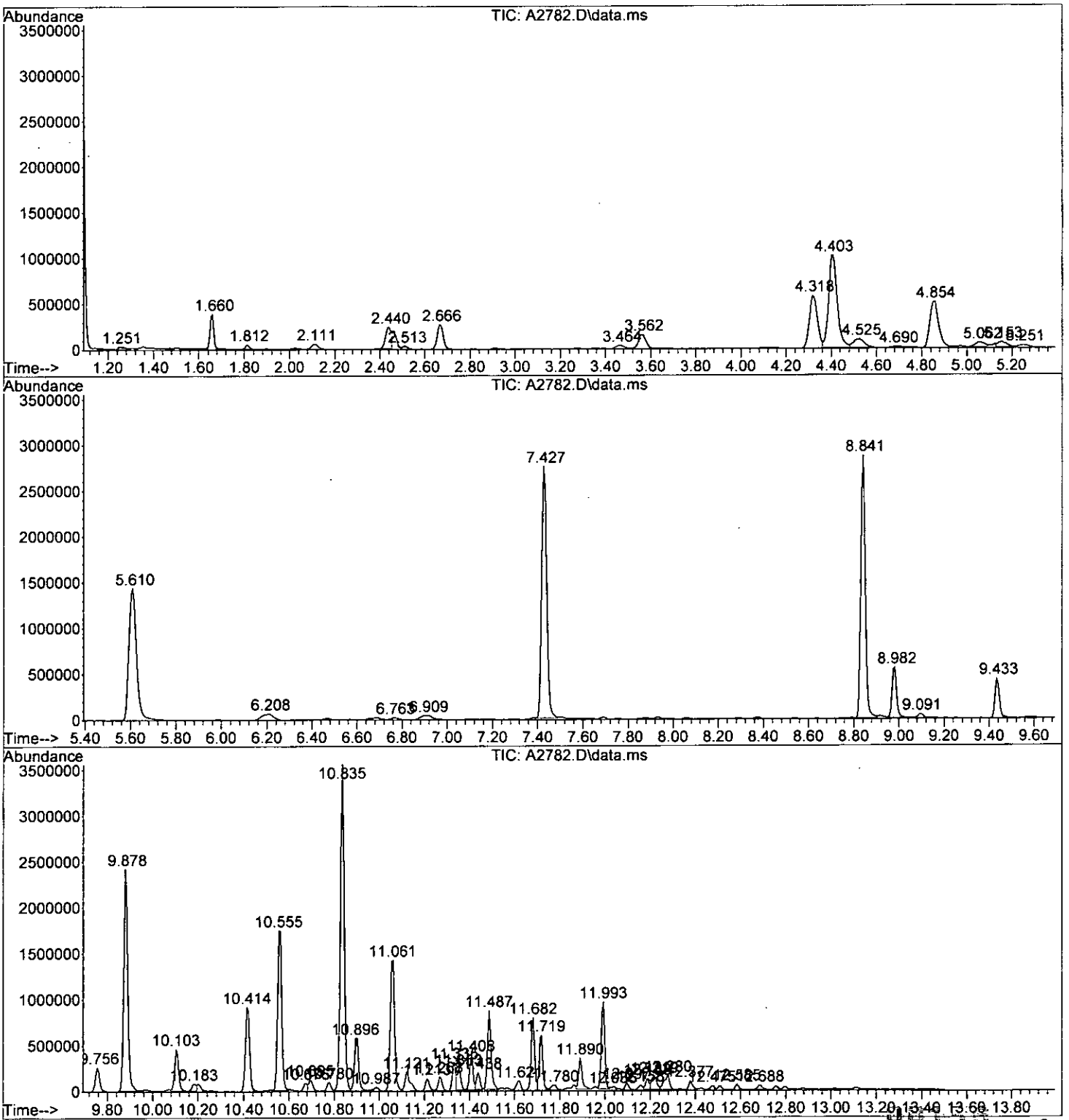
Sum of corrected areas: 42871243

LSC Report - Integrated Chromatogram

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Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On    :  9 Oct 2014    7:55 pm
Operator  : F.NAEGLER
Sample    : R1407806-007|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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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W072114.M Tue Oct 14 15:04:47 2014 MSVO10 Page: 3

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

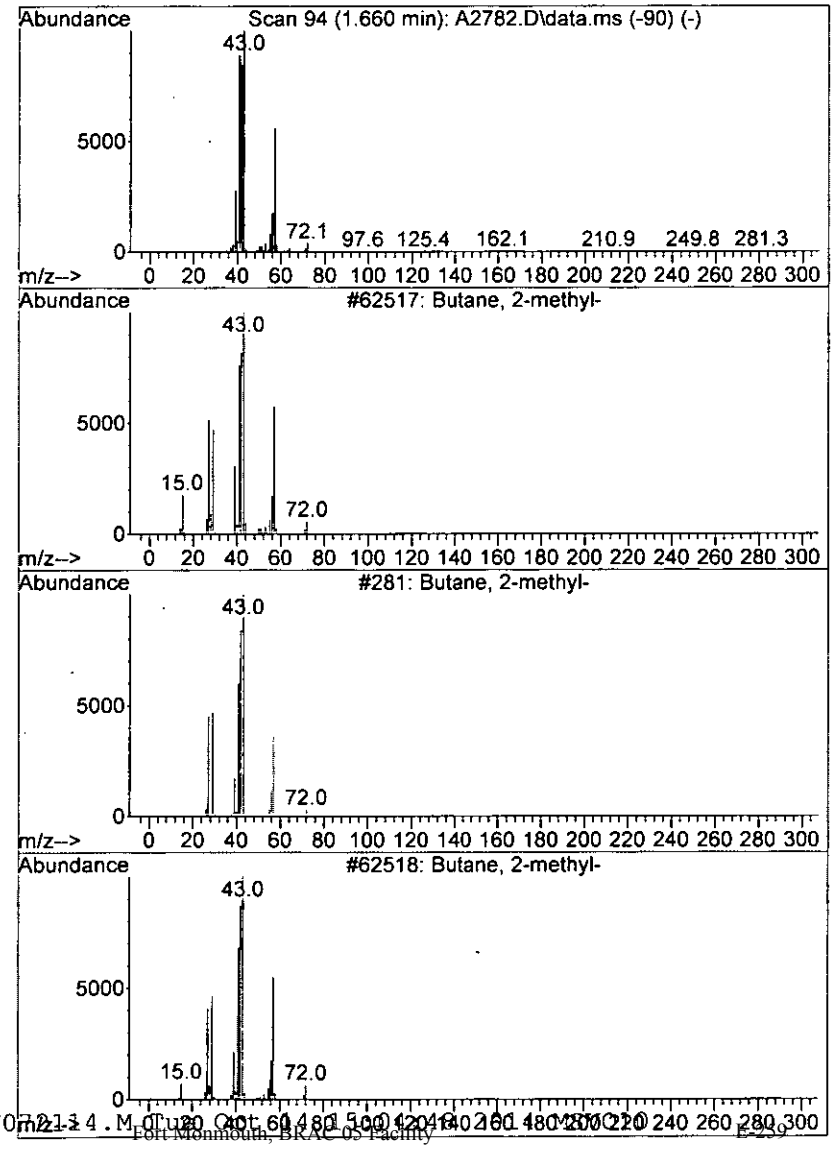
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TIC Integration Parameters: LSCINT.P

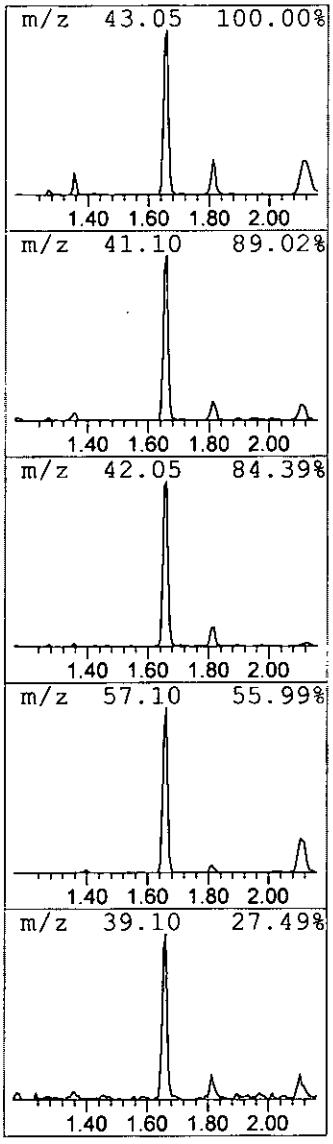
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.660	8.03 ug/L	443663	Pentafluorobenzene	4.403

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	Butane, 2-methyl-	72	C5H12	000078-78-4	80
2	Butane, 2-methyl-	72	C5H12	000078-78-4	78
3	Butane, 2-methyl-	72	C5H12	000078-78-4	64
4	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	40
5	Cyclobutane, methyl-	70	C5H10	000598-61-8	9





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

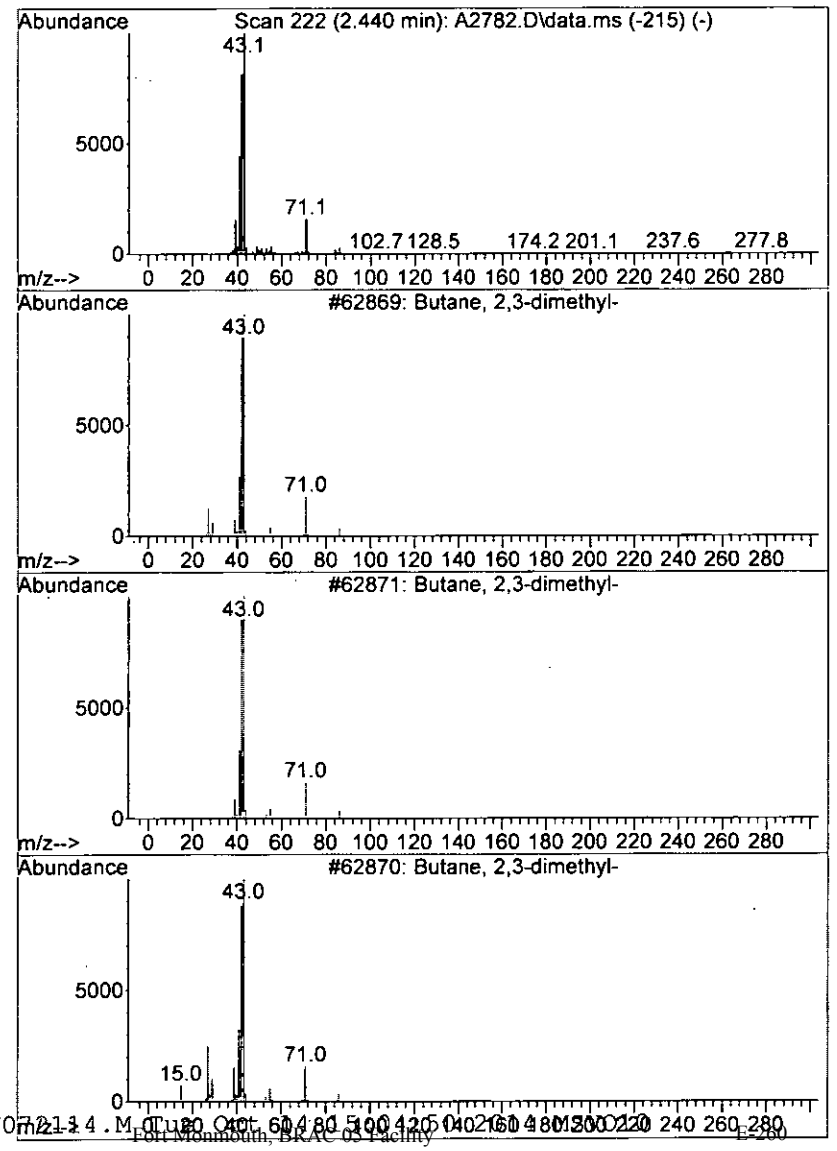
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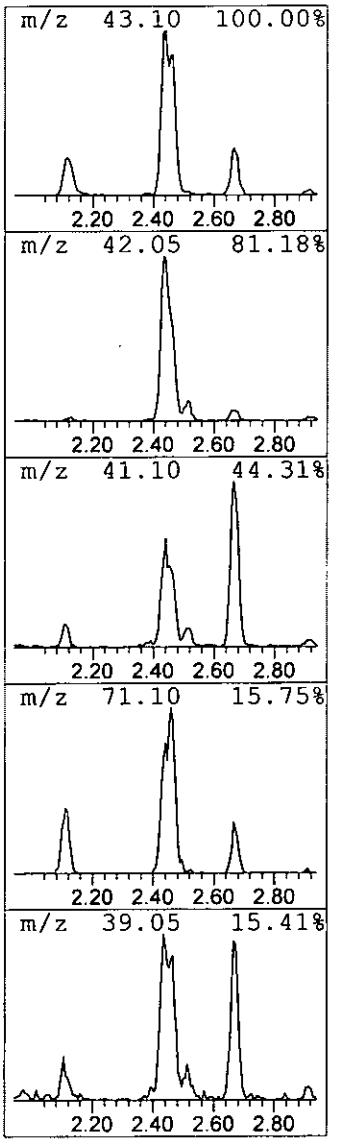
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Peak Number 2 Butane, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.440	7.81 ug/L	431643	Pentafluorobenzene	4.403

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	12
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	9





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

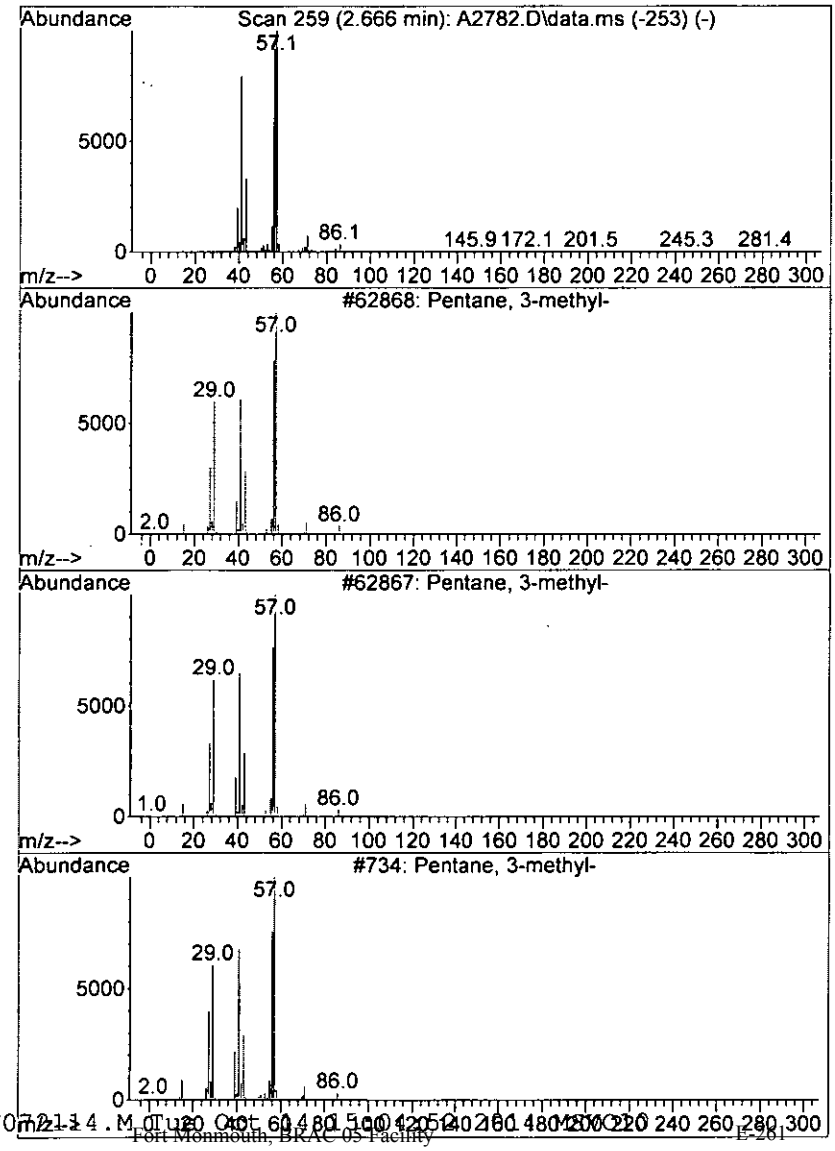
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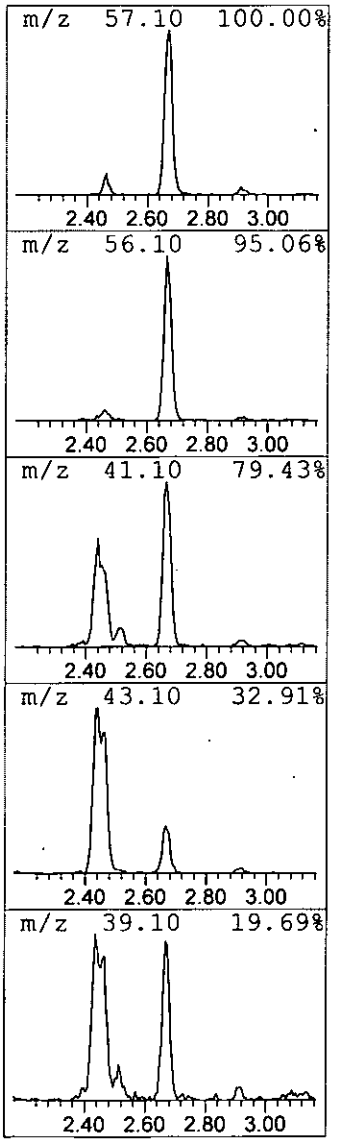
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Peak Number 3 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.666	9.18 ug/L	506802	Pentafluorobenzene	4.403

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	86
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	72
4	Oxetane, 3,3-dimethyl-	86	C5H10O	006921-35-3	45
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	39





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

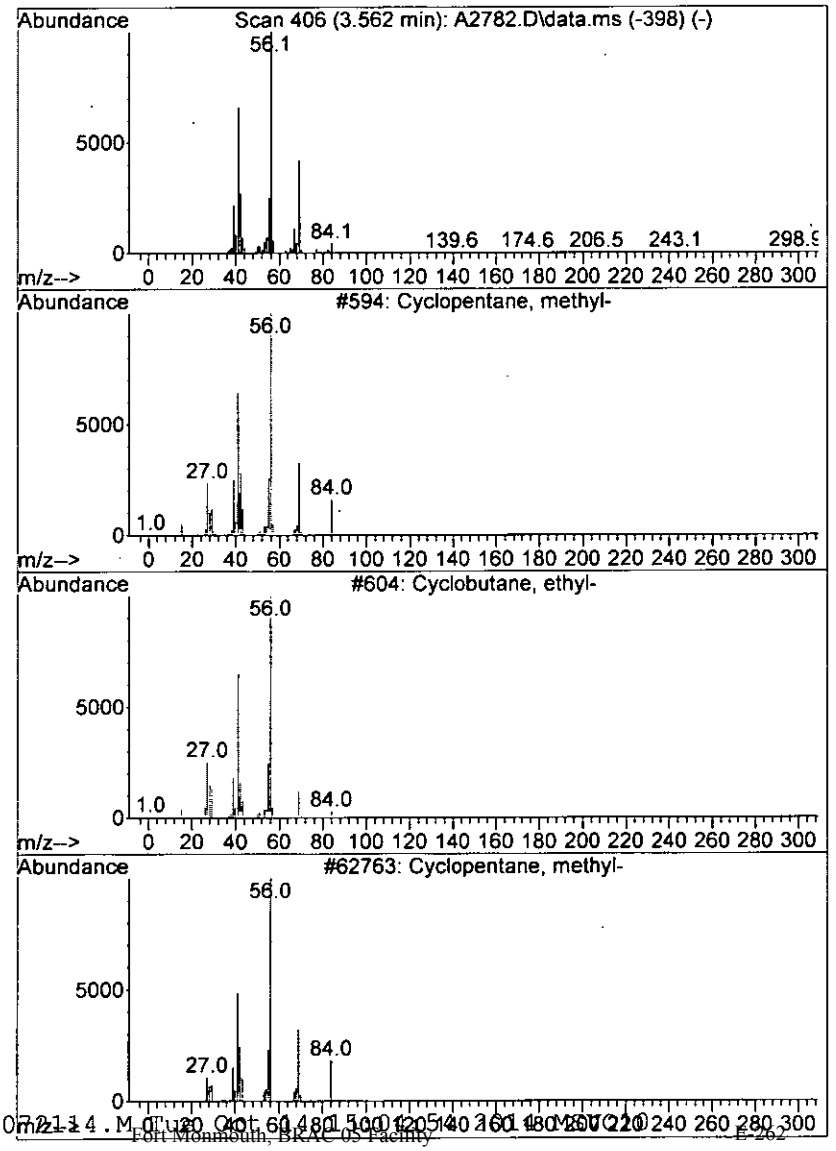
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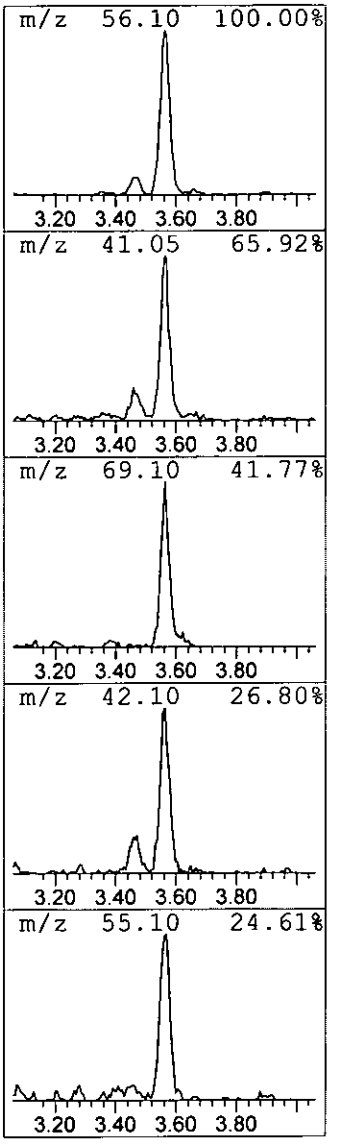
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Peak Number 4 Cyclopentane, methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.562	6.10 ug/L	336995	Pentafluorobenzene	4.403

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
2	Cyclobutane, ethyl-	84	C6H12	004806-61-5	72
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
4	Cyclopropane, (1-methylethyl)-	84	C6H12	003638-35-5	64
5	1-Pentanol, 4-methyl-	102	C6H14O	000626-89-1	59





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

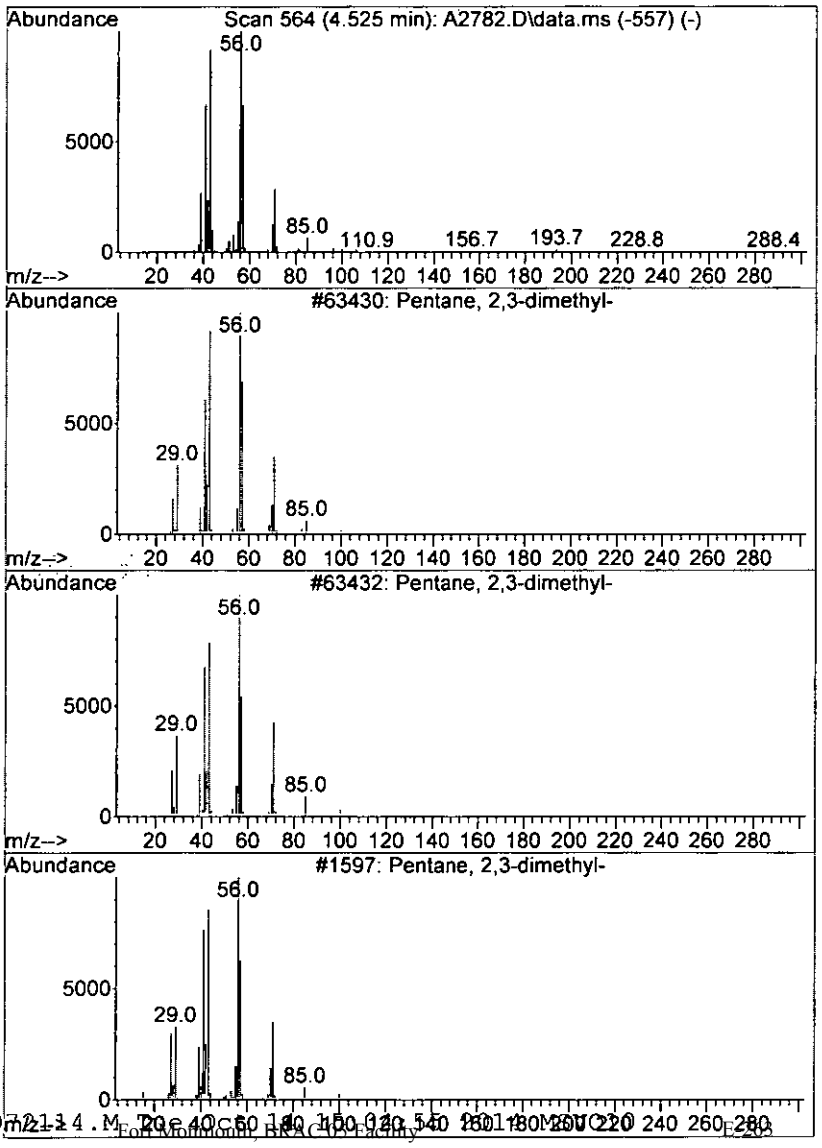
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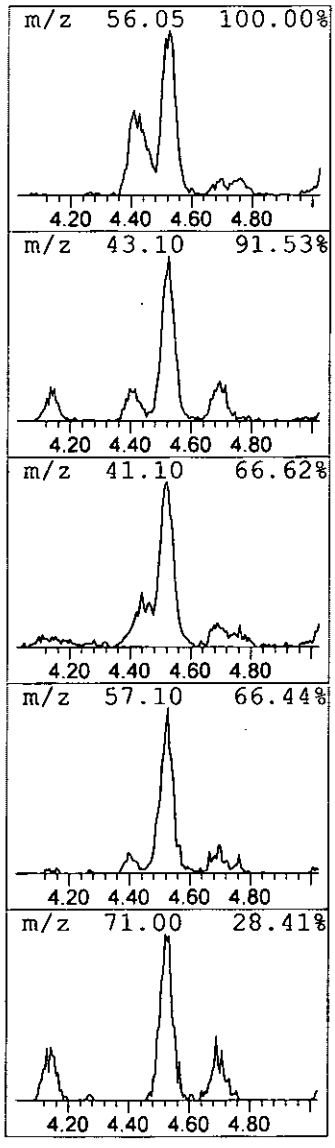
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Peak Number 5 Pentane, 2,3-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.525	5.65 ug/L	311838	Pentafluorobenzene	4.403

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	80
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	72
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	72
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	72





Library Search Compound Report

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Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

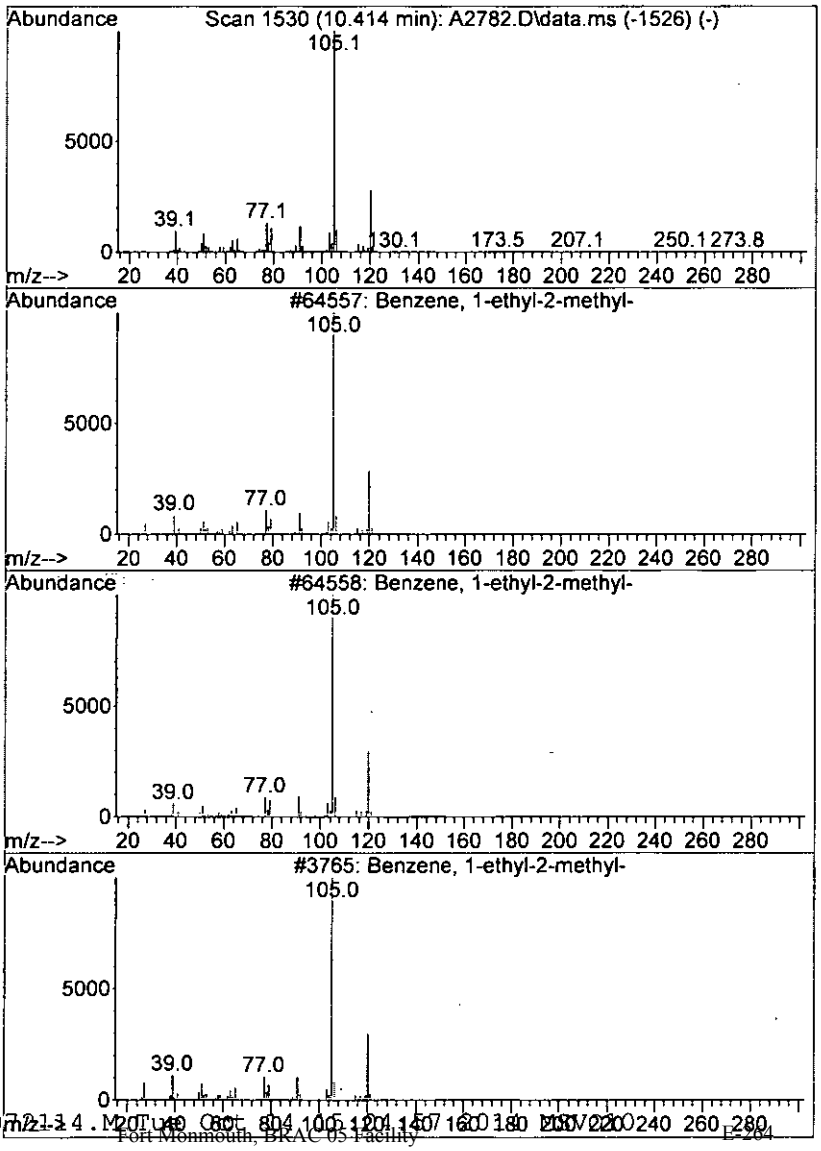
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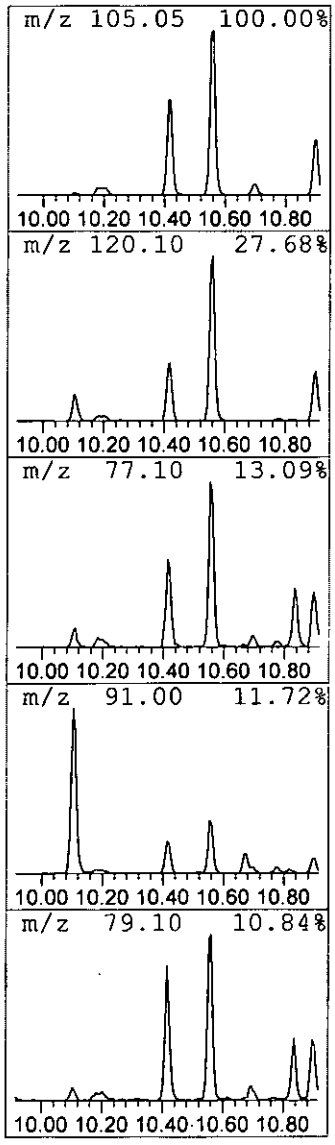
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Peak Number 6 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.414	14.15 ug/L	1156490	1,4-Dichlorobenzene-d4	10.835

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-2-methyl-	120	C9H12	000611-14-3	94
4	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	94
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Library Search Compound Report

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Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

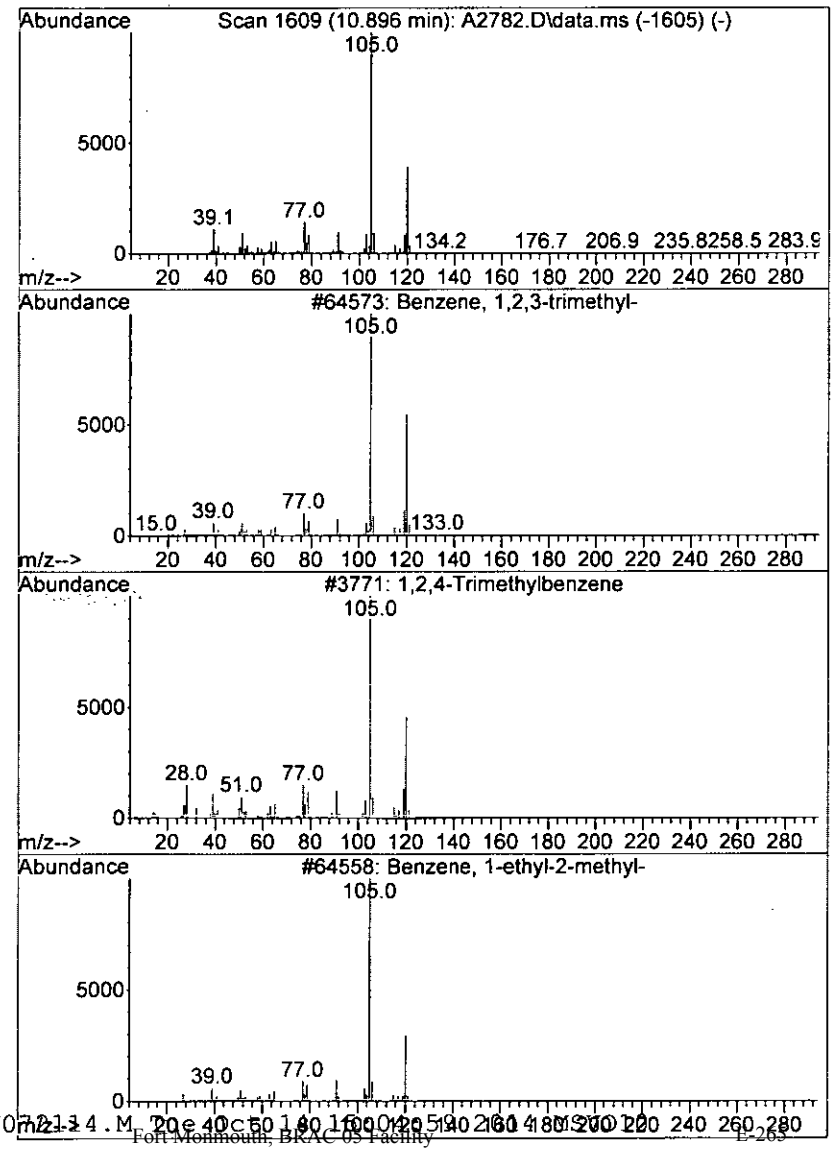
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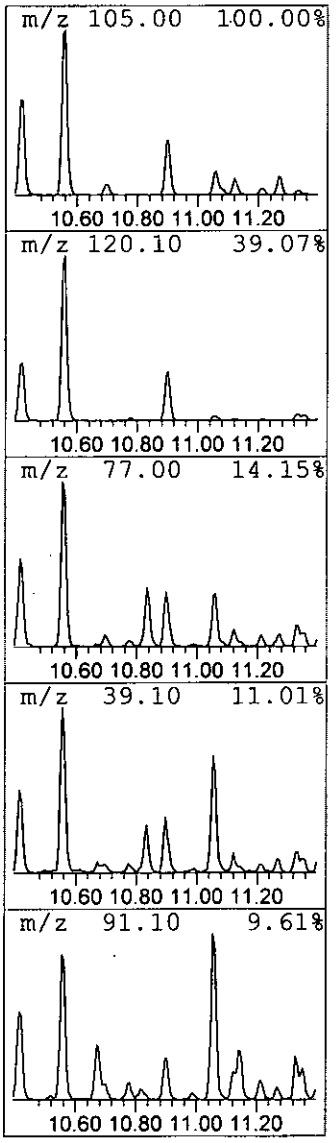
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Peak Number 7 Benzene, 1,2,3-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.896	9.25 ug/L	756312	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
2	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	90





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
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Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

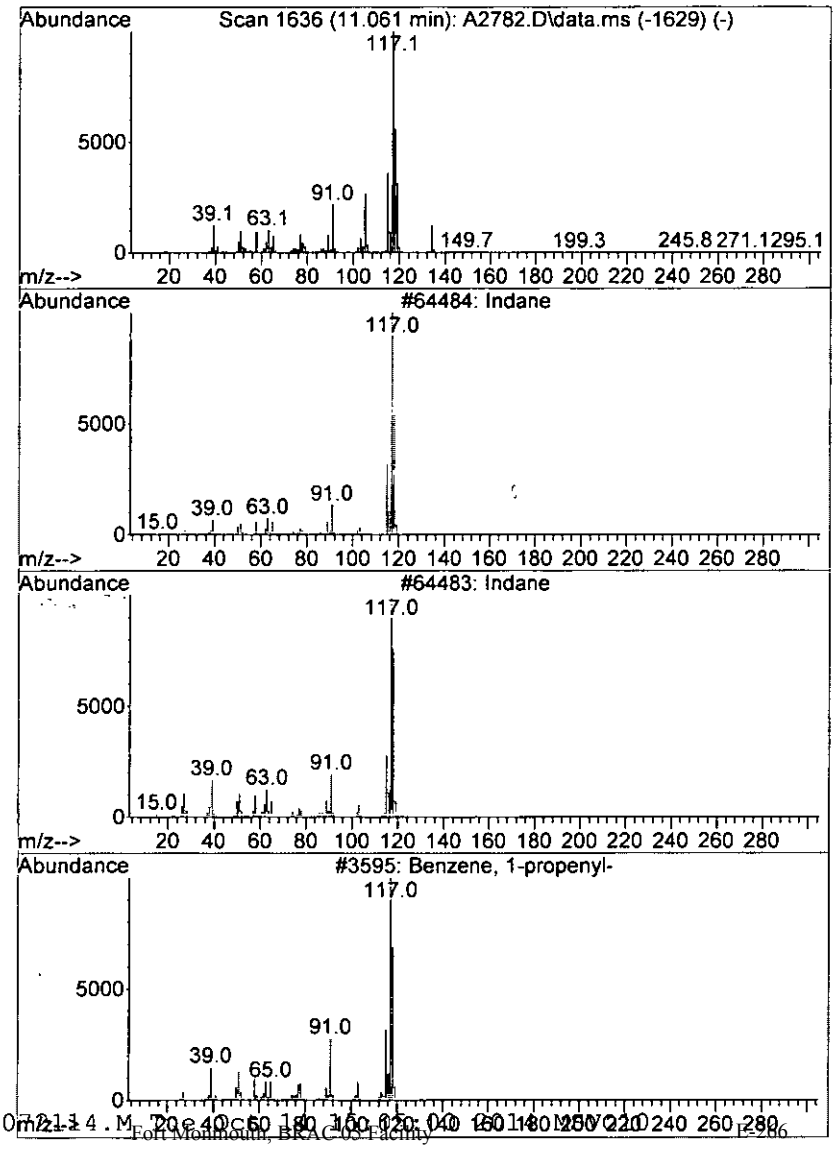
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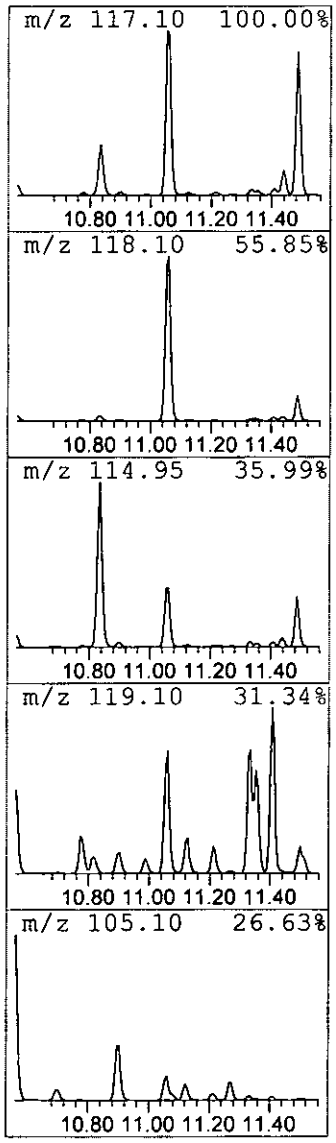
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Peak Number 8 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.060	22.46 ug/L	1836120	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	64
2	Indane	118	C9H10	000496-11-7	64
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	58
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	58
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	58





Library Search Compound Report

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Data File : A2782.D
Acq On    :  9 Oct 2014    7:55 pm
Operator  : F.NAEGLER
Sample    : R1407806-007|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

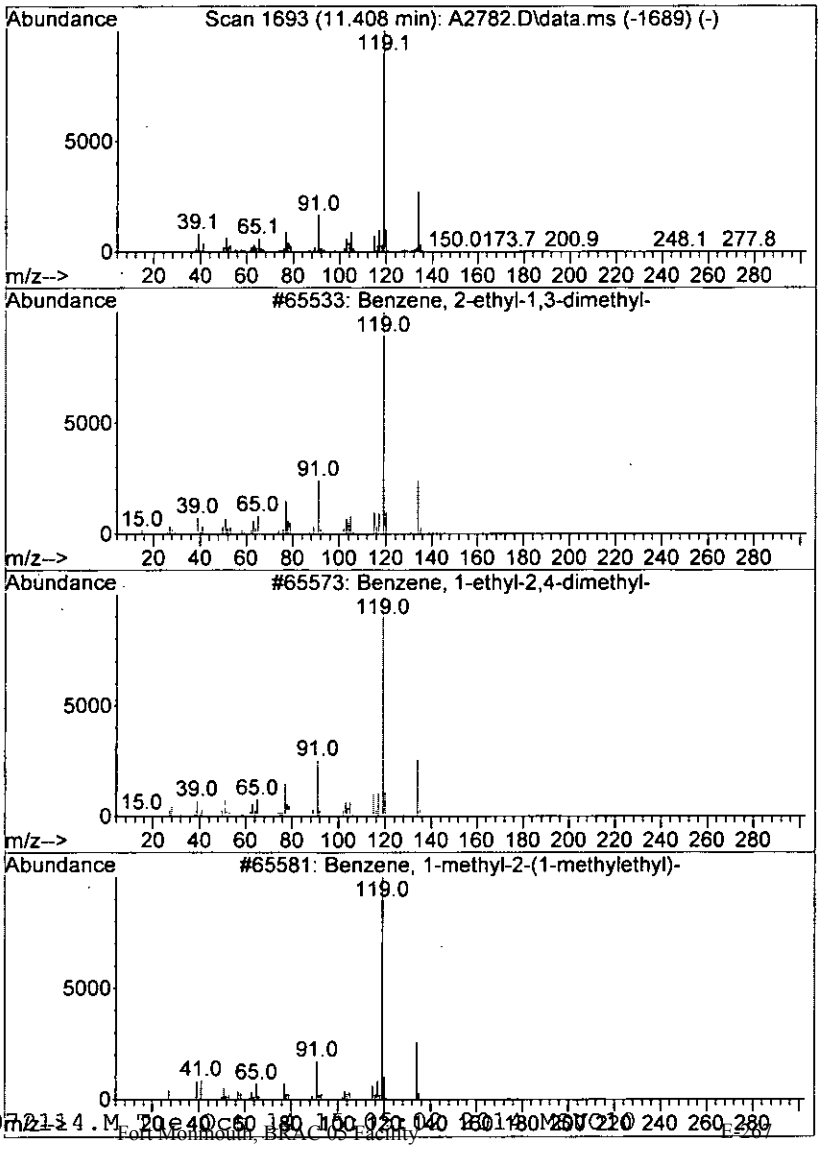
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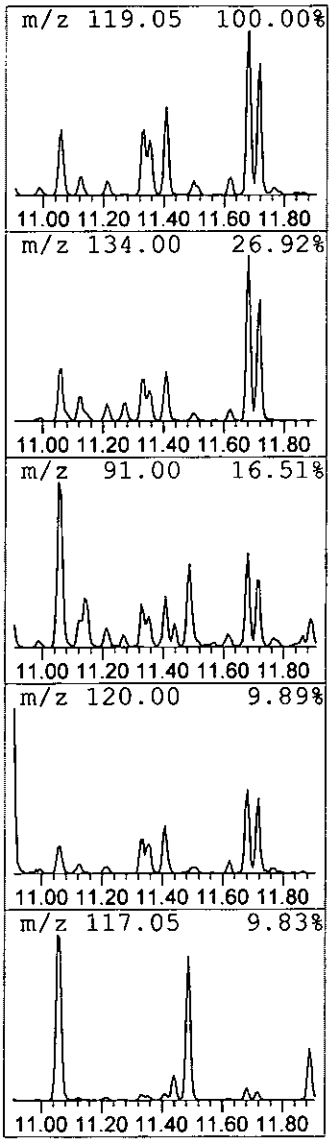
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Peak Number 9 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.408	5.07 ug/L	414048	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
3	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94





Library Search Compound Report

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Data File : A2782.D
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Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

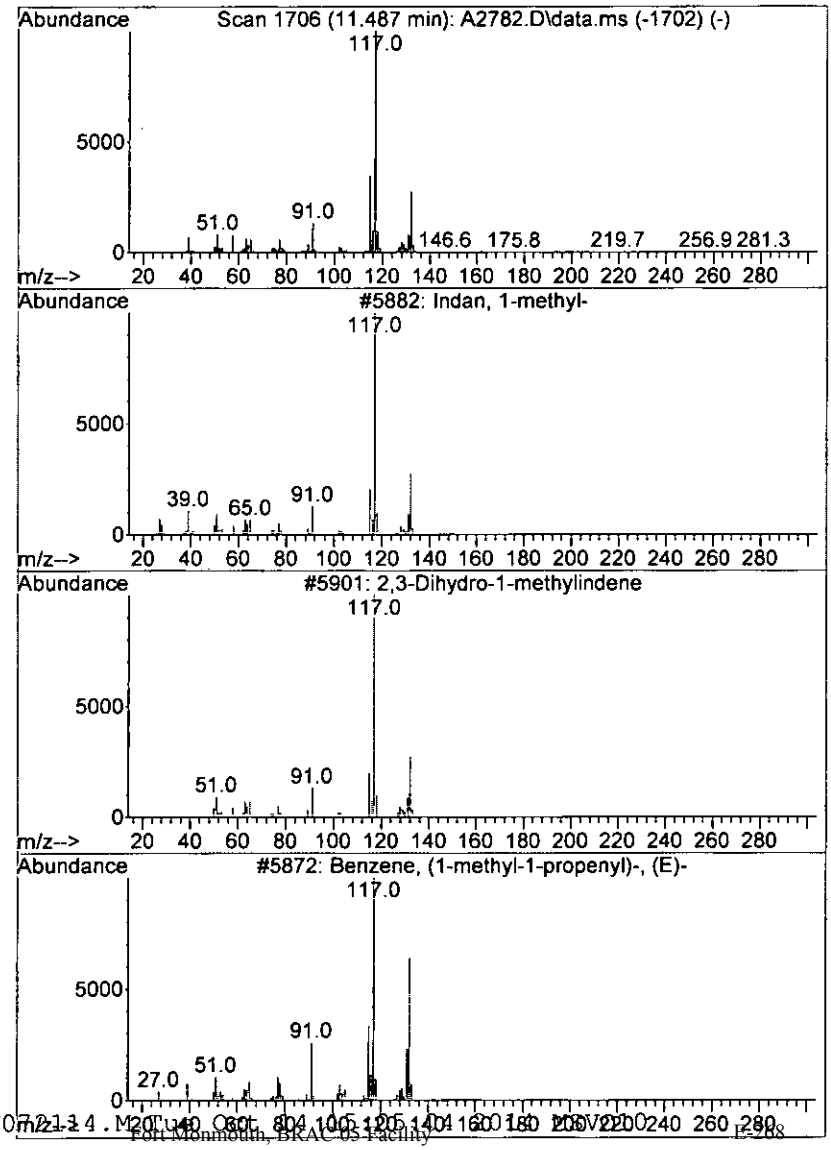
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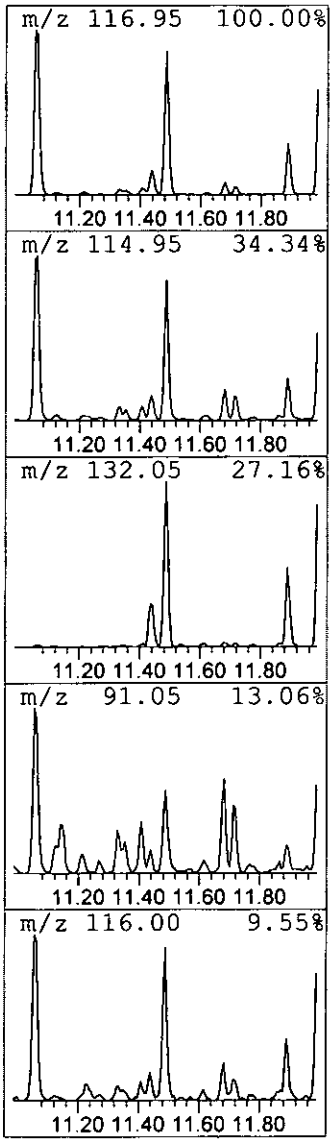
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Peak Number 10 Indan, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.487	11.52 ug/L	941621	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	94
2	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	90
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	83
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	80
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	78





Library Search Compound Report

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Data File : A2782.D
Acq On : 9 Oct 2014 7:55 pm
Operator : F.NAEGLER
Sample : R1407806-007|1.0
Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

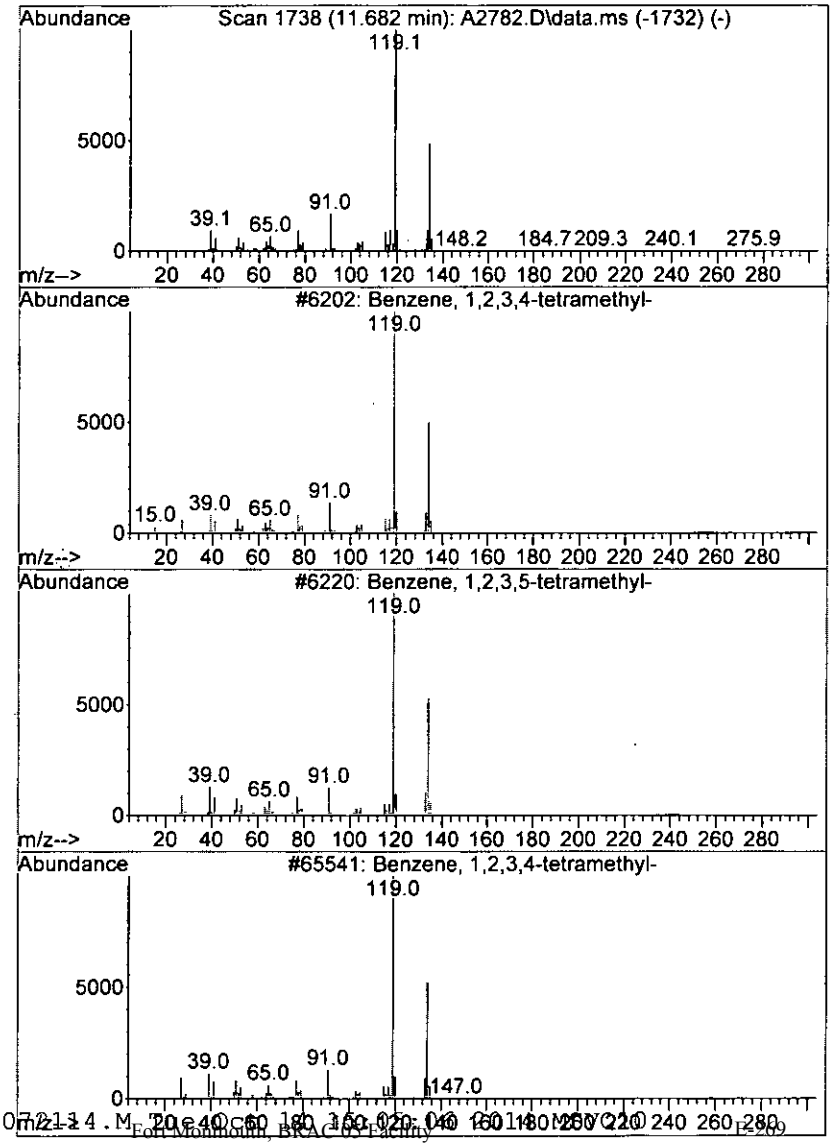
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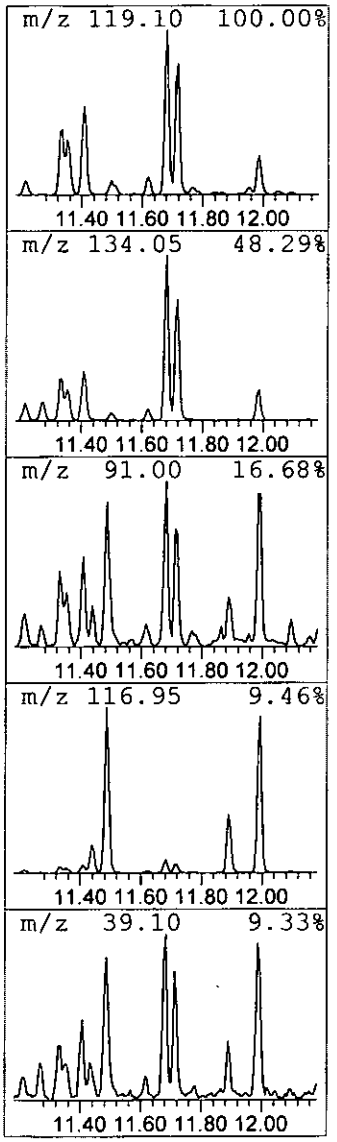
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Peak Number 11 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.682	10.13 ug/L	828009	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94





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ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
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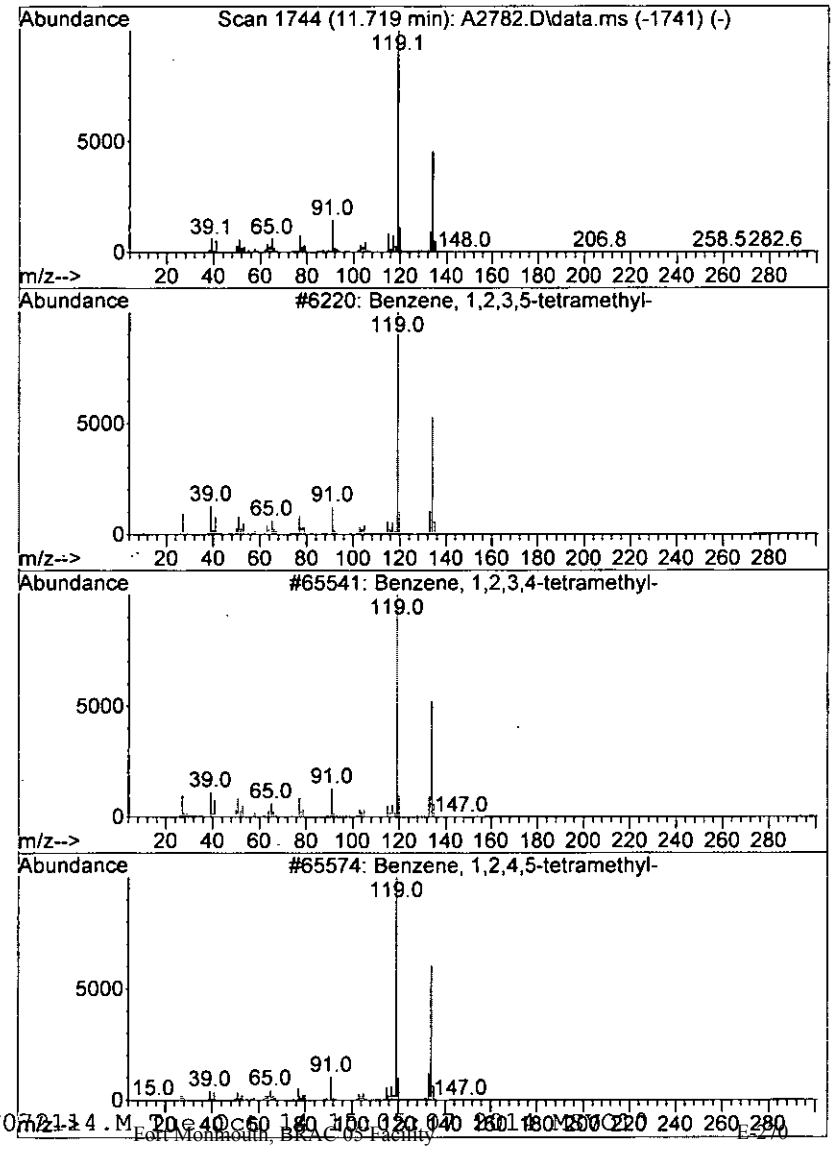
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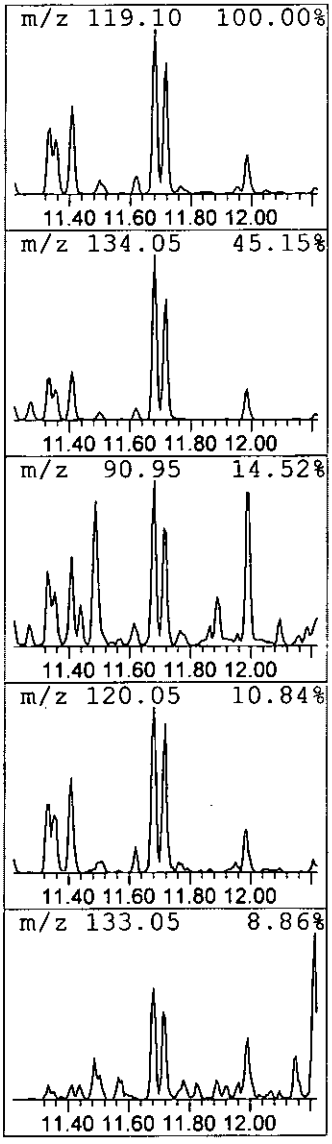
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Peak Number 12 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.719	7.87 ug/L	642920	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94





Library Search Compound Report

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Data File : A2782.D
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Operator : F.NAEGLER
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Misc : PARSONS 11603 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

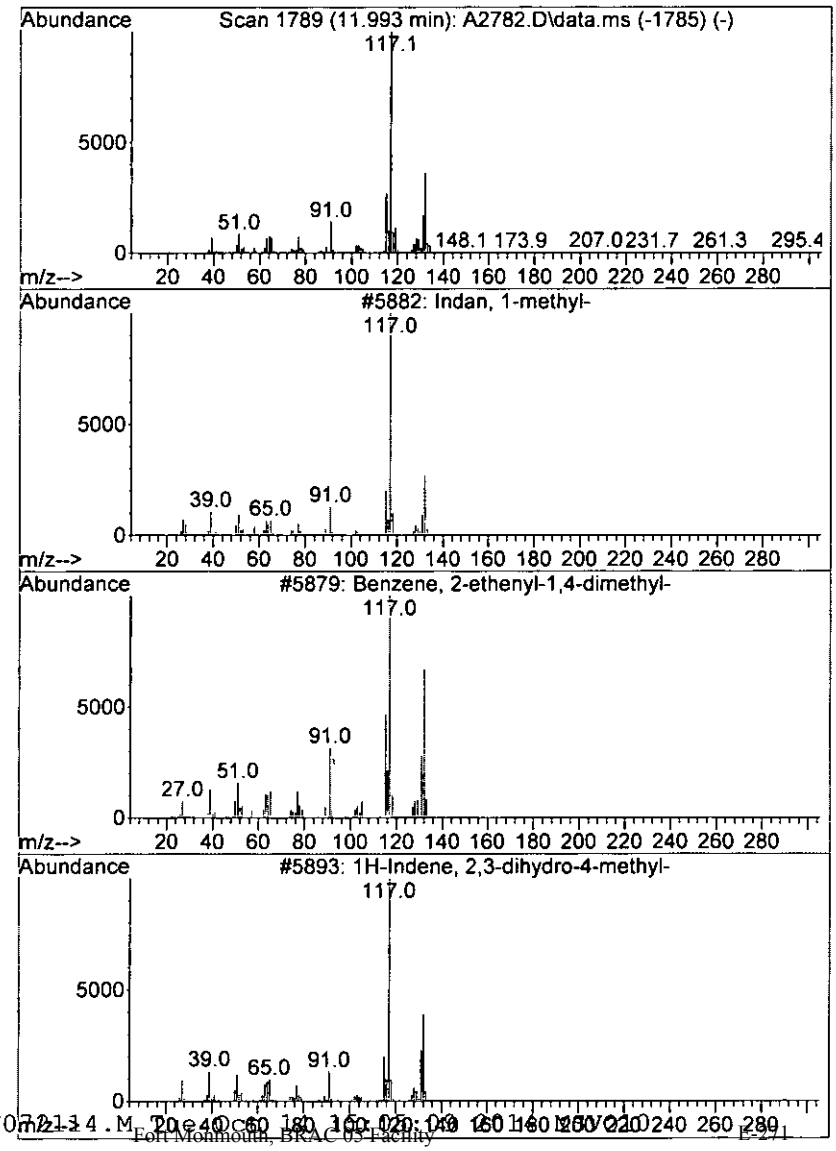
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TIC Integration Parameters: LSCINT.P

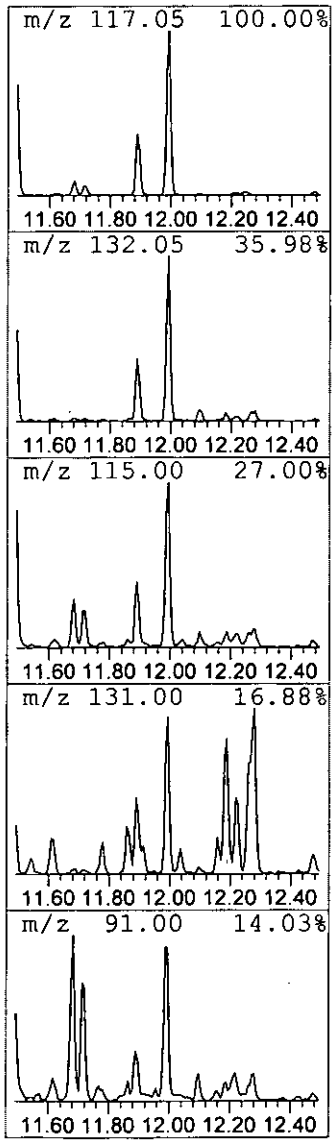
****

Peak Number 13 Indan, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.993	12.28 ug/L	1003900	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	94
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	91
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	87
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	87





ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1038
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:26
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1407806-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2779.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	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1038
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:26
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1407806-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2779.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	0.32	
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)	**6.3**		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	**0.59**	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	**0.29**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**3.5**	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	**1.1**	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	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1038
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:26
Sample Name:	FTMM-53-GW-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1407806-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2779.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	10/9/14 18:26	
Dibromofluoromethane	104	85-115	10/9/14 18:26	
Toluene-d8	101	85-120	10/9/14 18:26	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1826

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

Sample Name: FTMM-53-GW-699RW11-8.3
Lab Code: R1407806-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	1.66	**7.1**	JN
000079-29-8	Butane, 2,3-dimethyl-	2.44	**13.8**	JN
	unknown	2.67	**7.3**	J
000096-37-7	Cyclopentane, methyl-	3.56	**6.9**	JN
	unknown	11.06	**7.5**	J
027133-93-3	2,3-Dihydro-1-methylindene	11.49	**15.5**	JN
000767-58-8	Indan, 1-methyl-	11.89	**7.7**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	11.99	**17.4**	JN

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-008|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2779.D Vial: 18
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:54:23 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	946655	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1323654	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1183850	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	621278	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	440921	52.24	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.48%				
48) surr1,1,2-dichloroetha...	4.854	65	514072	57.71	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 115.42%				
65) SURR3,Toluene-d8	7.427	98	1499087	50.43	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.86%				
70) SURR2,BFB	9.878	95	594511	50.82	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.64%				
Target Compounds							Qvalue
49) Benzene	4.958	78	76797	2.37	ug/L		84
83) (m+p)Xylene	9.104	106	4430m	0.32	ug/L		
88) Isopropylbenzene	9.756	105	215685	6.25	ug/L		95
95) n-Propylbenzene	10.103	91	134091	3.46	ug/L		93
103) sec-Butylbenzene	10.701	105	36289	1.10	ug/L		95
109) n-Butylbenzene	11.146	91	7028	0.29	ug/L	#	70
117) Naphthalen	12.396	128	9637	0.59	ug/L		93

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

FW
10/14/14

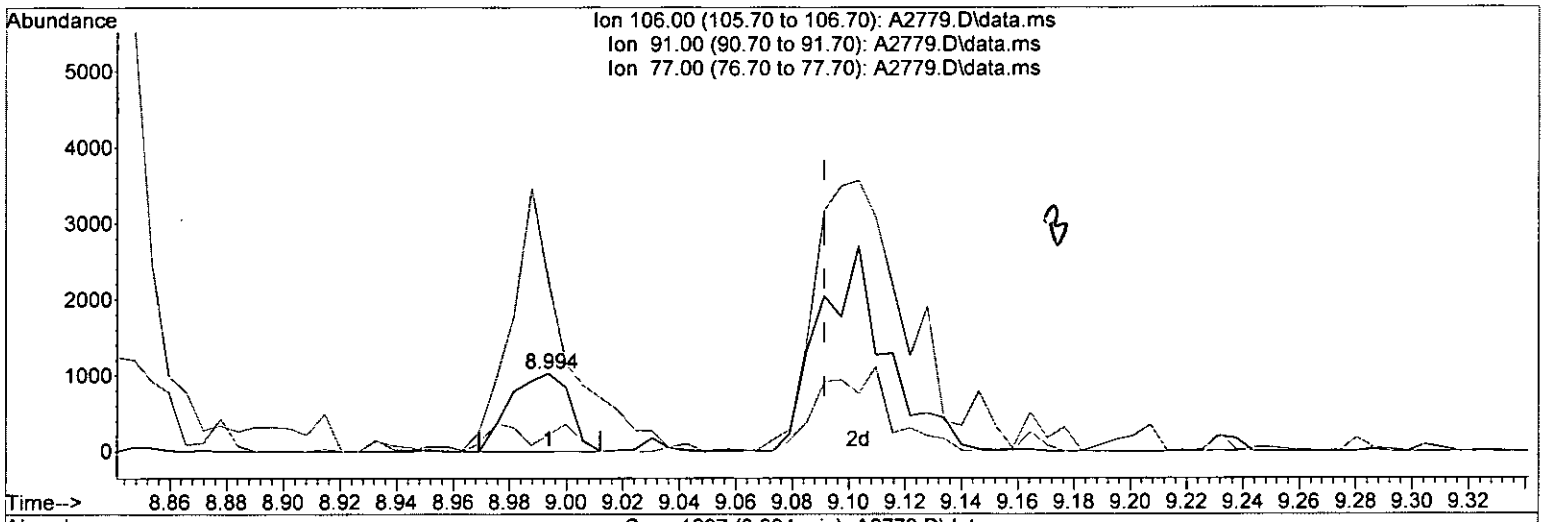
W072114.M Tue Oct 14 14:54:48 2014 MSVO10 Page: 1

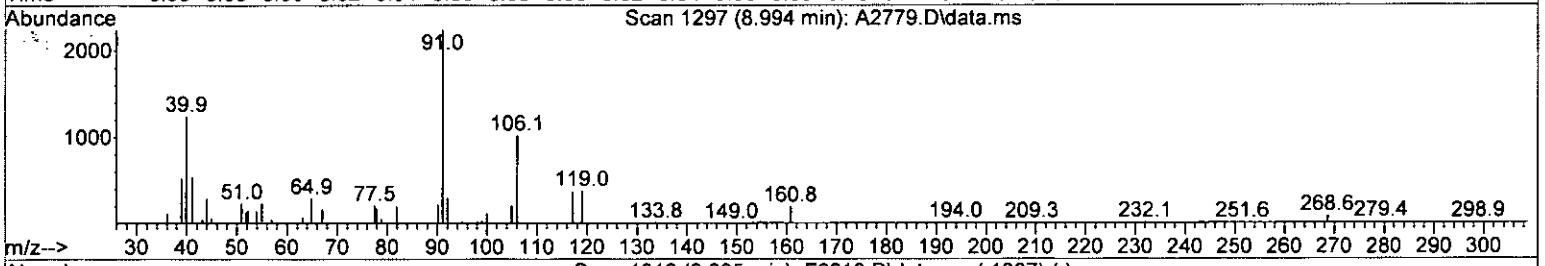
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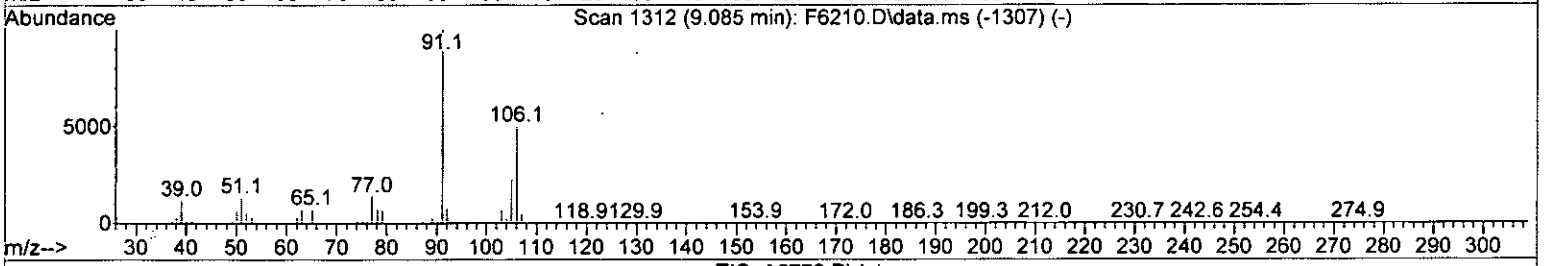
Quantitation Report (Qedit)

Sample : R1407806-008|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2779.D Vial: 18
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 18:39:25 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2779.D\data.ms

(83) (m+p)Xylene (P)

8.994min (-0.098) 0.11 ug/L

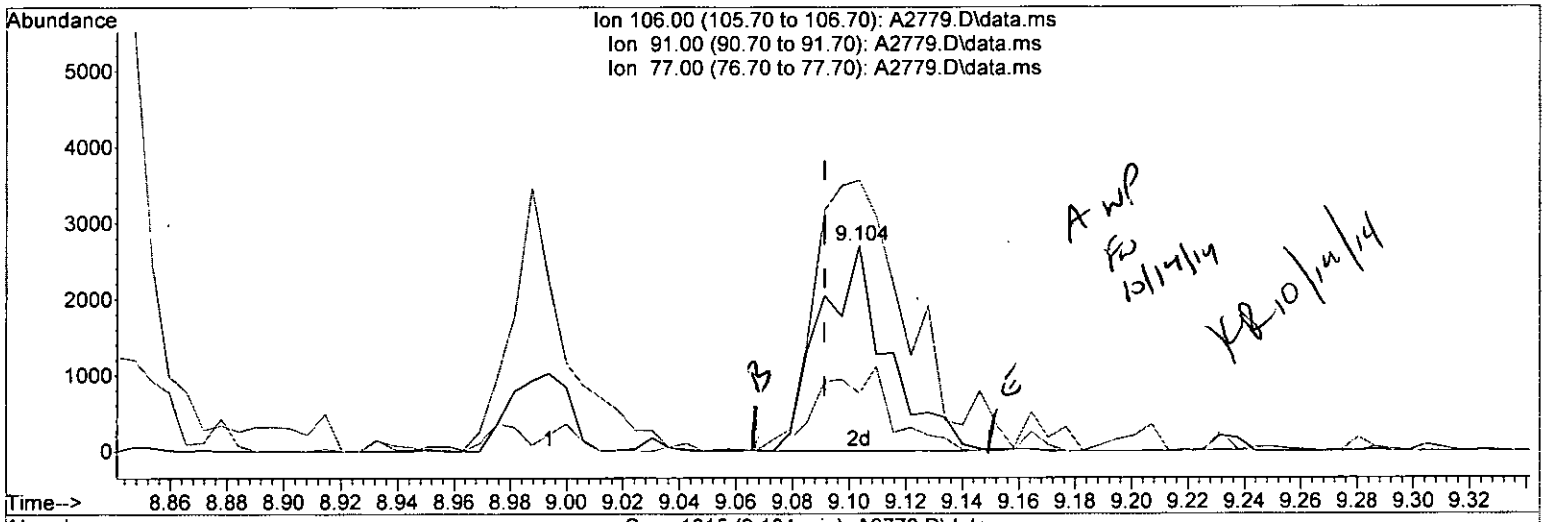
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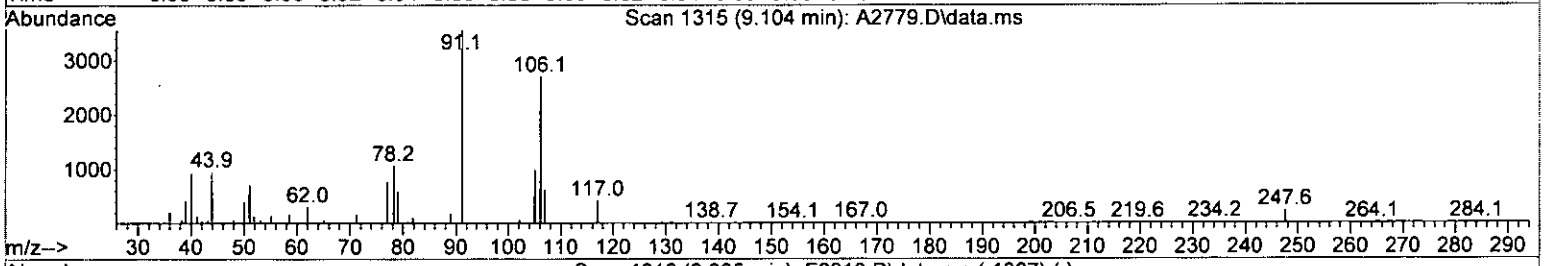
Ion	Exp%	Act%
106.00	100	100
91.00	203.80	218.59
77.00	28.70	20.65
0.00	0.00	0.00

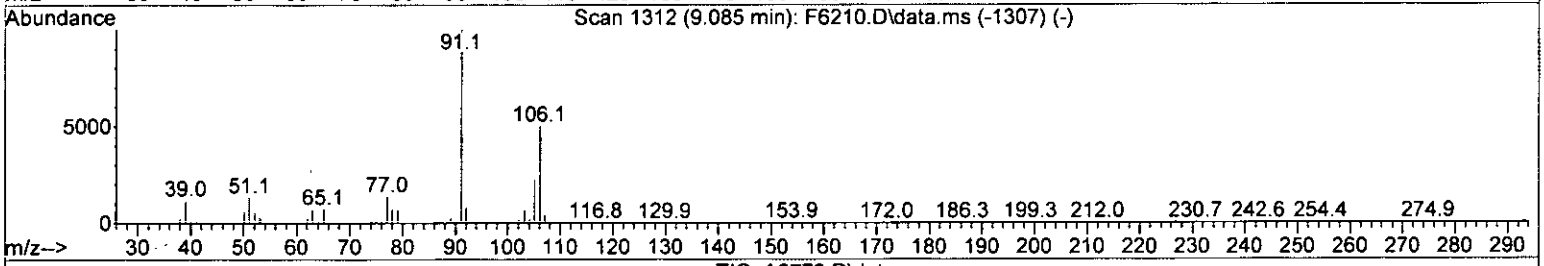
Quantitation Report (Qedit)

Sample : R1407806-008|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2779.D Vial: 18
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 18:39:25 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2779.D\data.ms

(83) (m+p)Xylene (P)

9.104min (+0.012) 0.32 ug/L m

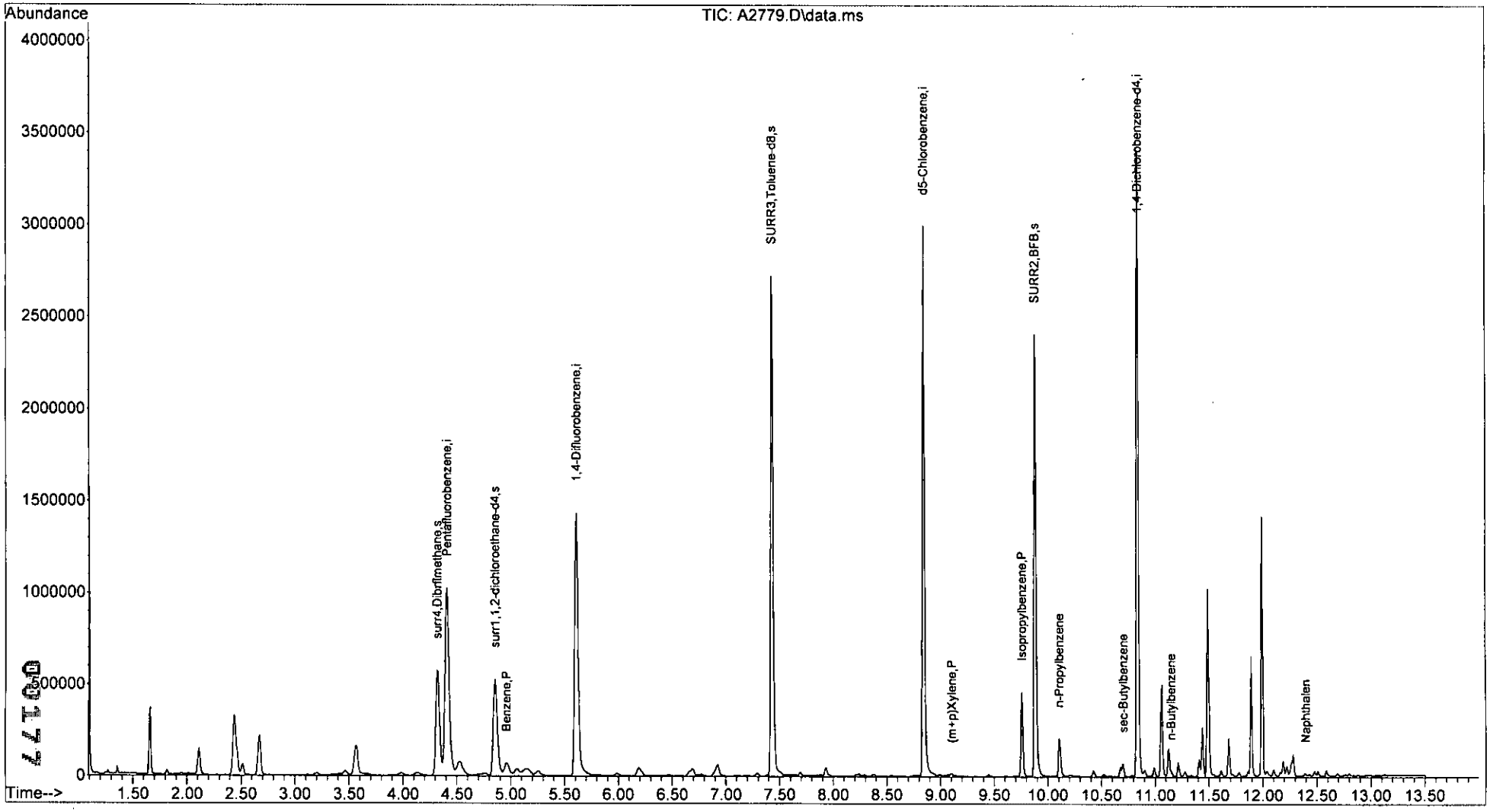
response 4430

Ion	Exp%	Act%
106.00	100	100
91.00	203.80	131.88#
77.00	28.70	28.02
0.00	0.00	0.00

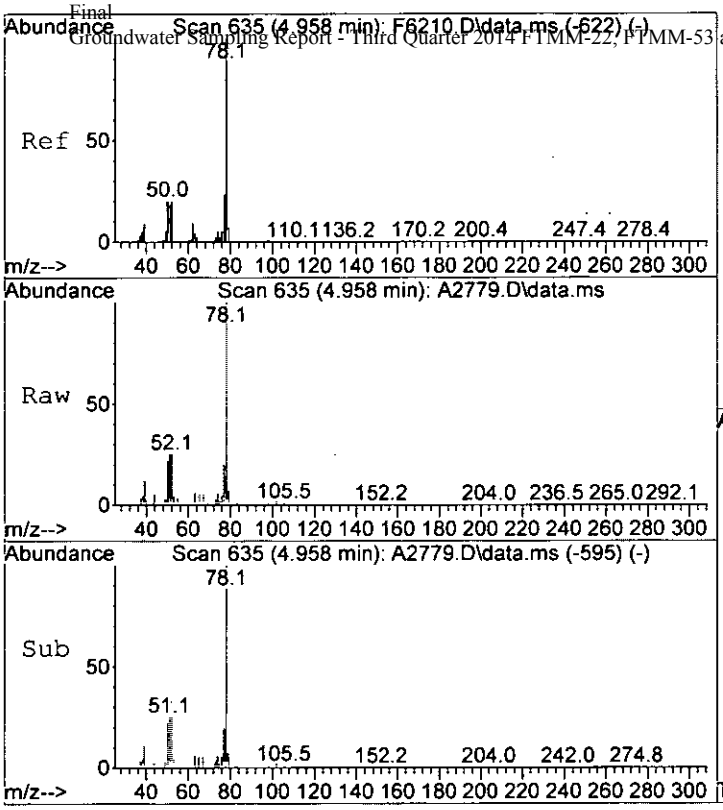
Quantitation Report (QT Reviewed)

Sample : R1407806-008|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2779.D Vial: 18
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:54:23 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



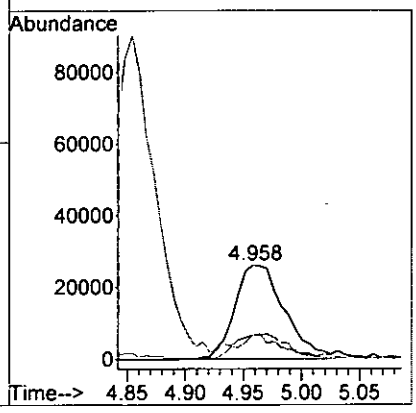
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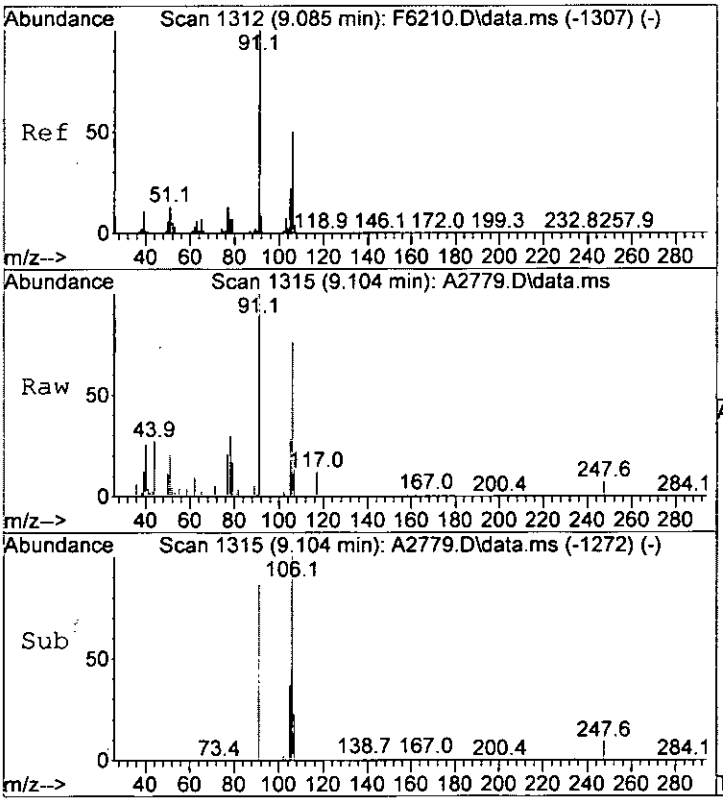


#49
Benzene
Concen: 2.37 ug/L
RT: 4.958 min Scan# 635
Delta R.T. -0.000 min
Lab File: A2779.D
Acq: 9 Oct 2014 6:26 pm

Tgt Ion: 78 Resp: 76797

Ion	Ratio	Lower	Upper
78	100		
51	25.5	0.0	39.4
52	25.4	0.0	36.9

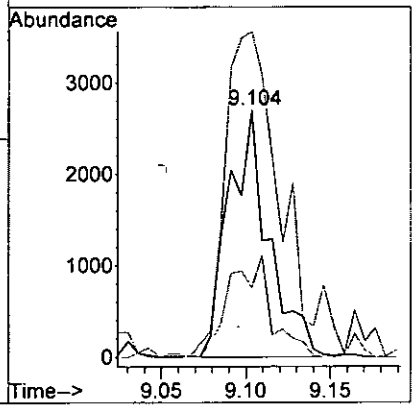


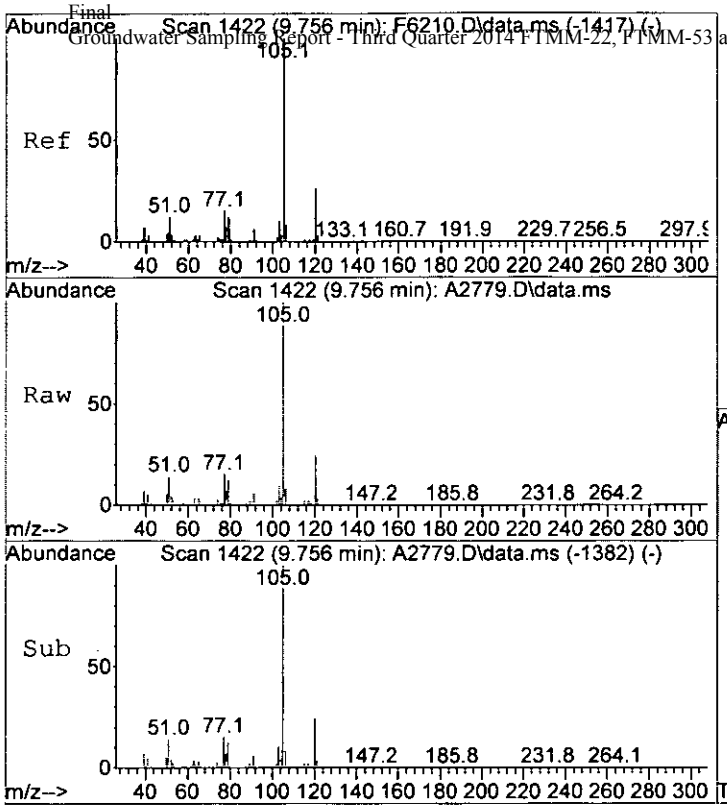


#83
(m+p)Xylene
Concen: 0.32 ug/L m
RT: 9.104 min Scan# 1315
Delta R.T. 0.012 min
Lab File: A2779.D
Acq: 9 Oct 2014 6:26 pm

Tgt Ion:106 Resp: 4430

Ion	Ratio	Lower	Upper
106	100		
91	131.9	183.8	223.8#
77	28.0	8.7	48.7

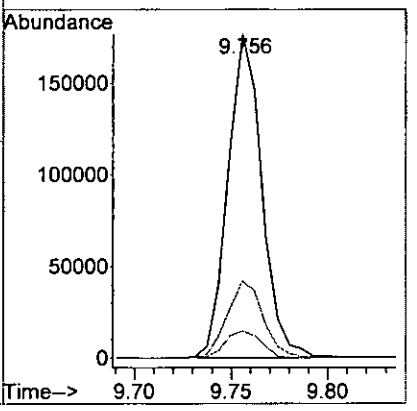


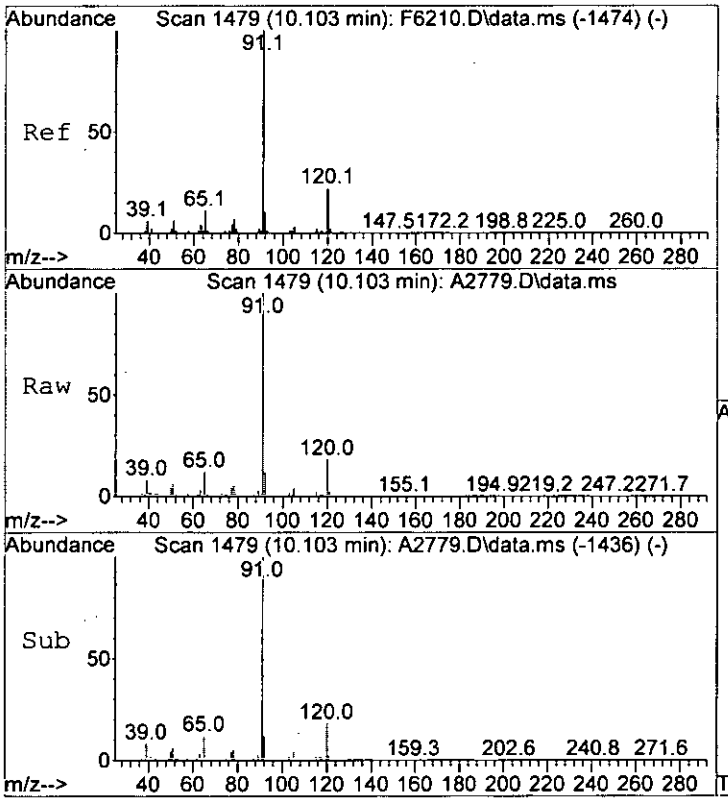


#88
Isopropylbenzene
Concen: 6.25 ug/L
RT: 9.756 min Scan# 1422
Delta R.T. -0.000 min
Lab File: A2779.D
Acq: 9 Oct 2014 6:26 pm

Tgt Ion:105 Resp: 215685

Ion	Ratio	Lower	Upper
105	100		
120	23.8	6.8	46.8
106	8.2	0.0	28.8

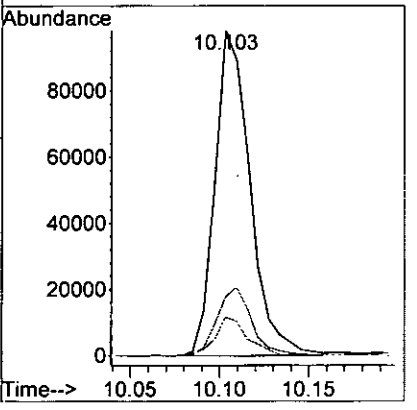


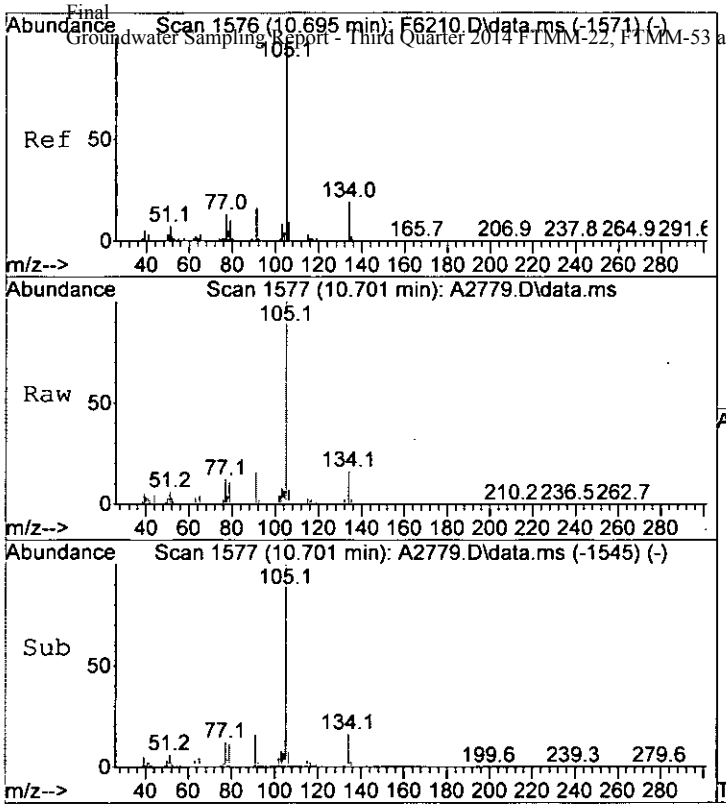


#95
n-Propylbenzene
Concen: 3.46 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: A2779.D
Acq: 9 Oct 2014 6:26 pm

Tgt Ion: 91 Resp: 134091

Ion	Ratio	Lower	Upper
91	100		
120	17.9	2.9	42.9
65	11.8	0.0	31.4

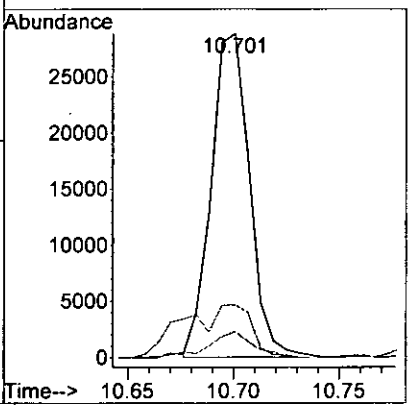


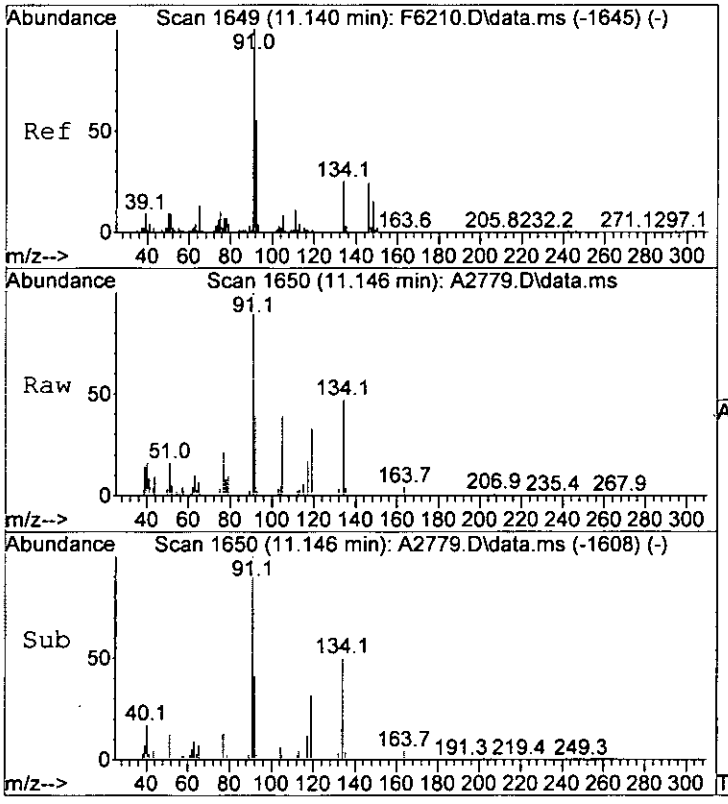


#103
sec-Butylbenzene
Concen: 1.10 ug/L
RT: 10.701 min Scan# 1577
Delta R.T. -0.000 min
Lab File: A2779.D
Acq: 9 Oct 2014 6:26 pm

Tgt Ion:105 Resp: 36289

Ion	Ratio	Lower	Upper
105	100		
134	16.3	0.0	38.9
103	7.9	0.0	28.6

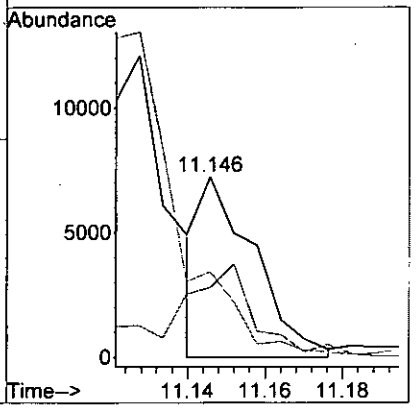


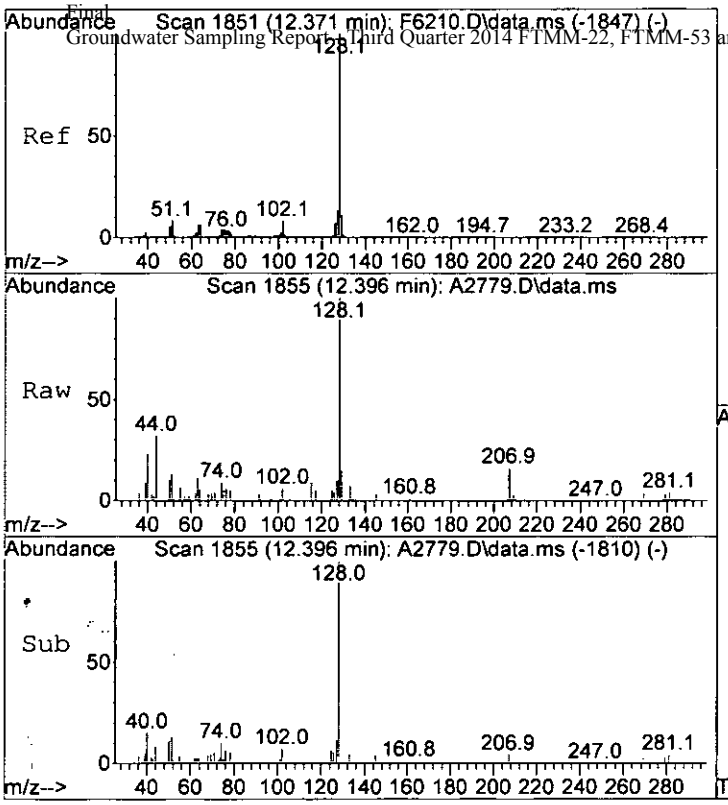


#109
n-Butylbenzene
Concen: 0.29 ug/L
RT: 11.146 min Scan# 1650
Delta R.T. 0.006 min
Lab File: A2779.D
Acq: 9 Oct 2014 6:26 pm

Tgt Ion: 91 Resp: 7028

Ion	Ratio	Lower	Upper
91	100		
92	38.6	35.1	75.1
134	47.2	4.2	44.2#

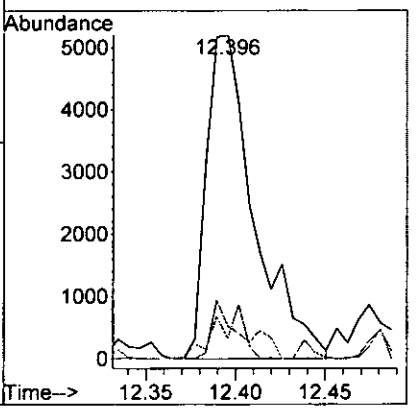




#117
Naphthalen
Concen: 0.59 ug/L
RT: 12.396 min Scan# 1855
Delta R.T. 0.018 min
Lab File: A2779.D
Acq: 9 Oct 2014 6:26 pm

Tgt Ion:128 Resp: 9637

Ion	Ratio	Lower	Upper
128	100		
127	10.1	0.0	32.9
102	6.1	0.0	28.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2779.D\data.ms

FV 10/14/14

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.660	88	94	98	rBV	365696	399433	9.36%	1.176%
2	2.111	161	168	178	rVB2	146709	243029	5.70%	0.716%
3	2.440	214	222	230	rBV	329957	773030	18.12%	2.277%
4	2.513	230	234	243	rVB	62094	104004	2.44%	0.306%
5	2.672	252	260	271	rVB2	219552	410100	9.61%	1.208%
6	3.464	385	390	398	rVB2	22201	46495	1.09%	0.137%
7	3.562	398	406	416	rBV2	163328	387925	9.10%	1.142%
8	4.318	520	530	537	rBV	574601	1409333	33.04%	4.150%
9	4.409	537	545	557	rVV	1021683	2802906	65.72%	8.255%
10	4.519	557	563	579	rVB5	74301	275634	6.46%	0.812%
11	4.854	610	618	629	rBV2	523679	1380894	32.38%	4.067%
12	4.958	629	635	644	rVB4	58902	156075	3.66%	0.460%
13	5.062	645	652	658	rBV7	26091	63375	1.49%	0.187%
14	5.251	677	683	692	rVB6	21832	61798	1.45%	0.182%
15	5.610	734	742	760	rBV	1432138	3295227	77.26%	9.704%
16	6.189	830	837	849	rBV5	45036	119624	2.80%	0.352%
17	6.671	908	916	917	rBV3	26369	52550	1.23%	0.155%
18	6.683	917	918	926	rVB3	35633	55982	1.31%	0.165%
19	6.921	945	957	965	rBV3	62951	160218	3.76%	0.472%
20	7.427	1035	1040	1058	rBV	2716417	4265241	100.00%	12.561%
21	7.933	1118	1123	1131	rVB3	45434	78094	1.83%	0.230%
22	8.841	1267	1272	1292	rBV	2989376	3885591	91.10%	11.443%
23	9.756	1417	1422	1434	rBV	458800	579362	13.58%	1.706%
24	9.878	1437	1442	1456	rBV	2403260	3111614	72.95%	9.164%
25	10.103	1475	1479	1488	rVB	204688	286607	6.72%	0.844%
26	10.426	1527	1532	1538	rVB	31761	45292	1.06%	0.133%
27	10.676	1568	1573	1574	rBV	50499	54726	1.28%	0.161%
28	10.701	1574	1577	1582	rVB	68639	84017	1.97%	0.247%
29	10.835	1594	1599	1607	rBV	3401975	4042165	94.77%	11.904%
30	10.902	1607	1610	1616	rVB2	31677	46682	1.09%	0.137%
31	10.993	1620	1625	1630	rVB	45444	57832	1.36%	0.170%
32	11.060	1630	1636	1642	rBV	499351	608021	14.26%	1.791%
33	11.128	1642	1647	1656	rVV	149623	211613	4.96%	0.623%
34	11.213	1657	1661	1667	rVV	75098	90823	2.13%	0.267%
35	11.408	1689	1693	1695	rBV2	91847	104399	2.45%	0.307%

W072114.M Tue Oct 14 14:55:08 2014 MSVO10 Page: 1

00182

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

36	11.438	1695	1698	1702	rVB	263234	278344	6.53%	0.820%
37	11.487	1702	1706	1714	rBV2	1017289	1250496	29.32%	3.683%
38	11.682	1731	1738	1743	rBV	208328	236351	5.54%	0.696%
39	11.890	1769	1772	1779	rVB	650730	621546	14.57%	1.830%
40	11.993	1784	1789	1794	rVV	1411548	1408963	33.03%	4.149%
41	12.097	1803	1806	1813	rVB3	32975	44674	1.05%	0.132%
42	12.188	1818	1821	1823	rVV	82571	89743	2.10%	0.264%
43	12.225	1823	1827	1829	rVV3	51869	67100	1.57%	0.198%
44	12.280	1829	1836	1844	rVB2	118989	208847	4.90%	0.615%

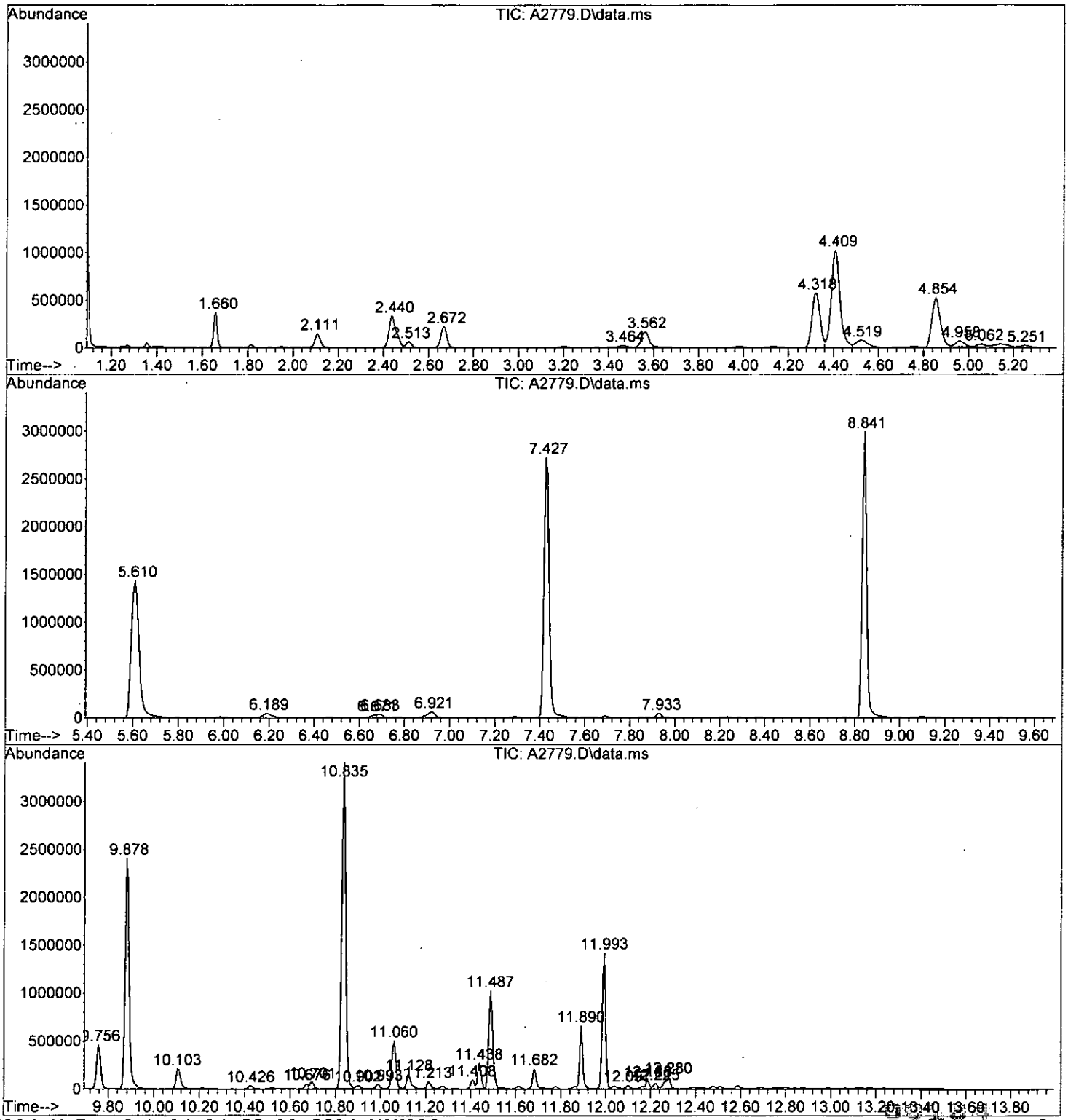
Sum of corrected areas: 33955775

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:55:11 2014 MSVO10 Page: 3

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

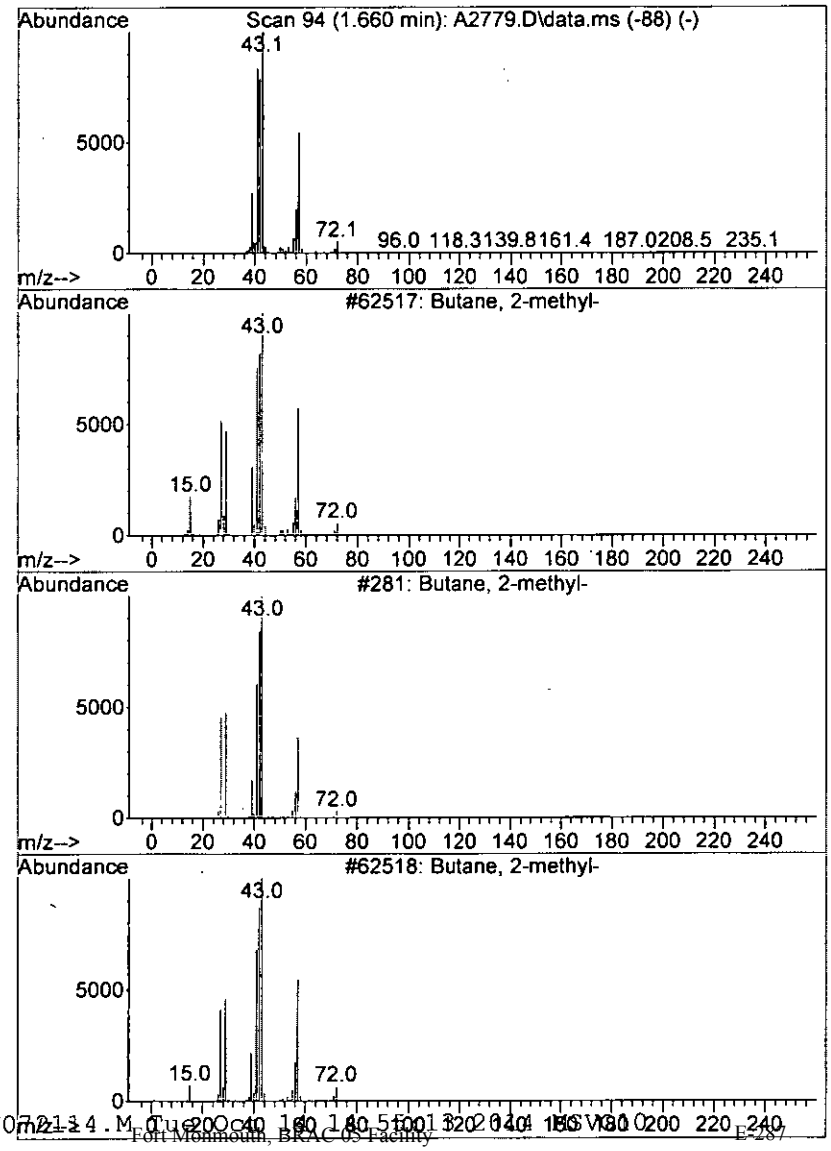
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TIC Integration Parameters: LSCINT.P

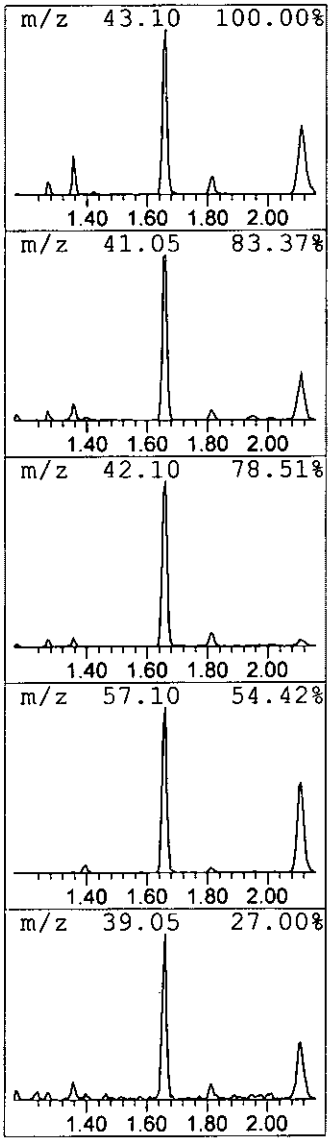
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Peak Number 1 Butane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.660	7.13 ug/L	399433	Pentafluorobenzene	4.409

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	86
3	Butane, 2-methyl-	72	C5H12	000078-78-4	86
4	3-Buten-1-ol	72	C4H8O	000627-27-0	43
5	1-Butene	56	C4H8	000106-98-9	10





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

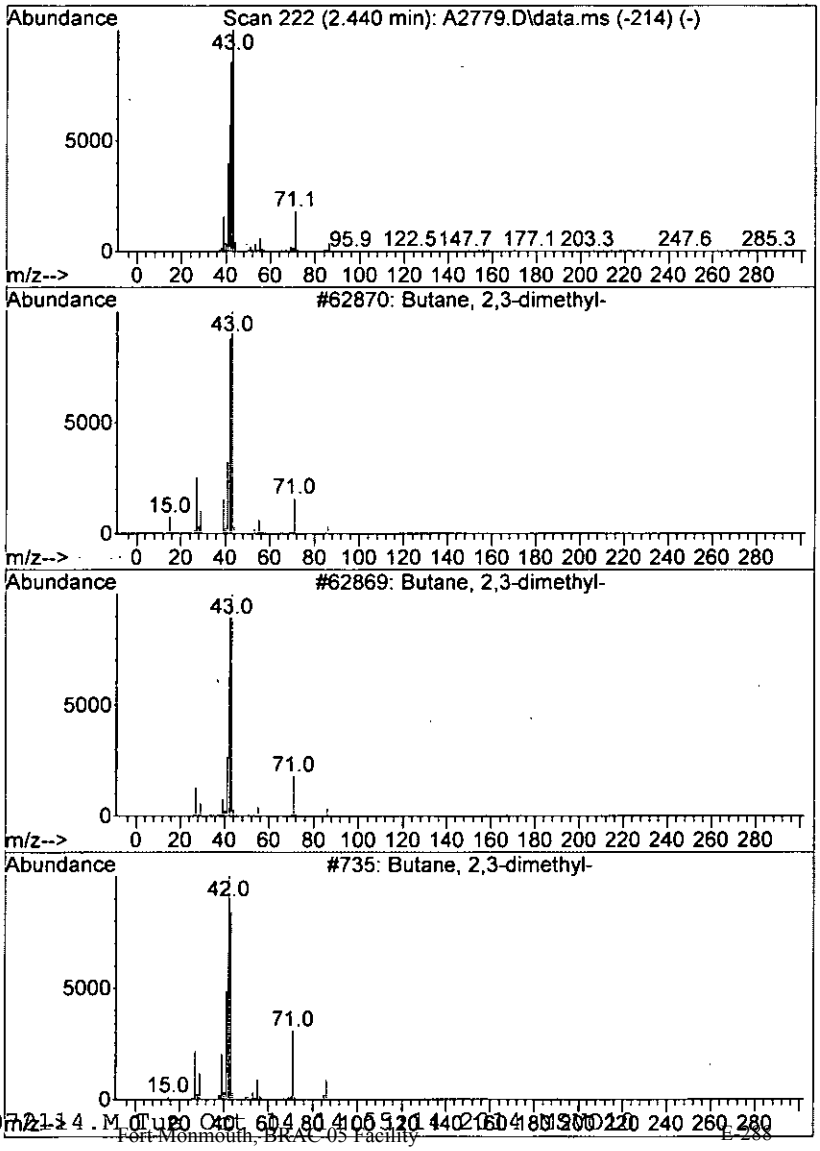
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TIC Integration Parameters: LSCINT.P

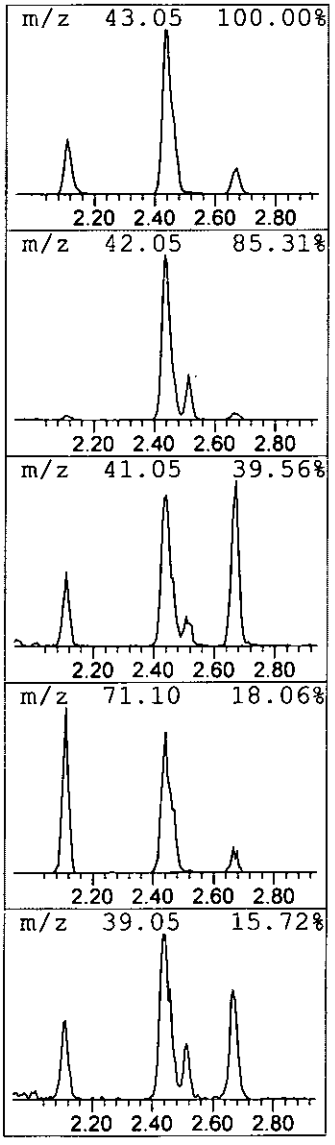
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Peak Number 2 Butane, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.440	13.79 ug/L	773030	Pentafluorobenzene	4.409

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	78
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	45
4	Furan, tetrahydro-	72	C4H8O	000109-99-9	38
5	Furan, tetrahydro-	72	C4H8O	000109-99-9	38





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

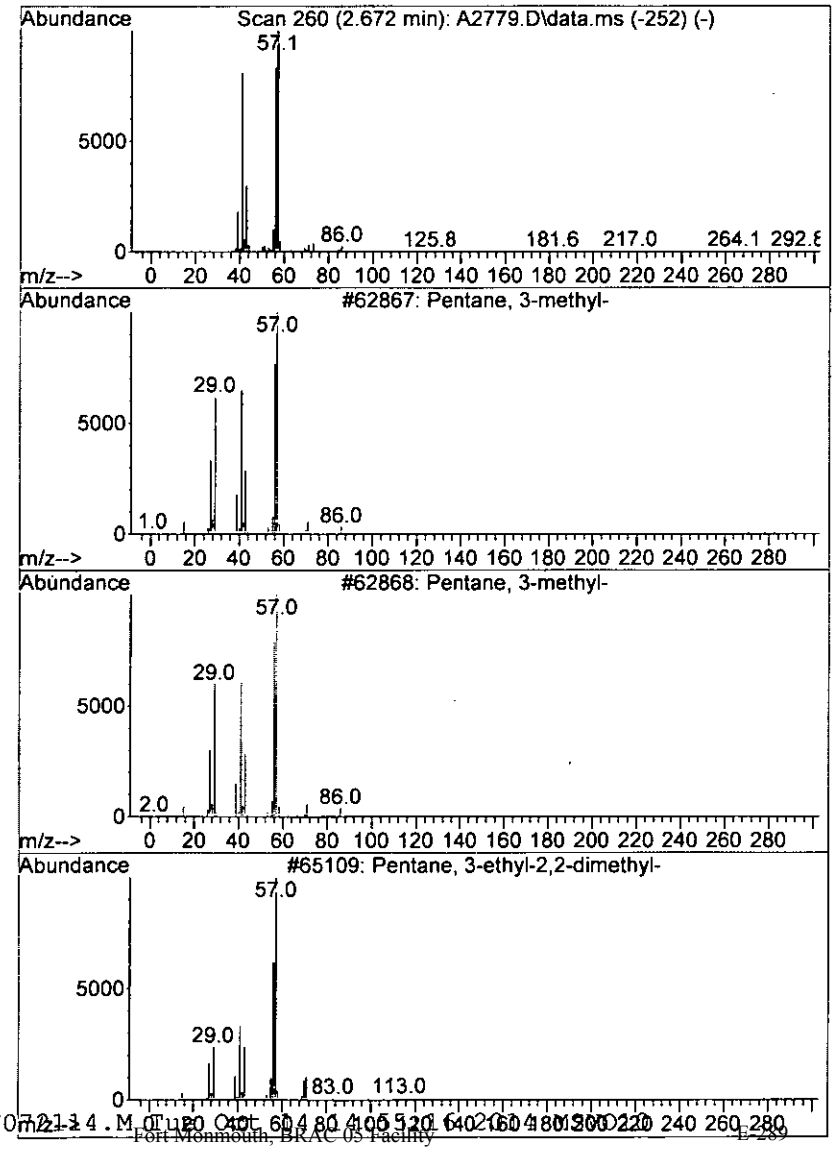
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TIC Integration Parameters: LSCINT.P

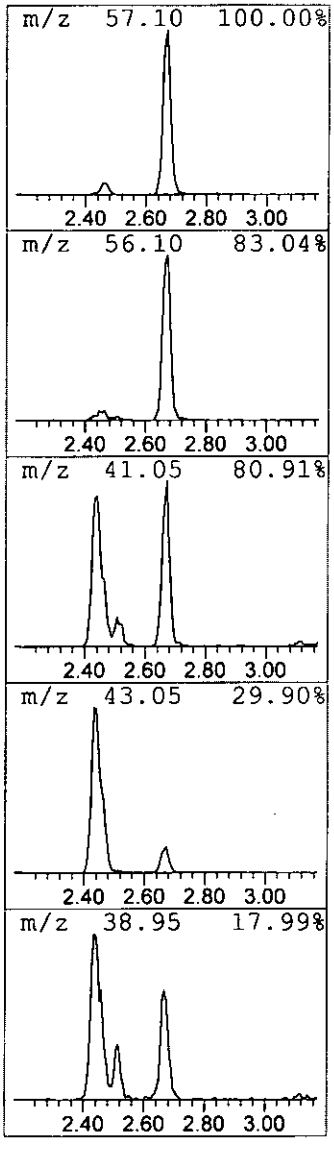
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Peak Number 3 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.672	7.32 ug/L	410100	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	64
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	64
3	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	50
4	Pentane, 2,2,3-trimethyl-	114	C8H18	000564-02-3	50
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	50





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

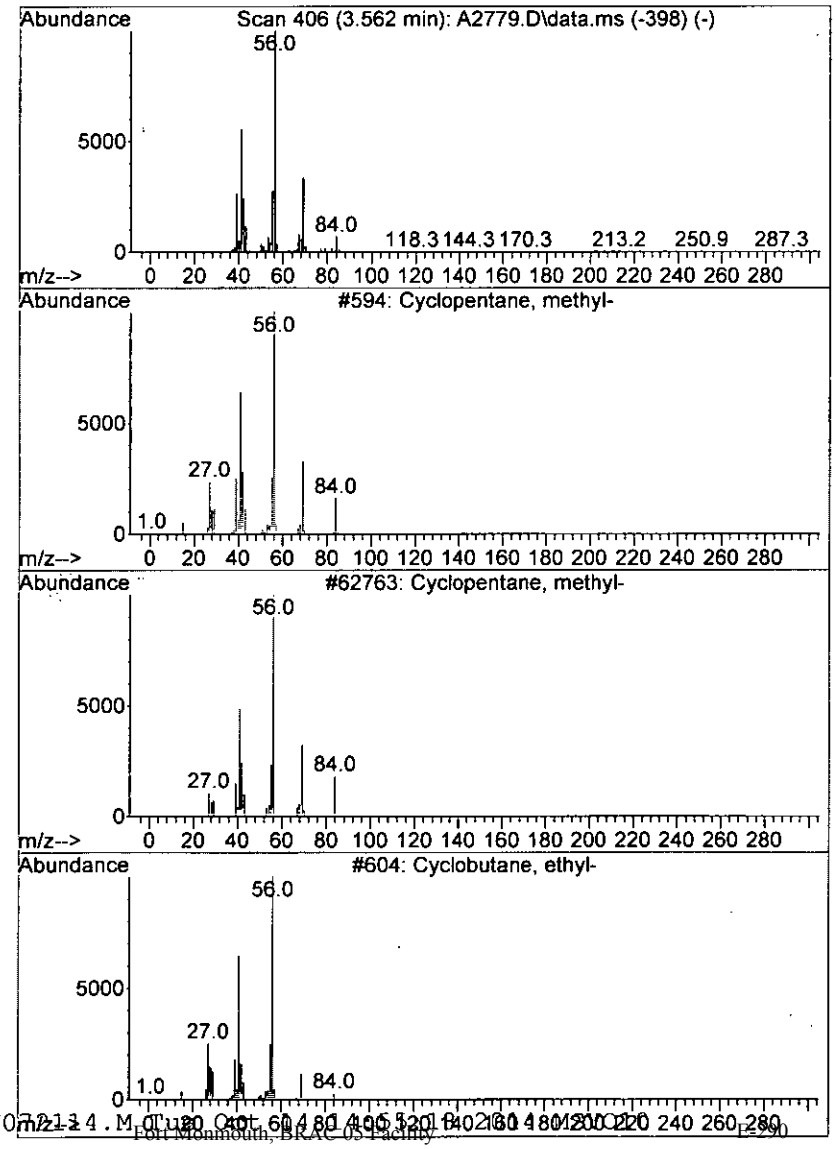
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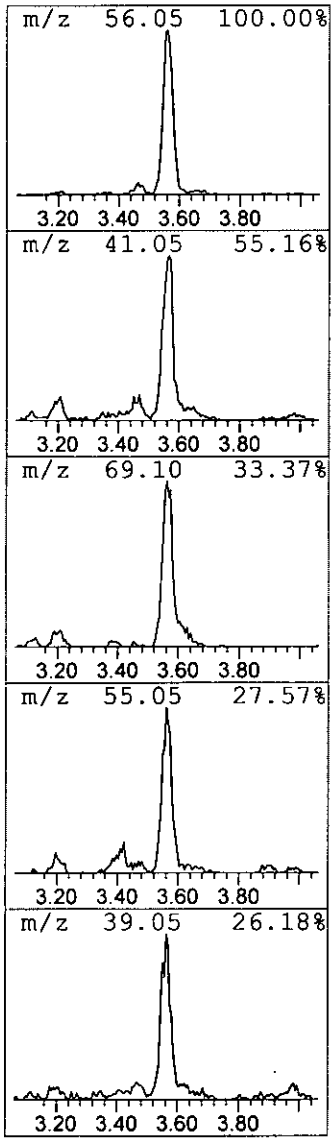
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Peak Number 4 Cyclopentane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.562	6.92 ug/L	387925	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
3	Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
4	Cyclopropane, propyl-	84	C6H12	002415-72-7	59
5	Cyclohexane	84	C6H12	000110-82-7	56





Library Search Compound Report

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On    :  9 Oct 2014    6:26 pm
Operator  : F.NAEGLER
Sample    : R1407806-008|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 18   Sample Multiplier: 1

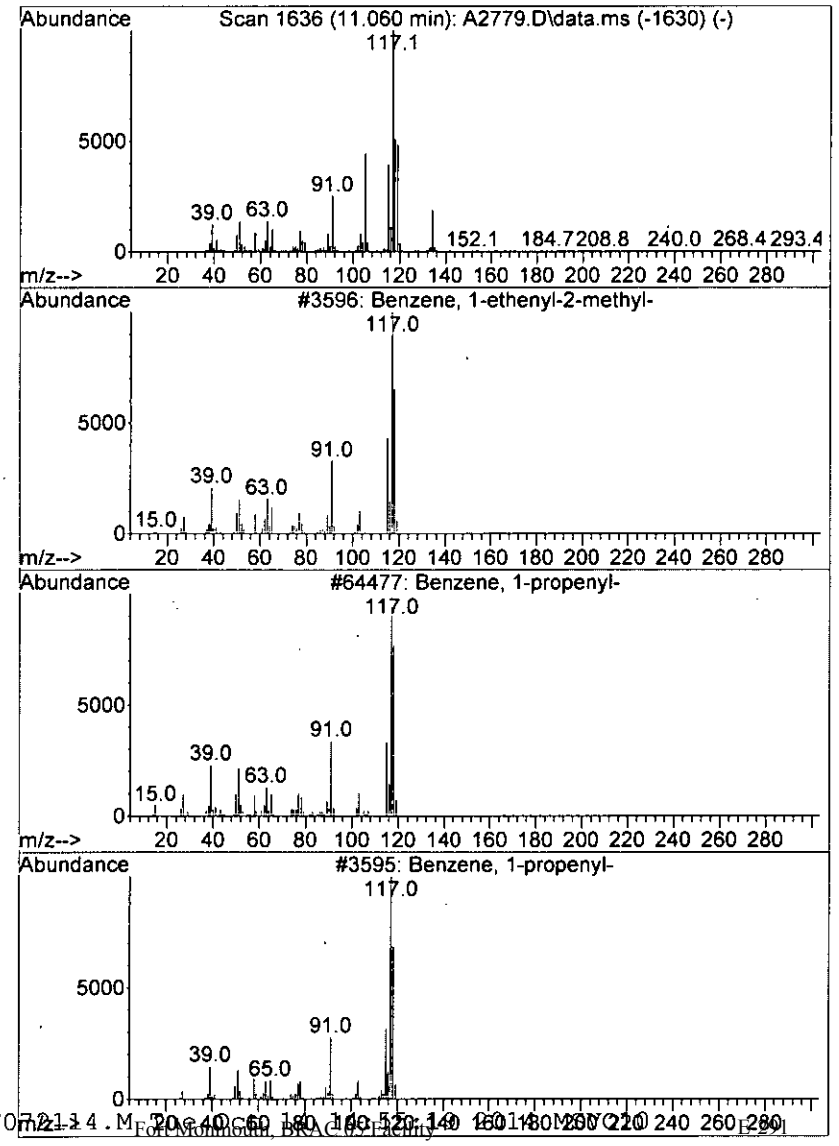
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

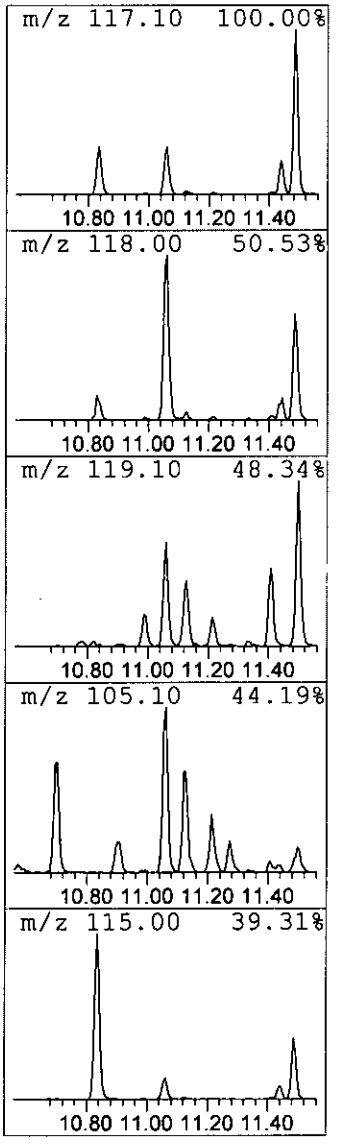
TIC Library   : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

**********************************************************************
Peak Number  5  Benzene, 1-ethenyl-2-methyl-    Concentration Rank  5
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.060	7.52 ug/L	608021	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	74
2	Benzene, 1-propenyl-	118	C9H10	000637-50-3	70
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	55
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	55
5	Indane	118	C9H10	000496-11-7	55





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

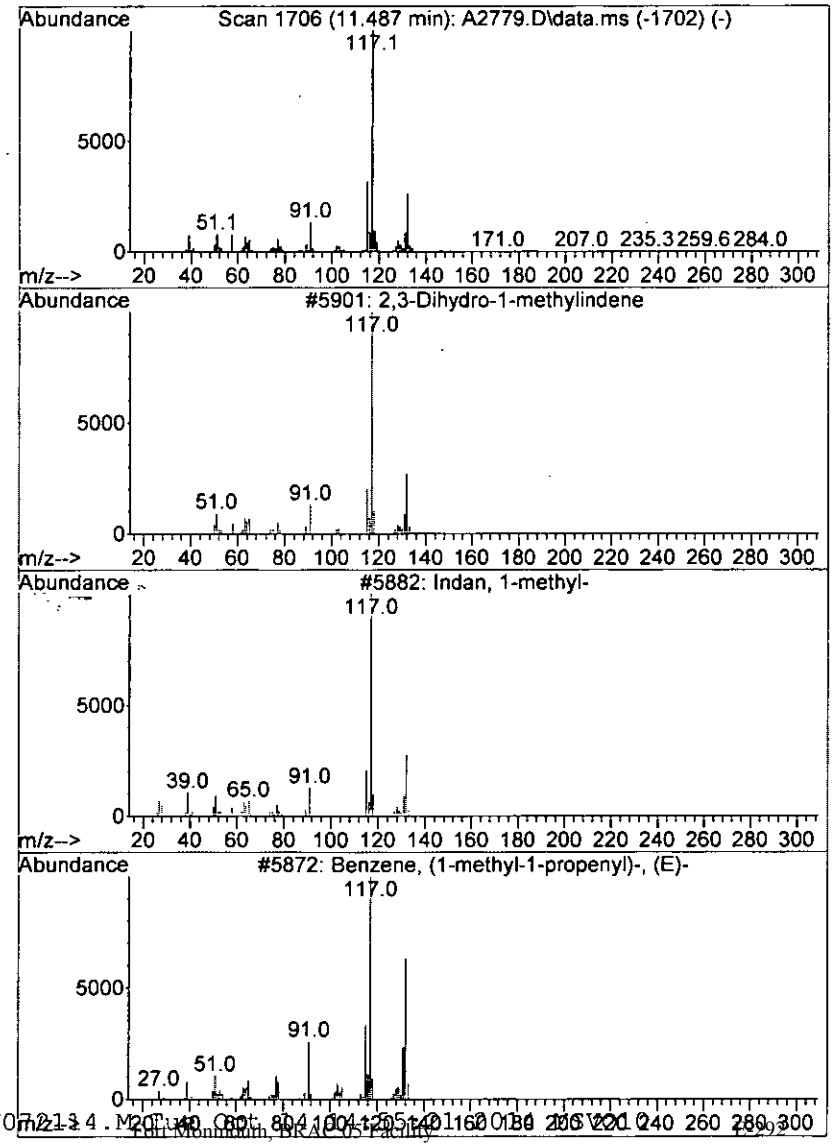
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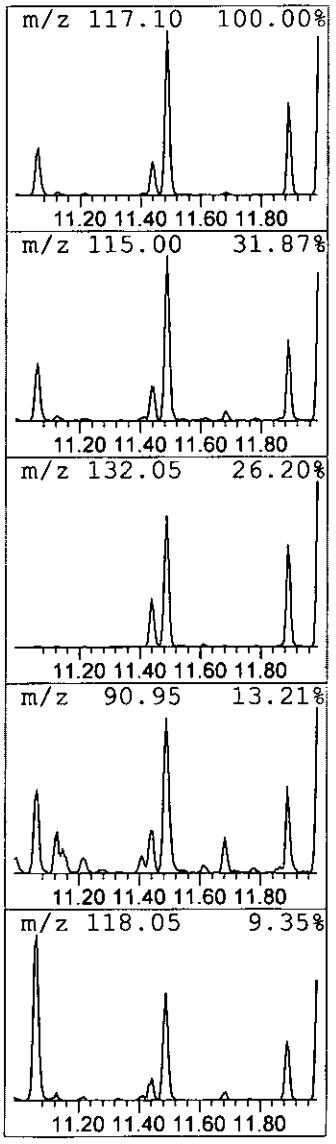
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Peak Number 6 2,3-Dihydro-1-methylindene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.487	15.47 ug/L	1250500	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	94
2	Indan, 1-methyl-	132	C10H12	000767-58-8	94
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	87
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	83





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

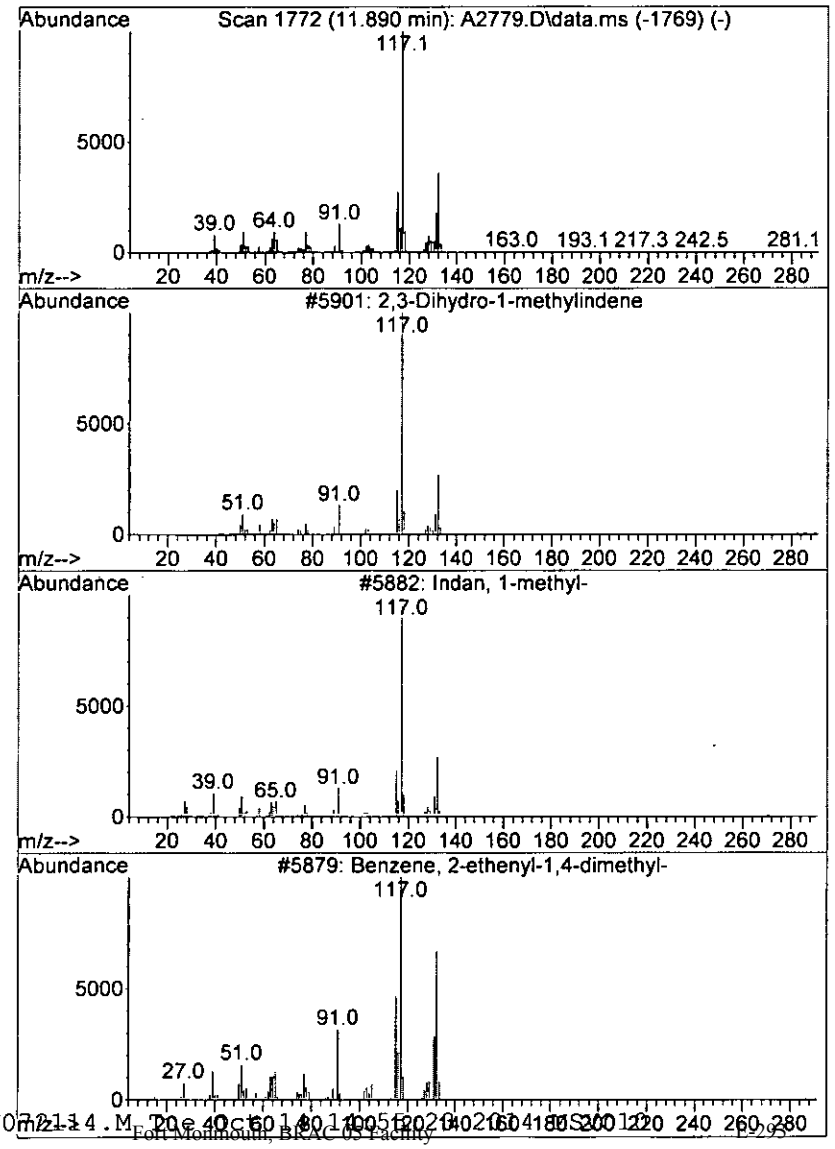
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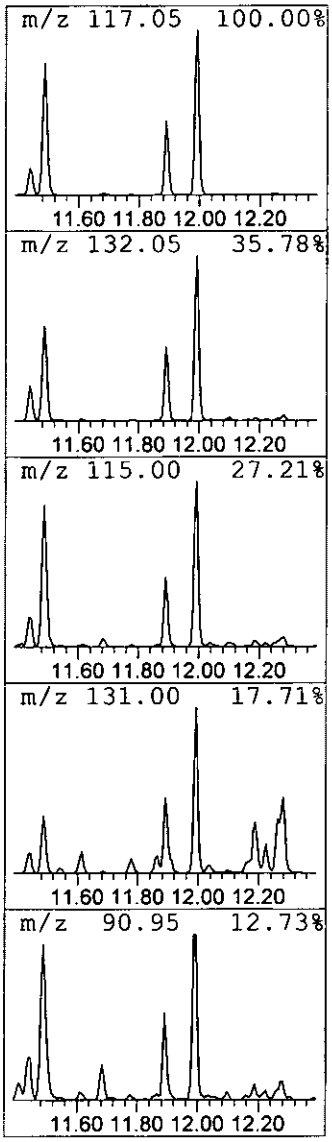
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Peak Number 7 2,3-Dihydro-1-methylindene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.890	7.69 ug/L	621546	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	97
2	Indan, 1-methyl-	132	C10H12	000767-58-8	95
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	93
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	91
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	91





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2779.D
Acq On : 9 Oct 2014 6:26 pm
Operator : F.NAEGLER
Sample : R1407806-008|1.0
Misc : PARSONS 11603 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

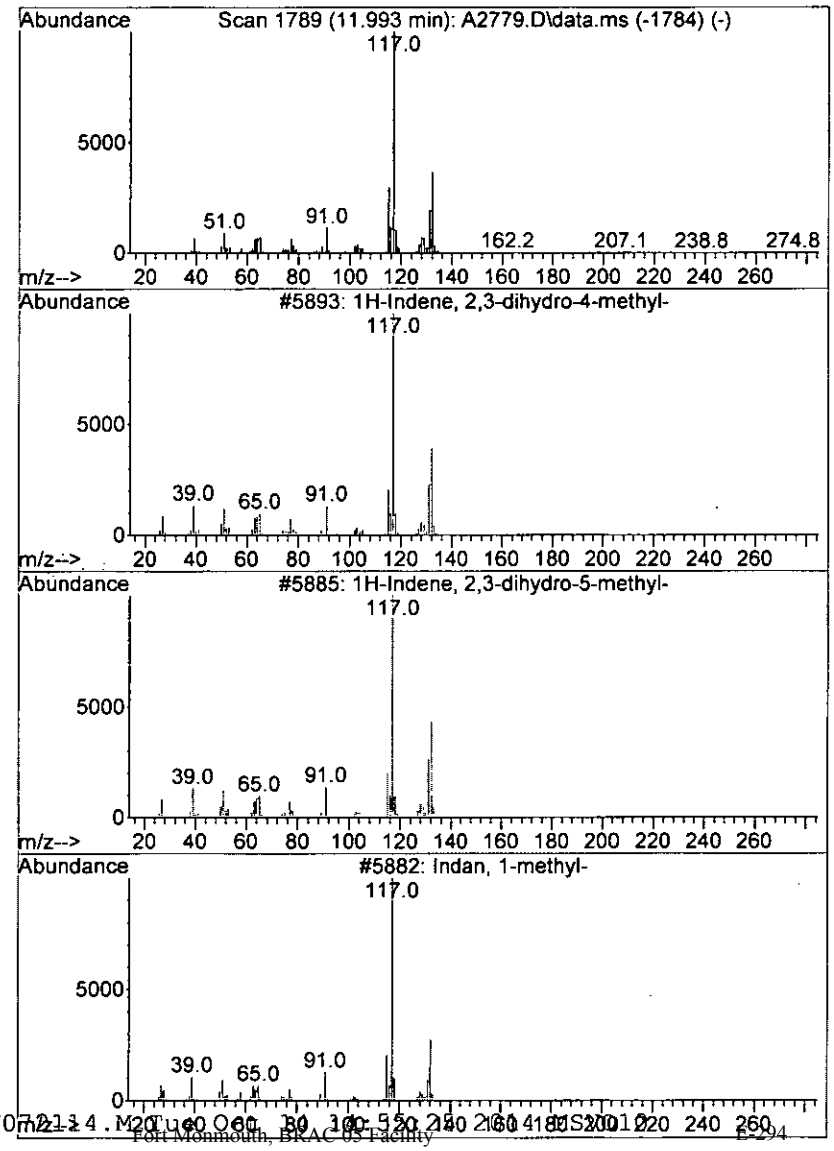
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TIC Integration Parameters: LSCINT.P

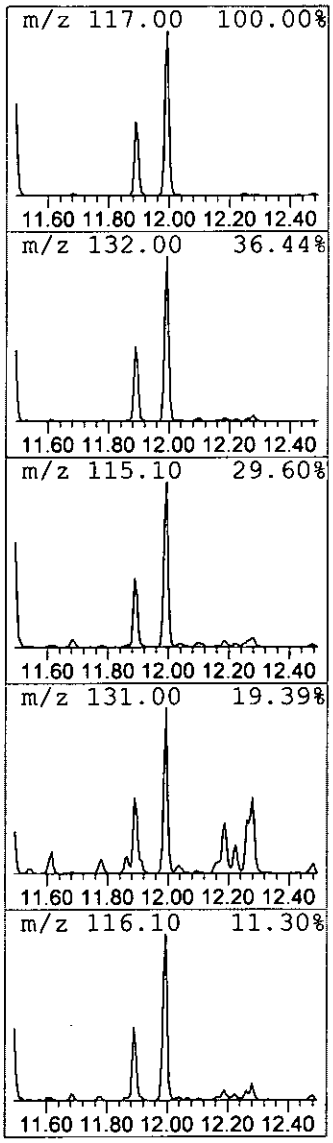
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Peak Number 8 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.993	17.43 ug/L	1408960	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	95
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	94
3	Indan, 1-methyl-	132	C10H12	000767-58-8	83
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	81
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	74





Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1030
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 15:37
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1407806-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2950.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	**52**		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	**5.7**		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	**12**		5.0	5.0	1.3	
71-43-2	Benzene	**9.2**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1030
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 15:37
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1407806-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2950.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	0.32	
100-41-4	Ethylbenzene	**150**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**14**		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	**22**		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	**1.4**	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	**120**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**0.25**	J	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**11**		5.0	1.0	0.20	
95-47-6	o-Xylene	**9.2**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**0.35**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1030
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 15:37
Sample Name:	FTMM-53-GW-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1407806-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2950.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	10/14/14 15:37	
Dibromofluoromethane	105	85-115	10/14/14 15:37	
Toluene-d8	99	85-120	10/14/14 15:37	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14 1537

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

Sample Name: FTMM-53-GW-699MW106-10.2
Lab Code: R1407806-009

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
	unknown	1.66	**12.7**	J
	unknown	2.51	**10.0**	J
000096-37-7	Cyclopentane, methyl-	3.56	**14.9**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	10.18	**26.8**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	10.41	**28.9**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	10.90	**13.9**	JN
000496-11-7	Indane	11.05	**30.3**	JN

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-009|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2950.D Vial: 13
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 15:32:39 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	946470	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1365738	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1270924	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	723868	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	456035	52.37	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.74%			
48) surr1,1,2-dichloroetha...	4.854	65	507910	55.26	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 110.52%			
65) SURR3,Toluene-d8	7.427	98	1525053	49.72	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.44%			
70) SURR2,BFB	9.878	95	653687	54.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.32%			
Target Compounds						Qvalue
15) Acetone	2.117	43	33458	11.61	ug/L	89
49) Benzene	4.958	78	307698	9.22	ug/L	92
66) Toluene	7.506	91	50181	1.43	ug/L	93
82) Ethylbenzene	8.975	106	1774486	145.32	ug/L	95
83) (m+p)Xylene	9.085	106	1852907	123.05	ug/L	96
84) o-Xylene	9.433	106	134814	9.16	ug/L	91
88) Isopropylbenzene	9.756	105	518308	14.00	ug/L	99
95) n-Propylbenzene	10.103	91	489792	10.84	ug/L	99
99) 1,3,5-Trimethylbenzene	10.250	105	186758	5.69	ug/L	95
101) 1,2,4-Trimethylbenzene	10.554	105	1730864	52.12	ug/L	99
103) sec-Butylbenzene	10.701	105	13352	0.35	ug/L	82
109) n-Butylbenzene	11.146	91	7062m	0.25	ug/L	
117) Naphthalen	12.383	128	421571	22.05	ug/L	99

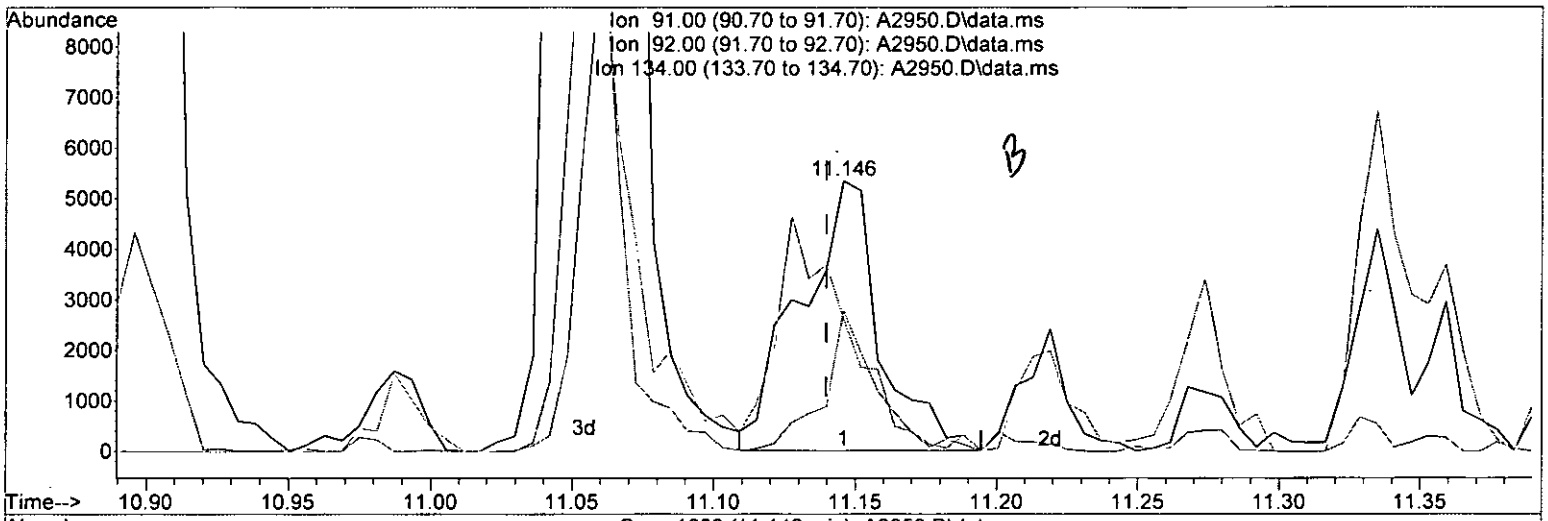
(#) = qualifier out of range (m) = manual integration (+) = signals summed

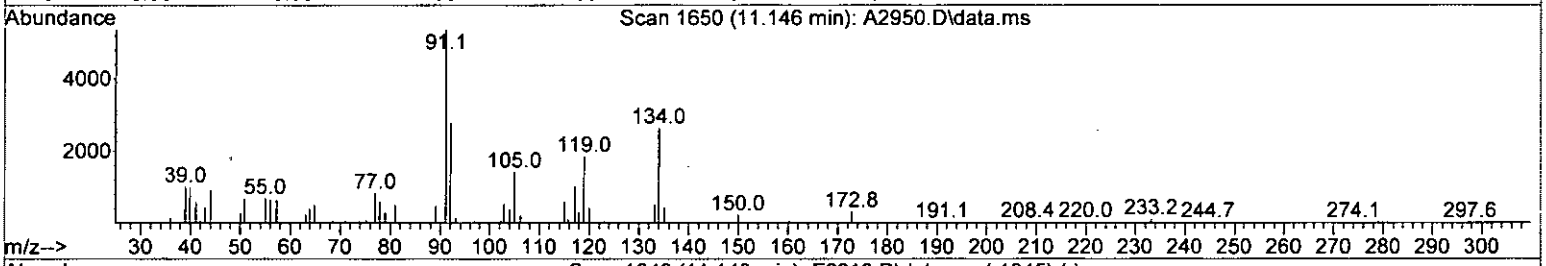
FJ
12/15/14

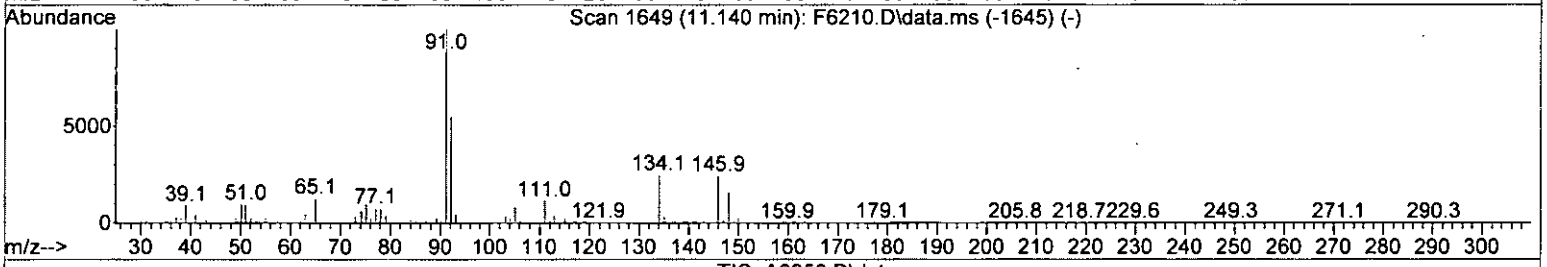
Quantitation Report (Qedit)

Sample : R1407806-009|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2950.D Vial: 13
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:50:46 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2950.D\data.ms

(109) n-Butylbenzene

11.146min (+0.006) 0.37 ug/L

response 10396

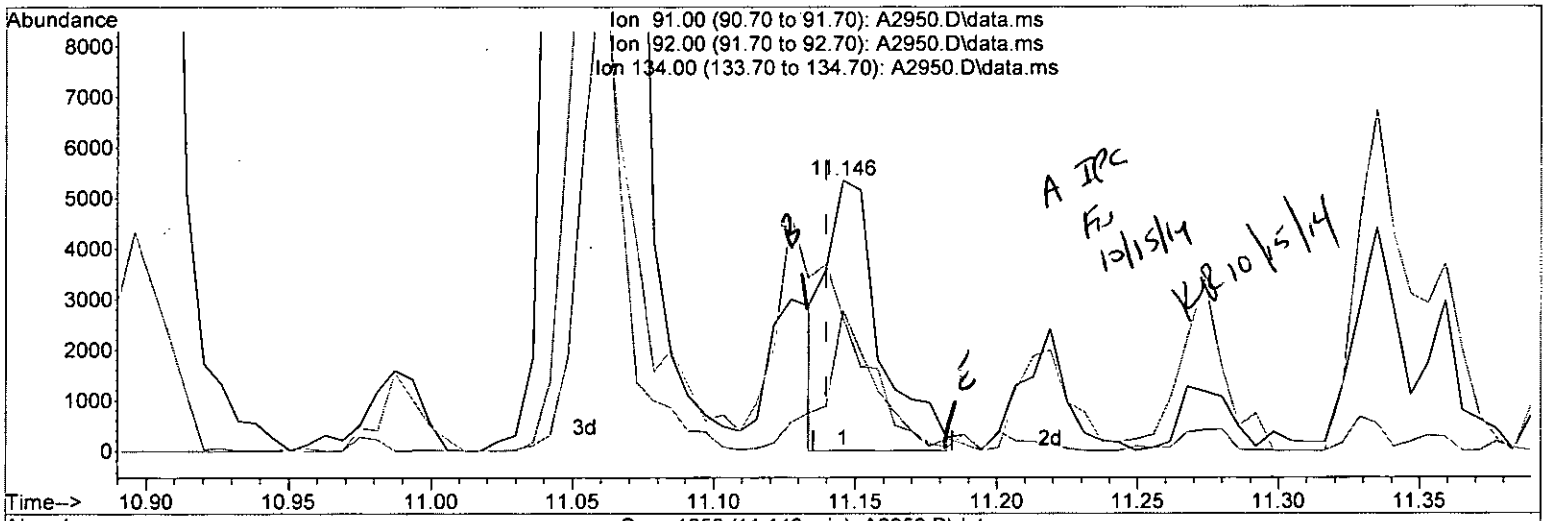
Ion	Exp%	Act%
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92.00	55.10	51.79
134.00	24.20	49.08#
0.00	0.00	0.00

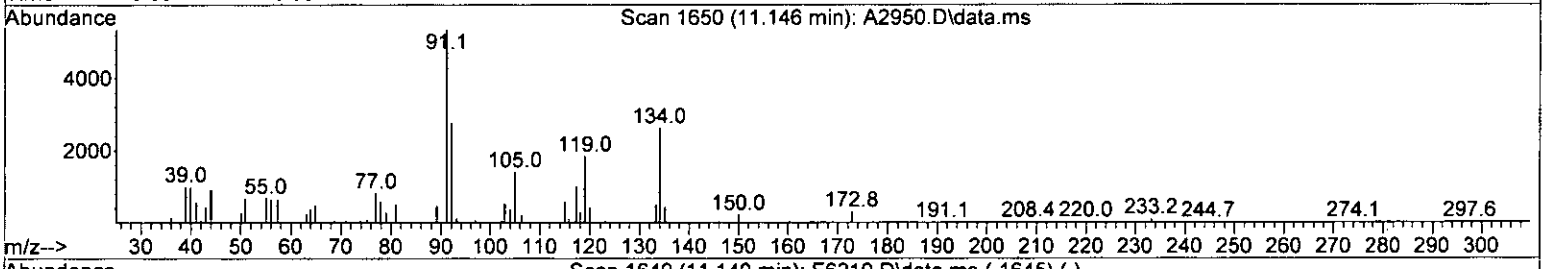
W072114.M Wed Oct 15 15:32:36 2014 MSVO10 Page: 1

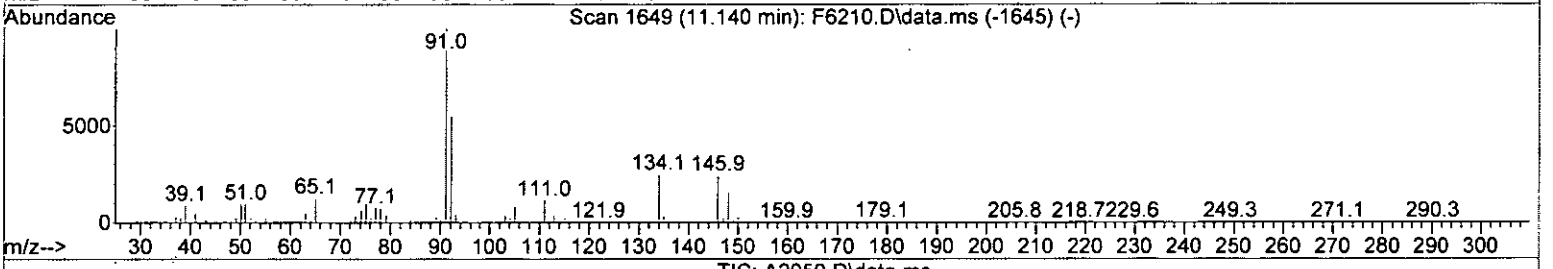
Quantitation Report (Qedit)

Sample : R1407806-009|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2950.D Vial: 13
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:50:46 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2950.D\data.ms

(109) n-Butylbenzene

11.146min (+0.006) 0.25 ug/L m

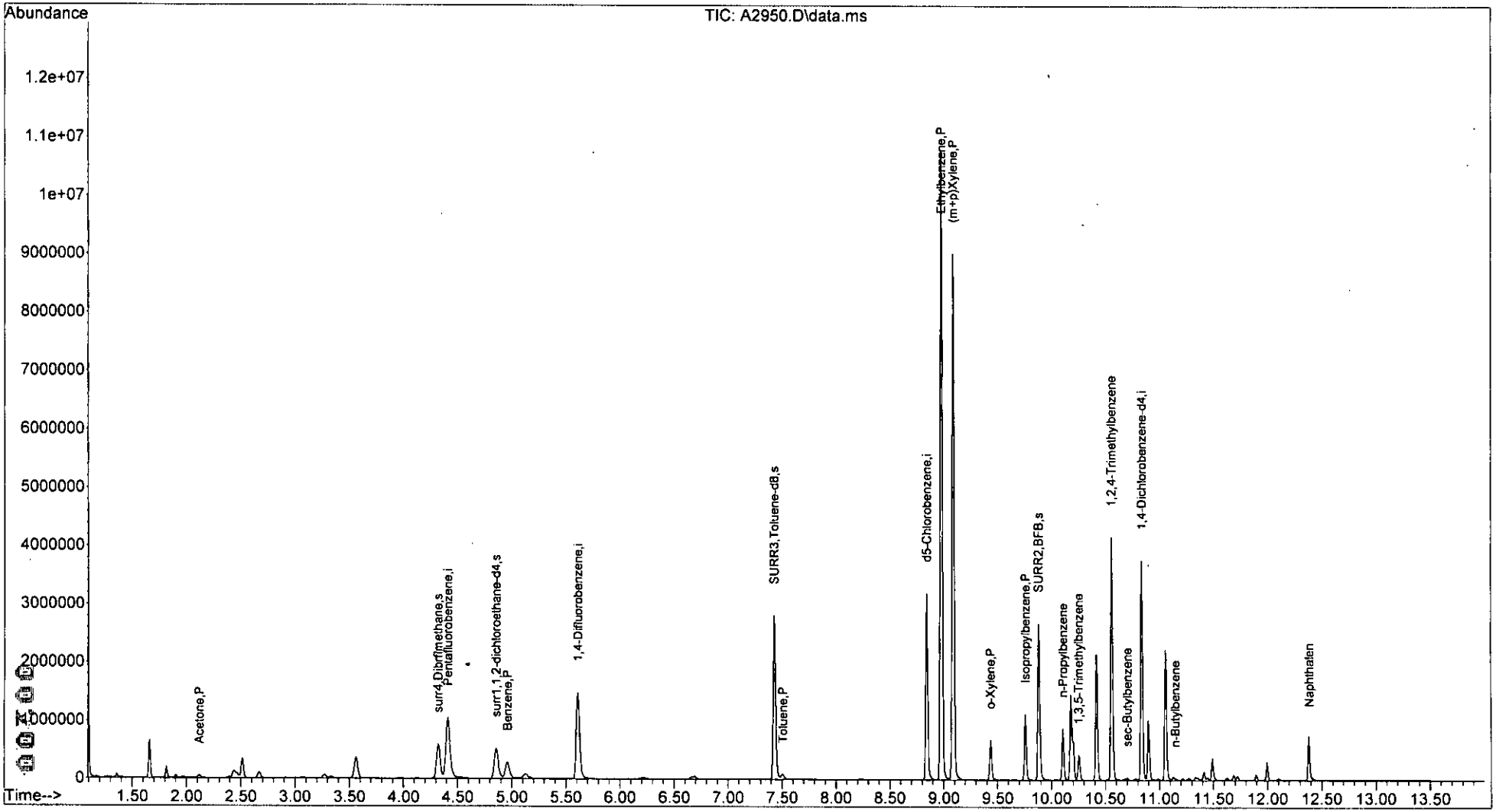
response 7062

Ion	Exp%	Act%
91.00	100	100
92.00	55.10	51.79
134.00	24.20	49.08#
0.00	0.00	0.00

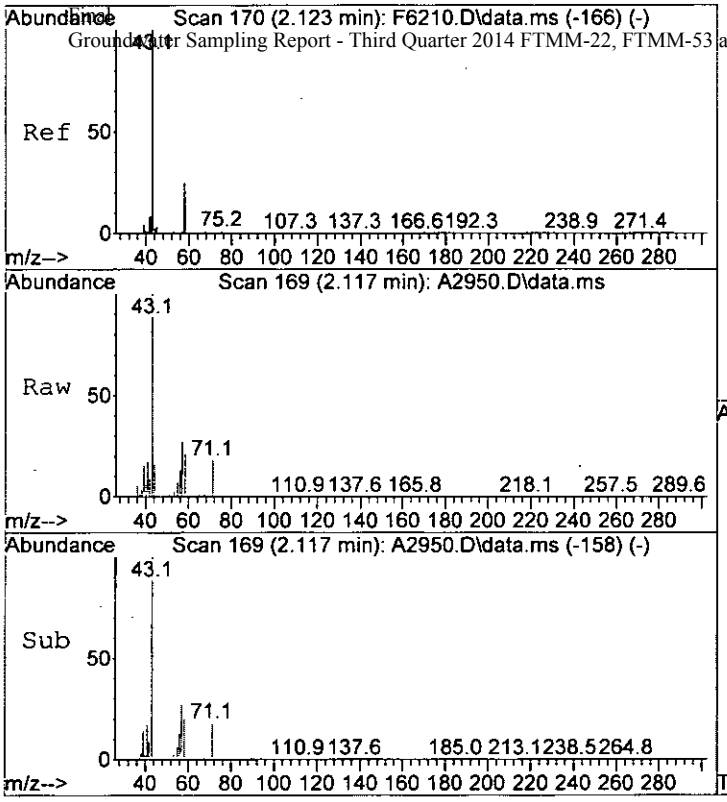
Quantitation Report (QT Reviewed)

Sample : R1407806-009|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2950.D Vial: 13
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 15:32:39 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



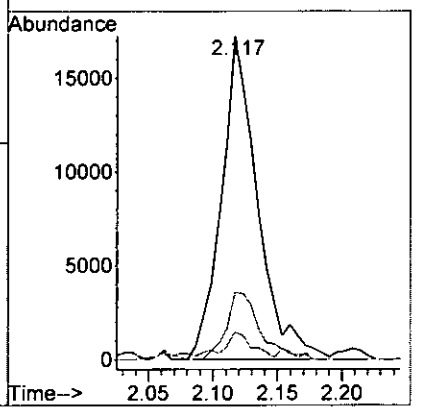
W072114.M Wed Oct 15 15:33:38 2014 MSVO10 Page: 2

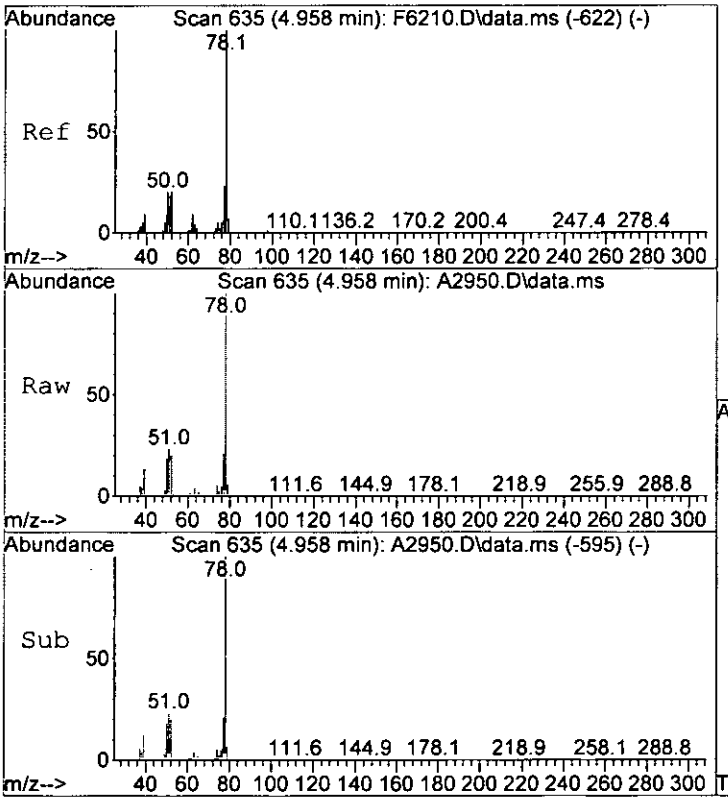


#15
Acetone
Concen: 11.61 ug/L
RT: 2.117 min Scan# 169
Delta R.T. -0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion: 43 Resp: 33458

Ion	Ratio	Lower	Upper
43	100		
58	20.7	7.2	47.2
42	8.5	0.0	27.0

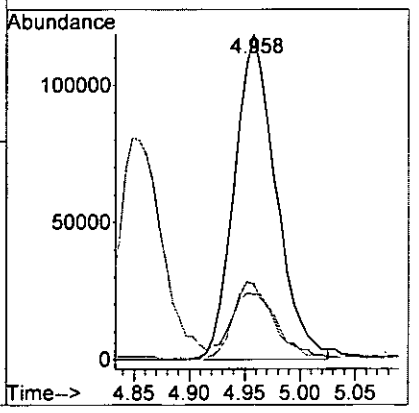


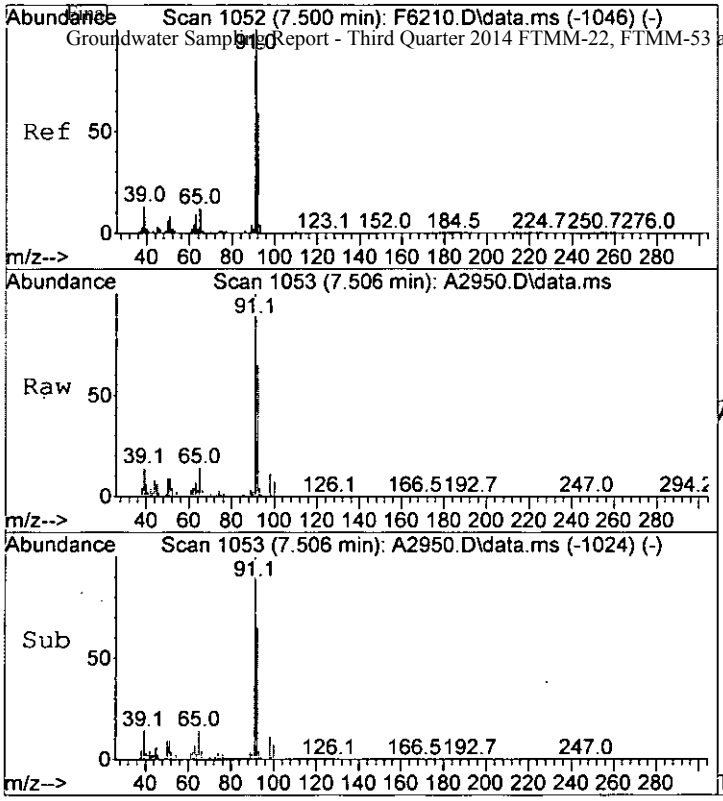


#49
Benzene
Concen: 9.22 ug/L
RT: 4.958 min Scan# 635
Delta R.T. -0.000 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion: 78 Resp: 307698

Ion	Ratio	Lower	Upper
78	100		
51	23.1	0.0	39.4
52	19.8	0.0	36.9

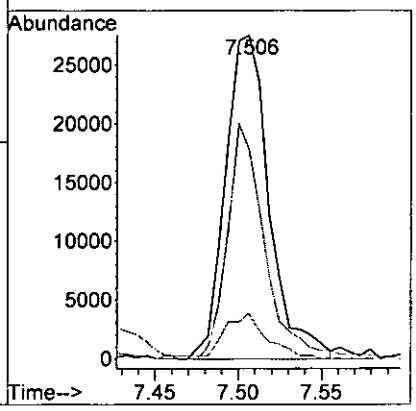


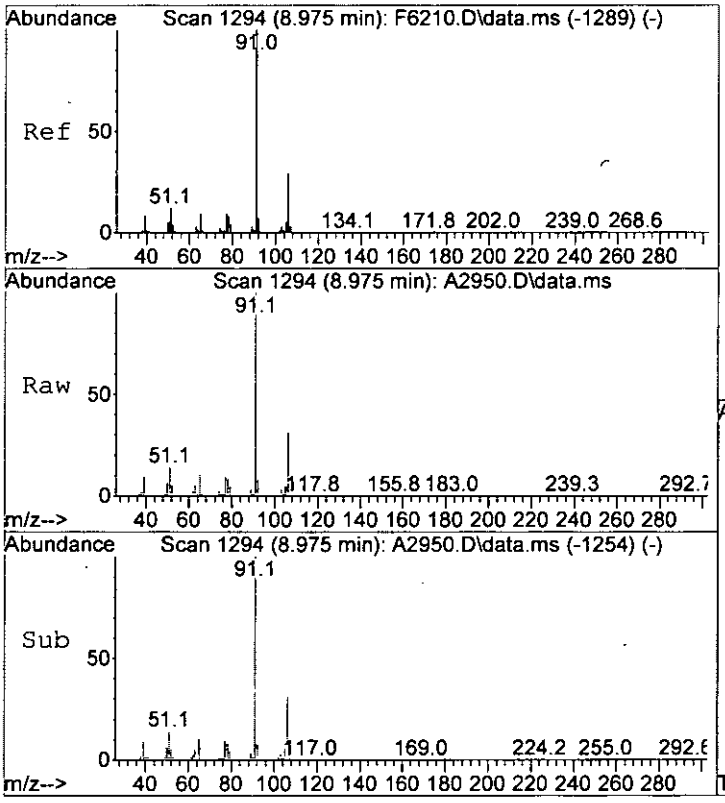


#66
Toluene
Concen: 1.43 ug/L
RT: 7.506 min Scan# 1053
Delta R.T. 0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion: 91 Resp: 50181

Ion	Ratio	Lower	Upper
91	100		
92	64.9	39.5	79.5
65	14.1	0.0	32.0

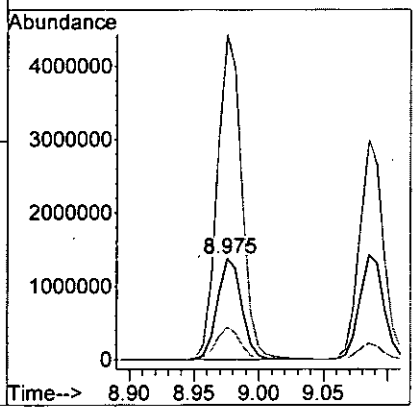




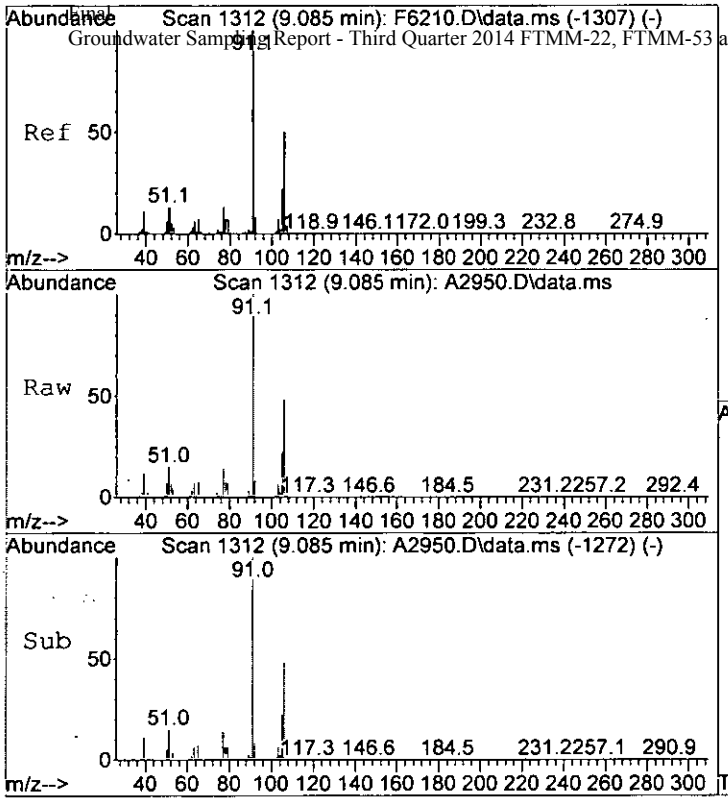
#82
Ethylbenzene
Concen: 145.32 ug/L
RT: 8.975 min Scan# 1294
Delta R.T. -0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:106 Resp: 1774486

Ion	Ratio	Lower	Upper
106	100		
91	322.4	314.0	354.0
65	31.9	11.1	51.1



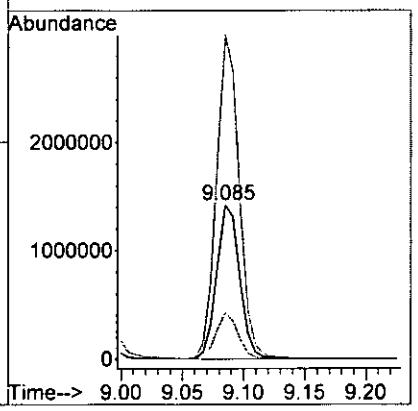
A2950.D W072114.M Wed Oct 15 15:33:41 2014 MSVO10 Page 4

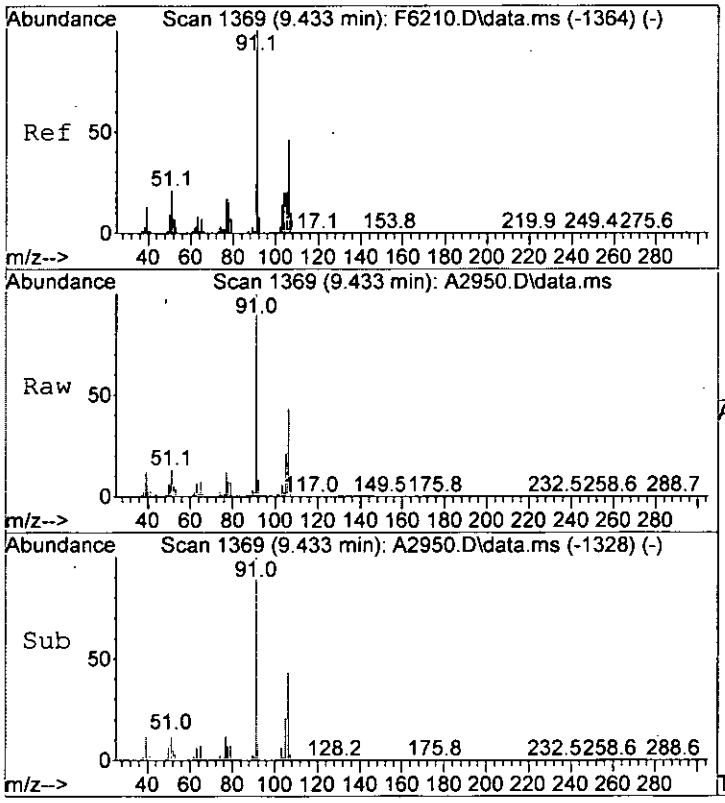


#83
(m+p)Xylene
Concen: 123.05 ug/L
RT: 9.085 min Scan# 1312
Delta R.T. -0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:106 Resp: 1852907

Ion	Ratio	Lower	Upper
106	100		
91	210.4	183.8	223.8
77	30.0	8.7	48.7

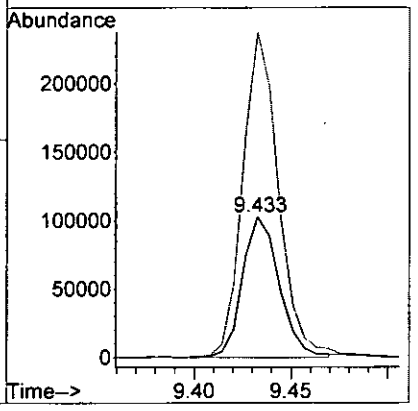


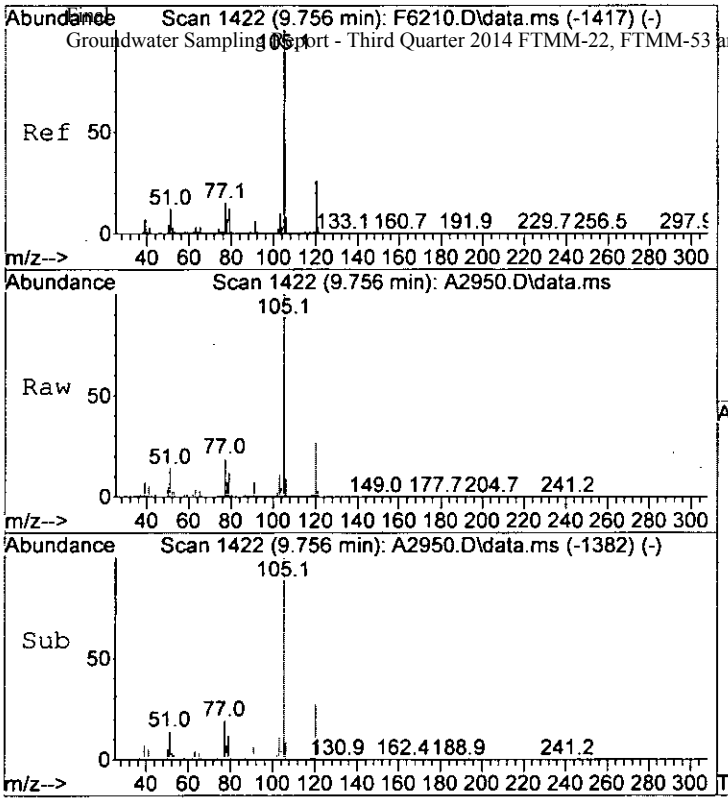


#84
o-Xylene
Concen: 9.16 ug/L
RT: 9.433 min Scan# 1369
Delta R.T. -0.000 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:106 Resp: 134814

Ion	Ratio	Lower	Upper
106	100		
91	231.8	198.0	238.0

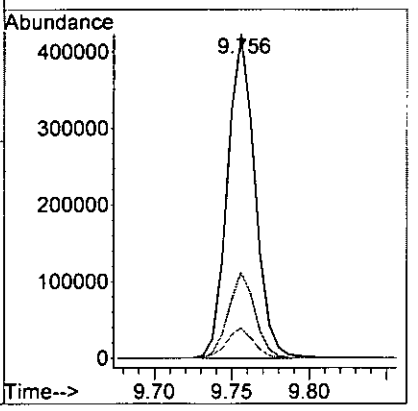


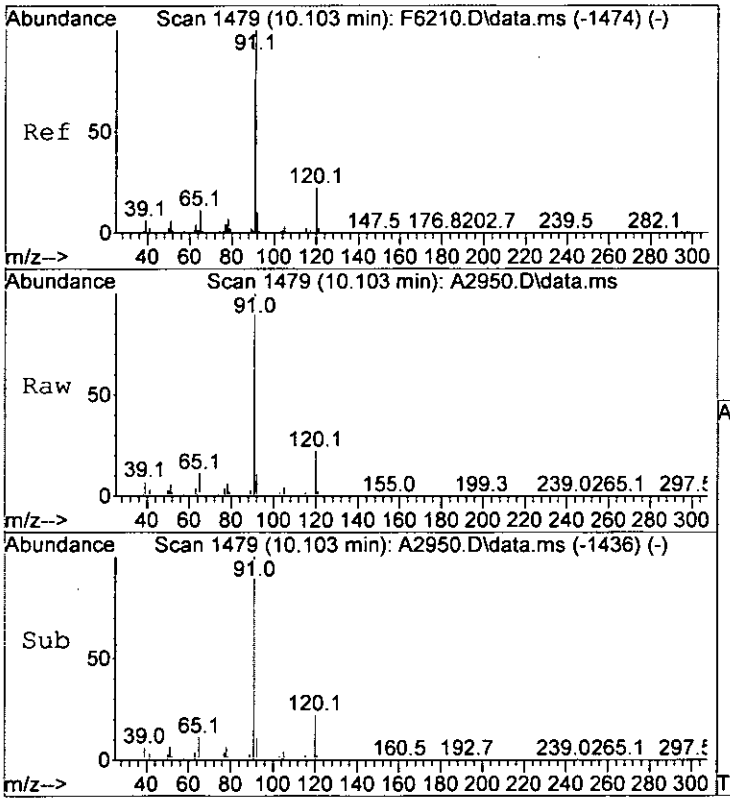


#88
Isopropylbenzene
Concen: 14.00 ug/L
RT: 9.756 min Scan# 1422
Delta R.T. -0.000 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:105 Resp: 518308

Ion	Ratio	Lower	Upper
105	100		
120	26.5	6.8	46.8
106	9.4	0.0	28.8

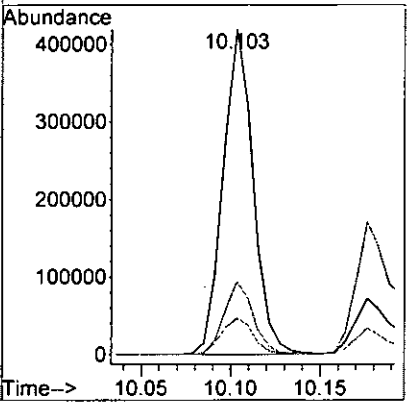


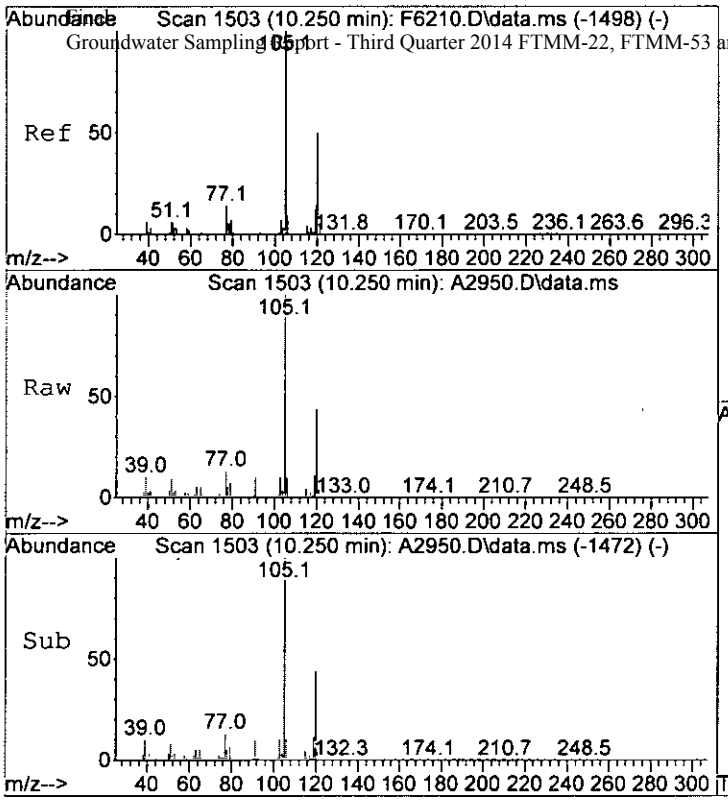


#95
n-Propylbenzene
Concen: 10.84 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion: 91 Resp: 489792

Ion	Ratio	Lower	Upper
91	100		
120	22.3	2.9	42.9
65	11.2	0.0	31.4

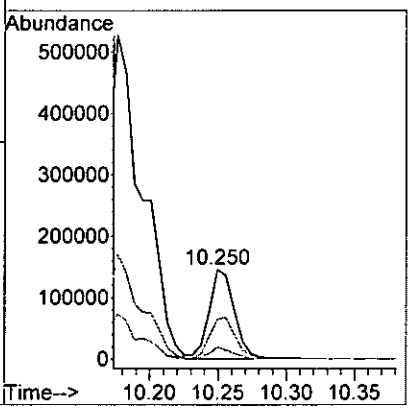


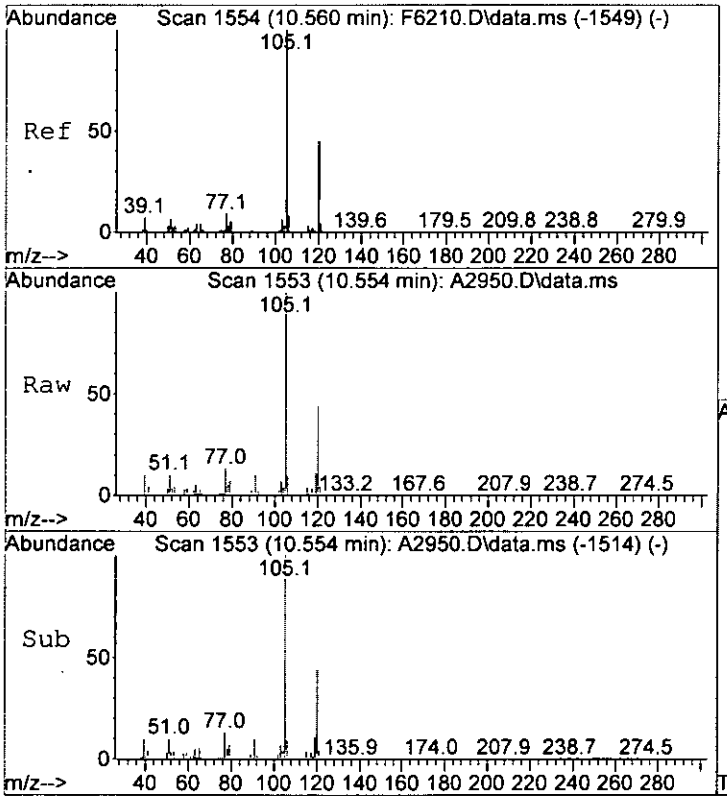


#99
1,3,5-Trimethylbenzene
Concen: 5.69 ug/L
RT: 10.250 min Scan# 1503
Delta R.T. -0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:105 Resp: 186758

Ion	Ratio	Lower	Upper
105	100		
120	44.3	28.5	68.5
77	13.1	0.0	34.2

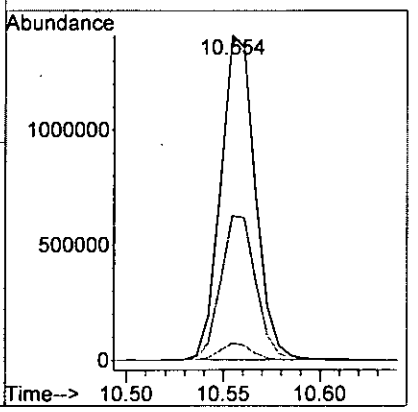


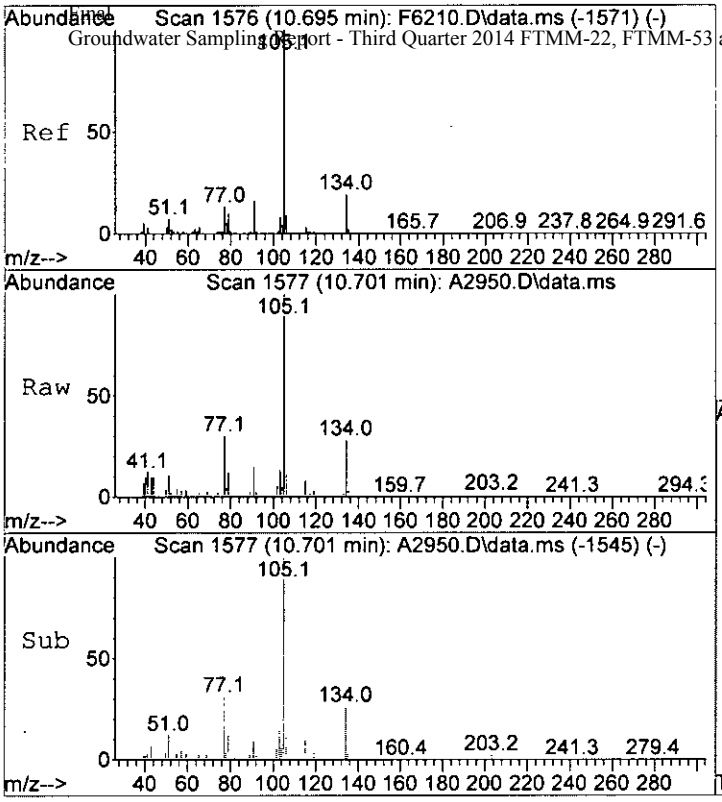


#101
1,2,4-Trimethylbenzene
Concen: 52.12 ug/L
RT: 10.554 min Scan# 1553
Delta R.T. -0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:105 Resp: 1730864

Ion	Ratio	Lower	Upper
105	100		
120	44.4	24.9	64.9
65	5.1	0.0	25.0

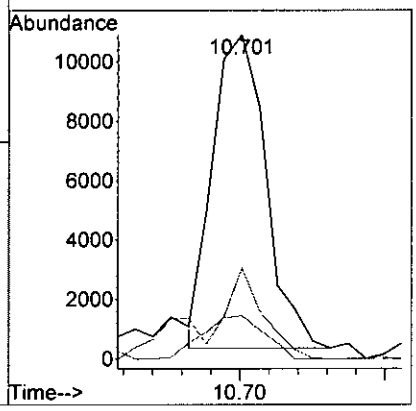


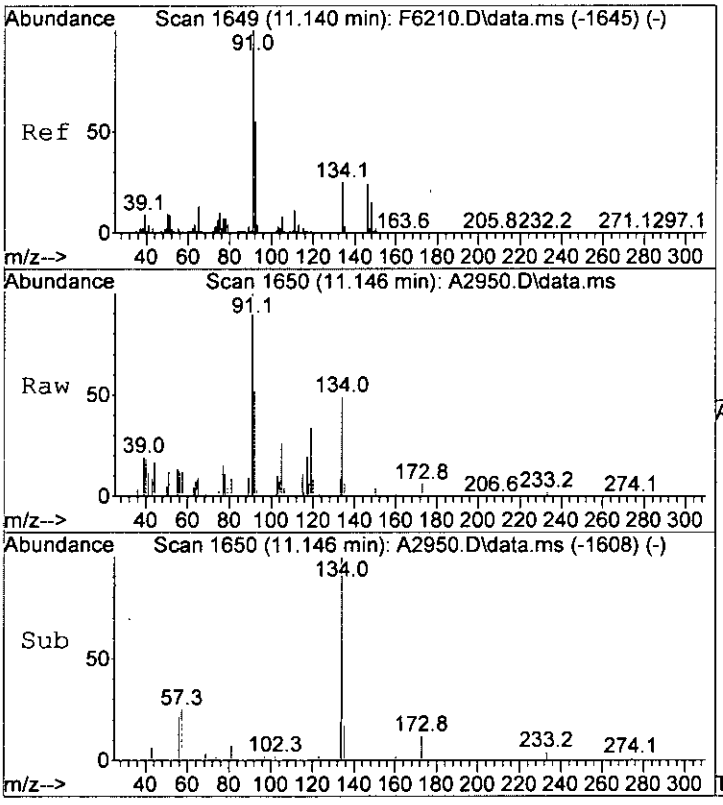


#103
Sec-Butylbenzene
Concen: 0.35 ug/L
RT: 10.701 min Scan# 1577
Delta R.T. -0.000 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:105 Resp: 13352

Ion	Ratio	Lower	Upper
105	100		
134	28.1	0.0	38.9
103	13.3	0.0	28.6

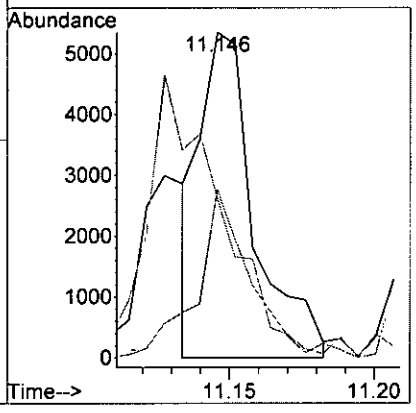




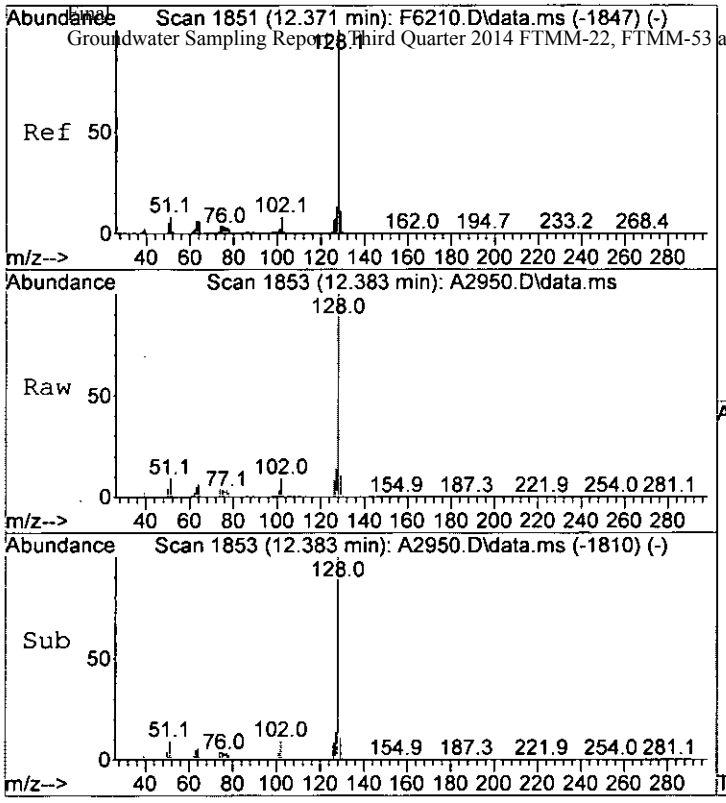
#109
n-Butylbenzene
Concen: 0.25 ug/L m
RT: 11.146 min Scan# 1650
Delta R.T. 0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion: 91 Resp: 7062

Ion	Ratio	Lower	Upper
91	100		
92	51.8	35.1	75.1
134	49.1	4.2	44.2#



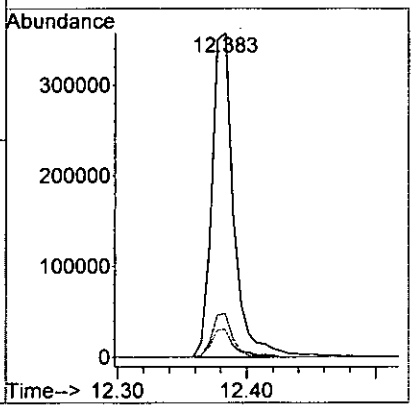
A2950.D W072114.M Wed Oct 15 15:33:46 2014 MSVO10 Page 8



#117
Naphthalen
Concen: 22.05 ug/L
RT: 12.383 min Scan# 1853
Delta R.T. 0.006 min
Lab File: A2950.D
Acq: 14 Oct 2014 3:37 pm

Tgt Ion:128 Resp: 421571

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	32.9
102	8.6	0.0	28.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2950.D\data.ms

FD 10/15/14

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.660	89	94	101	rBV	644496	698732	5.03%	0.938%
2	1.812	116	119	124	rVB	186972	197655	1.42%	0.265%
3	2.434	216	221	225	rBV2	121382	253286	1.82%	0.340%
4	2.513	229	234	244	rVB	346675	550068	3.96%	0.739%
5	2.666	253	259	266	rBV2	106871	194306	1.40%	0.261%
6	3.562	396	406	417	rBV	365802	820651	5.91%	1.102%
7	4.318	519	530	538	rBV	591451	1444605	10.40%	1.940%
8	4.409	538	545	559	rVB	1034485	2761902	19.88%	3.709%
9	4.854	610	618	628	rBV2	520945	1367174	9.84%	1.836%
10	4.958	628	635	648	rVB3	271239	729988	5.25%	0.980%
11	5.123	653	662	676	rVB2	77478	260914	1.88%	0.350%
12	5.610	734	742	761	rBV	1474863	3341964	24.05%	4.487%
13	6.689	908	919	926	rBV3	45381	142326	1.02%	0.191%
14	7.427	1034	1040	1049	rBV	2808982	4351433	31.32%	5.843%
15	7.500	1049	1052	1066	rVB	86352	166133	1.20%	0.223%
16	8.841	1267	1272	1282	rBV	3195739	4092173	29.45%	5.495%
17	8.975	1289	1294	1307	rBV	10774674	13893280	100.00%	18.655%
18	9.085	1307	1312	1327	rVB	9007065	11522033	82.93%	15.471%
19	9.433	1364	1369	1377	rBV	682368	880724	6.34%	1.183%
20	9.756	1417	1422	1432	rBV	1121312	1358609	9.78%	1.824%
21	9.878	1438	1442	1457	rBV	2678091	3396309	24.45%	4.560%
22	10.103	1472	1479	1486	rBV	877064	1039614	7.48%	1.396%
23	10.176	1486	1491	1499	rVV	1461940	2426841	17.47%	3.259%
24	10.250	1499	1503	1510	rVB	417394	540809	3.89%	0.726%
25	10.414	1525	1530	1543	rBV	2164620	2619211	18.85%	3.517%
26	10.554	1549	1553	1561	rBV	4150620	5060291	36.42%	6.795%
27	10.835	1594	1599	1605	rBV	3758248	4535177	32.64%	6.090%
28	10.896	1605	1609	1620	rVB	1016423	1263967	9.10%	1.697%
29	11.054	1630	1635	1644	rBV	2232715	2751015	19.80%	3.694%
30	11.408	1689	1693	1696	rBV	136299	162735	1.17%	0.219%
31	11.487	1702	1706	1712	rBV2	373366	436223	3.14%	0.586%
32	11.993	1785	1789	1794	rBV2	299431	314070	2.26%	0.422%
33	12.377	1848	1852	1863	rBV	758964	899980	6.48%	1.208%

LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

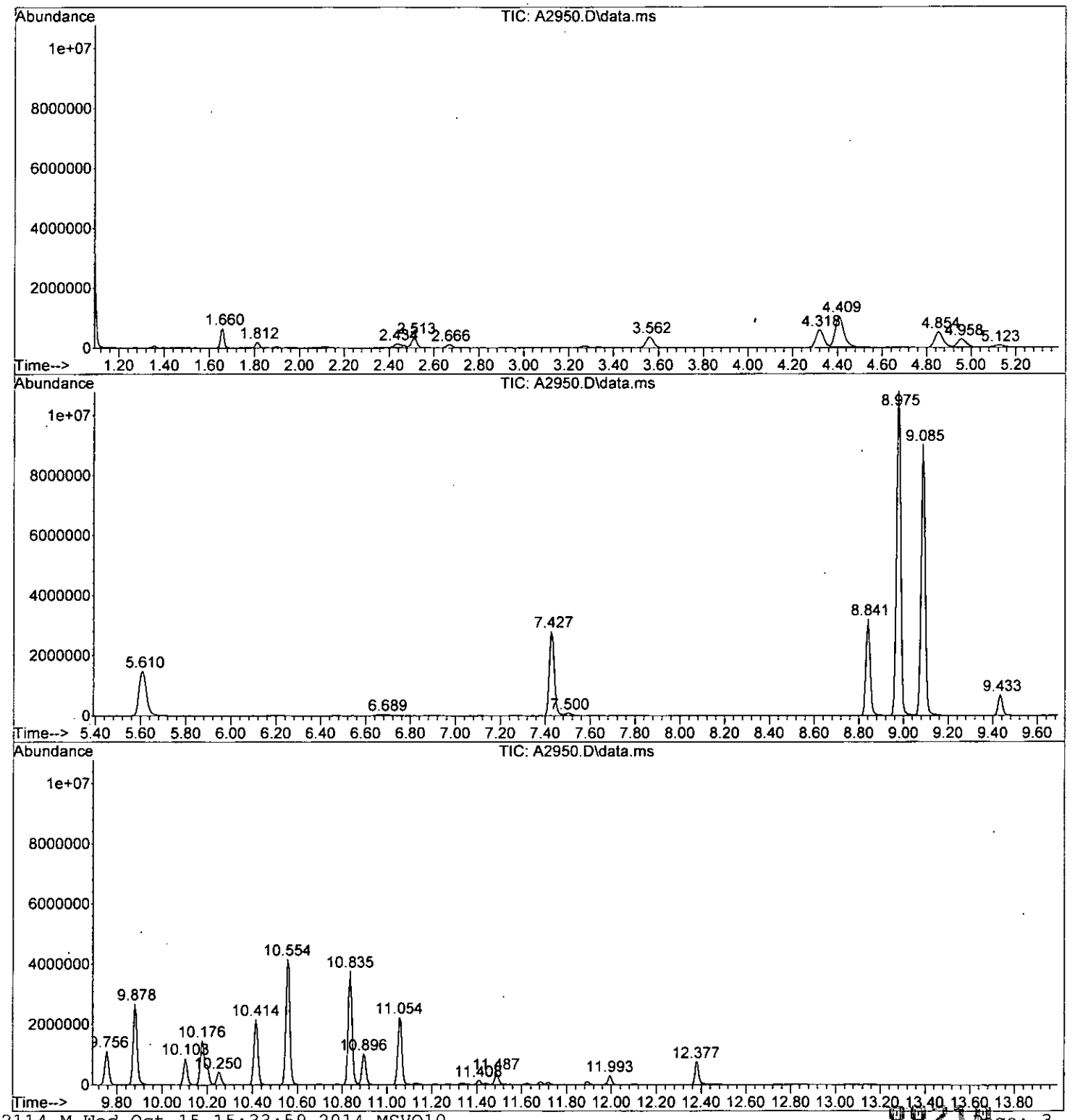
Sum of corrected areas: 74474198

LSC Report - Integrated Chromatogram

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Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2950.D
Acq On    : 14 Oct 2014    3:37 pm
Operator  : F.NAEGLER
Sample    : R1407806-009|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Wed Oct 15 15:33:59 2014 MSVO10 Page: 3

Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

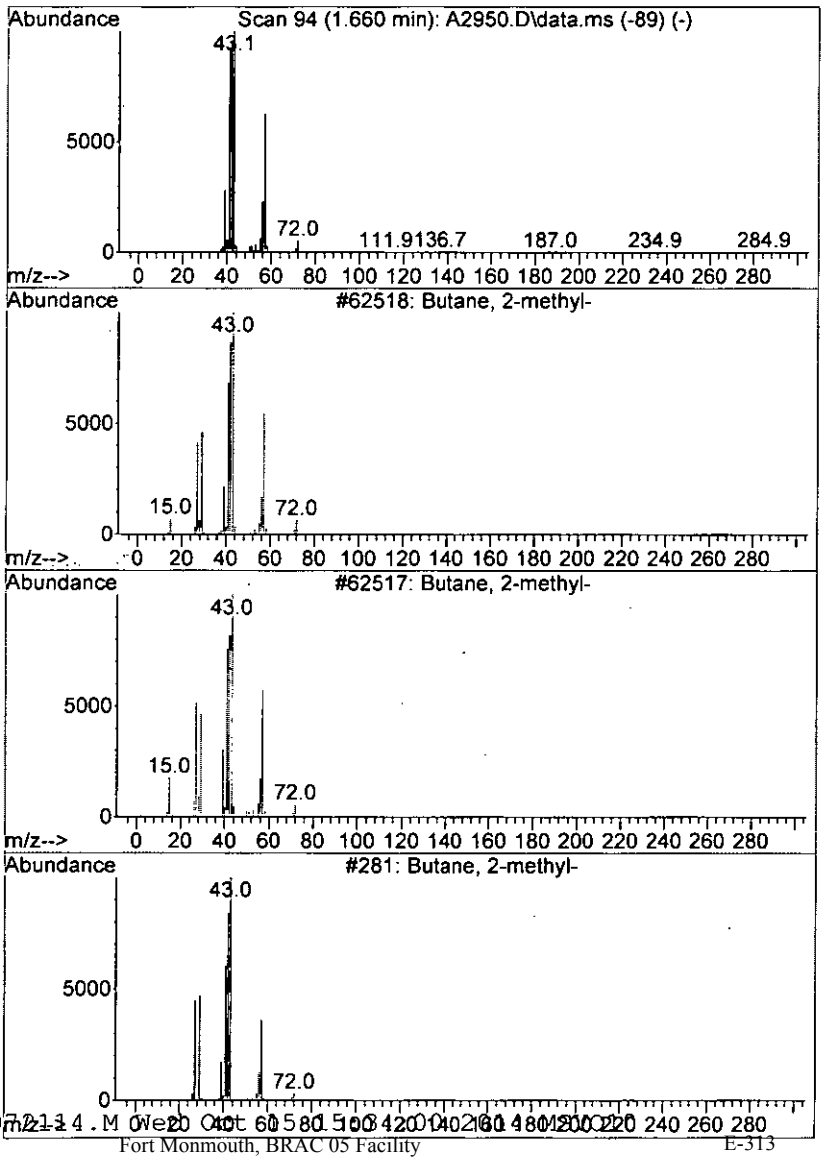
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TIC Integration Parameters: LSCINT.P

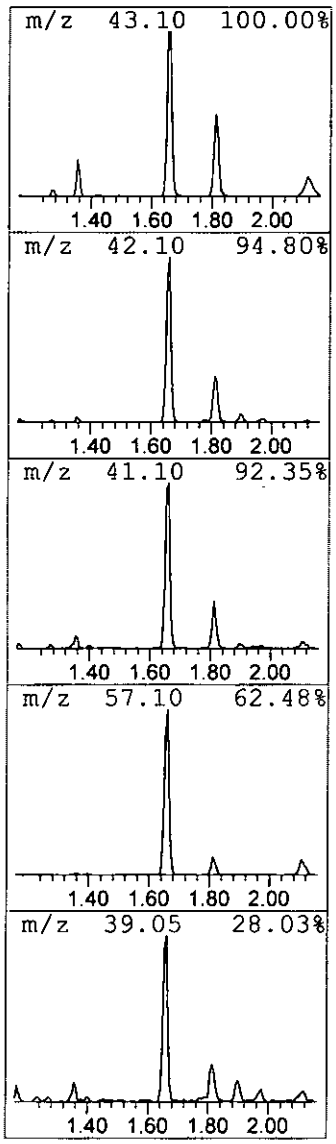
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.660	12.65 ug/L	698732	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	Butane, 2-methyl-	72	C5H12	000078-78-4	80
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	Butane, 2-methyl-	72	C5H12	000078-78-4	80
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9





Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

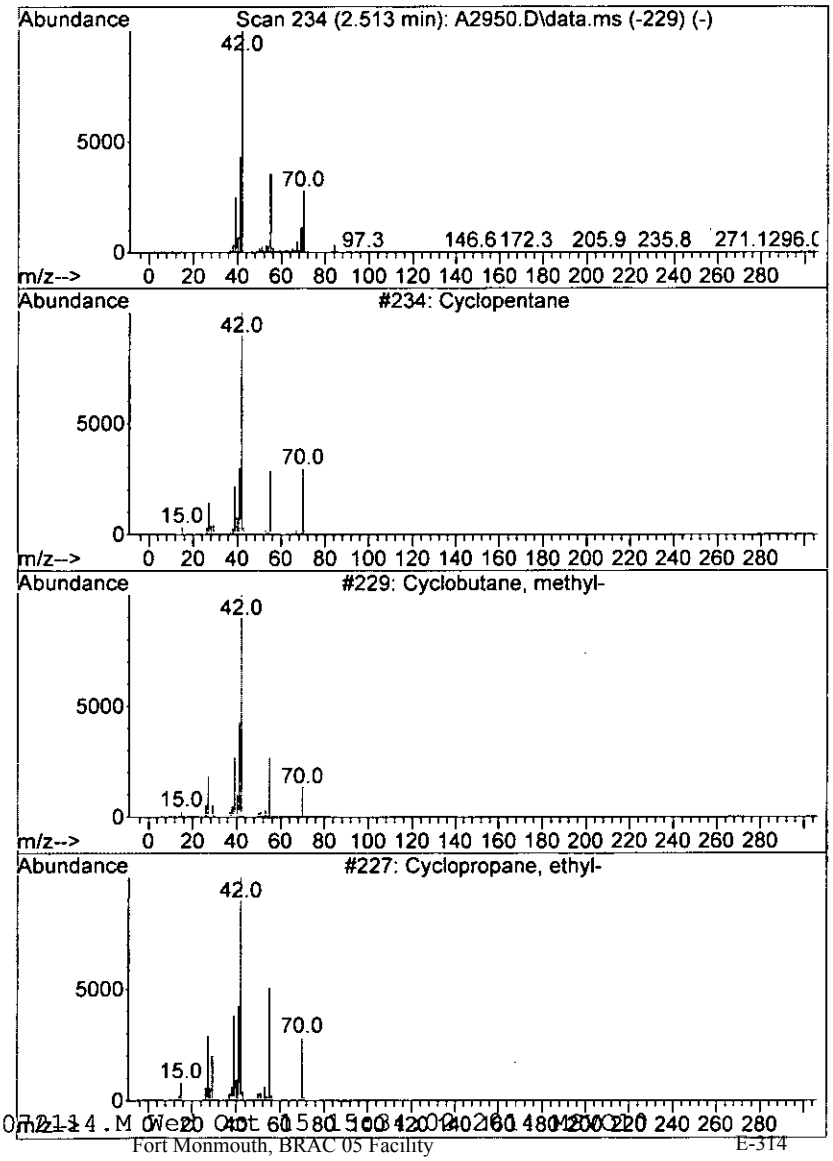
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

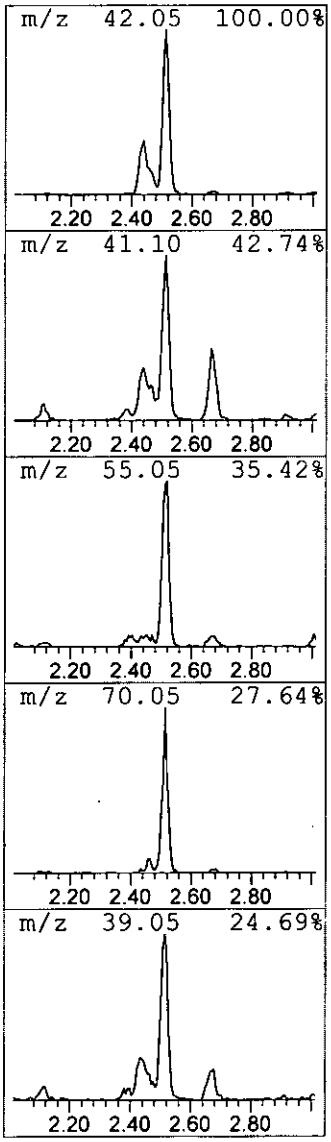
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Peak Number 2 Cyclopentane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.513	9.96 ug/L	550068	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
* 1	Cyclopentane	70	C5H10	000287-92-3	72
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	64
3	Cyclopropane, ethyl-	70	C5H10	001191-96-4	50
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	39
5	1-Pentene	70	C5H10	000109-67-1	9





Library Search Compound Report

Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

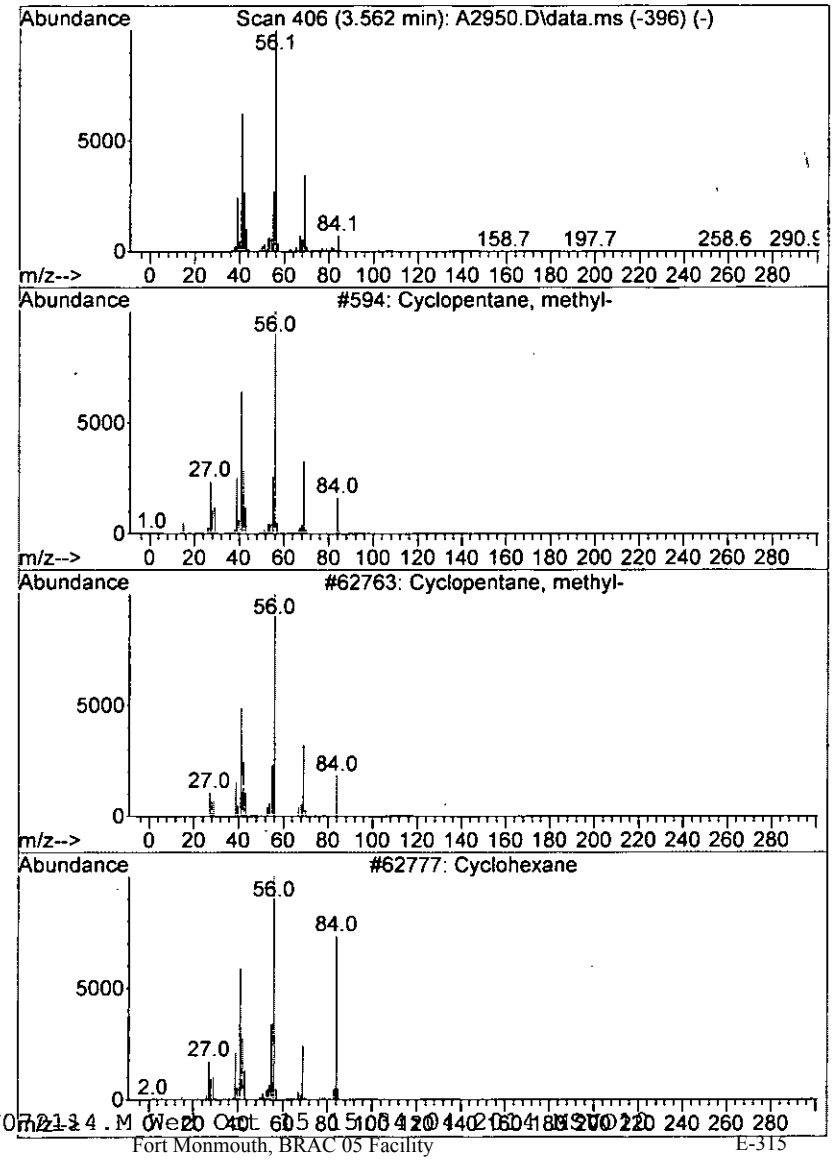
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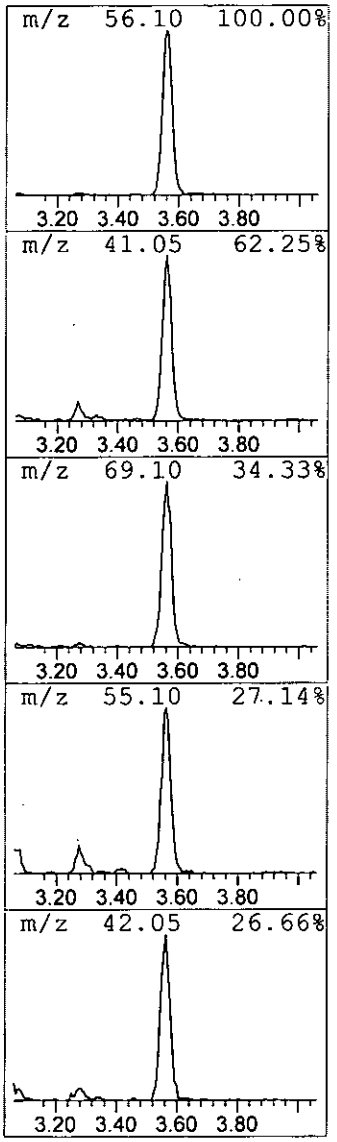
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Peak Number 3 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.562	14.86 ug/L	820651	Pentafluorobenzene	4.409

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
3	Cyclohexane	84	C6H12	000110-82-7	83
4	Cyclohexane	84	C6H12	000110-82-7	83
5	Cyclopropane, propyl-	84	C6H12	002415-72-7	78





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

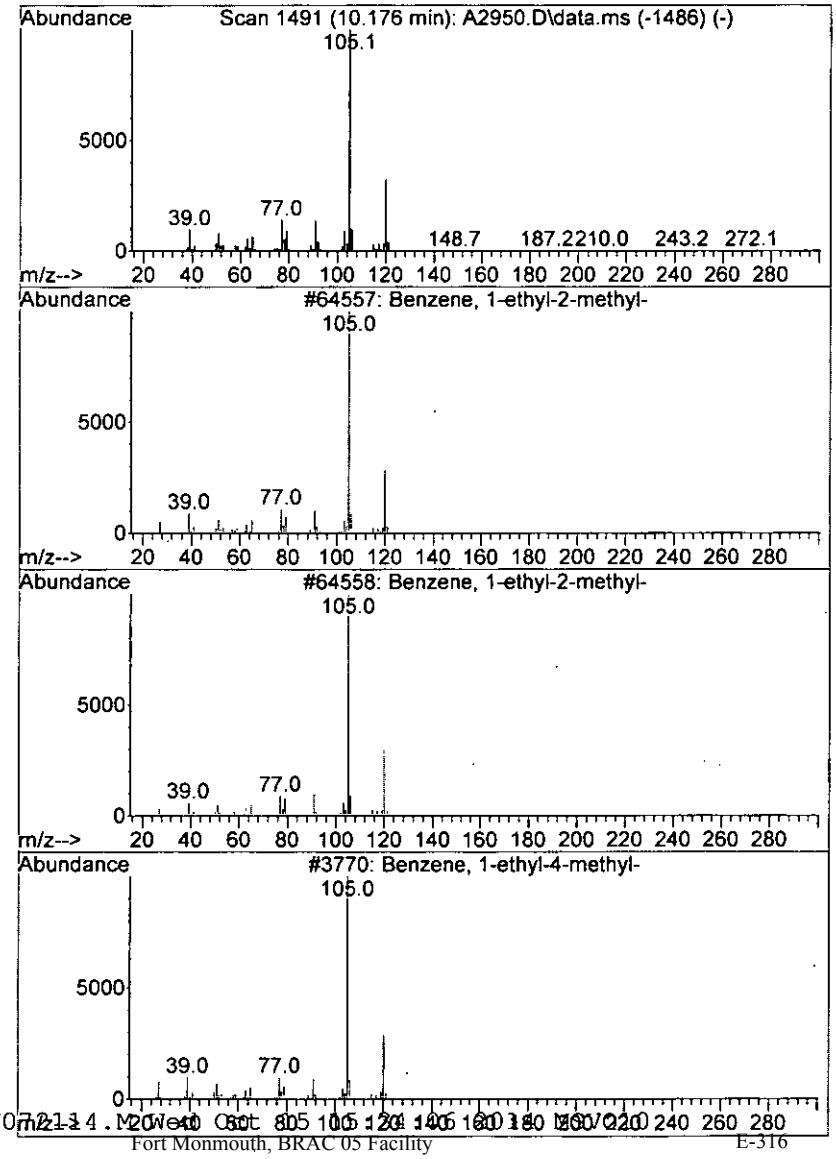
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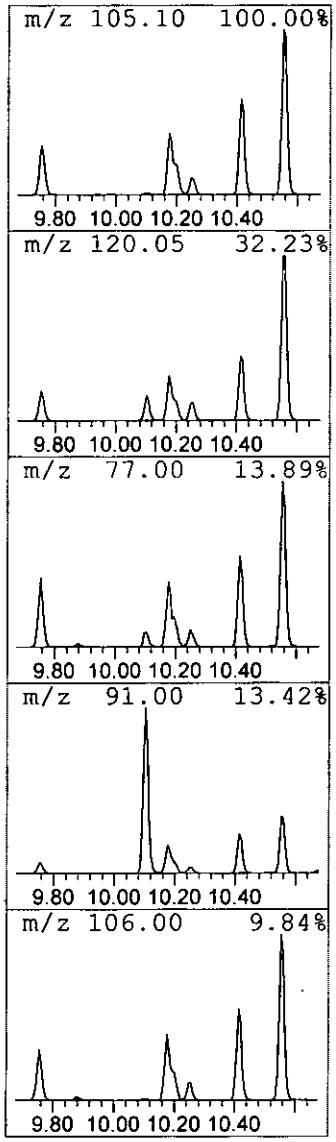
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Peak Number 4 Benzene, 1-ethyl-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.177	26.76 ug/L	2426840	1,4-Dichlorobenzene-d4	10.835

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-3-methyl-	120	C9H12	000620-14-4	95





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

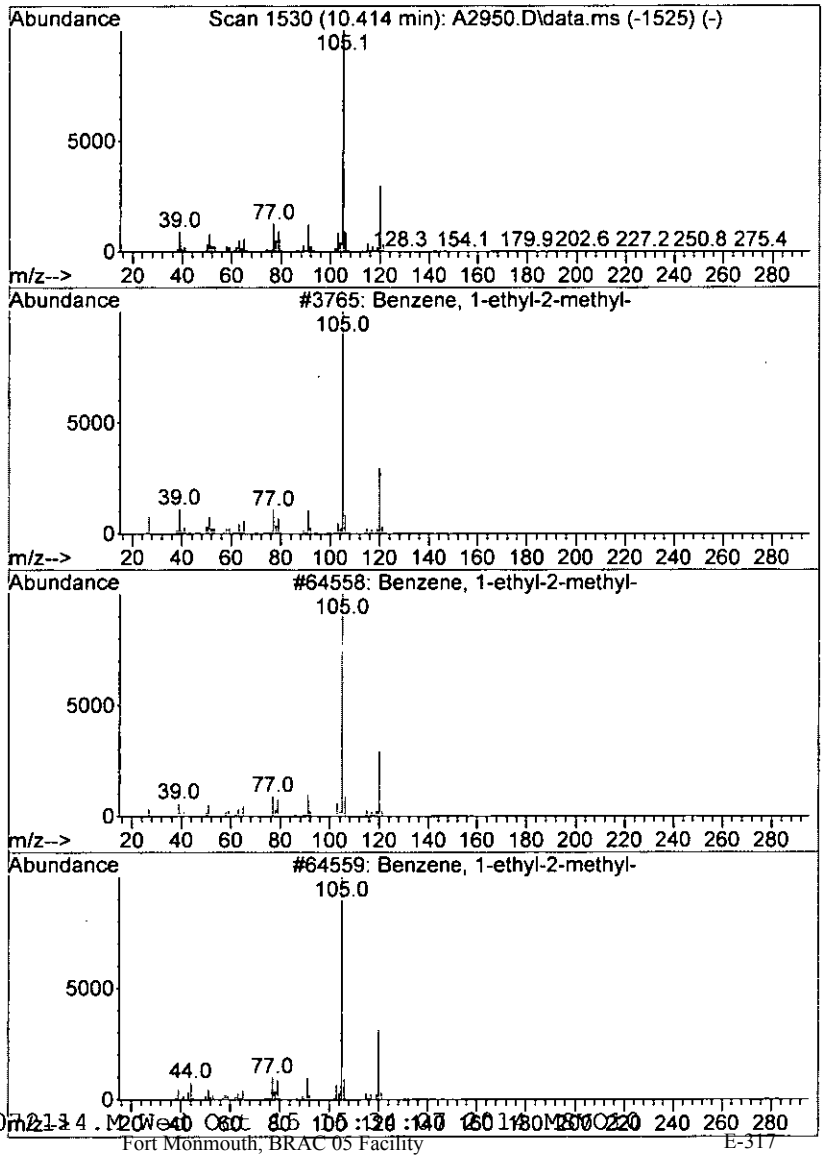
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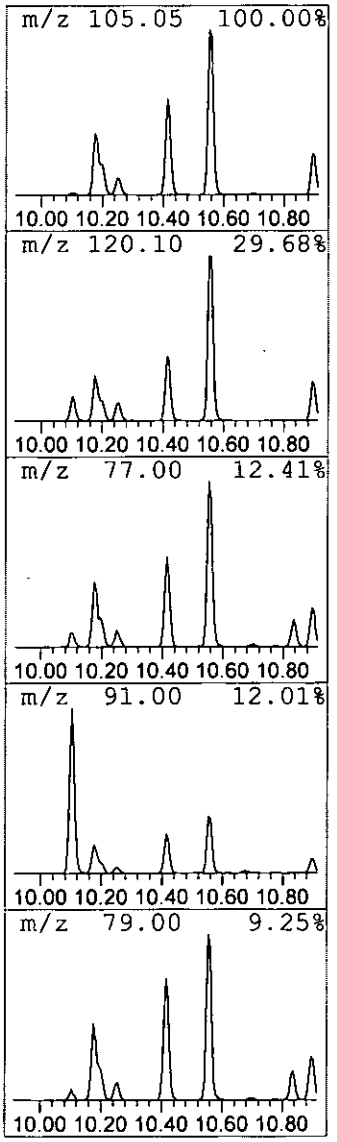
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Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.414	28.88 ug/L	2619210	1,4-Dichlorobenzene-d4	10.835

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





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

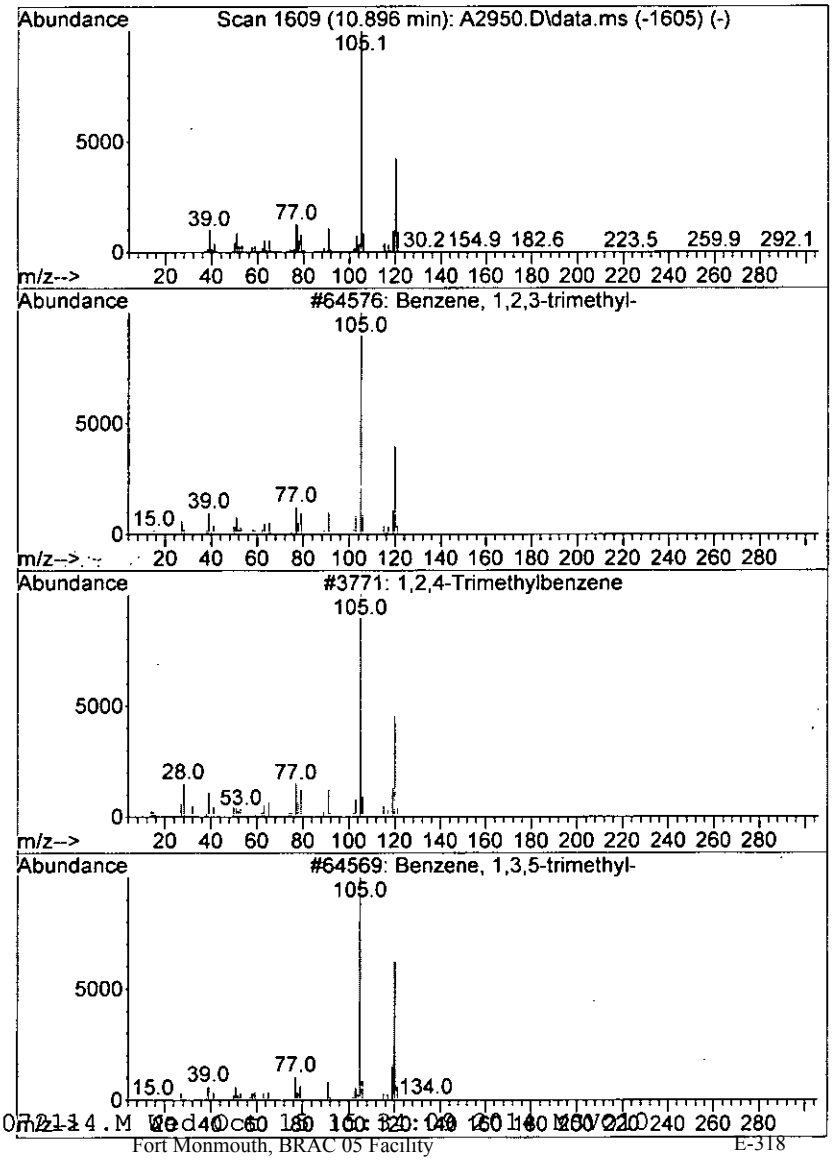
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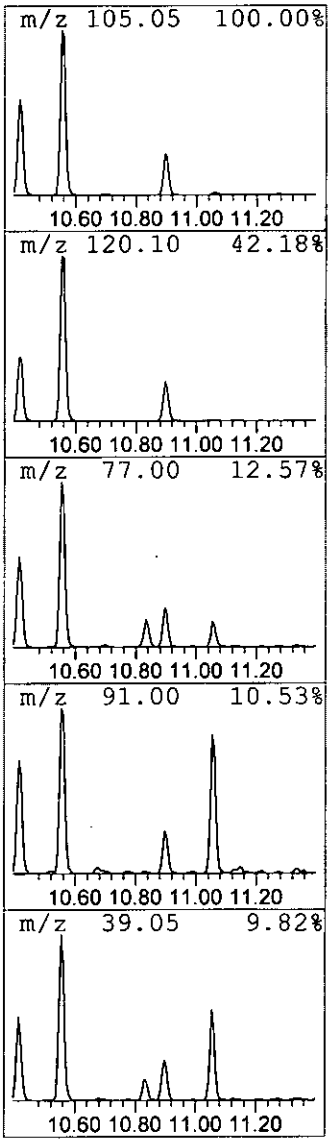
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Peak Number 6 Benzene, 1,2,3-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.896	13.94 ug/L	1263970	1,4-Dichlorobenzene-d4	10.835

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	94
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	94
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
5	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2950.D
Acq On : 14 Oct 2014 3:37 pm
Operator : F.NAEGLER
Sample : R1407806-009|1.0
Misc : PARSONS 11603 T4
ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

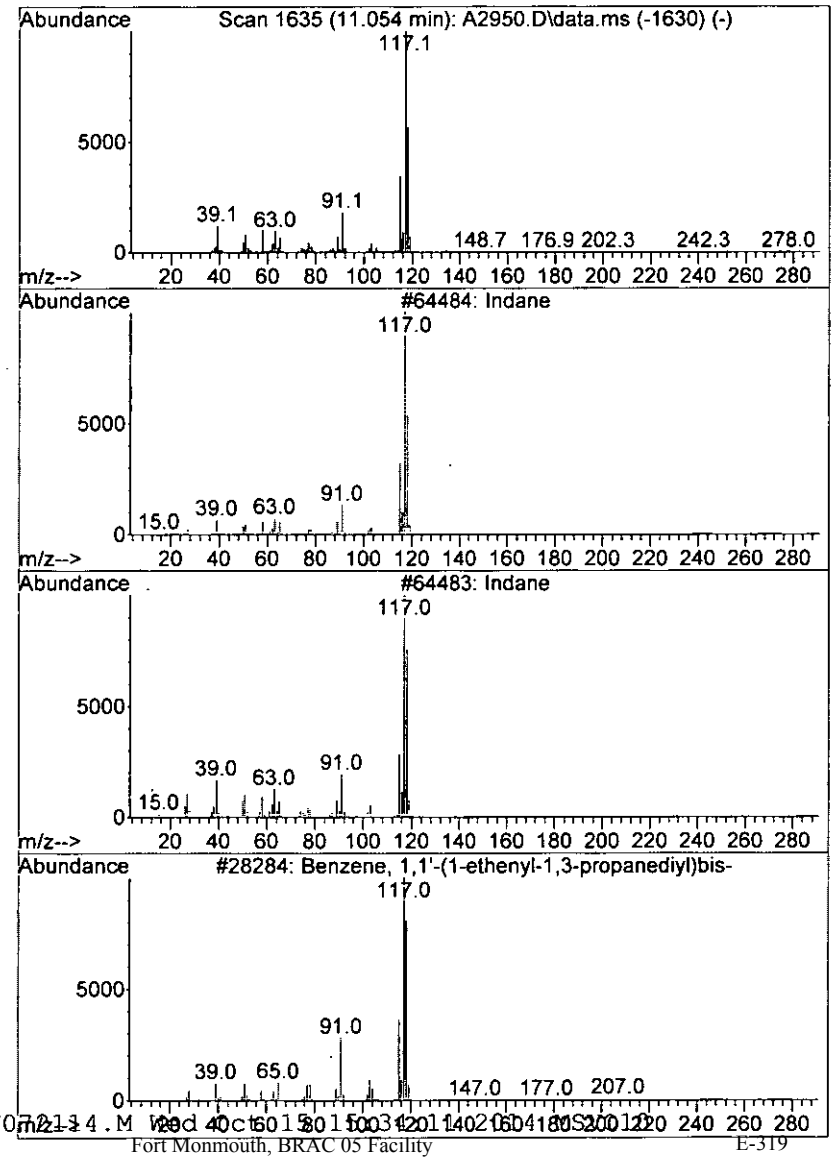
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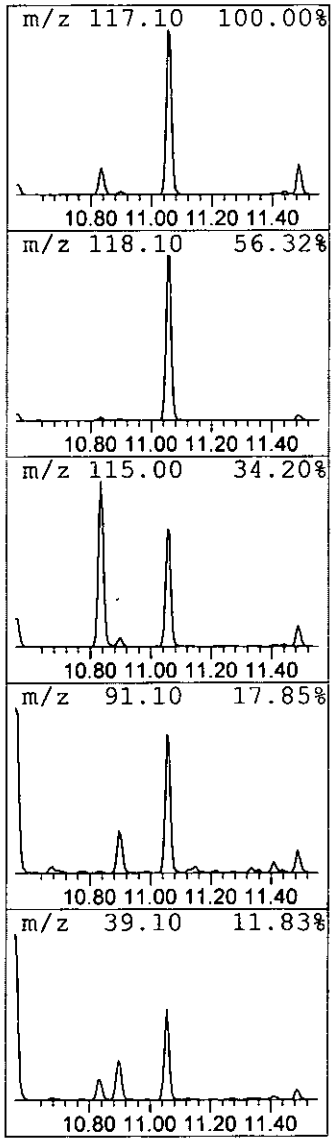
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Peak Number 7 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.054	30.33 ug/L	2751020	1,4-Dichlorobenzene-d4	10.835

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, 1,1'-(1-ethenyl-1,3-pro...	222	C17H18	061141-97-7	78
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	76
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	74





W072114.M Wed Oct 15 15:03:11 2014 MSVOA10

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1015
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 19:25

Sample Name: FTMM-68-GW-565MW01-11.99
Lab Code: R1407806-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2781.D\

Analysis Lot: 415420
Instrument Name: R-MS-10
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	25	5.0	1.1	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	25	5.0	1.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	25	5.0	1.3	
79-00-5	1,1,2-Trichloroethane	ND	U	25	5.0	1.8	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	25	5.0	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**3.2**	J	25	5.0	2.9	
563-58-6	1,1-Dichloropropene	ND	U	25	5.0	1.5	
87-61-6	1,2,3-Trichlorobenzene	ND	U	25	5.0	4.1	
96-18-4	1,2,3-Trichloropropane	ND	U	25	5.0	3.5	
120-82-1	1,2,4-Trichlorobenzene	ND	U	25	5.0	1.2	
95-63-6	1,2,4-Trimethylbenzene	ND	U	25	5.0	1.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	25	5.0	3.7	
106-93-4	1,2-Dibromoethane	ND	U	25	5.0	1.2	
95-50-1	1,2-Dichlorobenzene	ND	U	25	5.0	1.1	
107-06-2	1,2-Dichloroethane	ND	U	25	5.0	1.8	
78-87-5	1,2-Dichloropropane	ND	U	25	5.0	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	U	25	5.0	1.0	
541-73-1	1,3-Dichlorobenzene	ND	U	25	5.0	1.0	
142-28-9	1,3-Dichloropropane	ND	U	25	5.0	1.4	
106-46-7	1,4-Dichlorobenzene	ND	U	25	5.0	1.0	
594-20-7	2,2-Dichloropropane	ND	U	25	5.0	1.4	
78-93-3	2-Butanone (MEK)	ND	U	25	5.0	4.1	
95-49-8	2-Chlorotoluene	ND	U	25	5.0	1.0	
591-78-6	2-Hexanone	ND	U	25	25	8.3	
75-65-0	tert-Butyl Alcohol	ND	U	500	100	54	
106-43-4	4-Chlorotoluene	ND	U	25	5.0	1.2	
99-87-6	p-Isopropyltoluene	ND	U	25	5.0	1.0	
108-10-1	4-Methyl-2-pentanone	ND	U	25	5.0	3.4	
67-64-1	Acetone	**13**	J	25	25	6.2	
71-43-2	Benzene	ND	U	25	5.0	1.0	
108-86-1	Bromobenzene	ND	U	25	5.0	1.5	
74-97-5	Bromochloromethane	ND	U	25	5.0	1.6	
75-27-4	Bromodichloromethane	ND	U	25	5.0	1.6	
75-25-2	Bromoform	ND	U	25	5.0	2.1	
74-83-9	Bromomethane	ND	U	25	5.0	1.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1015
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 19:25
Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1407806-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2781.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	25	5.0	2.3	
108-90-7	Chlorobenzene	ND	U	25	5.0	1.5	
75-00-3	Chloroethane	ND	U	25	5.0	1.2	
67-66-3	Chloroform	ND	U	25	5.0	1.3	
74-87-3	Chloromethane	ND	U	25	5.0	1.1	
124-48-1	Dibromochloromethane	ND	U	25	5.0	1.6	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	25	5.0	2.4	
75-09-2	Methylene Chloride	ND	U	25	5.0	1.6	
100-41-4	Ethylbenzene	ND	U	25	5.0	1.0	
87-68-3	Hexachlorobutadiene	ND	U	25	5.0	3.1	
98-82-8	Isopropylbenzene (Cumene)	ND	U	25	5.0	1.0	
1634-04-4	Methyl tert-Butyl Ether	ND	U	25	5.0	1.5	
91-20-3	Naphthalene	ND	U	25	5.0	1.0	
100-42-5	Styrene	ND	U	25	5.0	1.0	
127-18-4	Tetrachloroethene (PCE)	**700**		25	5.0	1.5	
108-88-3	Toluene	ND	U	25	5.0	1.0	
79-01-6	Trichloroethene (TCE)	**210**		25	5.0	1.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	25	5.0	1.0	
75-01-4	Vinyl Chloride	**16**	J	25	5.0	1.6	
156-59-2	cis-1,2-Dichloroethene	**210**		25	5.0	1.5	
10061-01-5	cis-1,3-Dichloropropene	ND	U	25	5.0	1.2	
179601-23-1	m,p-Xylenes	ND	U	50	10	1.7	
104-51-8	n-Butylbenzene	ND	U	25	5.0	1.1	
103-65-1	n-Propylbenzene	ND	U	25	5.0	1.0	
95-47-6	o-Xylene	ND	U	25	5.0	1.0	
135-98-8	sec-Butylbenzene	ND	U	25	5.0	1.4	
98-06-6	tert-Butylbenzene	ND	U	25	5.0	1.0	
156-60-5	trans-1,2-Dichloroethene	ND	U	25	5.0	1.7	
10061-02-6	trans-1,3-Dichloropropene	ND	U	25	5.0	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1015
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 19:25
Sample Name:	FTMM-68-GW-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1407806-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2781.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 19:25	
Dibromofluoromethane	106	85-115	10/9/14 19:25	
Toluene-d8	101	85-120	10/9/14 19:25	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1925

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

Sample Name: FTMM-68-GW-565MW01-11.99
Lab Code: R1407806-010

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Printed 10/24/2014 13:02

Form 1B

Quantitation Report (QT Reviewed)

Sample : R1407806-010|5.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2781.D Vial: 20
Acq On : 9 Oct 2014 7:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:58:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

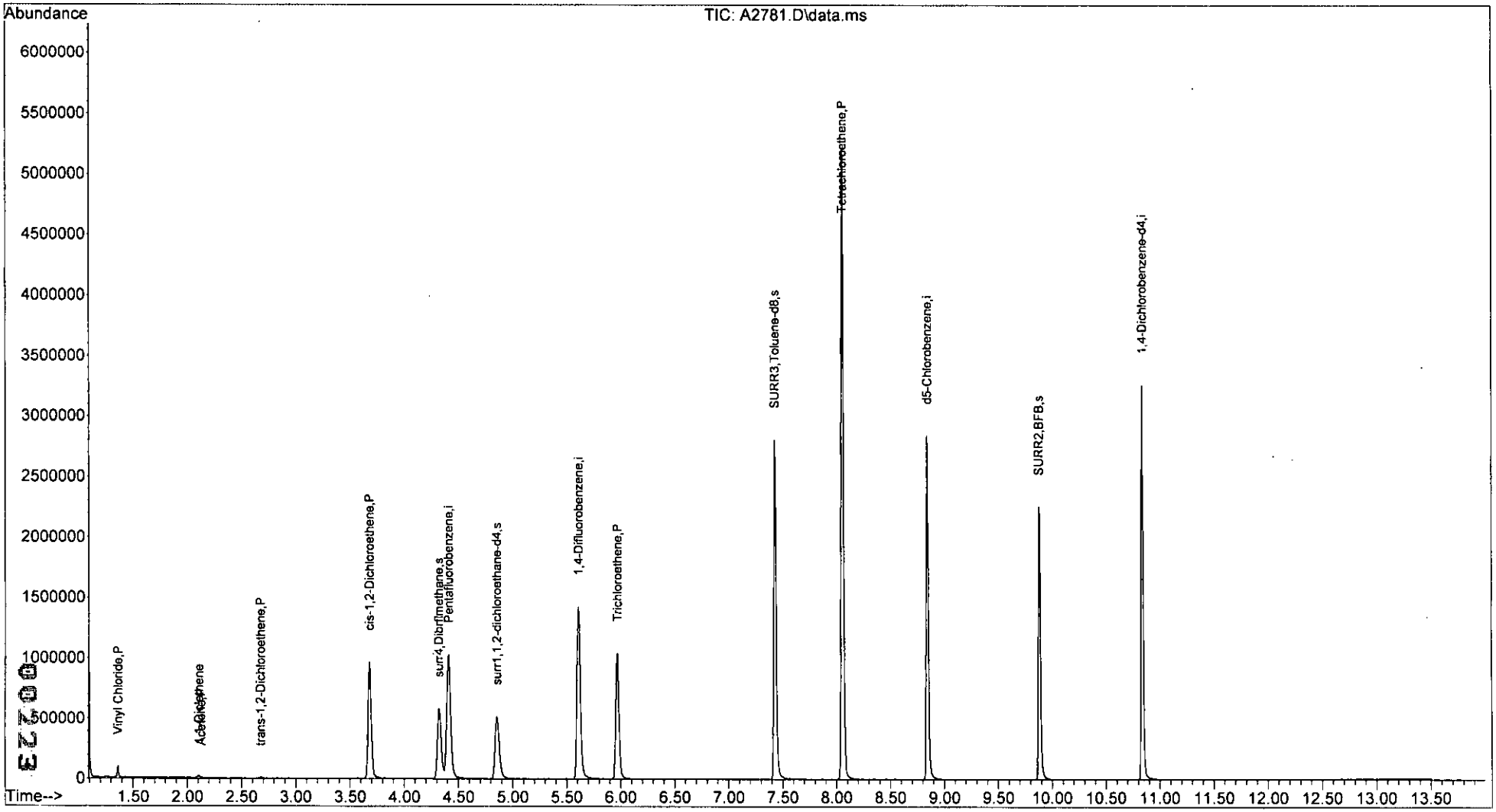
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	935851	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1315883	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1167969	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	611496	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	444537	52.98	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.96%			
48) surr1,1,2-dichloroetha...	4.854	65	508032	57.37	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.74%			
65) SURR3,Toluene-d8	7.427	98	1487247	50.33	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.66%			
70) SURR2,BFB	9.878	95	581189	49.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.96%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.361	62	38994	3.18	ug/L	94
13) 1,1-Diclethene	2.105	96	4193	0.64	ug/L	94
15) Acetone	2.123	43	7368	2.59	ug/L	98
26) trans-1,2-Dichloroethene	2.672	96	2465	0.29	ug/L #	67
34) cis-1,2-Dichloroethene	3.678	96	385845	41.96	ug/L	85
54) Trichloroethene	5.970	130	371113	41.38	ug/L	99
72) Tetrachloroethene	8.055	164	947345	140.26	ug/L	98

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

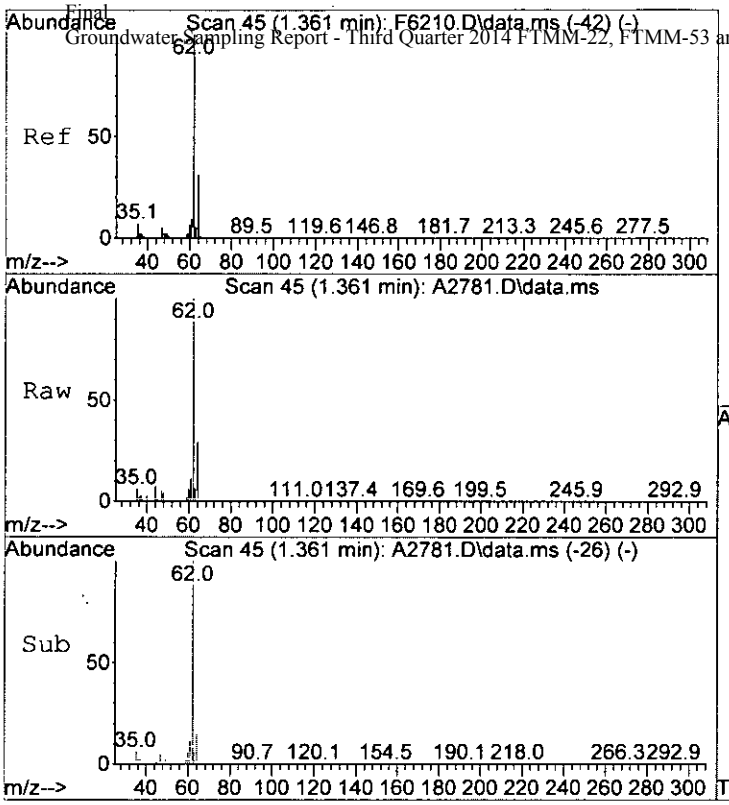
Quantitation Report (QT Reviewed)

Sample : R1407806-010|5.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2781.D Vial: 20
Acq On : 9 Oct 2014 7:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:58:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



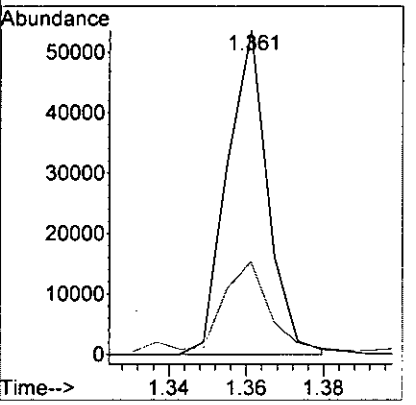
W072114.M Tue Oct 14 14:59:01 2014 MSVO10 Page: 2

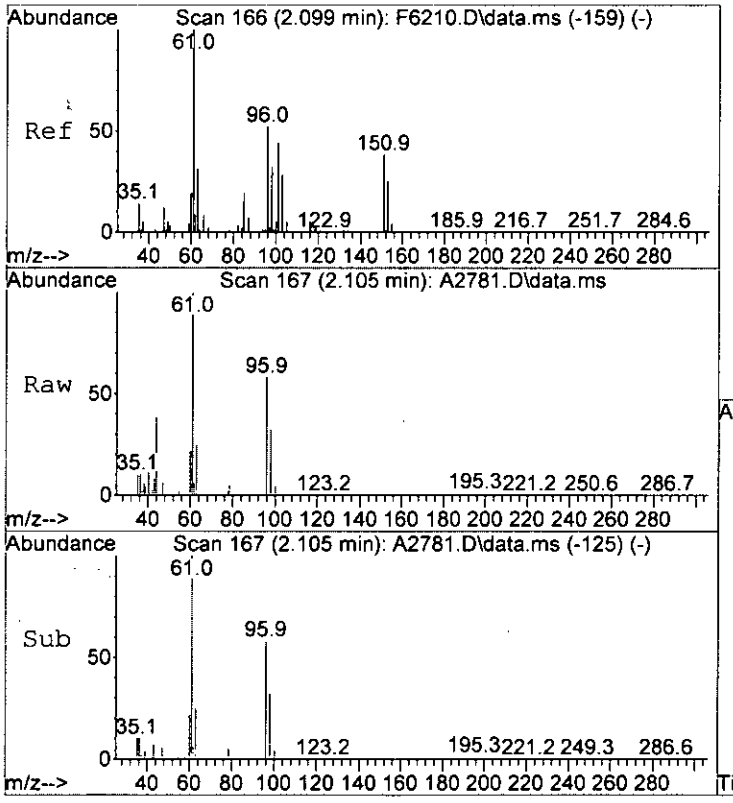


#4
Vinyl Chloride
Concen: 3.18 ug/L
RT: 1.361 min Scan# 45
Delta R.T. -0.000 min
Lab File: A2781.D
Acq: 9 Oct 2014 7:25 pm

Tgt Ion: 62 Resp: 38994

Ion	Ratio	Lower	Upper
62	100		
64	28.6	12.0	52.0

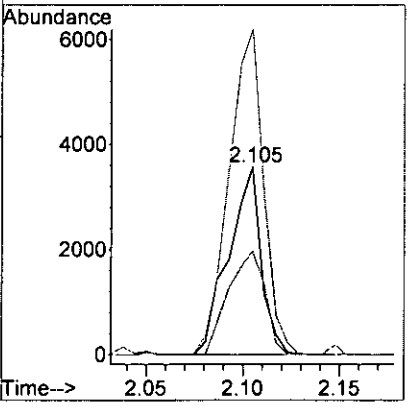




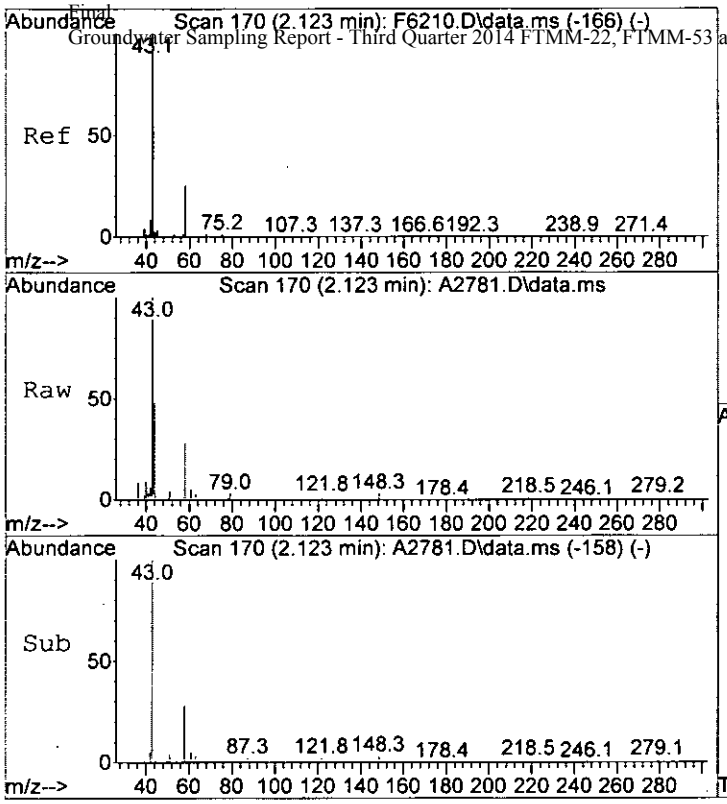
#13
1,1-Diclethene
Concen: 0.64 ug/L
RT: 2.105 min Scan# 167
Delta R.T. 0.006 min
Lab File: A2781.D
Acq: 9 Oct 2014 7:25 pm

Tgt Ion: 96 Resp: 4193

Ion	Ratio	Lower	Upper
96	100		
98	55.1	47.5	87.5
61	173.6	149.6	189.6



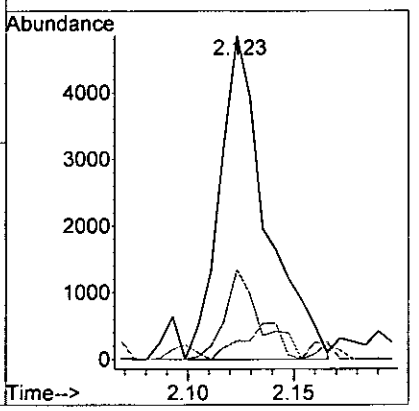
A2781.D W072114.M Tue Oct 14 14:59:03 2014 MSVO10 Page 3

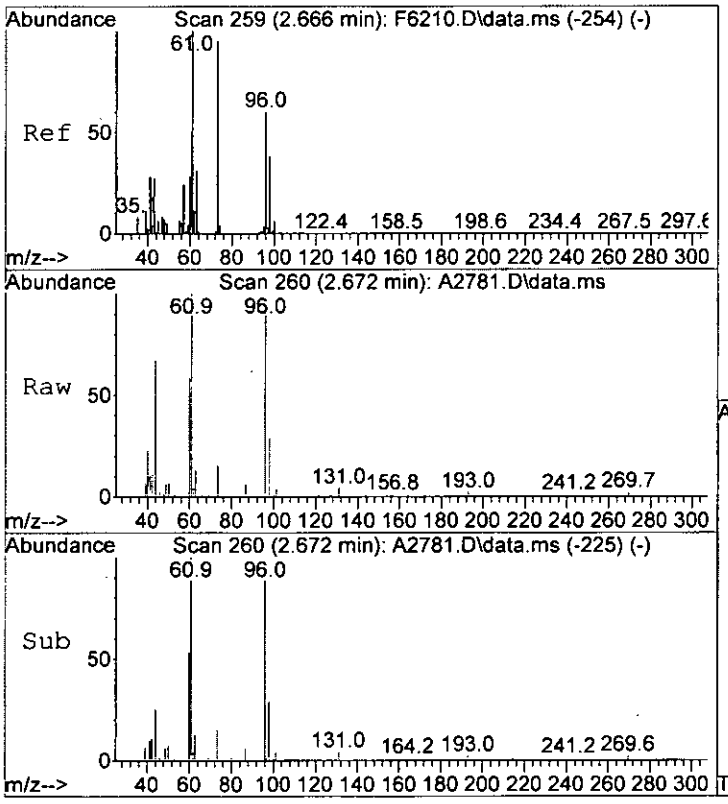


#15
Acetone
Concen: 2.59 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2781.D
Acq: 9 Oct 2014 7:25 pm

Tgt Ion: 43 Resp: 7368

Ion	Ratio	Lower	Upper
43	100		
58	27.8	7.2	47.2
42	5.6	0.0	27.0

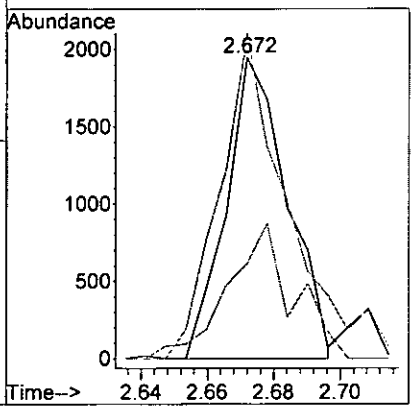


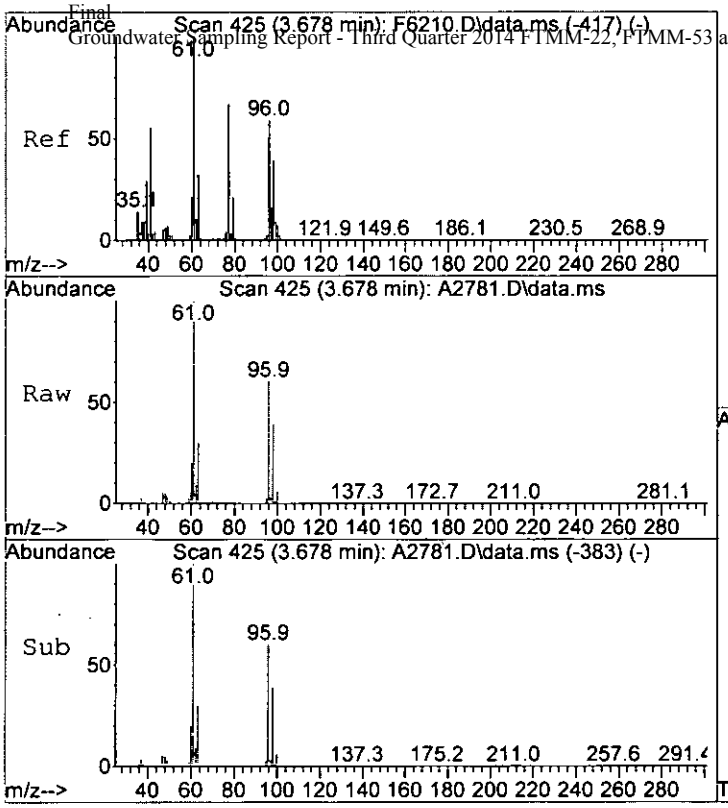


#26
trans-1,2-Dichloroethene
Concen: 0.29 ug/L
RT: 2.672 min Scan# 260
Delta R.T. 0.006 min
Lab File: A2781.D
Acq: 9 Oct 2014 7:25 pm

Tgt Ion: 96 Resp: 2465

Ion	Ratio	Lower	Upper
96	100		
98	31.3	44.0	84.0#
61	108.0	124.3	164.3#

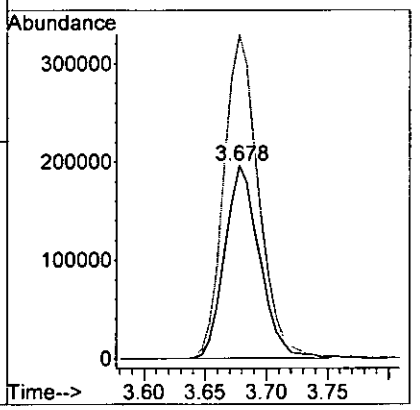


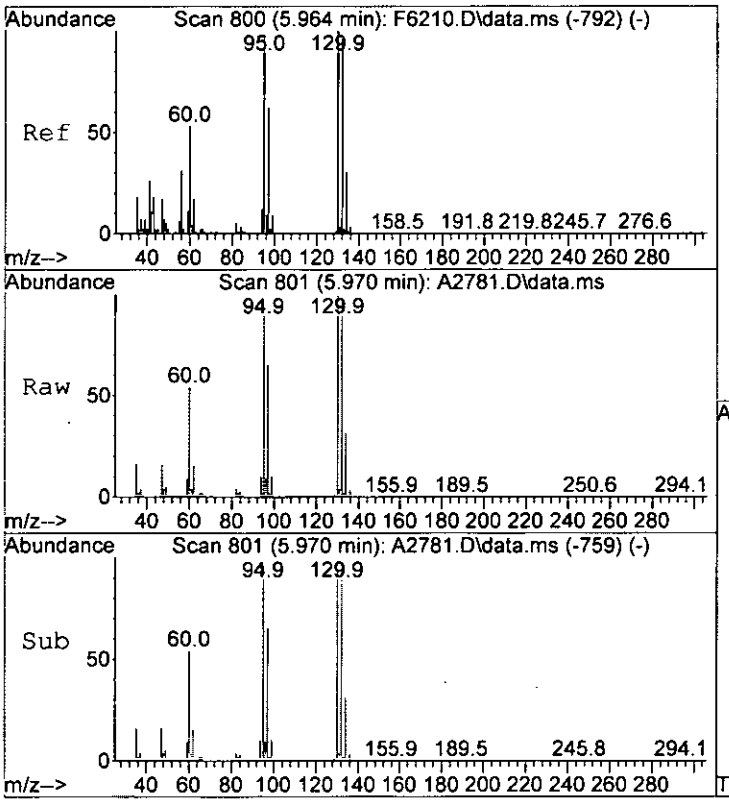


#34
cis-1,2-Dichloroethene
Concen: 41.96 ug/L
RT: 3.678 min Scan# 425
Delta R.T. -0.000 min
Lab File: A2781.D
Acq: 9 Oct 2014 7:25 pm

Tgt Ion: 96 Resp: 385845

Ion	Ratio	Lower	Upper
96	100		
61	167.6	128.3	168.3

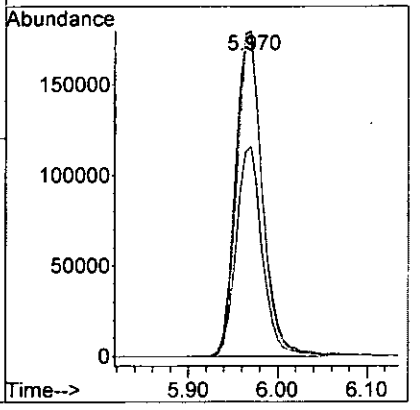




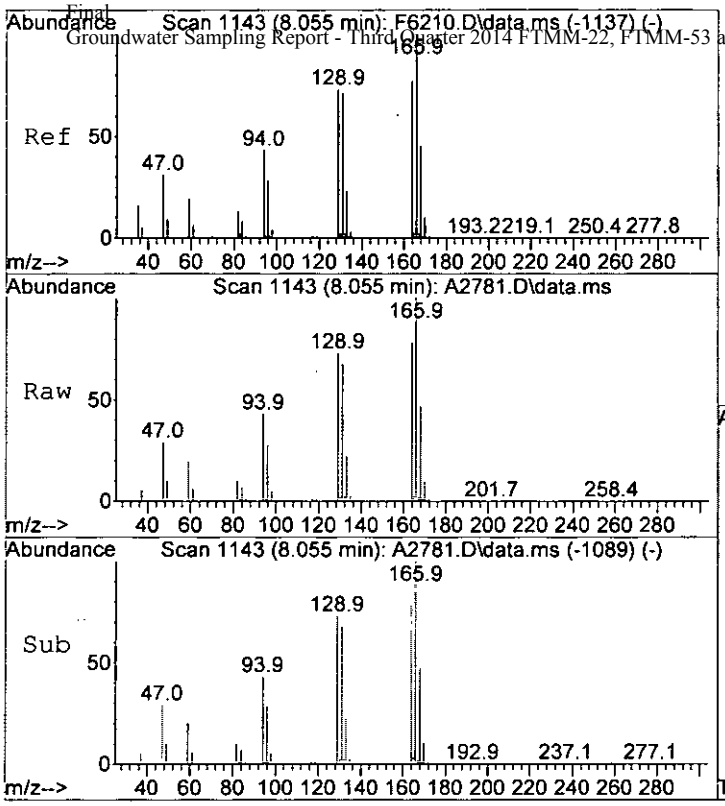
#54
Trichloroethene
Concen: 41.38 ug/L
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: A2781.D
Acq: 9 Oct 2014 7:25 pm

Tgt Ion:130 Resp: 371113

Ion	Ratio	Lower	Upper
130	100		
132	96.9	74.1	114.1
95	97.1	76.9	116.9
97	64.5	43.7	83.7



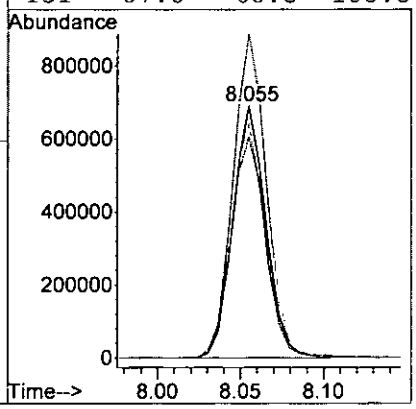
A2781.D W072114.M Tue Oct 14 14:59:05 2014 MSVO10



#72
Tetrachloroethene
Concen: 140.26 ug/L
RT: 8.055 min Scan# 1143
Delta R.T. -0.000 min
Lab File: A2781.D
Acq: 9 Oct 2014 7:25 pm

Tgt Ion:164 Resp: 947345

Ion	Ratio	Lower	Upper
164	100		
166	128.5	106.8	146.8
129	93.2	69.6	109.6
131	87.8	68.5	108.5



A2781.D W072114.M Tue Oct 14 14:59:06 2014 MSVO10

00227

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2781.D
Acq On : 9 Oct 2014 7:25 pm
Operator : F.NAEGLER
Sample : R1407806-010|5.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2781.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.678	418	425	437	rBV	963381	1926369	26.21%	5.486%
2	4.318	521	530	538	rBV2	579846	1434288	19.51%	4.085%
3	4.409	538	545	563	rVB	1021596	2622292	35.68%	7.468%
4	4.854	609	618	639	rBV2	514053	1399753	19.04%	3.986%
5	5.610	735	742	757	rBV	1423750	3214810	43.74%	9.155%
6	5.970	793	801	814	rBV	1038153	2103821	28.62%	5.991%
7	7.427	1035	1040	1059	rBV	2802976	4254294	57.88%	12.115%
8	8.055	1136	1143	1164	rBV	5196821	7349860	100.00%	20.931%
9	8.841	1267	1272	1290	rBV	2838696	3835855	52.19%	10.924%
10	9.878	1438	1442	1458	rBV	2251380	3013571	41.00%	8.582%
11	10.835	1594	1599	1615	rBV	3258185	3959973	53.88%	11.277%

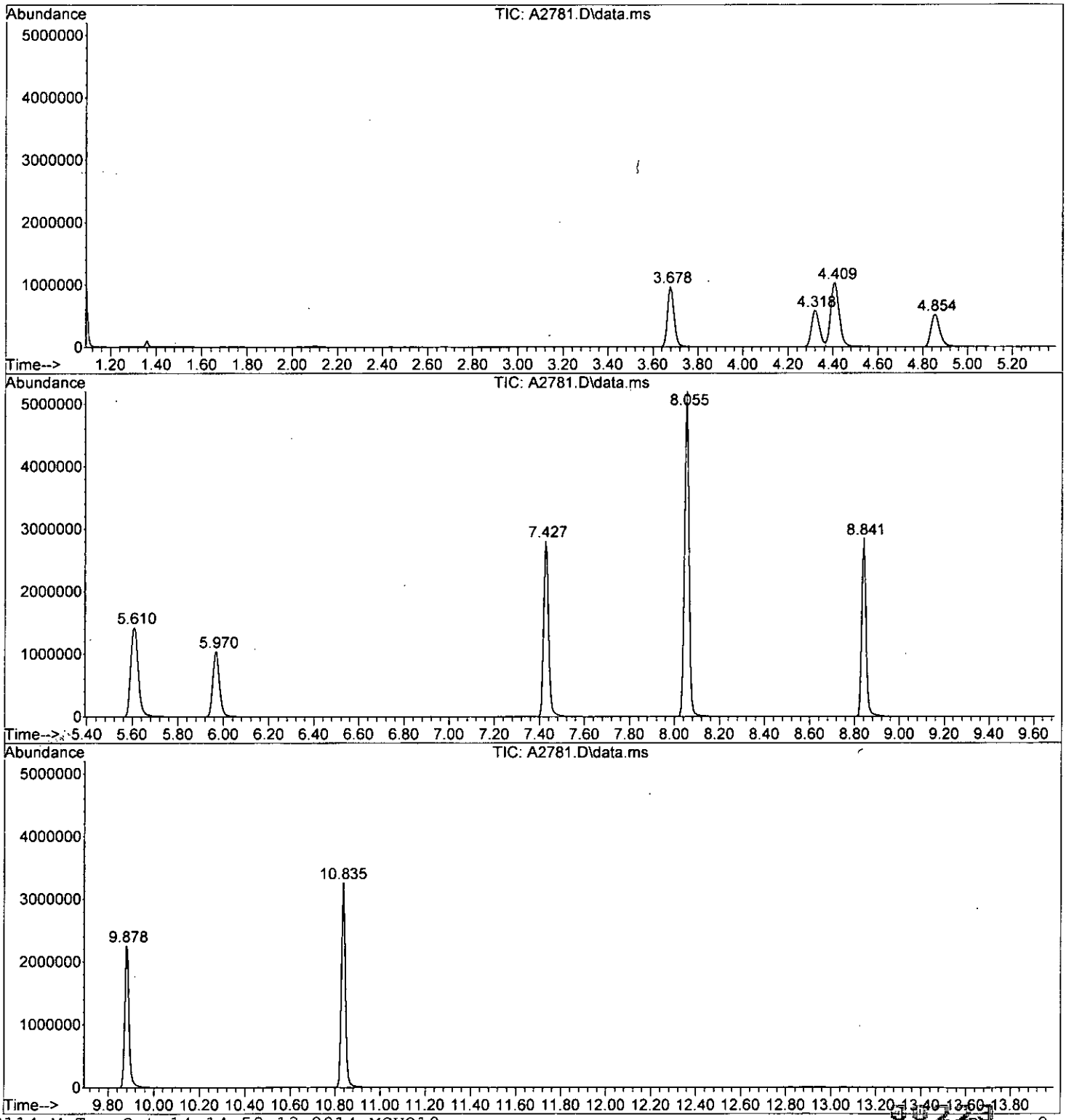
Sum of corrected areas: 35114886

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2781.D
Acq On : 9 Oct 2014 7:25 pm
Operator : F.NAEGLER
Sample : R1407806-010|5.0
Misc : PARSONS 11603 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:59:13 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2781.D
Acq On : 9 Oct 2014 7:25 pmm
Operator : F.NAEGLERR
Sample : R1407806-010|5.0
Misc : PARSONS 11603 T44
ALS Vial : 20 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:28
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1407806-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2771.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	250	50	11	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	250	50	18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	250	50	13	
79-00-5	1,1,2-Trichloroethane	ND	U	250	50	17	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	250	50	10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	250	50	29	
563-58-6	1,1-Dichloropropene	ND	U	250	50	15	
87-61-6	1,2,3-Trichlorobenzene	ND	U	250	50	41	
96-18-4	1,2,3-Trichloropropane	ND	U	250	50	35	
120-82-1	1,2,4-Trichlorobenzene	ND	U	250	50	12	
95-63-6	1,2,4-Trimethylbenzene	ND	U	250	50	10	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	250	50	37	
106-93-4	1,2-Dibromoethane	ND	U	250	50	12	
95-50-1	1,2-Dichlorobenzene	ND	U	250	50	11	
107-06-2	1,2-Dichloroethane	ND	U	250	50	18	
78-87-5	1,2-Dichloropropane	ND	U	250	50	10	
108-67-8	1,3,5-Trimethylbenzene	ND	U	250	50	10	
541-73-1	1,3-Dichlorobenzene	ND	U	250	50	10	
142-28-9	1,3-Dichloropropane	ND	U	250	50	14	
106-46-7	1,4-Dichlorobenzene	ND	U	250	50	10	
594-20-7	2,2-Dichloropropane	ND	U	250	50	14	
78-93-3	2-Butanone (MEK)	ND	U	250	50	41	
95-49-8	2-Chlorotoluene	ND	U	250	50	10	
591-78-6	2-Hexanone	ND	U	250	250	83	
75-65-0	tert-Butyl Alcohol	ND	U	5000	1000	540	
106-43-4	4-Chlorotoluene	ND	U	250	50	12	
99-87-6	p-Isopropyltoluene	ND	U	250	50	10	
108-10-1	4-Methyl-2-pentanone	ND	U	250	50	34	
67-64-1	Acetone	ND	U	250	250	62	
71-43-2	Benzene	ND	U	250	50	10	
108-86-1	Bromobenzene	ND	U	250	50	15	
74-97-5	Bromochloromethane	ND	U	250	50	16	
75-27-4	Bromodichloromethane	ND	U	250	50	16	
75-25-2	Bromoform	ND	U	250	50	21	
74-83-9	Bromomethane	ND	U	250	50	15	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:28
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1407806-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2771.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	ND	U	250	50	23	
108-90-7	Chlorobenzene	ND	U	250	50	15	
75-00-3	Chloroethane	ND	U	250	50	12	
67-66-3	Chloroform	ND	U	250	50	13	
74-87-3	Chloromethane	ND	U	250	50	11	
124-48-1	Dibromochloromethane	ND	U	250	50	16	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	250	50	23	
75-09-2	Methylene Chloride	ND	U	250	50	16	
100-41-4	Ethylbenzene	ND	U	250	50	10	
87-68-3	Hexachlorobutadiene	ND	U	250	50	31	
98-82-8	Isopropylbenzene (Cumene)	ND	U	250	50	10	
1634-04-4	Methyl tert-Butyl Ether	ND	U	250	50	15	
91-20-3	Naphthalene	ND	U	250	50	10	
100-42-5	Styrene	ND	U	250	50	10	
127-18-4	Tetrachloroethene (PCE)	**4800**		250	50	15	
108-88-3	Toluene	ND	U	250	50	10	
79-01-6	Trichloroethene (TCE)	**18**	J	250	50	11	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	250	50	10	
75-01-4	Vinyl Chloride	ND	U	250	50	16	
156-59-2	cis-1,2-Dichloroethene	ND	U	250	50	15	
10061-01-5	cis-1,3-Dichloropropene	ND	U	250	50	12	
179601-23-1	m,p-Xylenes	ND	U	500	100	17	
104-51-8	n-Butylbenzene	ND	U	250	50	11	
103-65-1	n-Propylbenzene	ND	U	250	50	10	
95-47-6	o-Xylene	ND	U	250	50	10	
135-98-8	sec-Butylbenzene	ND	U	250	50	14	
98-06-6	tert-Butylbenzene	ND	U	250	50	10	
156-60-5	trans-1,2-Dichloroethene	ND	U	250	50	17	
10061-02-6	trans-1,3-Dichloropropene	ND	U	250	50	10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 14:28
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1407806-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2771.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 14:28	
Dibromofluoromethane	106	85-115	10/9/14 14:28	
Toluene-d8	102	85-120	10/9/14 14:28	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1428

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

Sample Name: FTMM-68-GW-565MW01D-22.31
Lab Code: R1407806-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-011|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2771.D Vial: 10
Acq On : 9 Oct 2014 2:28 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:10:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	933871	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1311452	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.842	117	1187344	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	619829	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	443829	53.07	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.14%			
48) surr1,1,2-dichloroetha...	4.854	65	504151	57.13	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.26%			
65) SURR3,Toluene-d8	7.427	98	1501588	50.98	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.96%			
70) SURR2,BFB	9.878	95	596178	51.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.88%			
Target Compounds						Qvalue
54) Trichloroethene	5.988	130	3190	0.36	ug/L #	84
72) Tetrachloroethene	8.055	164	655422	95.45	ug/L	99

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

FJ
10/14/14

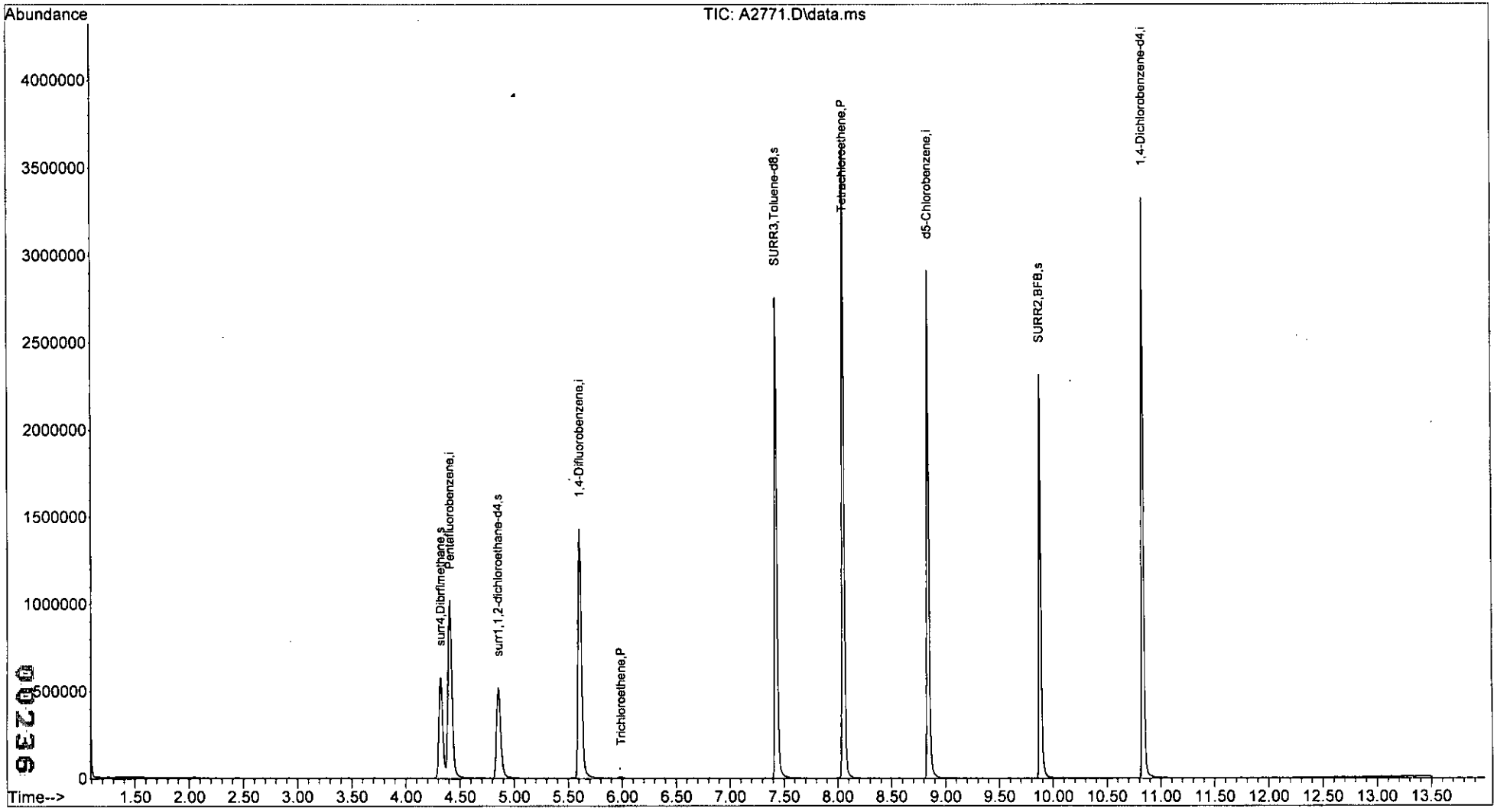
W072114.M Tue Oct 14 14:11:12 2014 MSVO10 Page: 1

00235

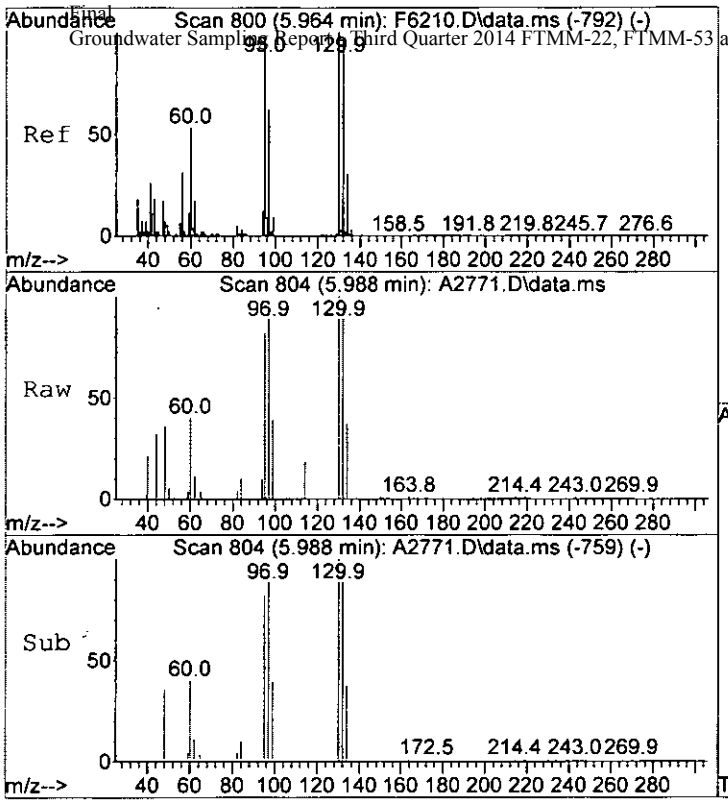
Quantitation Report (QT Reviewed)

Sample : R1407806-011|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2771.D Vial: 10
Acq On : 9 Oct 2014 2:28 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:10:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



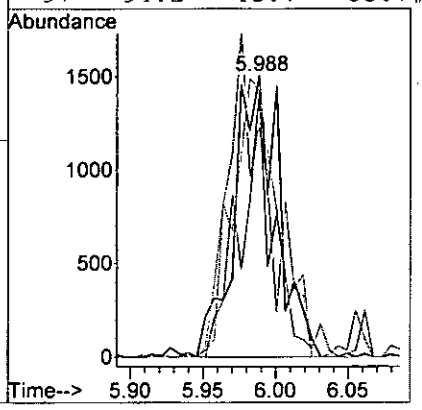
W072114.M Tue Oct 14 14:11:13 2014 MSVO10 Page: 2

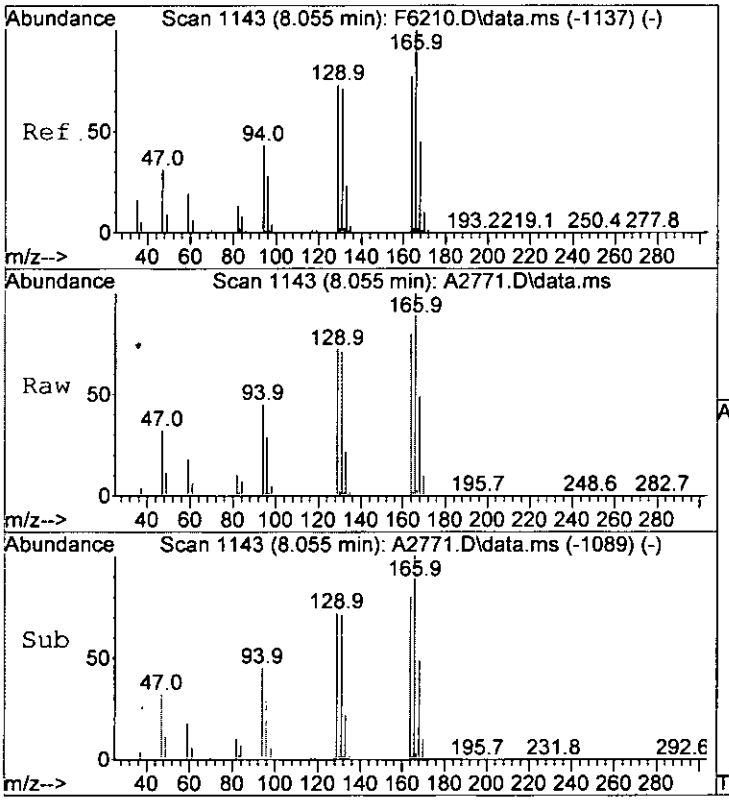


#54
Trichloroethene
Concen: 0.36 ug/L
RT: 5.988 min Scan# 804
Delta R.T. 0.024 min
Lab File: A2771.D
Acq: 9 Oct 2014 2:28 pm

Tgt Ion:130 Resp: 3190

Ion	Ratio	Lower	Upper
130	100		
132	95.5	74.1	114.1
95	82.5	76.9	116.9
97	94.2	43.7	83.7#

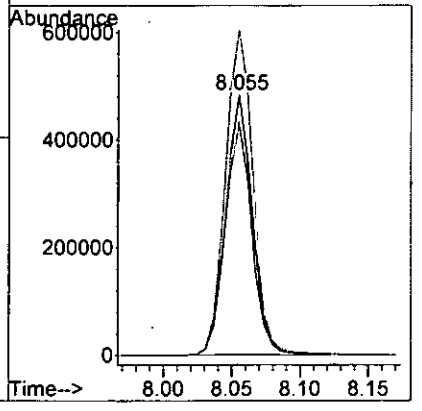




#72
Tetrachloroethene
Concen: 95.45 ug/L
RT: 8.055 min Scan# 1143
Delta R.T. 0.000 min
Lab File: A2771.D
Acq: 9 Oct 2014 2:28 pm

Tgt Ion:164 Resp: 655422

Ion	Ratio	Lower	Upper
164	100		
166	124.9	106.8	146.8
129	89.9	69.6	109.6
131	88.3	68.5	108.5



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2771.D
Acq On : 9 Oct 2014 2:28 pm
Operator : F.NAEGLER
Sample : R1407806-011|50.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2771.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.324	522	531	538	rBV	577986	1418979	28.35%	4.917%
2	4.409	538	545	561	rVB	1014959	2603657	52.01%	9.021%
3	4.854	609	618	634	rBV	517197	1396856	27.90%	4.840%
4	5.610	734	742	765	rBV	1431532	3223866	64.40%	11.170%
5	7.427	1035	1040	1055	rBV	2753313	4268501	85.27%	14.790%
6	8.055	1137	1143	1158	rBV	3598684	5005836	100.00%	17.344%
7	8.842	1267	1272	1290	rBV	2910445	3861189	77.13%	13.378%
8	9.878	1438	1442	1459	rBV	2311840	3059795	61.12%	10.602%
9	10.835	1594	1599	1610	rBV	3325266	4022809	80.36%	13.938%

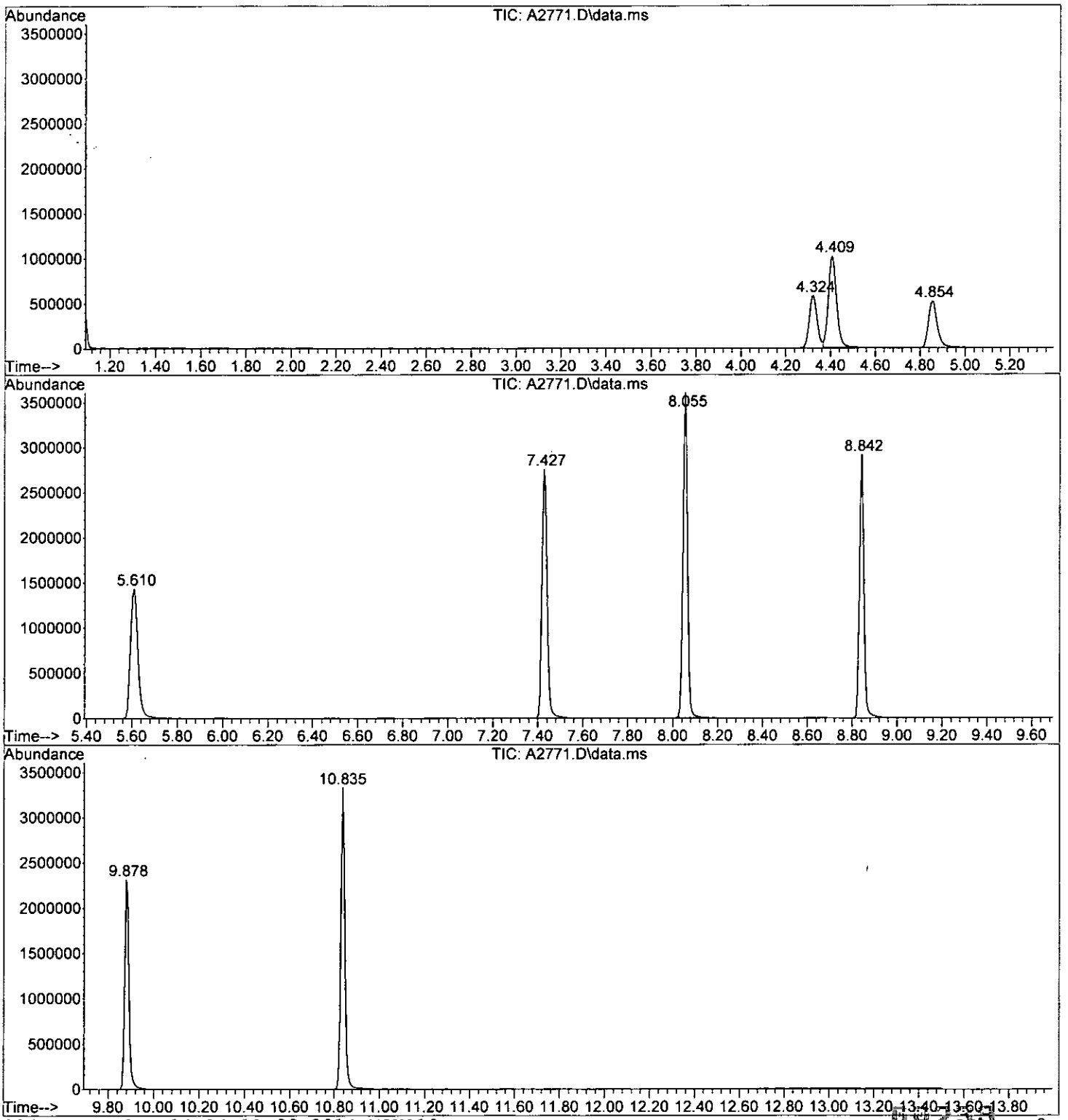
Sum of corrected areas: 28861488

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA10\data\100914\
Data File : A2771.D
Acq On : 9 Oct 2014 2:28 pm
Operator : F.NAEGLER
Sample : R1407806-011|50.0
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:11:22 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2771.D
Acq On : 9 Oct 2014 2:28 pmm
Operator : F.NAEGLERR
Sample : R1407806-011|50.0
Misc : PARSONS 11603 T44
ALS Vial : 10 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 14:38
Sample Name:	FTMM-TB-093014	**Units:**	µg/L
Lab Code:	R1407806-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2948.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	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 14:38

Sample Name: FTMM-TB-093014
Lab Code: R1407806-012

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2948.D\

Analysis Lot: 416090
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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 14:38
Sample Name:	FTMM-TB-093014	**Units:**	µg/L
Lab Code:	R1407806-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2948.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	10/14/14 14:38	
Dibromofluoromethane	104	85-115	10/14/14 14:38	
Toluene-d8	99	85-120	10/14/14 14:38	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/14/14 1438

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

Sample Name: FTMM-TB-093014
Lab Code: R1407806-012

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-012 1:1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2948.D Vial: 11
Acq On : 14 Oct 2014 2:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 15:23:29 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

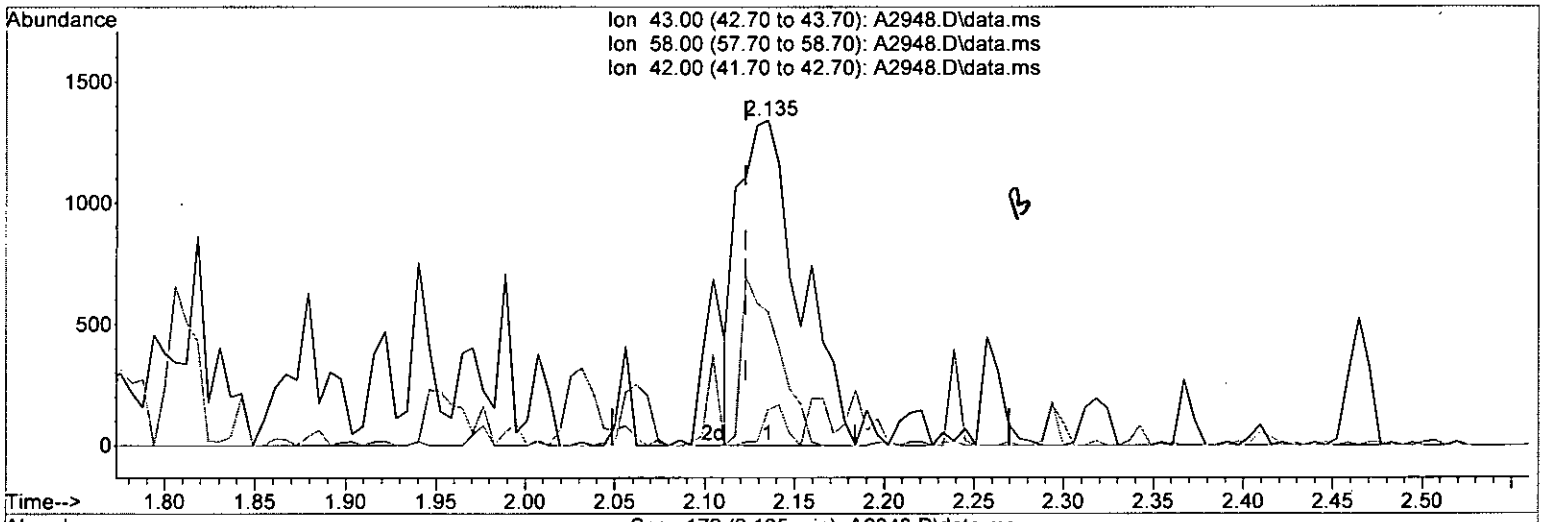
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	957242	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1398003	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1303026	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	704572	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	462244	51.85	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.70%			
48) surr1,1,2-dichloroetha...	4.854	65	514412	54.68	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 109.36%			
65) SURR3,Toluene-d8	7.433	98	1554447	49.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.02%			
70) SURR2,BFB	9.878	95	644495	52.17	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.34%			
Target Compounds						Qvalue
15) Acetone	2.135	43	3749m	1.29	ug/L	

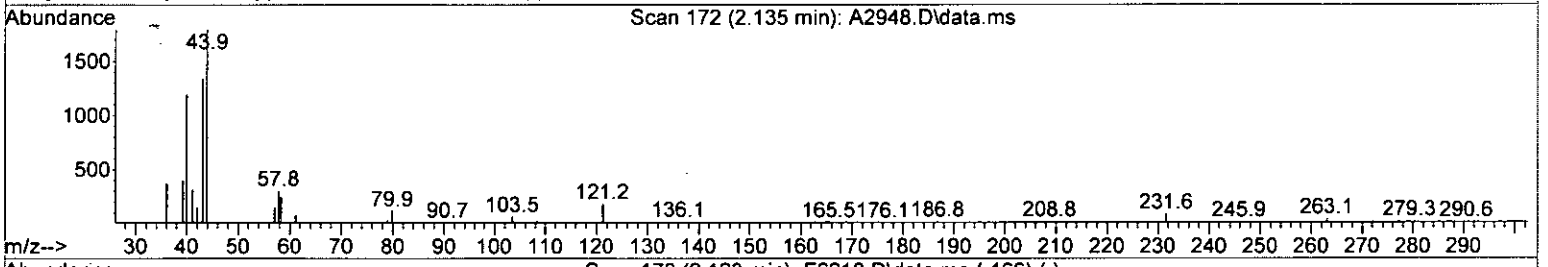
(#) = qualifier out of range (m) = manual integration (+) = signals summed

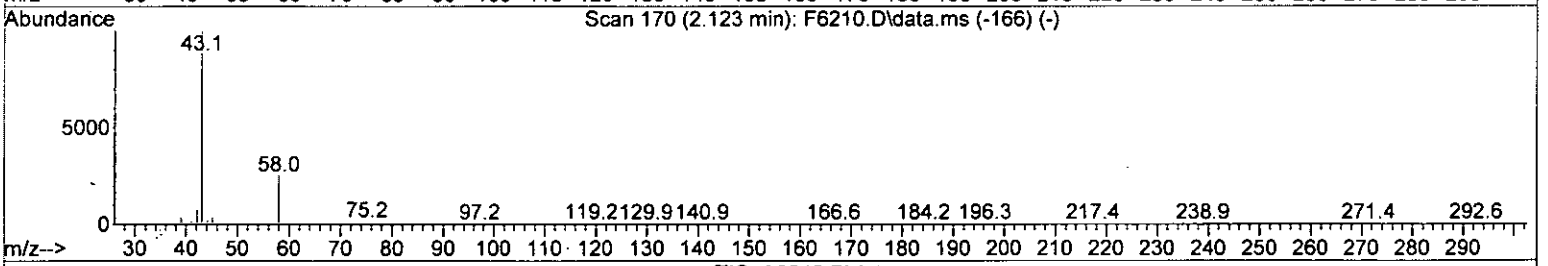
Quantitation Report (Qedit)

Sample : R1407836-012|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2948.D Vial: 11
Acq On : 14 Oct 2014 2:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:51:16 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2948.D\data.ms

(15) Acetone (P)

2.135min (+0.012) 1.10 ug/L

response 3207

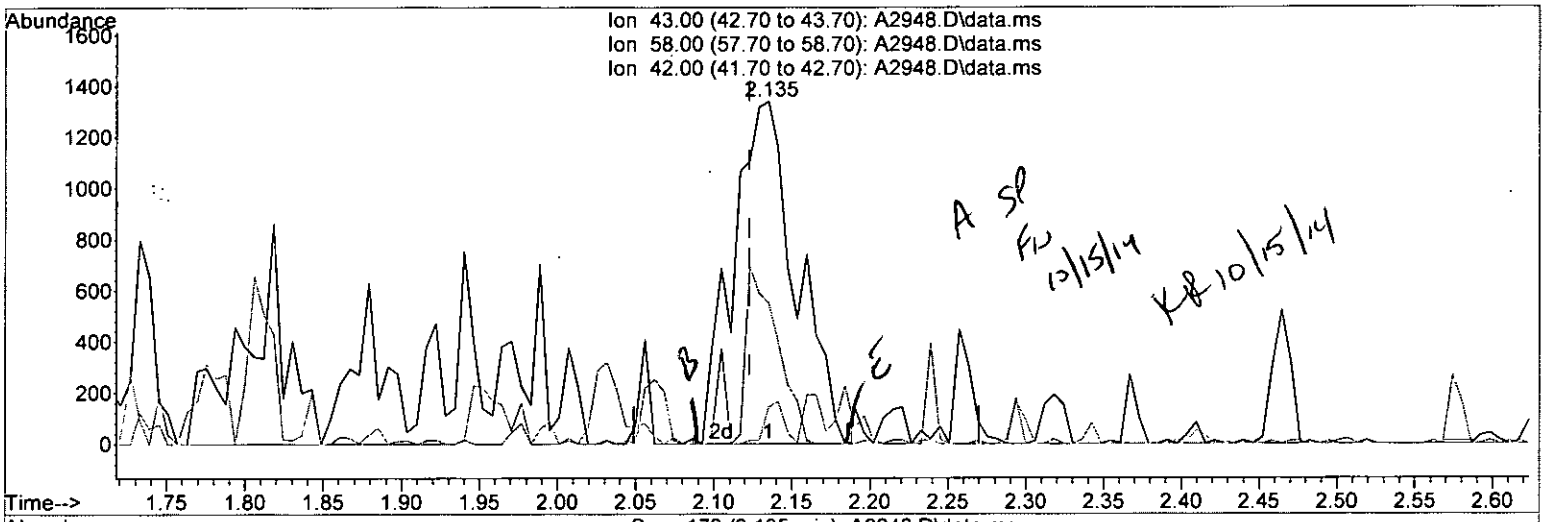
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	40.90
42.00	7.00	10.75
0.00	0.00	0.00

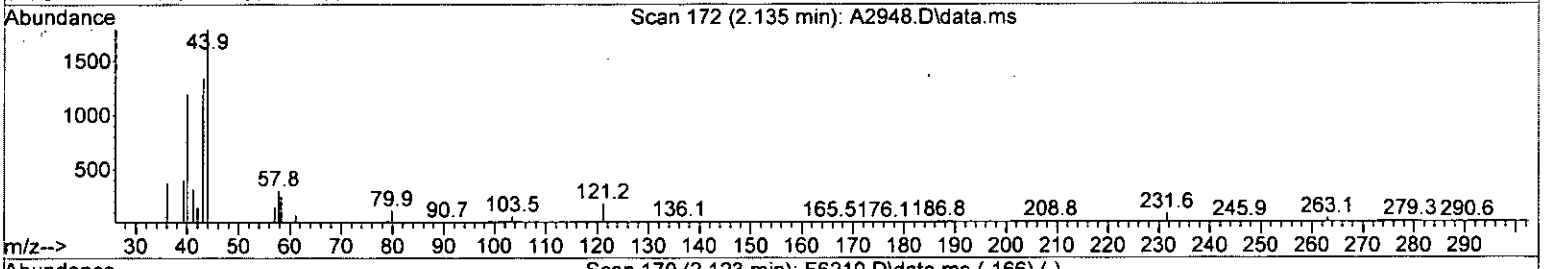
W072114.M Wed Oct 15 15:23:00 2014 MSVO10 Page: 1

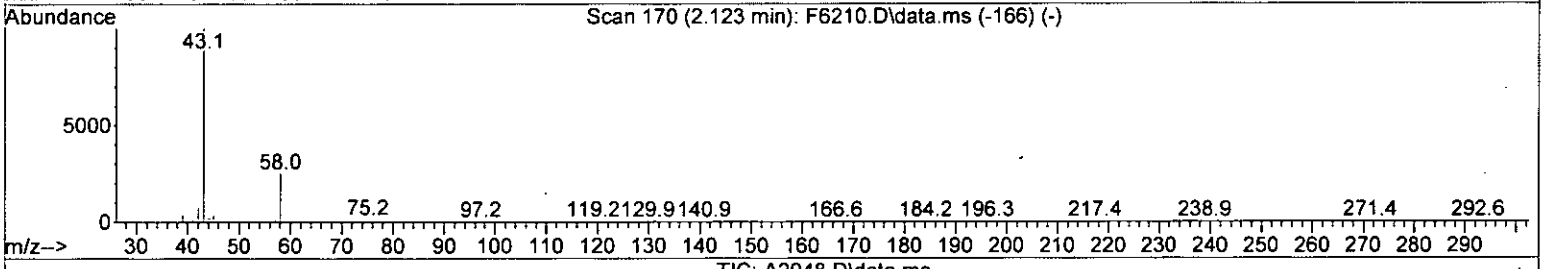
Quantitation Report (Qedit)

Sample : R1407806-012|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2948.D Vial: 11
Acq On : 14 Oct 2014 2:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:51:16 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2948.D\data.ms

(15) Acetone (P)

2.135min (+0.012) 1.29 ug/L m

response 3749

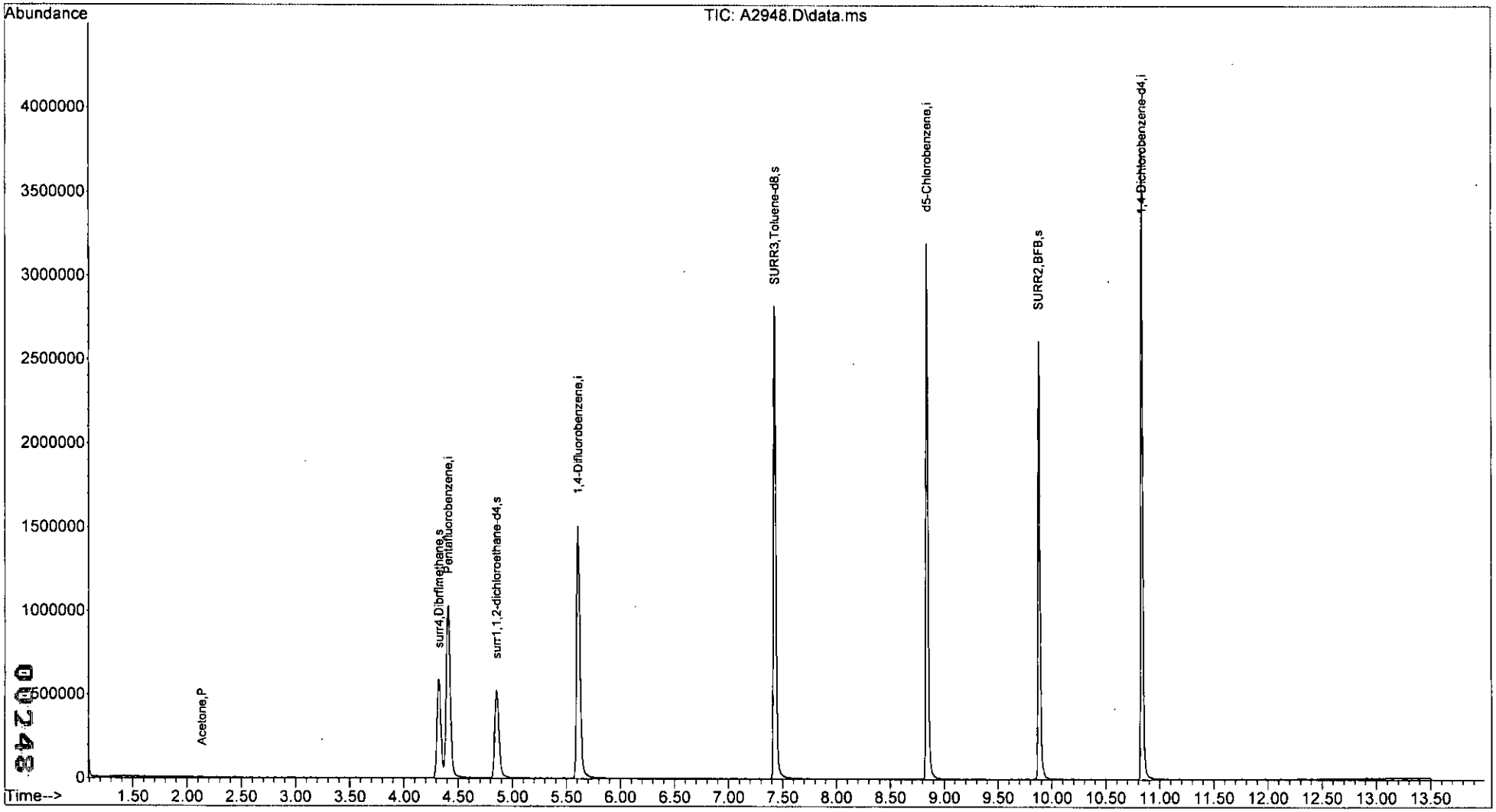
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	22.46
42.00	7.00	10.75
0.00	0.00	0.00

W072114.M Wed Oct 15 15:23:11 2014 MSVO10 Page: 1

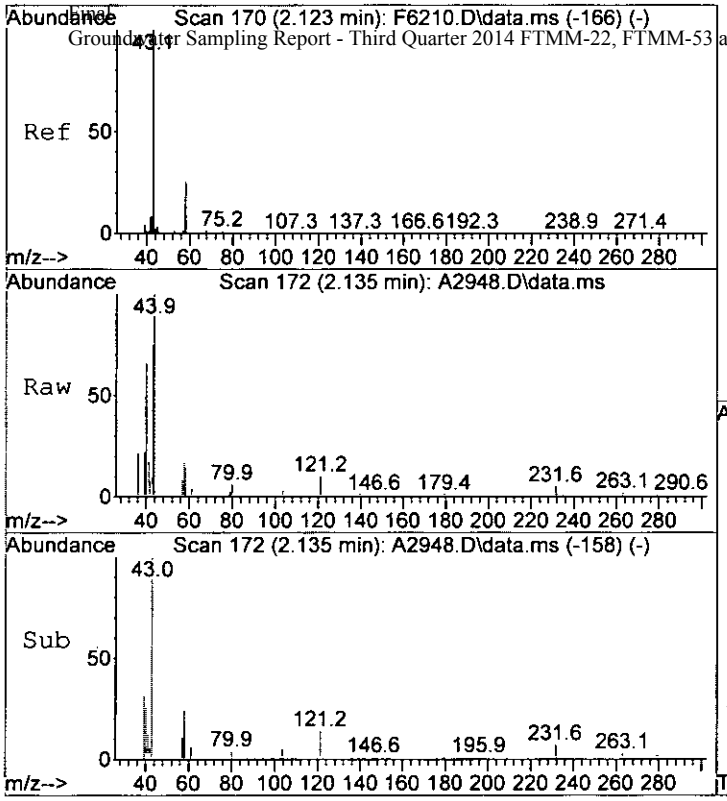
Quantitation Report (QT Reviewed)

Sample : R1407806-012|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2948.D Vial: 11
Acq On : 14 Oct 2014 2:38 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 15:23:29 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



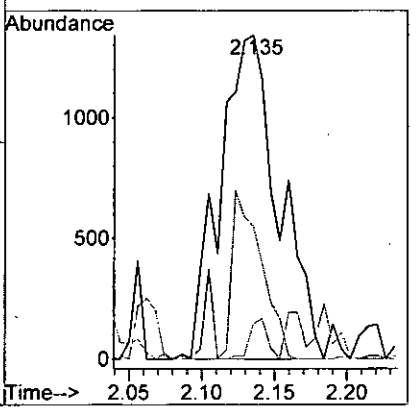
W072114.M Wed Oct 15 15:24:27 2014 MSVO10 Page: 2



#15
Acetone
Concen: 1.29 ug/L m
RT: 2.135 min Scan# 172
Delta R.T. 0.012 min
Lab File: A2948.D
Acq: 14 Oct 2014 2:38 pm

Tgt Ion: 43 Resp: 3749

Ion	Ratio	Lower	Upper
43	100		
58	22.5	7.2	47.2
42	10.7	0.0	27.0



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2948.D
Acq On : 14 Oct 2014 2:38 pm
Operator : F.NAEGLER
Sample : R1407806-012|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2948.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.318	521	530	538	rBV	590580	1478160	32.88%	5.798%
2	4.409	538	545	565	rVB	1027187	2696866	59.99%	10.578%
3	4.854	609	618	631	rBV2	522647	1413664	31.45%	5.545%
4	5.610	734	742	763	rBV	1507743	3379950	75.18%	13.257%
5	7.427	1035	1040	1053	rBV	2817313	4439832	98.76%	17.415%
6	8.841	1267	1272	1288	rBV	3194227	4224771	93.97%	16.571%
7	9.878	1438	1442	1457	rBV	2608808	3366040	74.87%	13.203%
8	10.835	1594	1599	1616	rBV	3745967	4495657	100.00%	17.634%

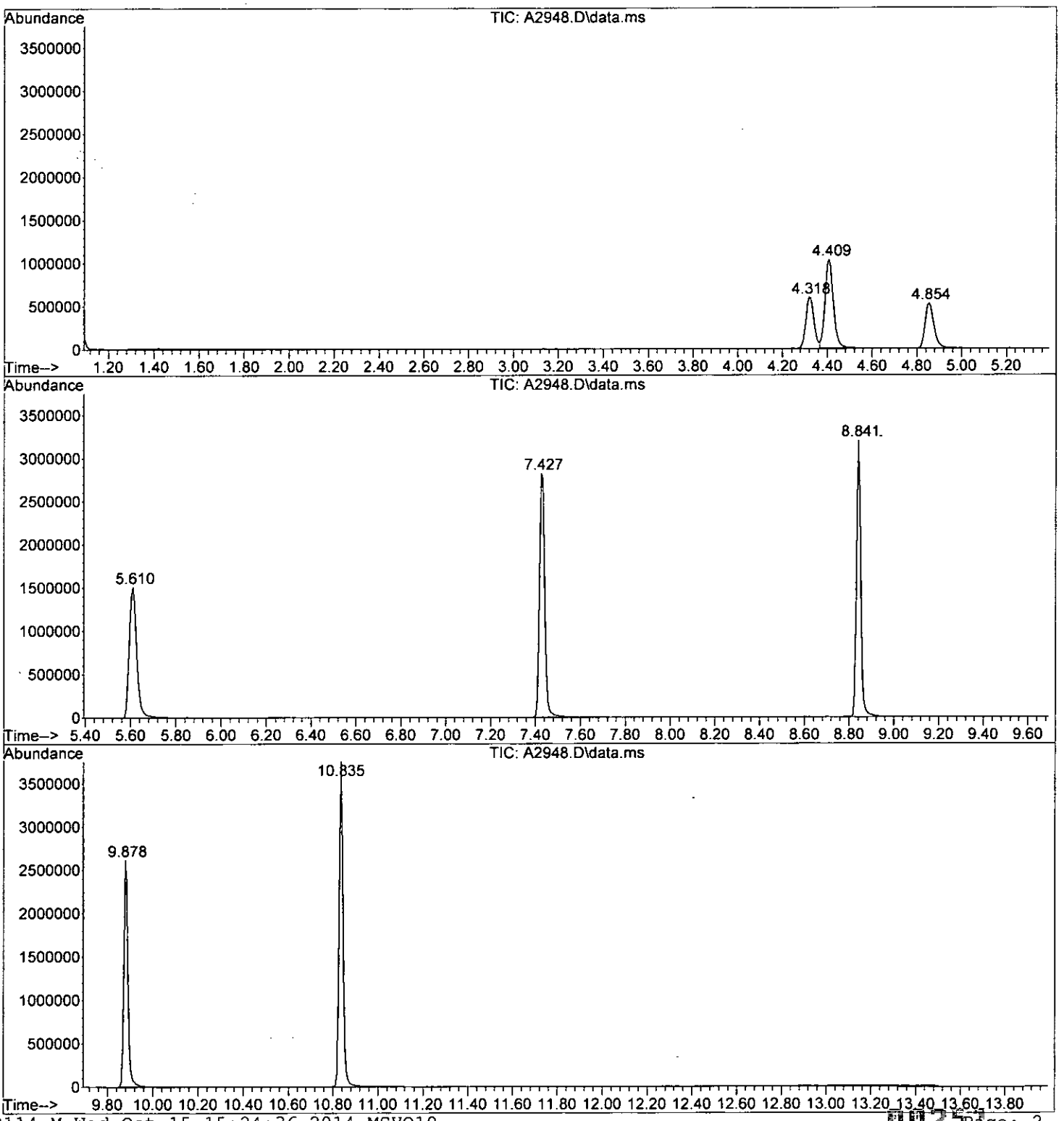
Sum of corrected areas: 25494940

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA10\DATA\101414\
Data File : A2948.D
Acq On : 14 Oct 2014 2:38 pm
Operator : F.NAEGLER
Sample : R1407806-012|1.0
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Wed Oct 15 15:24:36 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\101414\\
Data File : A2948.D
Acq On : 14 Oct 2014 2:38 pmm
Operator : F.NAEGLERR
Sample : R1407806-012|1.0
Misc : PARSONS 11603 T44
ALS Vial : 11 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1254
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:56
Sample Name:	FTMM-22-GW-CW1MW281-38.74	**Units:**	µg/L
Lab Code:	R1407806-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2780.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)	**0.64**	J	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	**5.5**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1254
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:56
Sample Name:	FTMM-22-GW-CW1MW281-38.74	**Units:**	µg/L
Lab Code:	R1407806-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2780.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	0.32	
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)	**160**		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	**1.1**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**14**		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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1254
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 18:56
Sample Name:	FTMM-22-GW-CW1MW281-38.74	**Units:**	µg/L
Lab Code:	R1407806-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2780.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 18:56	
Dibromofluoromethane	105	85-115	10/9/14 18:56	
Toluene-d8	101	85-120	10/9/14 18:56	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1856

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

Sample Name: FTMM-22-GW-CW1MW281-38.74
Lab Code: R1407806-013

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-013|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2780.D Vial: 19
Acq On : 9 Oct 2014 6:56 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:56:31 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	915489	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1308728	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1183366	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	620737	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	438582	52.56	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.12%				
48) surr1,1,2-dichloroetha...	4.854	65	510551	57.97	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 115.94%				
65) SURR3,Toluene-d8	7.427	98	1485181	50.53	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.06%				
70) SURR2,BFB	9.878	95	575396	49.75	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.50%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.361	62	12859	1.07	ug/L		71
13) 1,1-Diclethene	2.105	96	4095	0.64	ug/L	#	85
15) Acetone	2.129	43	15217	5.46	ug/L		86
23) TBA	2.519	59	2722m	5.74	ug/L		
34) cis-1,2-Dichloroethene	3.684	96	128979	14.34	ug/L	#	73
54) Trichloroethene	5.964	130	1399660	156.93	ug/L		98

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

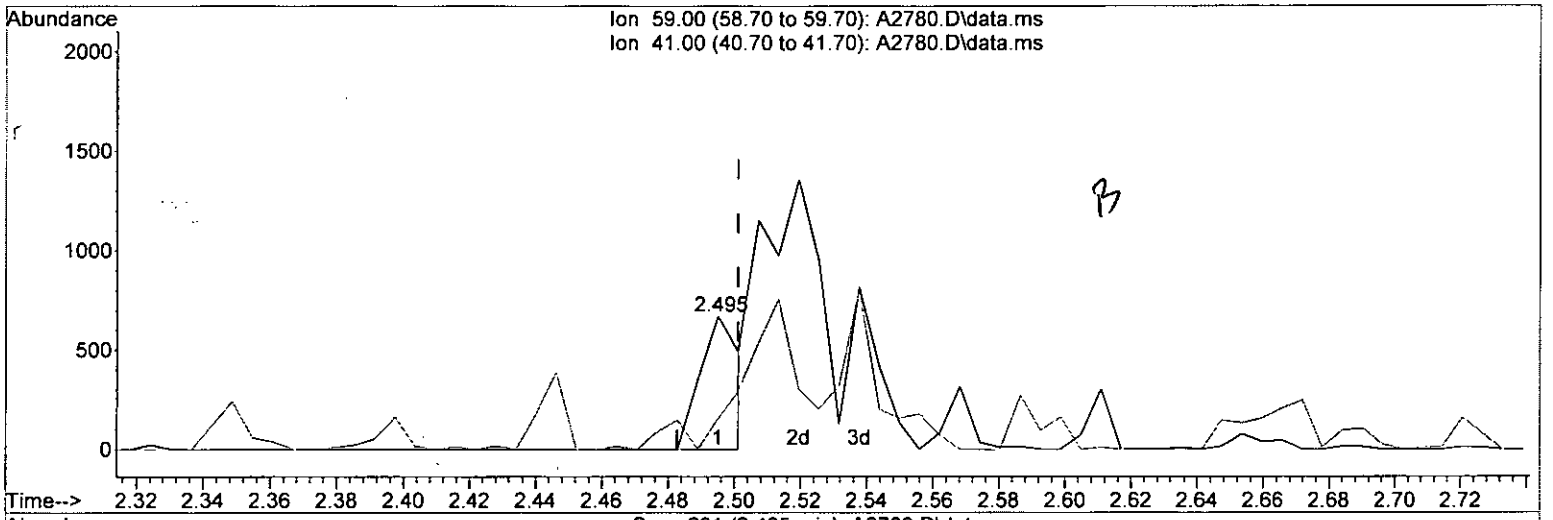
FD 10/14/14

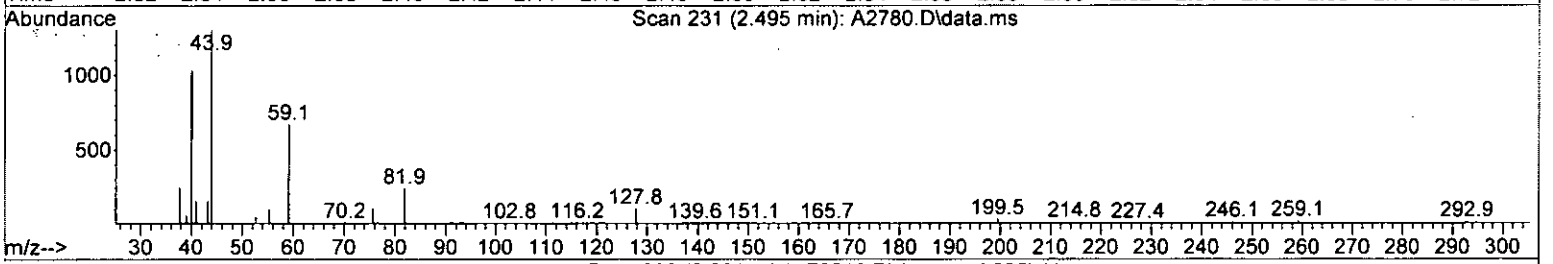
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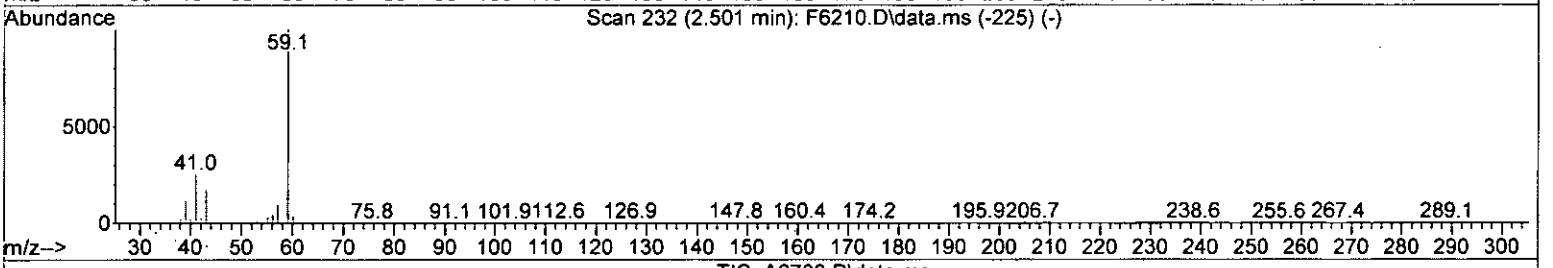
Quantitation Report (Qedit)

Sample : R1407806-013|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2780.D Vial: 19
Acq On : 9 Oct 2014 6:56 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 19:09:07 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2780.D\data.ms

(23) TBA

2.495min (-0.006) 1.17 ug/L

response 554

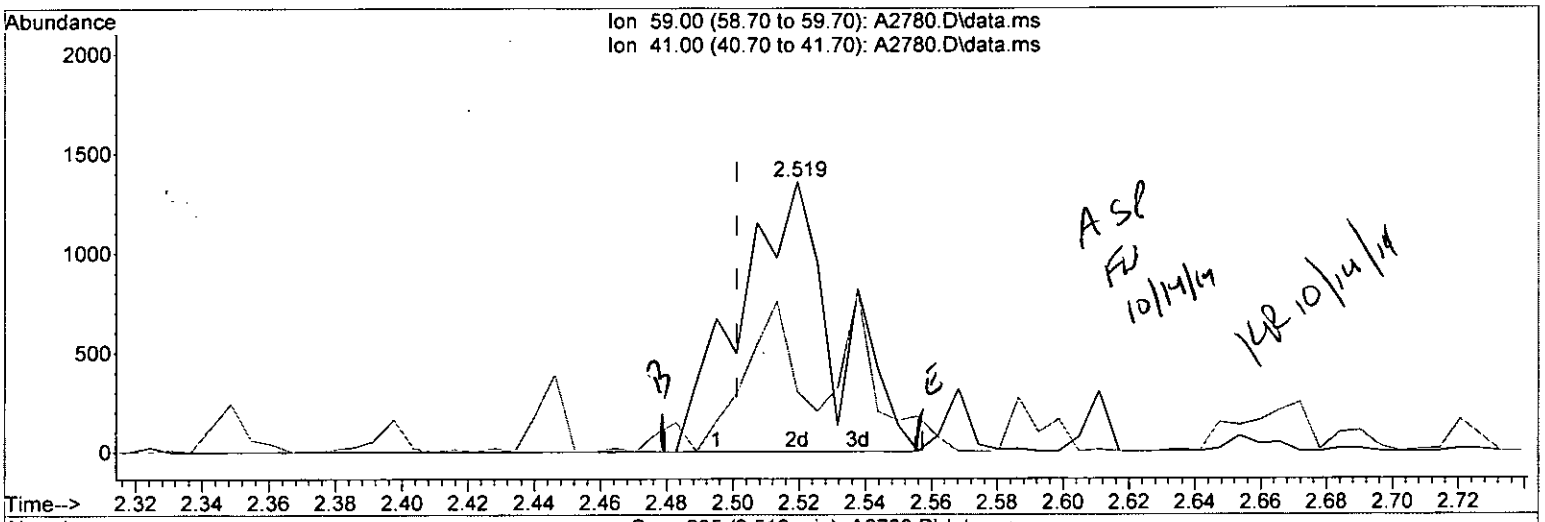
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	23.17
0.00	0.00	0.00
0.00	0.00	0.00

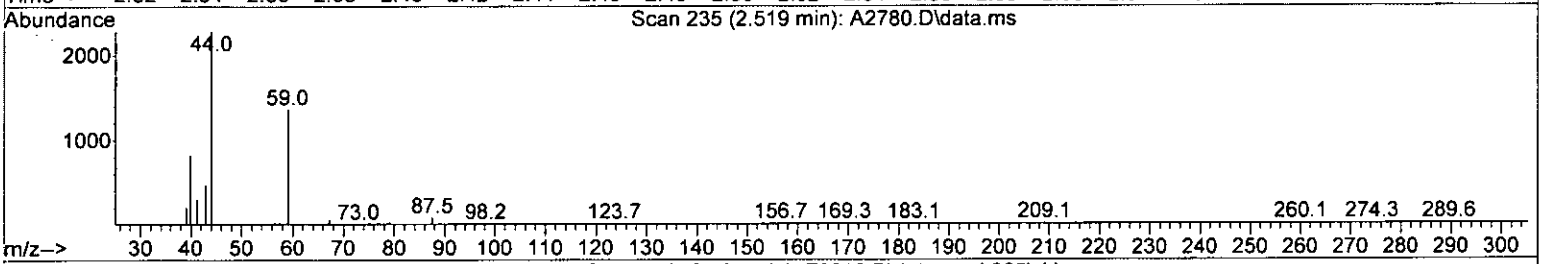
W072114.M Tue Oct 14 14:55:44 2014 MSVO10 Page: 1

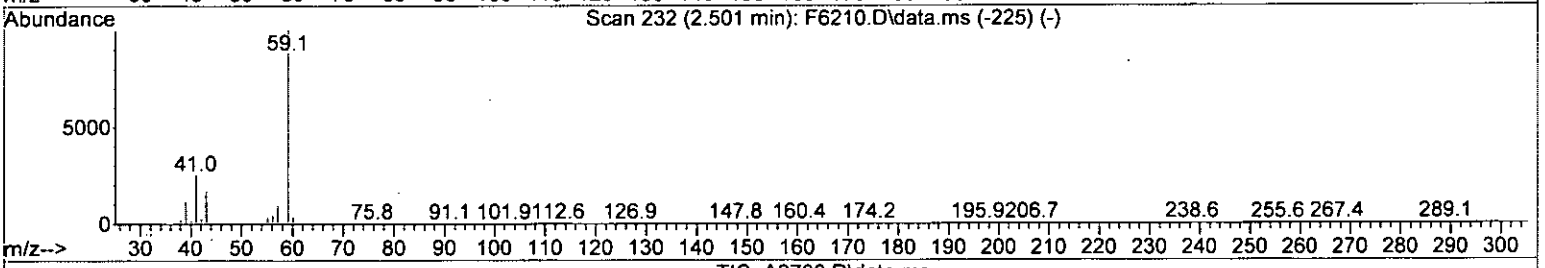
Quantitation Report (Qedit)

Sample : R1407806-013|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2780.D Vial: 19
Acq On : 9 Oct 2014 6:56 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 19:09:07 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2780.D\data.ms

(23) TBA

2.519min (+0.018) 5.74 ug/L m

response 2722

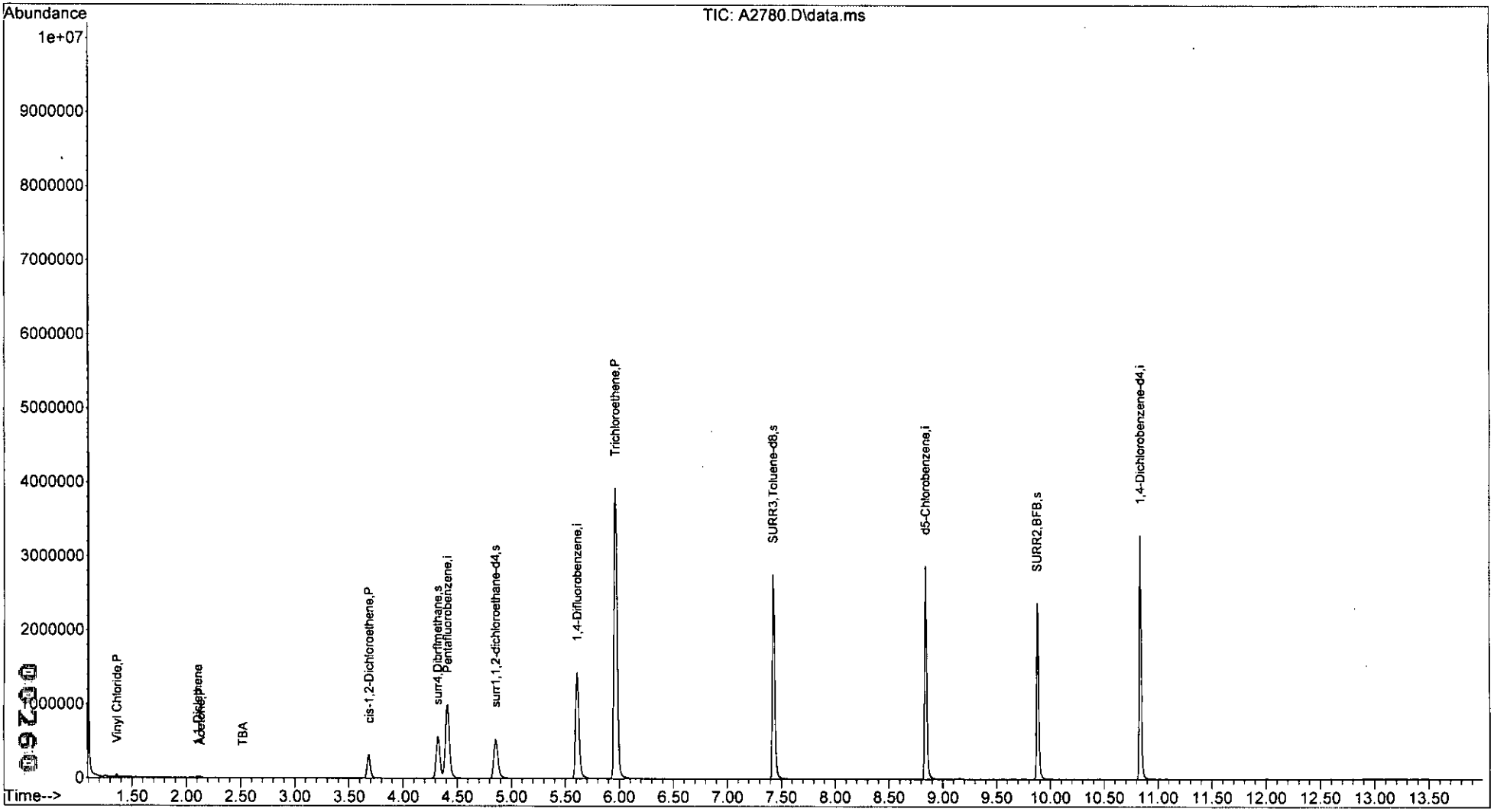
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	22.09
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 14:55:51 2014 MSVO10 Page: 1

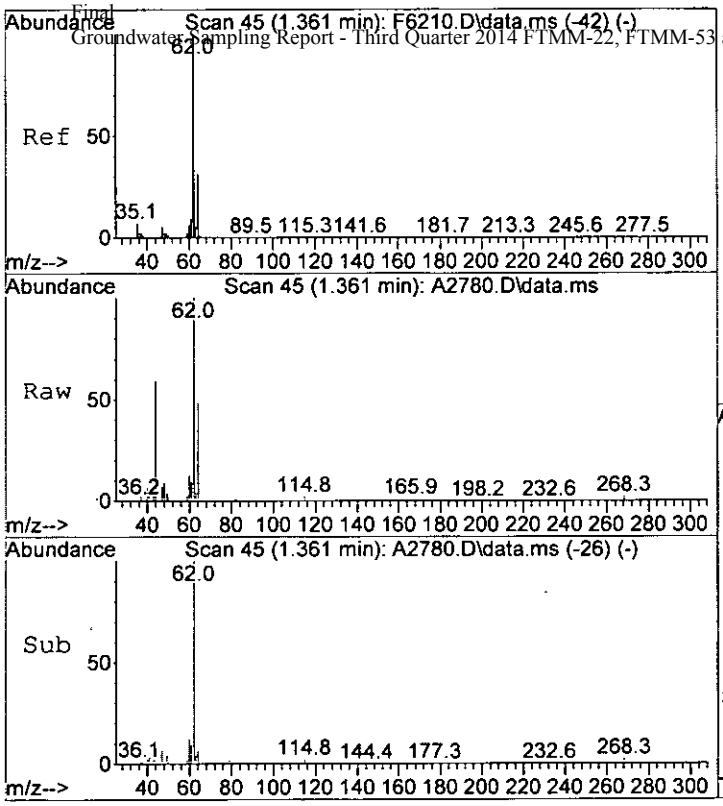
Quantitation Report (QT Reviewed)

Sample : R1407806-013|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2780.D Vial: 19
Acq On : 9 Oct 2014 6:56 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:56:31 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



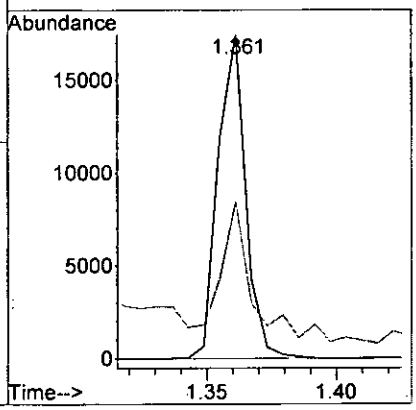
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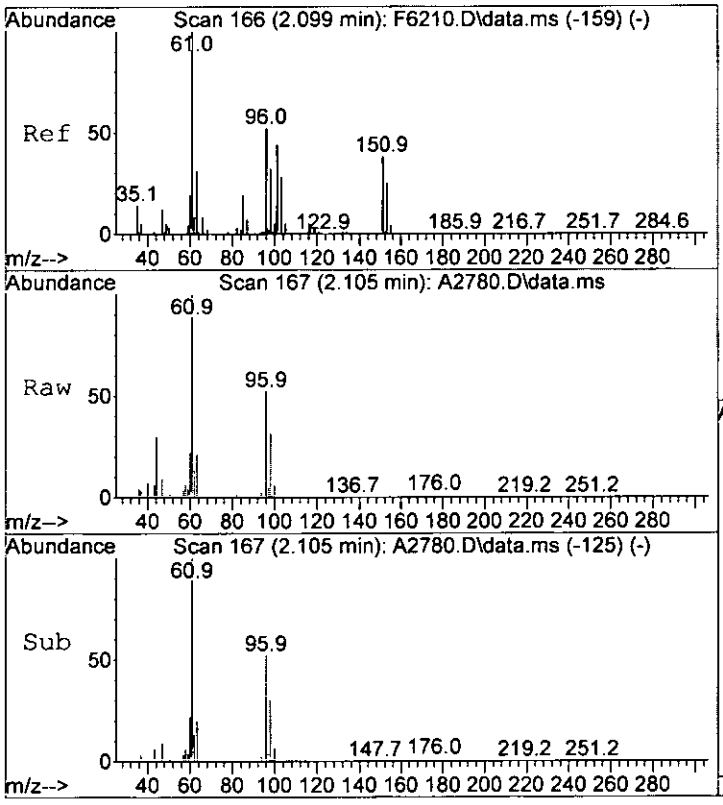


#4
Vinyl Chloride
Concen: 1.07 ug/L
RT: 1.361 min Scan# 45
Delta R.T. -0.000 min
Lab File: A2780.D
Acq: 9 Oct 2014 6:56 pm

Tgt Ion: 62 Resp: 12859

Ion	Ratio	Lower	Upper
62	100		
64	48.3	12.0	52.0

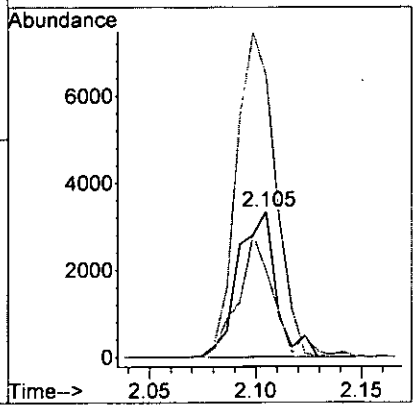


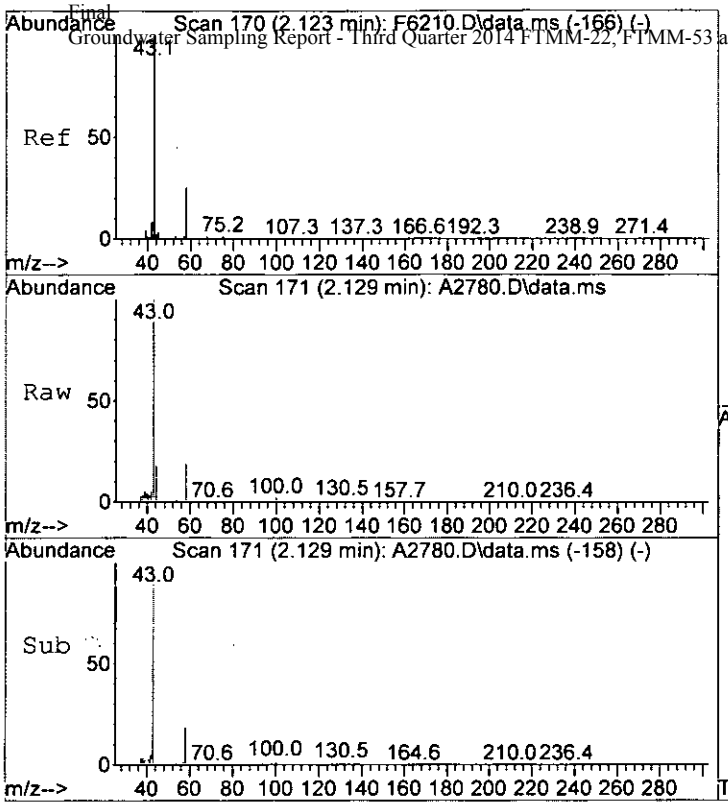


#13
1,1-Diclethene
Concen: 0.64 ug/L
RT: 2.105 min Scan# 167
Delta R.T. 0.006 min
Lab File: A2780.D
Acq: 9 Oct 2014 6:56 pm

Tgt Ion: 96 Resp: 4095

Ion	Ratio	Lower	Upper
96	100		
98	60.5	47.5	87.5
61	193.3	149.6	189.6#

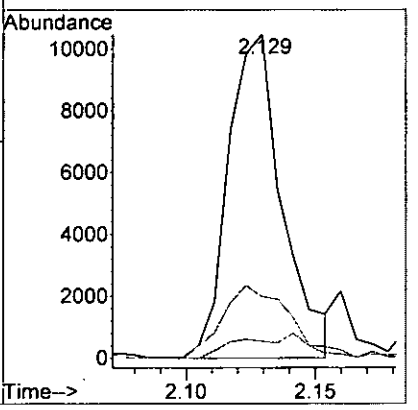


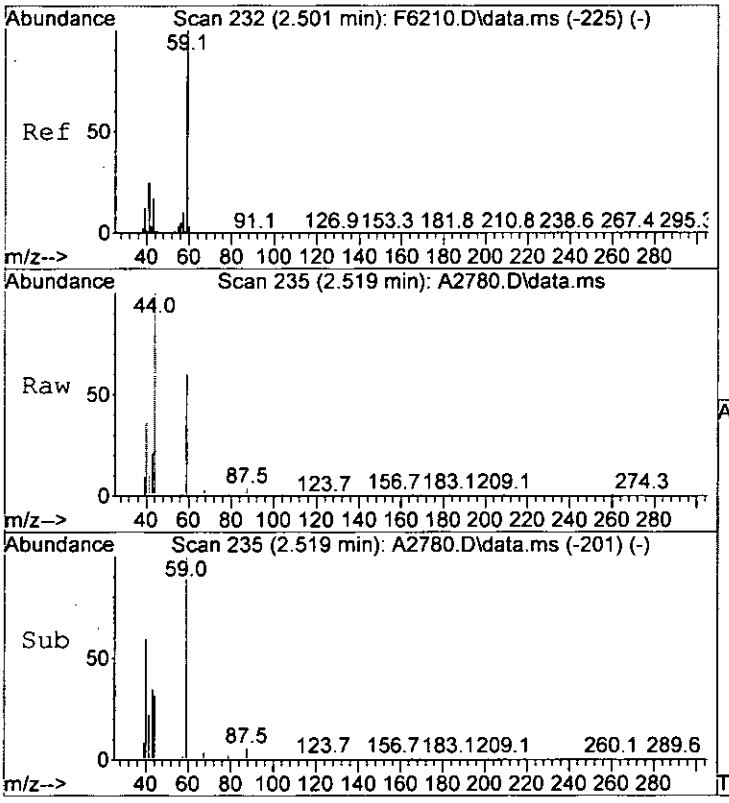


#15
Acetone
Concen: 5.46 ug/L
RT: 2.129 min Scan# 171
Delta R.T. 0.006 min
Lab File: A2780.D
Acq: 9 Oct 2014 6:56 pm

Tgt Ion: 43 Resp: 15217

Ion	Ratio	Lower	Upper
43	100		
58	19.0	7.2	47.2
42	5.2	0.0	27.0

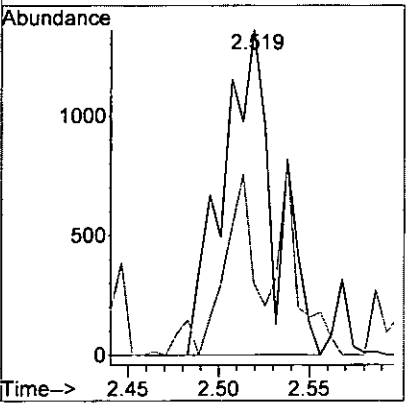


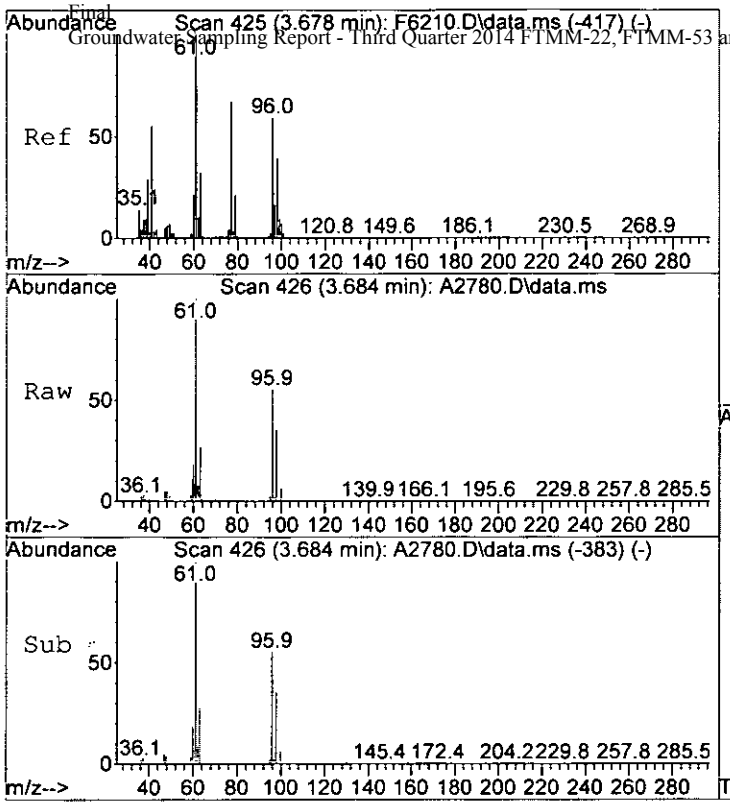


#23
TBA
Concen: 5.74 ug/L m
RT: 2.519 min Scan# 235
Delta R.T. 0.018 min
Lab File: A2780.D
Acq: 9 Oct 2014 6:56 pm

Tgt Ion: 59 Resp: 2722

Ion	Ratio	Lower	Upper
59	100		
41	22.1	2.8	42.8

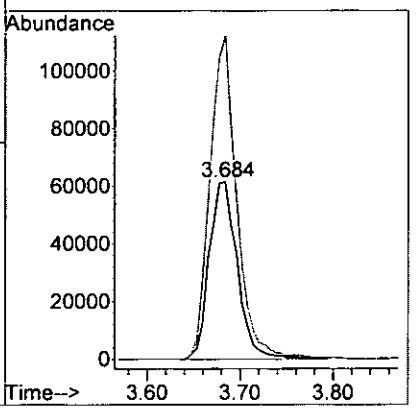


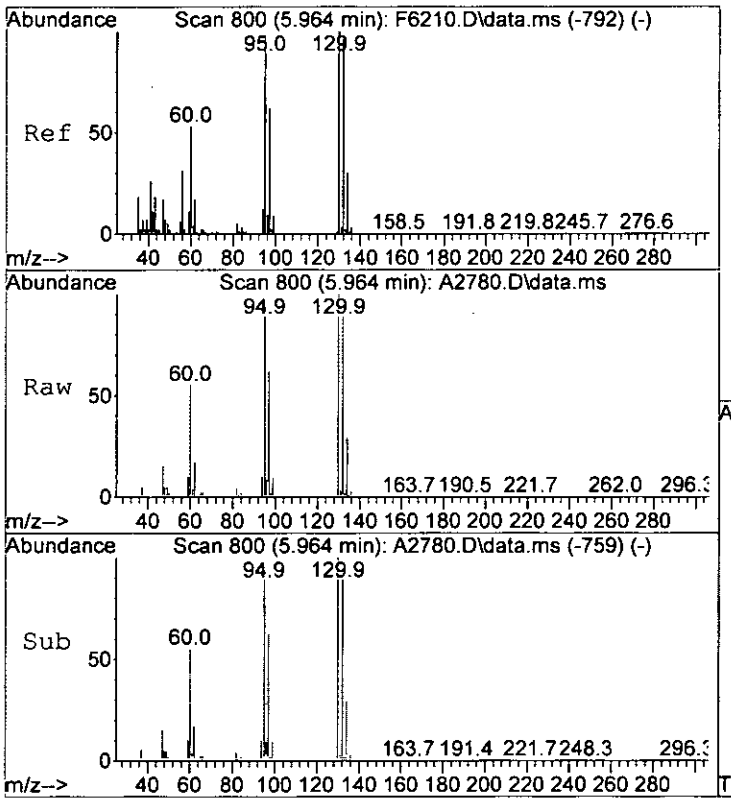


#34
cis-1,2-Dichloroethene
Concen: 14.34 ug/L
RT: 3.684 min Scan# 426
Delta R.T. 0.006 min
Lab File: A2780.D
Acq: 9 Oct 2014 6:56 pm

Tgt Ion: 96 Resp: 128979

Ion	Ratio	Lower	Upper
96	100		
61	182.7	128.3	168.3#

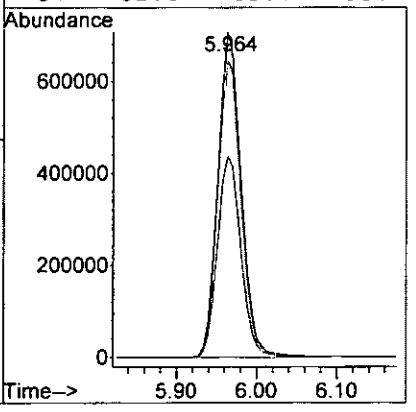




#54
Trichloroethene
Concen: 156.93 ug/L
RT: 5.964 min Scan# 800
Delta R.T. -0.000 min
Lab File: A2780.D
Acq: 9 Oct 2014 6:56 pm

Tgt Ion:130 Resp: 1399660

Ion	Ratio	Lower	Upper
130	100		
132	91.1	74.1	114.1
95	96.2	76.9	116.9
97	61.8	43.7	83.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2780.D
Acq On : 9 Oct 2014 6:56 pm
Operator : F.NAEGLER
Sample : R1407806-013|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2780.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.684	418	426	437	rBV	312339	651827	8.28%	2.022%
2	4.318	520	530	538	rBV	565303	1396393	17.74%	4.332%
3	4.409	538	545	559	rVB	984817	2565228	32.60%	7.957%
4	4.854	610	618	636	rBV	529518	1398507	17.77%	4.338%
5	5.610	733	742	762	rBV	1423867	3223205	40.96%	9.998%
6	5.964	791	800	816	rBV	3923004	7869433	100.00%	24.411%
7	7.427	1035	1040	1054	rBV	2753983	4234003	53.80%	13.134%
8	8.841	1267	1272	1290	rBV	2873581	3858139	49.03%	11.968%
9	9.878	1438	1442	1457	rBV	2370300	3021987	38.40%	9.374%
10	10.835	1594	1599	1621	rBV	3293335	4018328	51.06%	12.465%

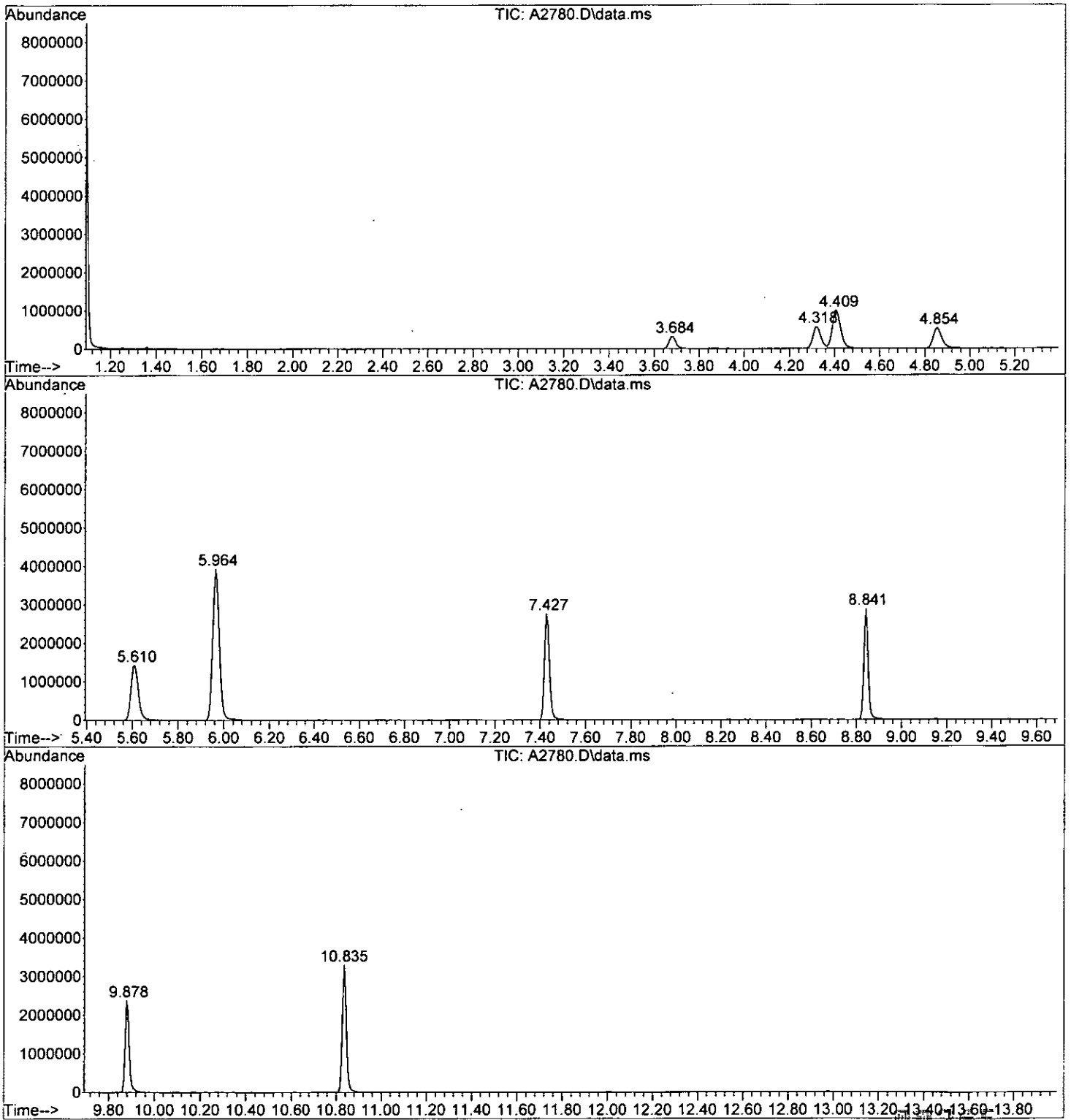
Sum of corrected areas: 32237050

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2780.D
Acq On : 9 Oct 2014 6:56 pm
Operator : F.NAEGLER
Sample : R1407806-013|1.0
Misc : PARSONS 11603 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:57:19 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2780.D
Acq On : 9 Oct 2014 6:56 pmm
Operator : F.NAEGLERR
Sample : R1407806-013|1.0
Misc : PARSONS 11603 T44
ALS Vial : 19 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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

****

00266

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1306
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:26
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1407806-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2777.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	**7.4**		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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1306
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:26
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1407806-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2777.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	0.32	
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)	**1.5**	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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1306
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:26
Sample Name:	FTMM-22-GW-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1407806-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2777.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 17:26	
Dibromofluoromethane	108	85-115	10/9/14 17:26	
Toluene-d8	100	85-120	10/9/14 17:26	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1726

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

Sample Name: FTMM-22-GW-CW1MW28-11.21
Lab Code: R1407806-014

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-014|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2777.D Vial: 16
Acq On : 9 Oct 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:43:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	906731	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1280311	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1146690	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	610547	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	439580	53.85	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.70%			
48) surr1,1,2-dichloroetha...	4.854	65	487550	56.59	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 113.18%			
65) SURR3,Toluene-d8	7.427	98	1439650	50.07	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.14%			
70) SURR2,BFB	9.878	95	581276	51.37	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.74%			
Target Compounds						Qvalue
15) Acetone	2.123	43	20514	7.43	ug/L	95
23) TBA	2.519	59	3403m	7.24	ug/L	
54) Trichloroethene	5.970	130	12931	1.48	ug/L	96

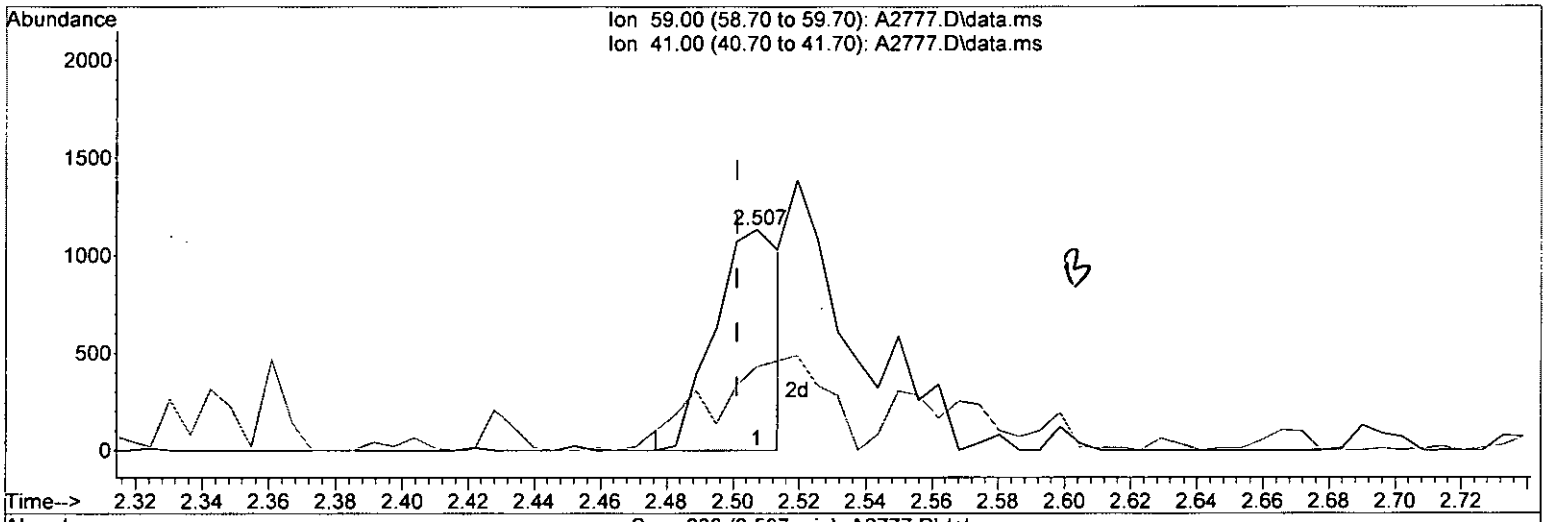
(#) = qualifier out of range (m) = manual integration (+) = signals summed

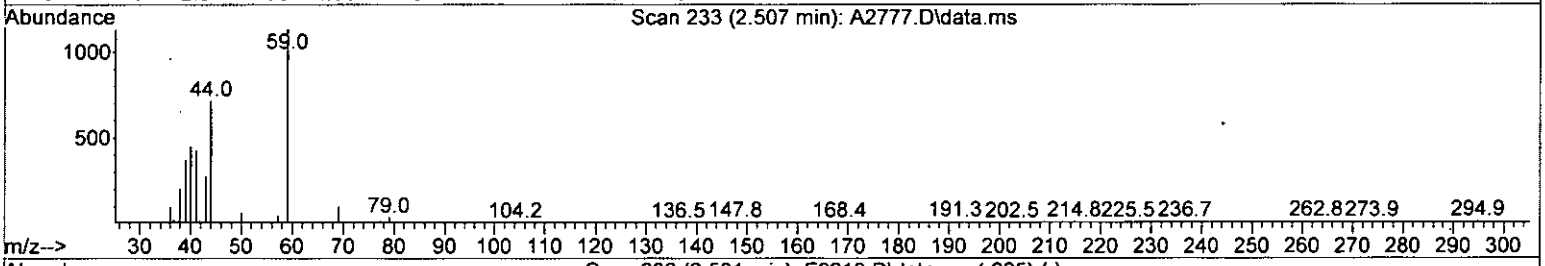
FV 10/14/14

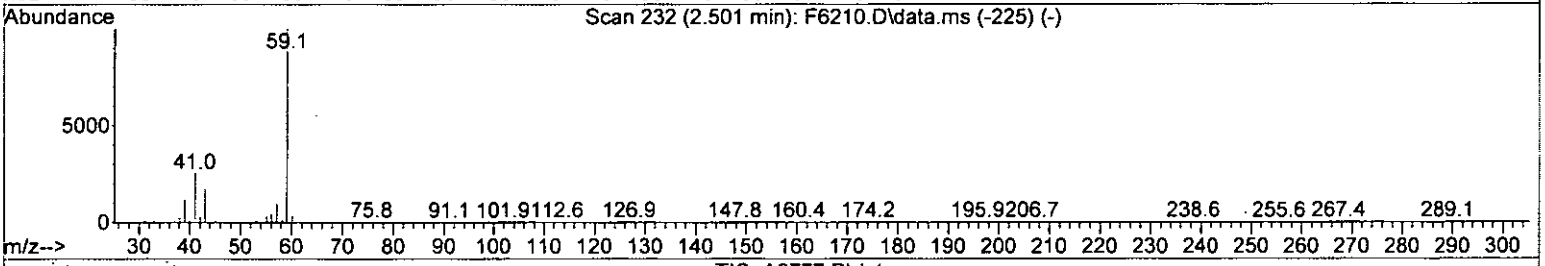
Quantitation Report (Qedit)

Sample : R1407806-014|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2777.D Vial: 16
Acq On : 9 Oct 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 17:40:00 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2777.D\data.ms

(23) TBA

2.507min (+0.006) 3.32 ug/L

response 1562

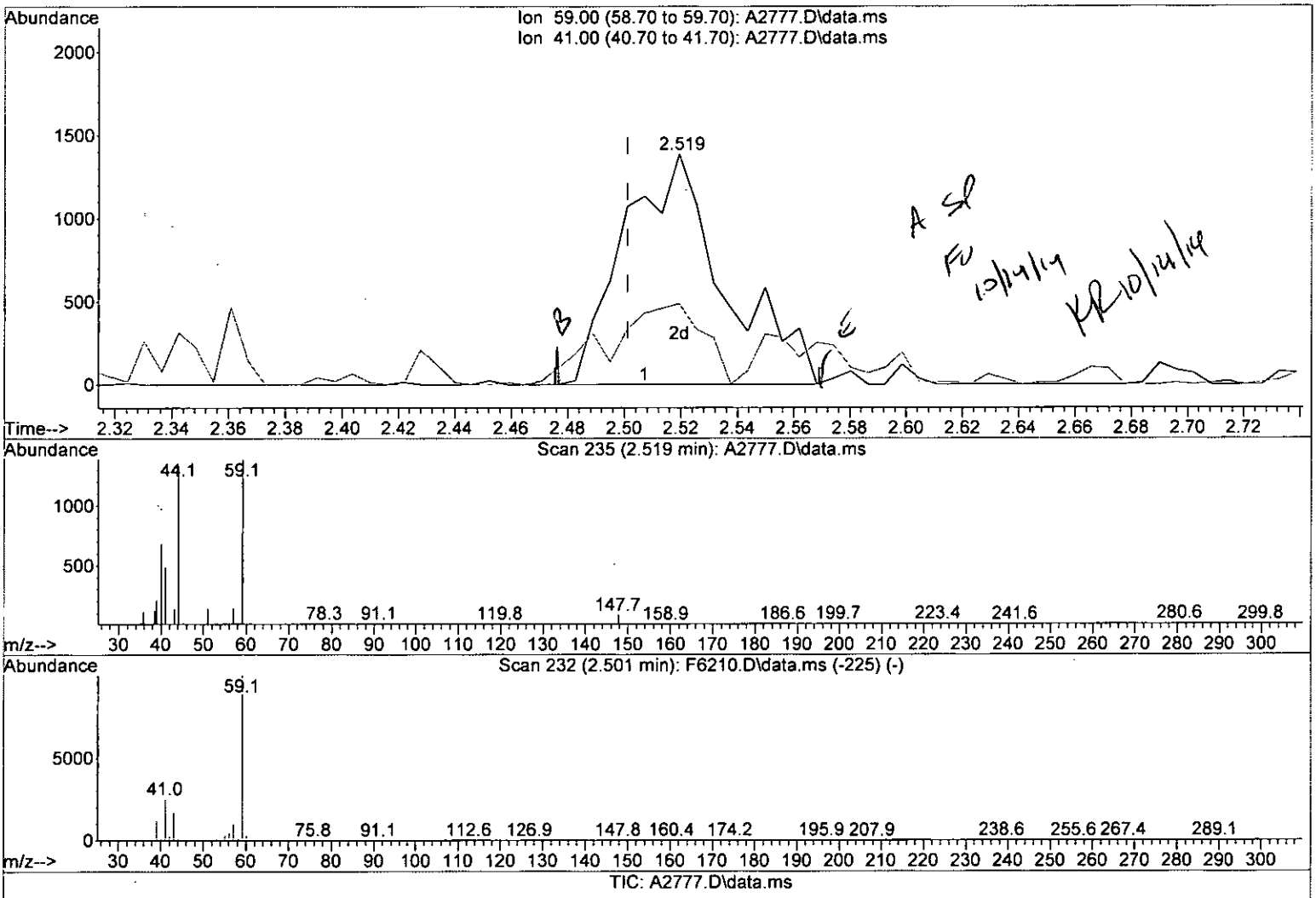
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	37.81
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 14:42:59 2014 MSVO10 Page: 1

Quantitation Report (Qedit)

Sample : R1407806-014|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2777.D Vial: 16
Acq On : 9 Oct 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 17:40:00 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2777.D\data.ms

(23) TBA

2.519min (+0.018) 7.24 ug/L m

response 3403

Ion	Exp%	Act%
59.00	100	100
41.00	22.80	35.06
0.00	0.00	0.00
0.00	0.00	0.00

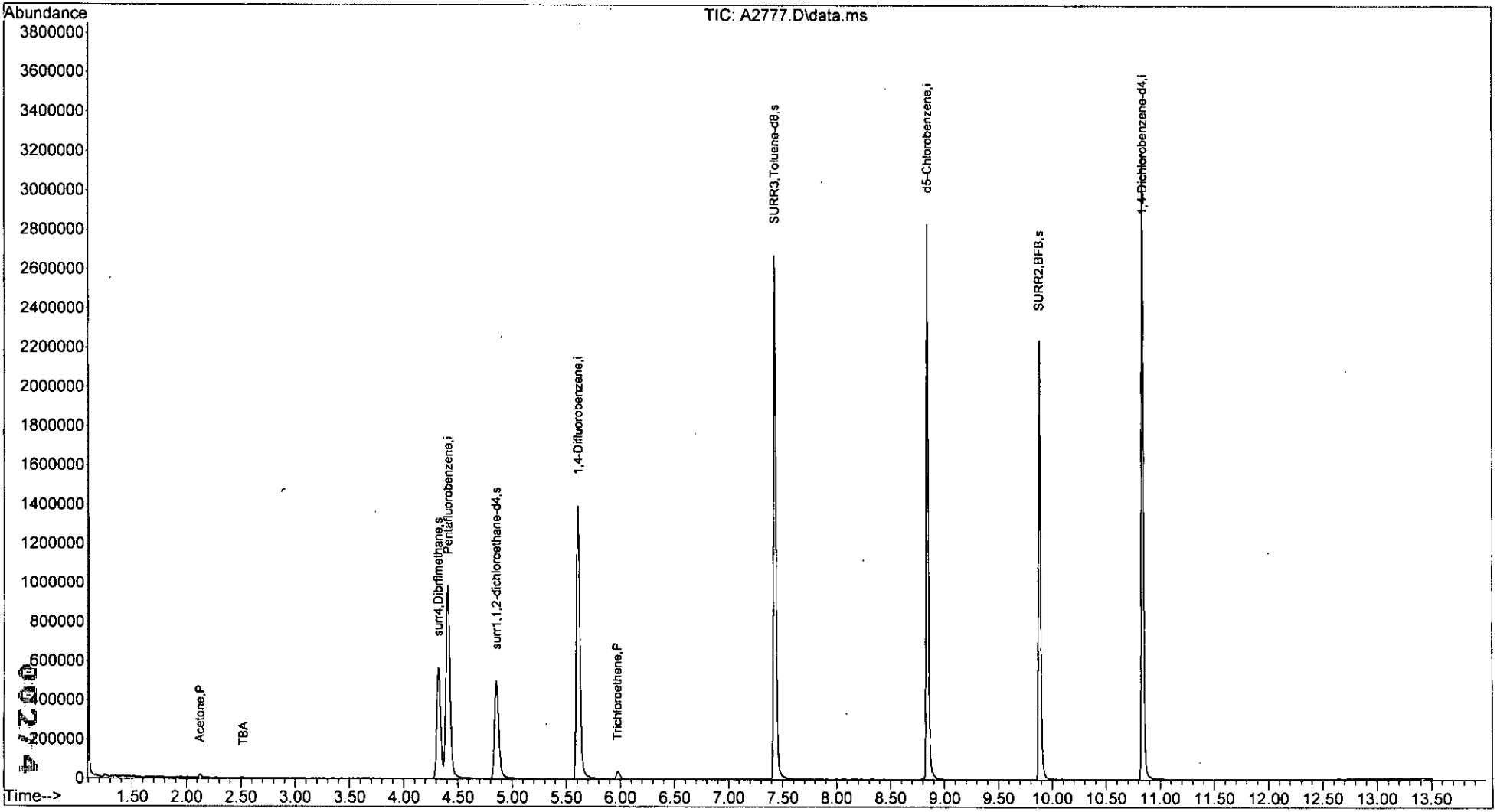
W072114.M Tue Oct 14 14:43:05 2014 MSVO10 Page: 1

00273

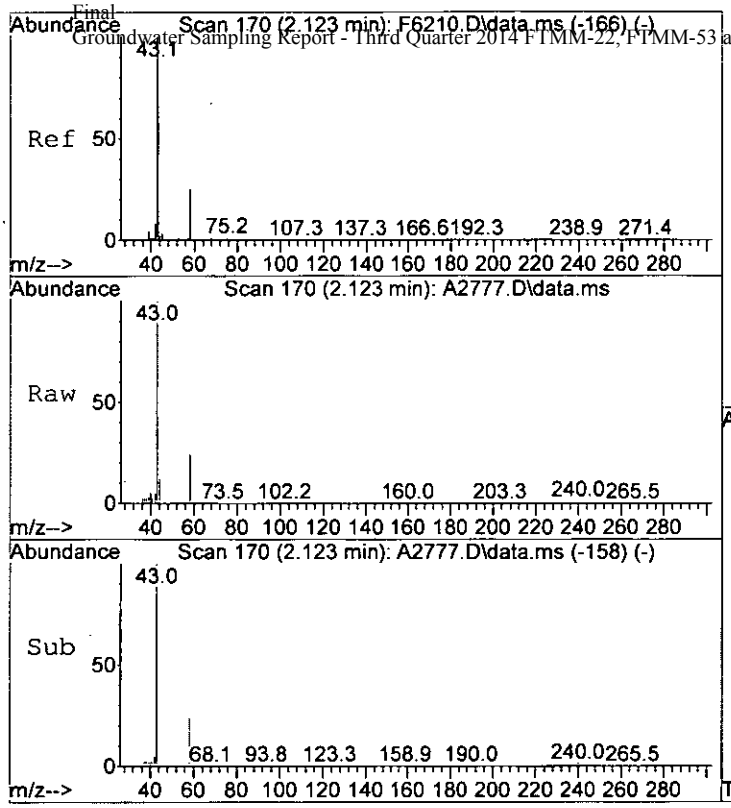
Quantitation Report (QT Reviewed)

Sample : R1407806-014|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2777.D Vial: 16
Acq On : 9 Oct 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:43:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



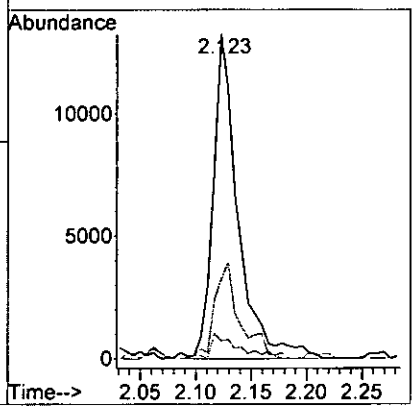
W072114.M Tue Oct 14 14:44:59 2014 MSVO10 Page: 2

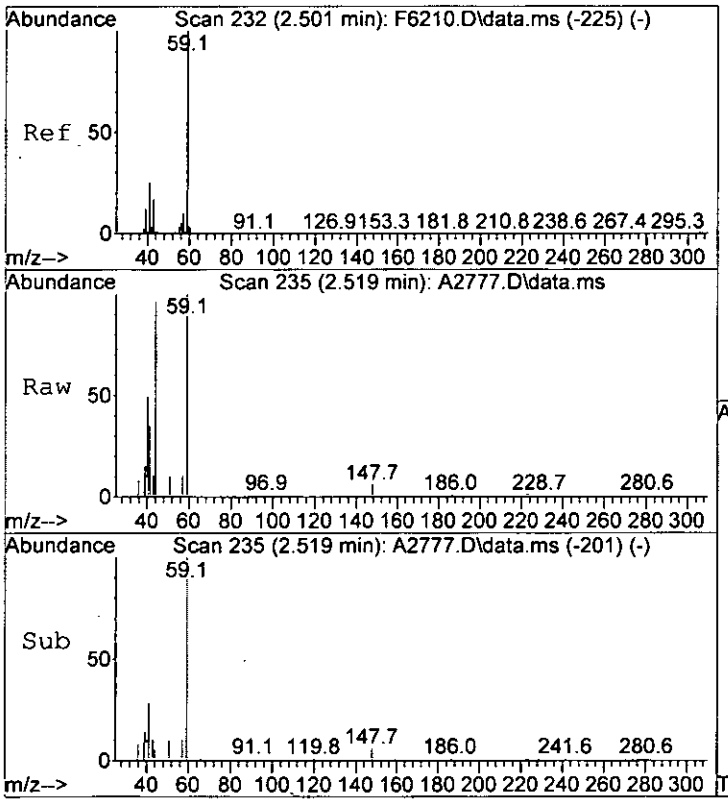


#15
Acetone
Concen: 7.43 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2777.D
Acq: 9 Oct 2014 5:26 pm

Tgt Ion: 43 Resp: 20514

Ion	Ratio	Lower	Upper
43	100		
58	24.5	7.2	47.2
42	5.4	0.0	27.0

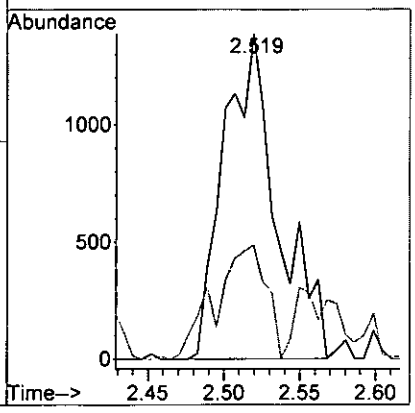


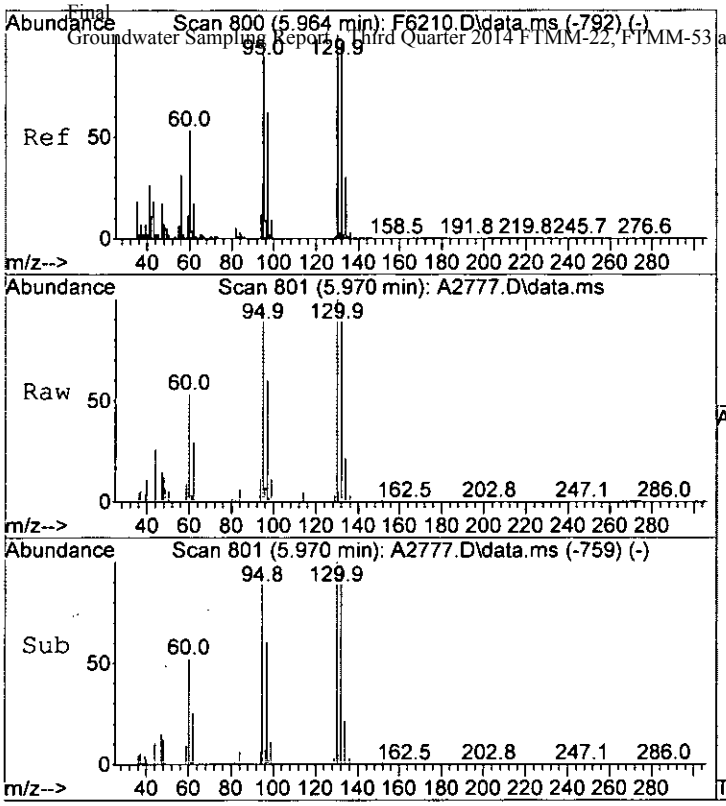


#23
TBA
Concen: 7.24 ug/L m
RT: 2.519 min Scan# 235
Delta R.T. 0.018 min
Lab File: A2777.D
Acq: 9 Oct 2014 5:26 pm

Tgt Ion: 59 Resp: 3403

Ion	Ratio	Lower	Upper
59	100		
41	35.1	2.8	42.8

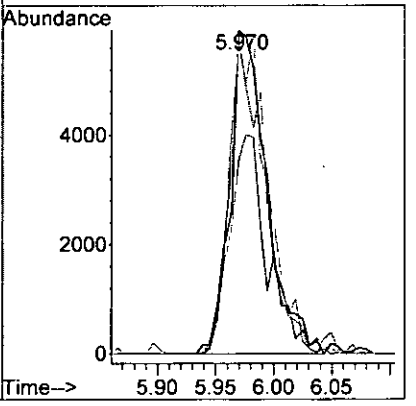




#54
Trichloroethene
Concen: 1.48 ug/L
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: A2777.D
Acq: 9 Oct 2014 5:26 pm

Tgt Ion:130 Resp: 12931

Ion	Ratio	Lower	Upper
130	100		
132	93.3	74.1	114.1
95	91.2	76.9	116.9
97	58.7	43.7	83.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2777.D
Acq On : 9 Oct 2014 5:26 pm
Operator : F.NAEGLER
Sample : R1407806-014|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2777.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.318	521	530	538	rBV	564538	1402384	34.06%	6.006%
2	4.409	538	545	562	rVB	981102	2546623	61.85%	10.906%
3	4.854	609	618	637	rBV	497429	1343799	32.64%	5.755%
4	5.610	735	742	763	rBV	1391758	3147223	76.44%	13.478%
5	5.976	794	802	812	rVB4	35009	80211	1.95%	0.344%
6	7.427	1035	1040	1062	rBV	2670327	4117112	100.00%	17.631%
7	8.841	1267	1272	1287	rBV	2828731	3756482	91.24%	16.087%
8	9.884	1438	1443	1460	rBV	2240819	3000111	72.87%	12.848%
9	10.835	1594	1599	1615	rBV	3204768	3957125	96.11%	16.946%

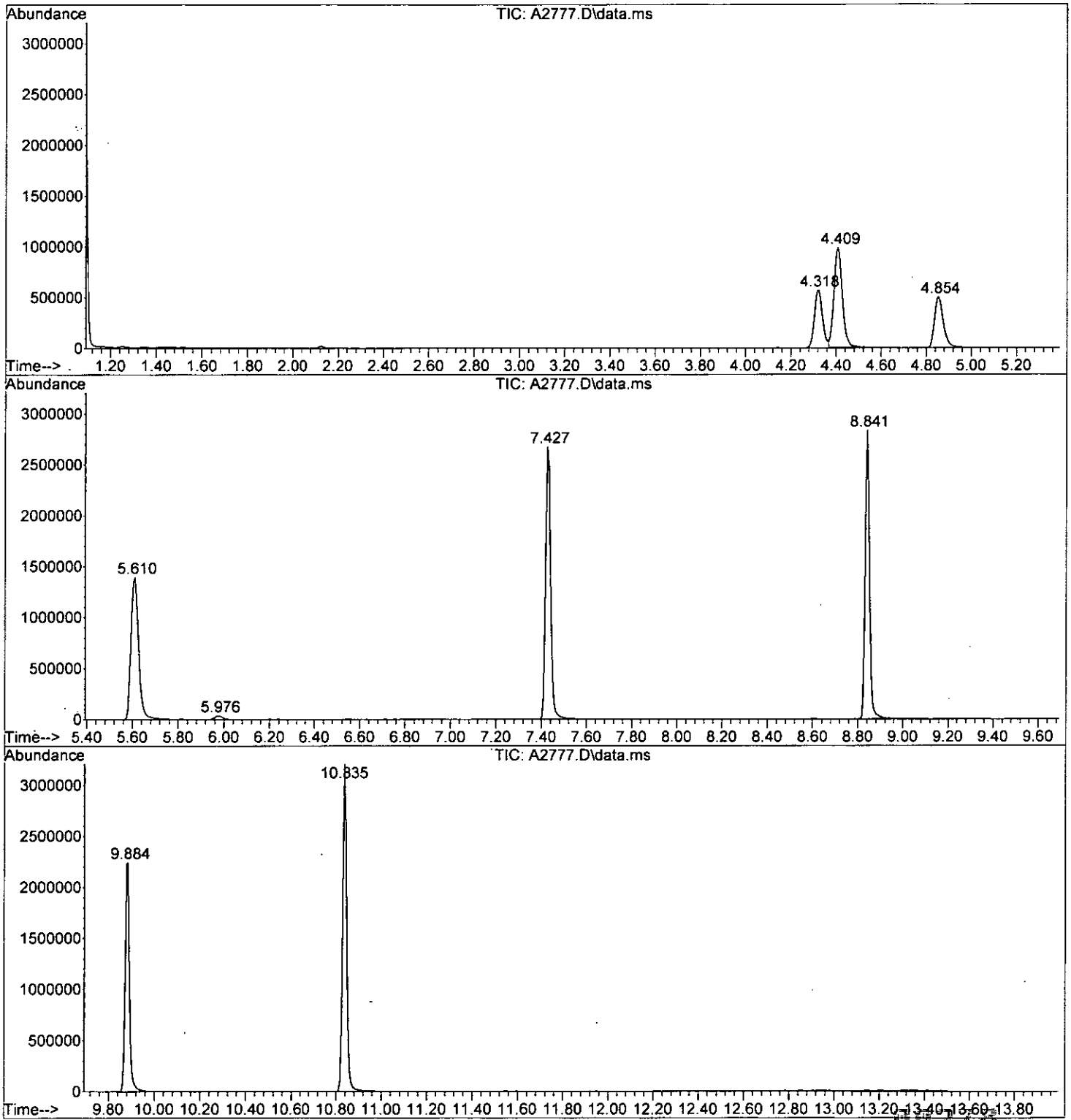
Sum of corrected areas: 23351070

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2777.D
Acq On : 9 Oct 2014 5:26 pm
Operator : F.NAEGLER
Sample : R1407806-014|1.0
Misc : PARSONS 11603 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:45:16 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2777.D
Acq On : 9 Oct 2014 5:26 pmm
Operator : F.NAEGLERR
Sample : R1407806-014|1.0
Misc : PARSONS 11603 T44
ALS Vial : 16 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

W072114.M Tue Oct 14 14:45:17 2014 MSVO10 Page: 3

00279

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1310
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:56
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1407806-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2778.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	**6.7**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1310
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:56
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1407806-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2778.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	0.32	
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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1310
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 17:56
Sample Name:	FTMM-22-GW-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1407806-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2778.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	75-120	10/9/14 17:56	
Dibromofluoromethane	105	85-115	10/9/14 17:56	
Toluene-d8	100	85-120	10/9/14 17:56	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1756

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

Sample Name: FTMM-22-GW-CW1MW37-11.78
Lab Code: R1407806-015

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-015|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2778.D Vial: 17
Acq On : 9 Oct 2014 5:56 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:47:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	904547	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1275383	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1135589	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	622149	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	427495	52.57	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.14%			
48) surr1,1,2-dichloroetha...	4.854	65	494633	57.63	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 115.26%			
65) SURR3,Toluene-d8	7.433	98	1429438	49.91	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.82%			
70) SURR2,BFB	9.878	95	568436	50.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.86%			
Target Compounds						Qvalue
15) Acetone	2.123	43	18373	6.67	ug/L	98
23) TBA	2.513	59	3589	7.65	ug/L #	49

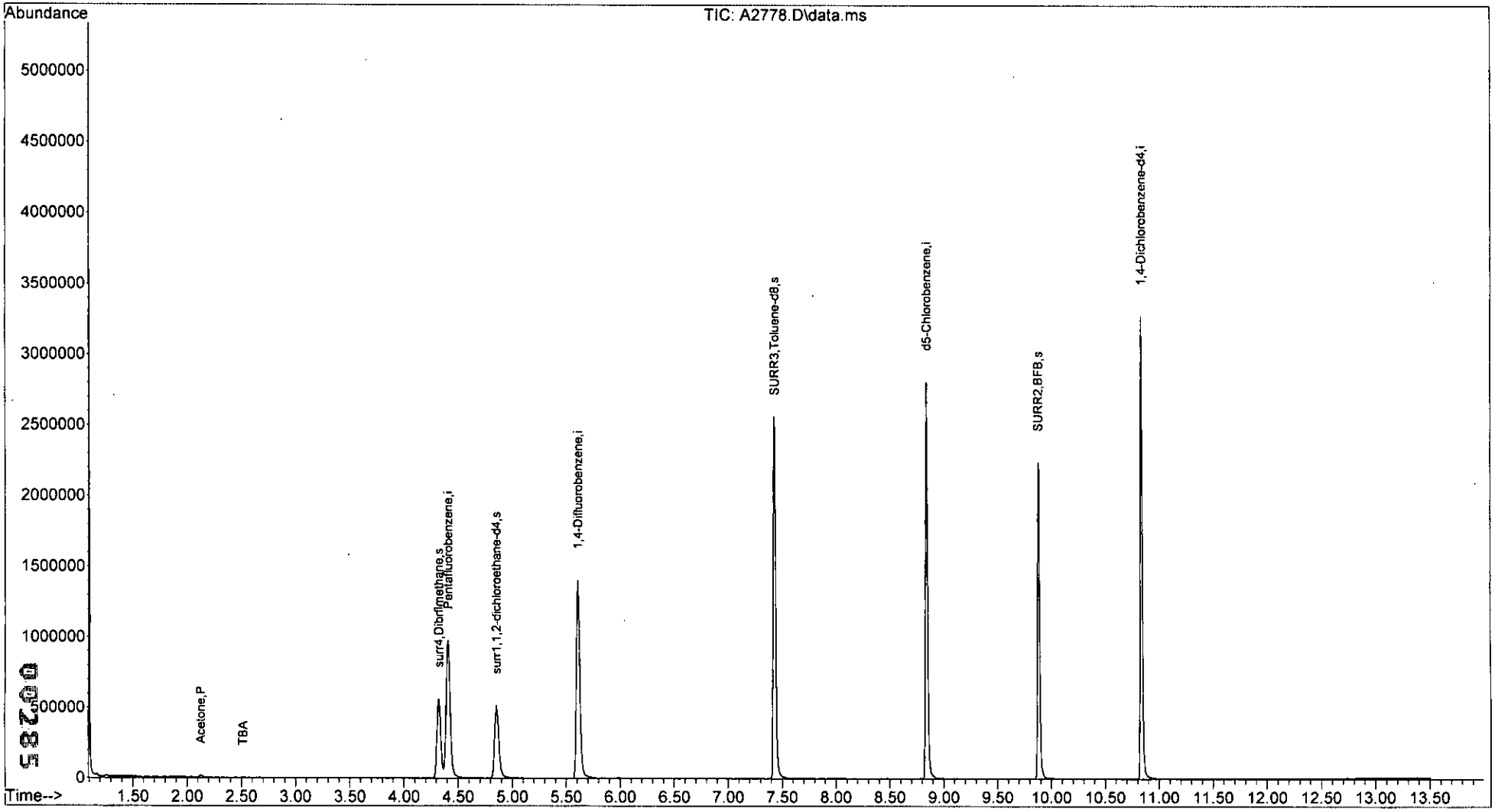
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FJ
12/19/14

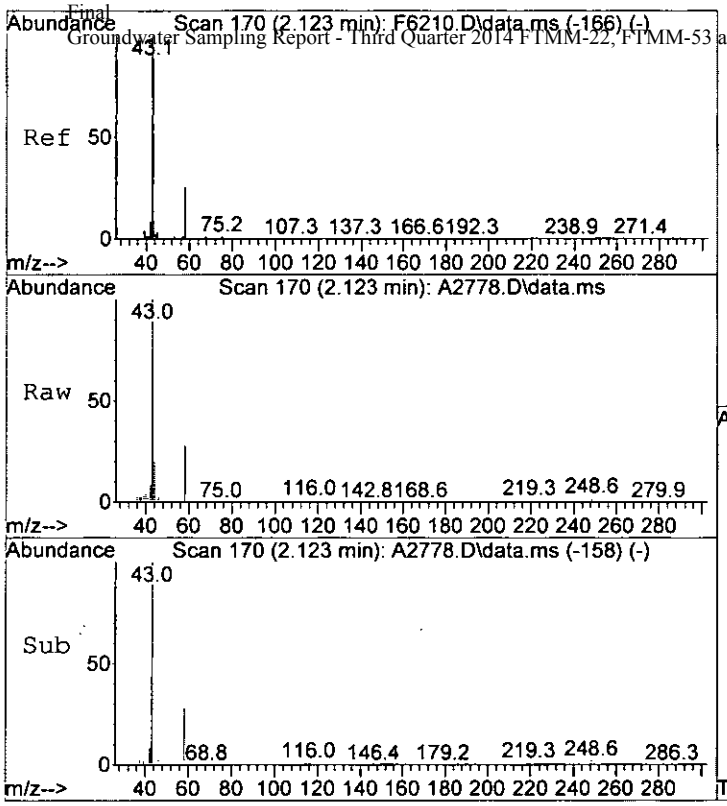
Quantitation Report (QT Reviewed)

Sample : R1407806-015|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2778.D Vial: 17
Acq On : 9 Oct 2014 5:56 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:47:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



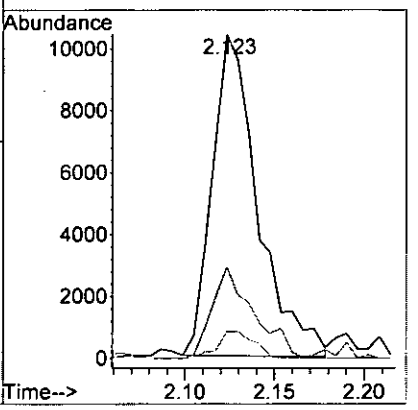
W072114.M Tue Oct 14 14:48:34 2014 MSVO10 Page: 2

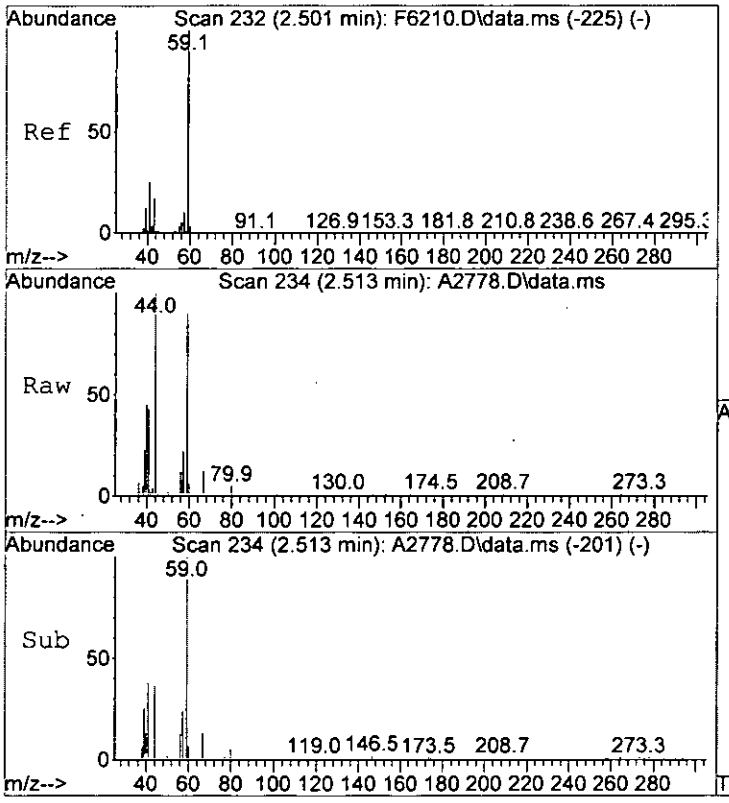


#15
Acetone
Concen: 6.67 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2778.D
Acq: 9 Oct 2014 5:56 pm

Tgt Ion: 43 Resp: 18373

Ion	Ratio	Lower	Upper
43	100		
58	28.3	7.2	47.2
42	8.2	0.0	27.0

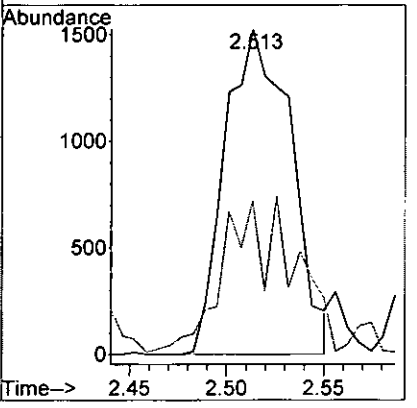




#23
TBA
Concen: 7.65 ug/L
RT: 2.513 min Scan# 234
Delta R.T. 0.012 min
Lab File: A2778.D
Acq: 9 Oct 2014 5:56 pm

Tgt Ion: 59 Resp: 3589

Ion	Ratio	Lower	Upper
59	100		
41	47.3	2.8	42.8#



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2778.D
Acq On : 9 Oct 2014 5:56 pm
Operator : F.NAEGLER
Sample : R1407806-015|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2778.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.324	521	531	538	rBV2	560066	1392100	33.99%	5.988%
2	4.409	538	545	566	rVB	972700	2552833	62.33%	10.980%
3	4.854	609	618	638	rBV	511803	1367866	33.40%	5.883%
4	5.610	734	742	761	rBV	1398491	3130010	76.43%	13.463%
5	7.427	1035	1040	1057	rBV	2560165	4095456	100.00%	17.615%
6	8.841	1267	1272	1289	rBV	2805934	3753897	91.66%	16.146%
7	9.878	1438	1442	1455	rBV	2234728	2961851	72.32%	12.739%
8	10.835	1594	1599	1612	rBV	3270123	3995375	97.56%	17.185%

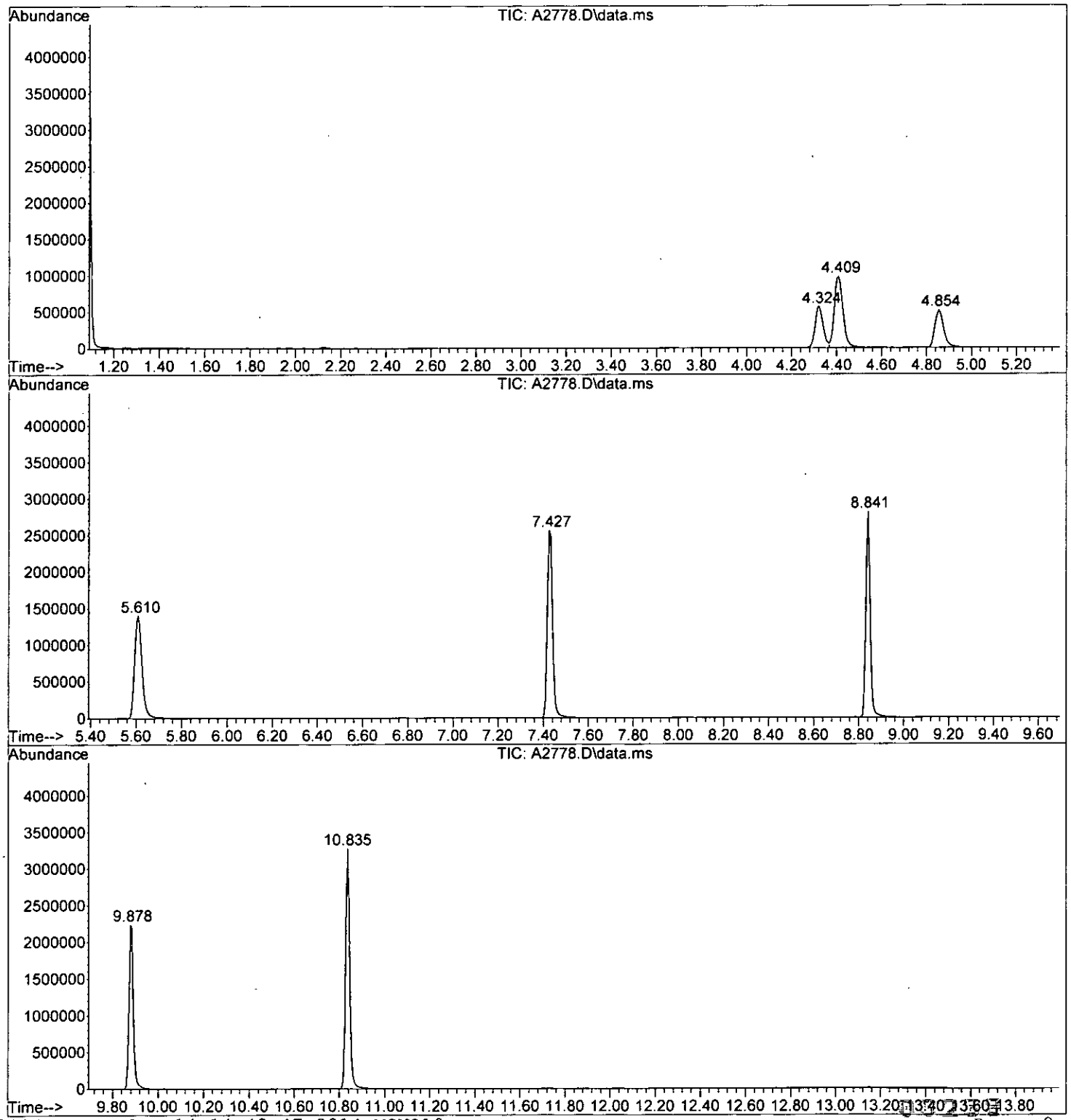
Sum of corrected areas: 23249388

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2778.D
Acq On    :  9 Oct 2014    5:56 pm
Operator  : F.NAEGLER
Sample    : R1407806-015|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:48:47 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2778.D
Acq On : 9 Oct 2014 5:56 pmm
Operator : F.NAEGLERR
Sample : R1407806-015|1.0
Misc : PARSONS 11603 T44
ALS Vial : 17 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

00289

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1252
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:29
Sample Name:	FTMM-22-GW-CW1MW28I-33.74	**Units:**	µg/L
Lab Code:	R1407806-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2767.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)	**0.69**	J	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	**6.2**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1252
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:29
Sample Name:	FTMM-22-GW-CW1MW28I-33.74	**Units:**	µg/L
Lab Code:	R1407806-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2767.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	0.32	
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)	**150**		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	**1.1**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**14**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1252
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:29
Sample Name:	FTMM-22-GW-CW1MW28I-33.74	**Units:**	µg/L
Lab Code:	R1407806-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2767.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	75-120	10/9/14 12:29	
Dibromofluoromethane	105	85-115	10/9/14 12:29	
Toluene-d8	99	85-120	10/9/14 12:29	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1229

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

Sample Name: FTMM-22-GW-CW1MW28I-33.74
Lab Code: R1407806-016

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-016|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2767.D Vial: 6
Acq On : 9 Oct 2014 12:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:16:19 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	974395	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1371680	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1223923	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	638895	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	460537	52.65	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.30%				
48) surr1,1,2-dichloroetha...	4.854	65	500153	54.18	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 108.36%				
65) SURR3,Toluene-d8	7.427	98	1525747	49.53	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.06%				
70) SURR2,BFB	9.878	95	611330	50.43	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.86%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.361	62	13426	1.05	ug/L		89
13) 1,1-Diclethene	2.099	96	4659	0.69	ug/L	#	56
15) Acetone	2.123	43	18311	6.17	ug/L		91
23) TBA	2.507	59	3397m	6.73	ug/L		
34) cis-1,2-Dichloroethene	3.678	96	136307	14.24	ug/L	#	81
54) Trichloroethene	5.964	130	1417736	151.66	ug/L		98
116) Hexachlorobt	12.329	225	880	0.22	ug/L	#	66

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

FD 10/14/14

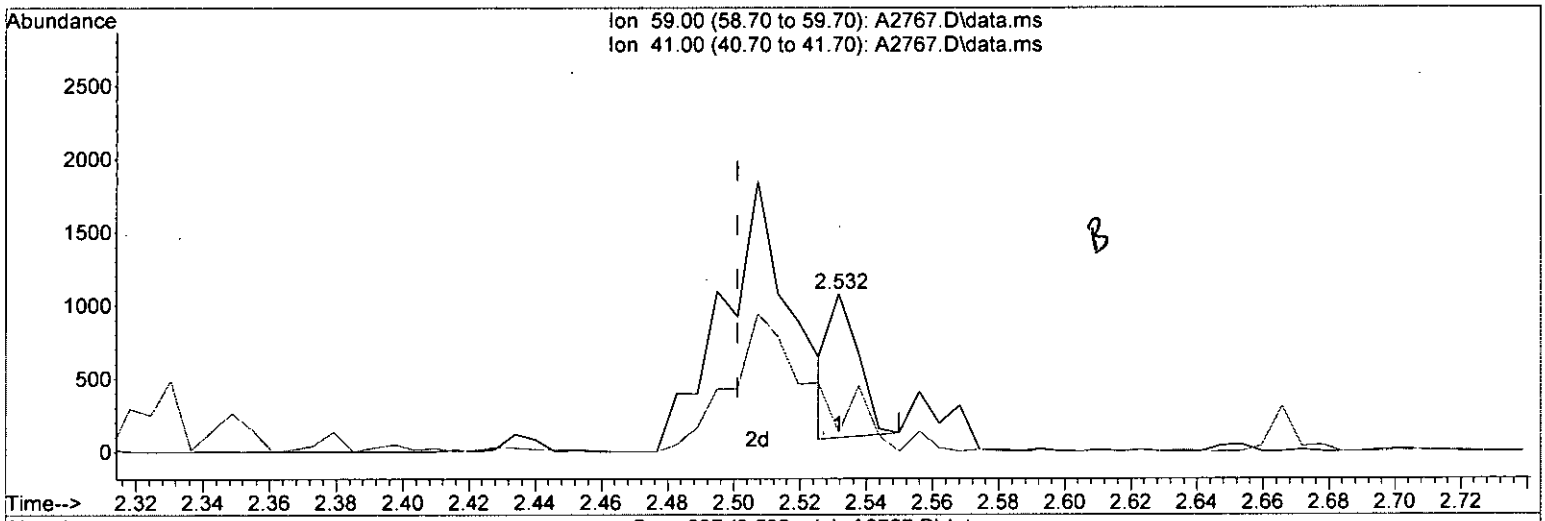
KB 10/14/14

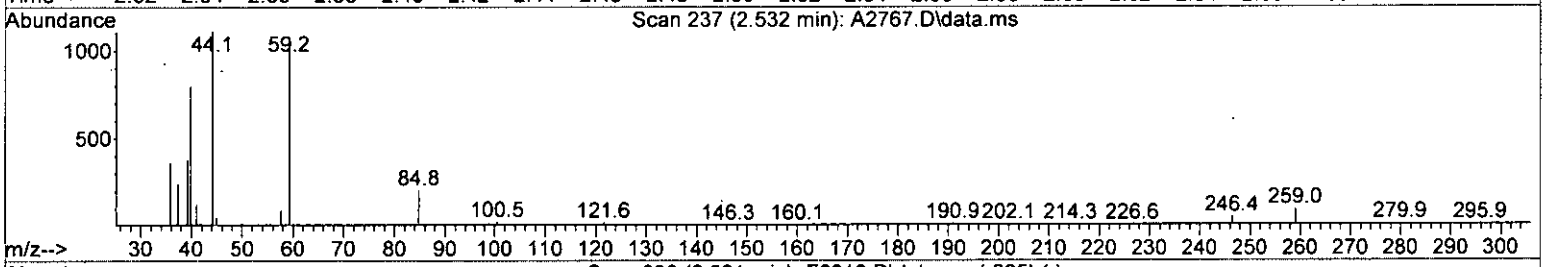
W072114.M Tue Oct 14 14:16:26 2014 MSVO10 Page: 1

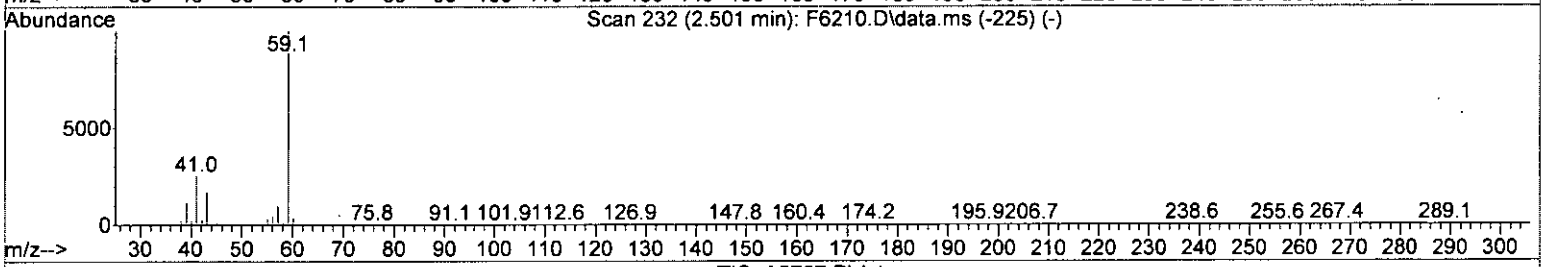
Quantitation Report (Qedit)

Sample : R1407896-016|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2767.D Vial: 6
Acq On : 9 Oct 2014 12:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 12:42:59 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2767.D\data.ms

(23) TBA

2.532min (+0.030) 1.17 ug/L

response 590

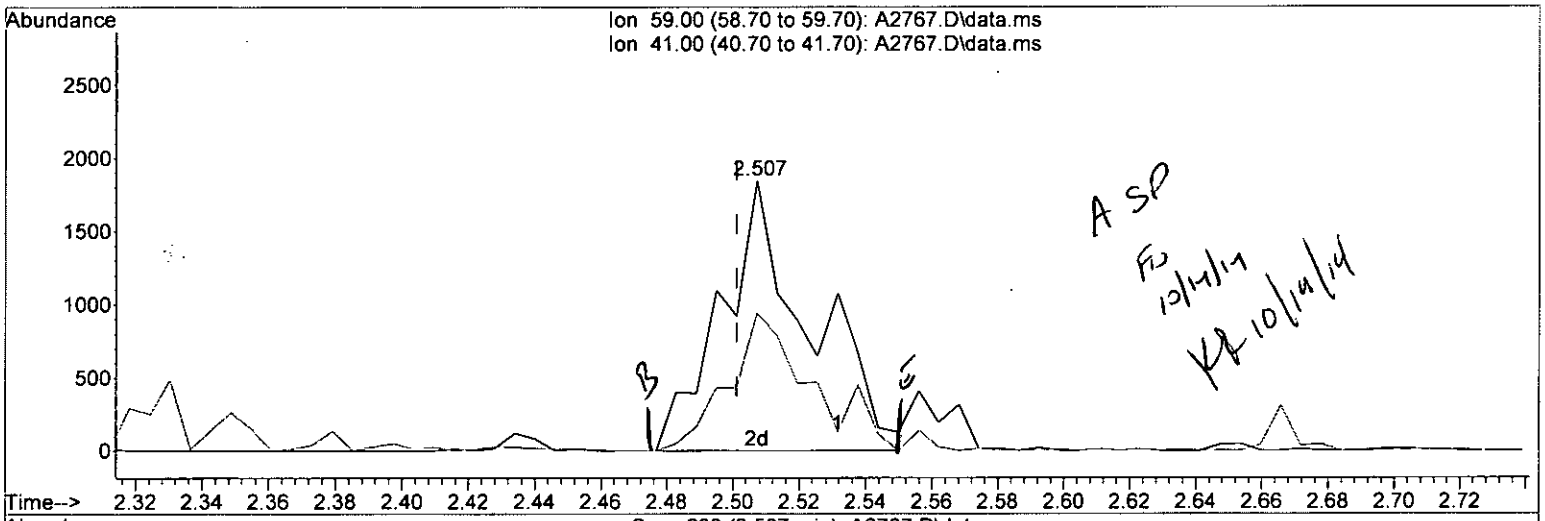
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	11.61
0.00	0.00	0.00
0.00	0.00	0.00

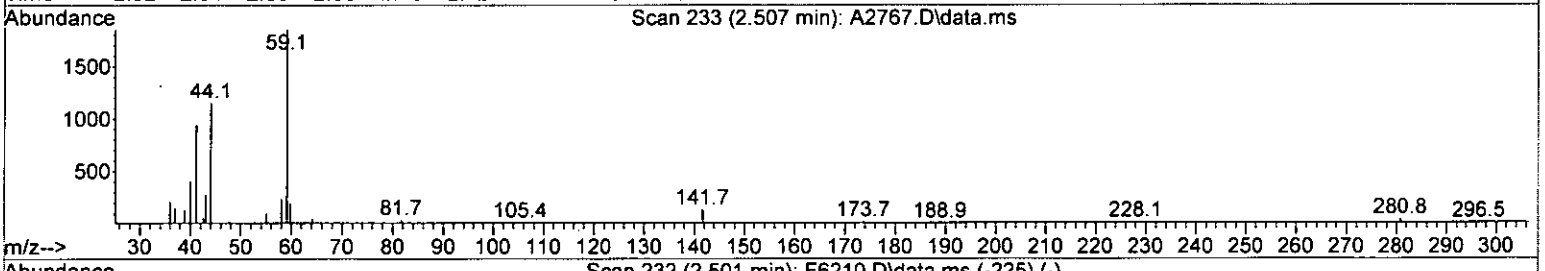
W072114.M Tue Oct 14 14:01:53 2014 MSVO10 Page: 1

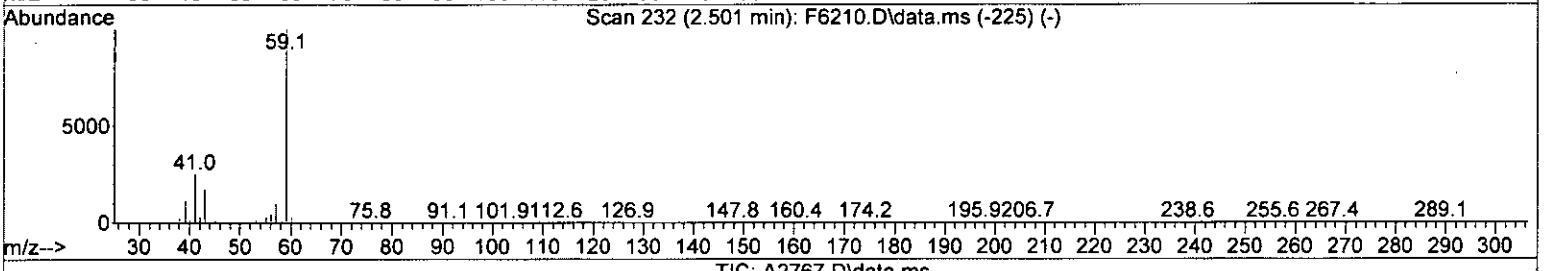
Quantitation Report (Qedit)

Sample : R1407806-016|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2767.D Vial: 6
Acq On : 9 Oct 2014 12:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 12:42:59 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2767.D\data.ms

(23) TBA

2.507min (+0.006) 6.73 ug/L m

response 3397

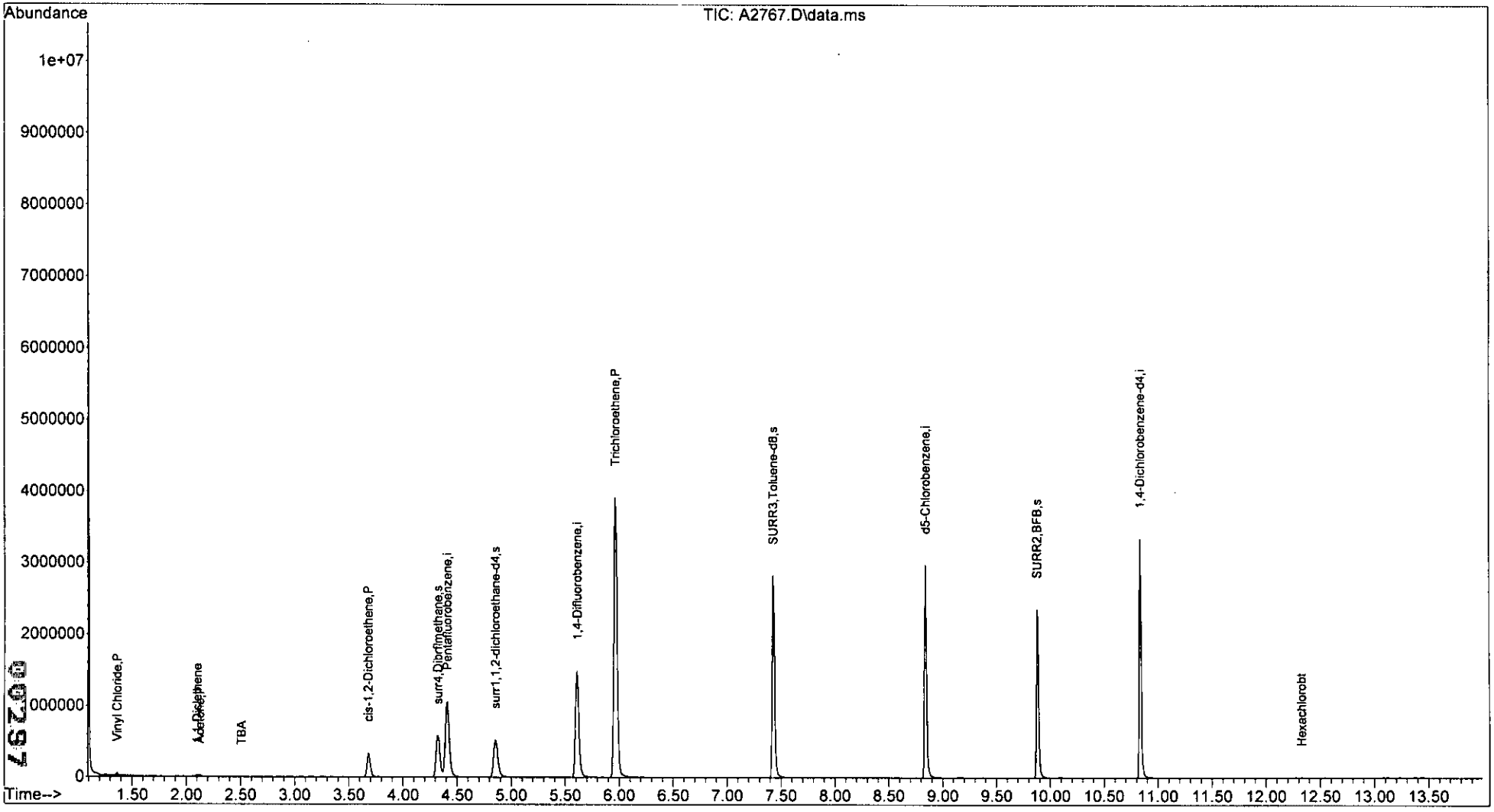
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	51.00#
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 14:02:00 2014 MSVO10 Page: 1

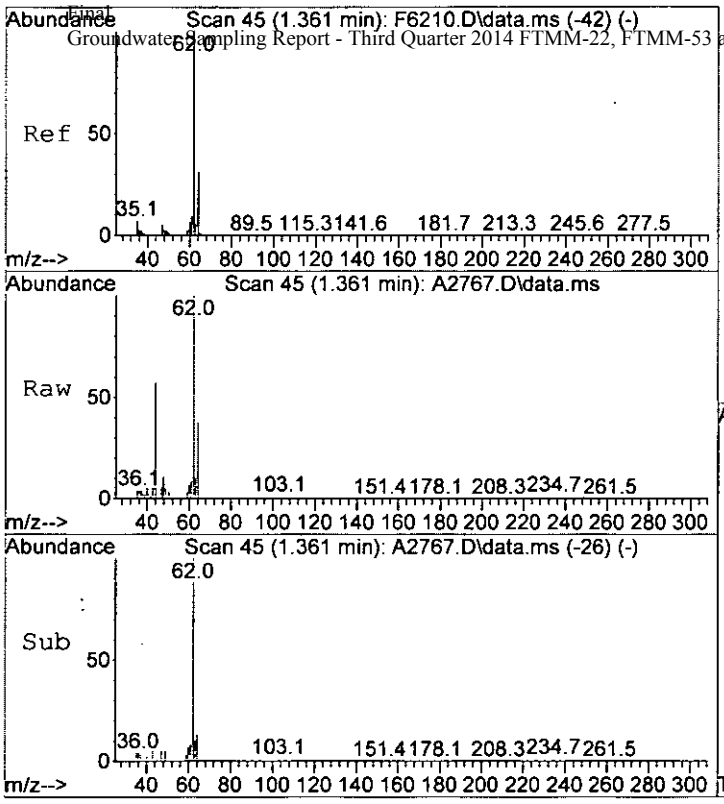
Quantitation Report (QT Reviewed)

Sample : R1407806-016|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2767.D Vial: 6
Acq On : 9 Oct 2014 12:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:16:19 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



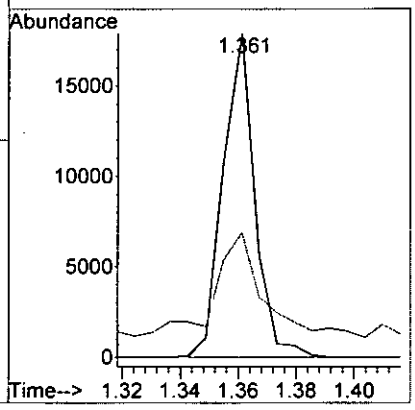
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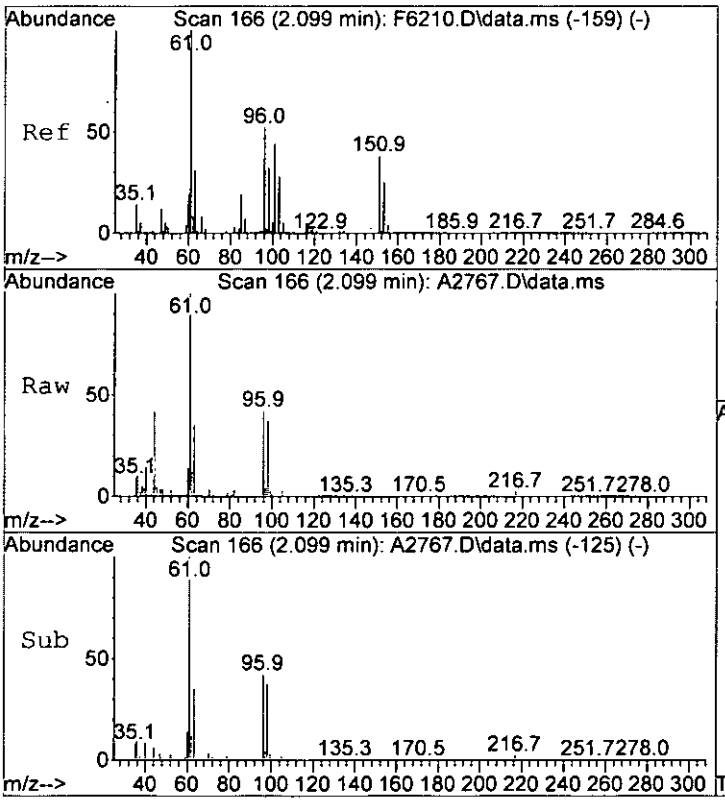


#4
Vinyl Chloride
Concen: 1.05 ug/L
RT: 1.361 min Scan# 45
Delta R.T. -0.000 min
Lab File: A2767.D
Acq: 9 Oct 2014 12:29 pm

Tgt Ion: 62 Resp: 13426

Ion	Ratio	Lower	Upper
62	100		
64	38.4	12.0	52.0

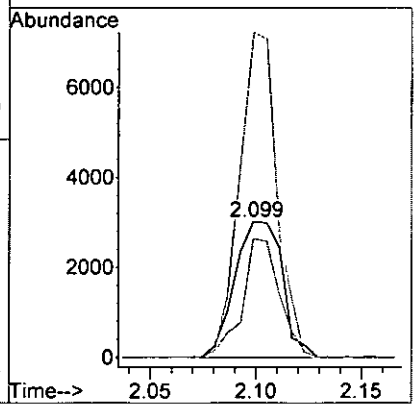




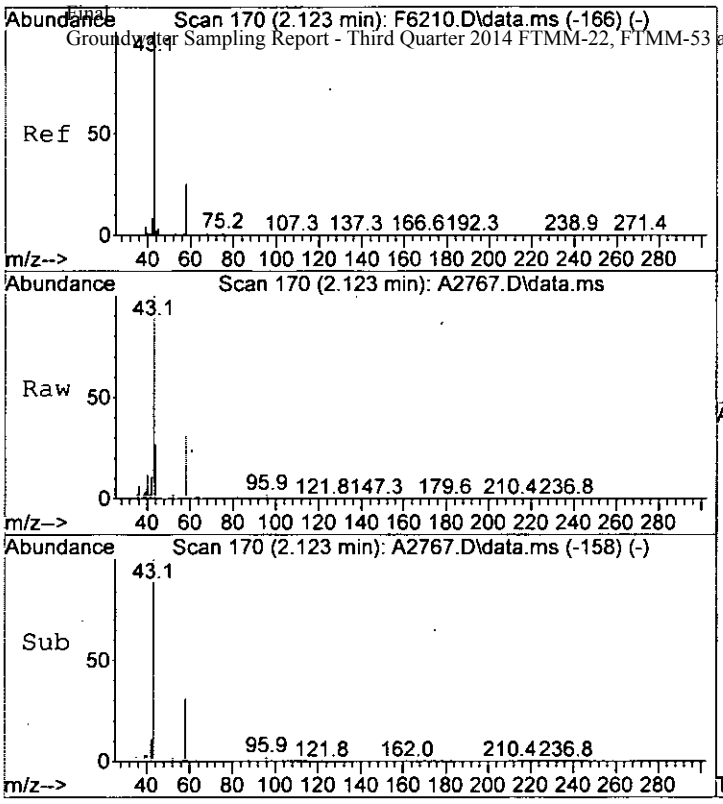
#13
1,1-Diclethene
Concen: 0.69 ug/L
RT: 2.099 min Scan# 166
Delta R.T. -0.000 min
Lab File: A2767.D
Acq: 9 Oct 2014 12:29 pm

Tgt Ion: 96 Resp: 4659

Ion	Ratio	Lower	Upper
96	100		
98	87.6	47.5	87.5#
61	239.6	149.6	189.6#



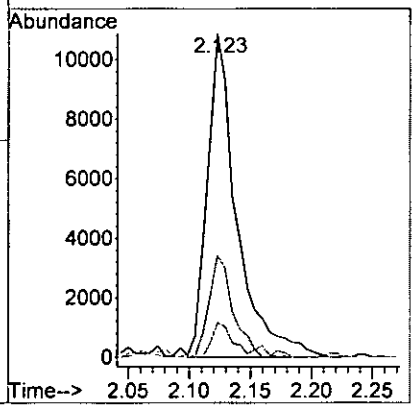
A2767.D W072114.M Tue Oct 14 14:16:30 2014 MSVO10 Page 3

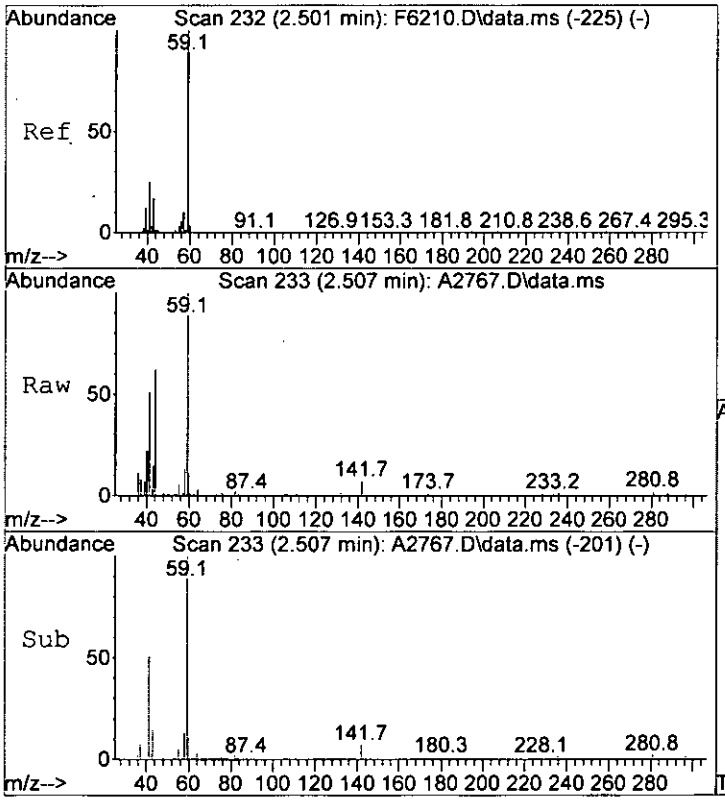


#15
Acetone
Concen: 6.17 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2767.D
Acq: 9 Oct 2014 12:29 pm

Tgt Ion: 43 Resp: 18311

Ion	Ratio	Lower	Upper
43	100		
58	31.4	7.2	47.2
42	10.7	0.0	27.0

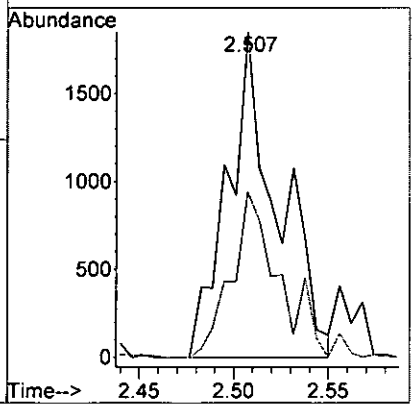


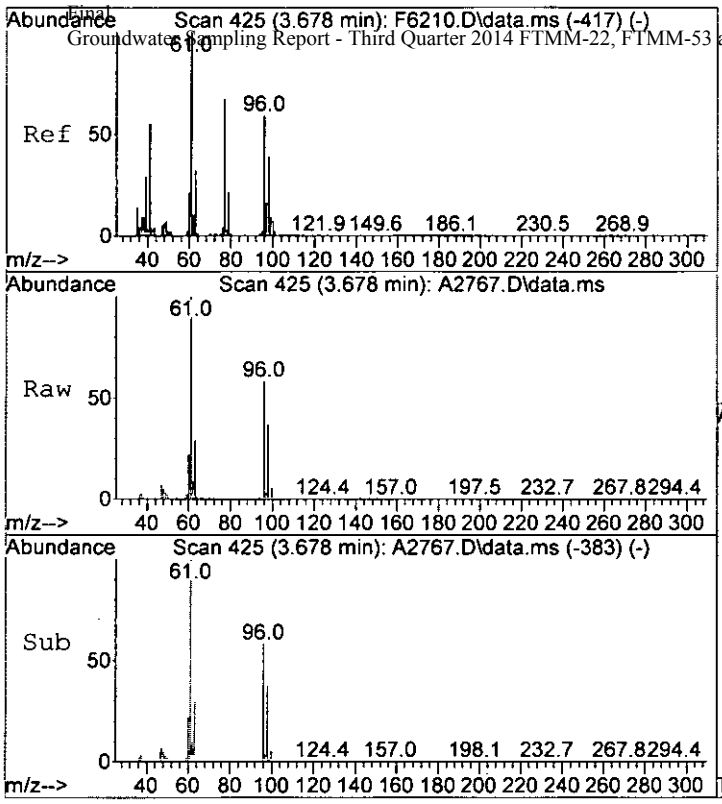


#23
TBA
Concen: 6.73 ug/L m
RT: 2.507 min Scan# 233
Delta R.T. 0.006 min
Lab File: A2767.D
Acq: 9 Oct 2014 12:29 pm

Tgt Ion: 59 Resp: 3397

Ion	Ratio	Lower	Upper
59	100		
41	51.0	2.8	42.8#

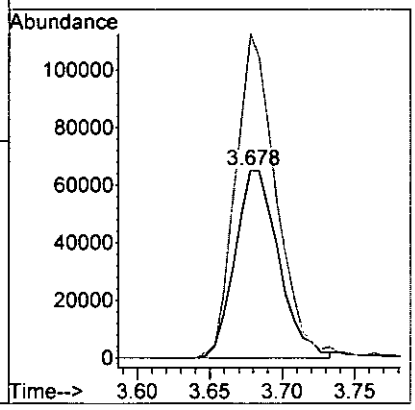


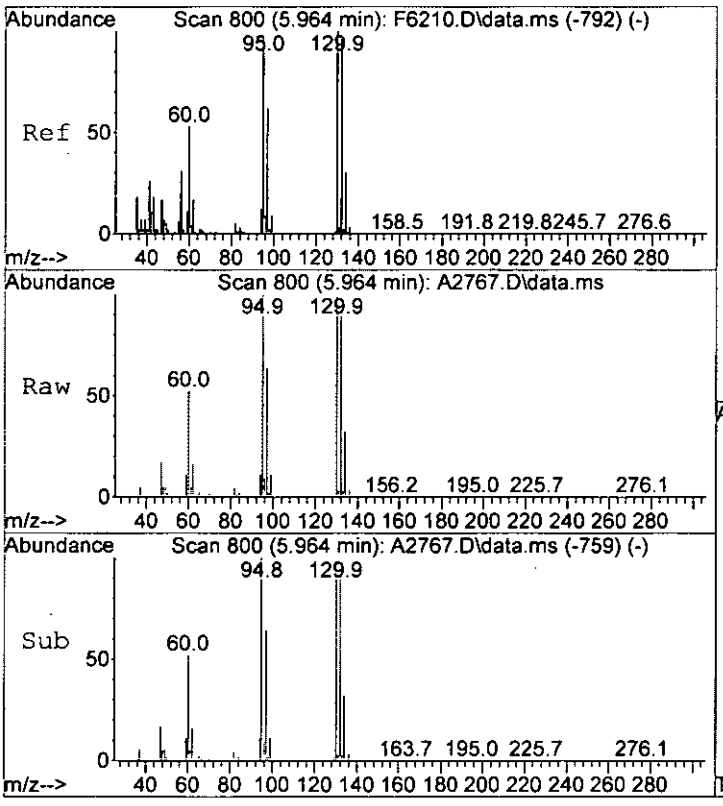


#34
cis-1,2-Dichloroethene
Concen: 14.24 ug/L
RT: 3.678 min Scan# 425
Delta R.T. -0.000 min
Lab File: A2767.D
Acq: 9 Oct 2014 12:29 pm

Tgt Ion: 96 Resp: 136307

Ion	Ratio	Lower	Upper
96	100		
61	172.3	128.3	168.3#

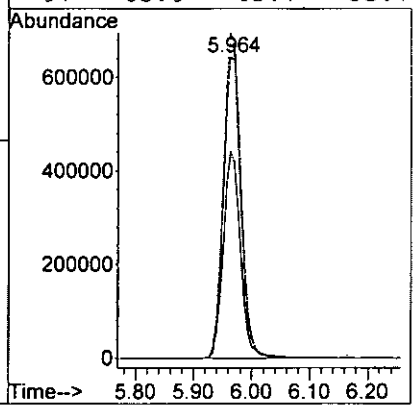


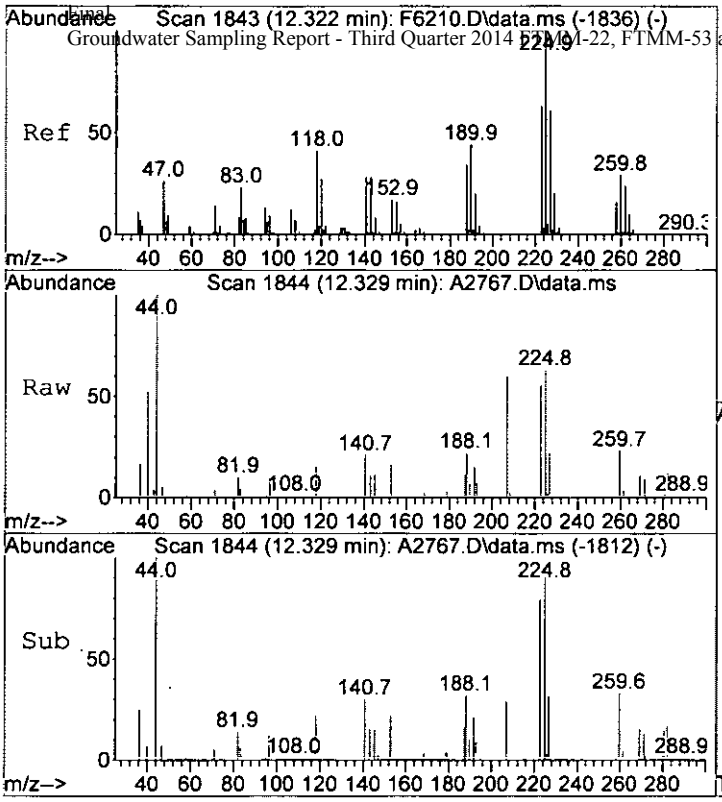


#54
Trichloroethene
Concen: 151.66 ug/L
RT: 5.964 min Scan# 800
Delta R.T. -0.000 min
Lab File: A2767.D
Acq: 9 Oct 2014 12:29 pm

Tgt Ion:130 Resp: 1417736

Ion	Ratio	Lower	Upper
130	100		
132	93.0	74.1	114.1
95	100.6	76.9	116.9
97	63.9	43.7	83.7

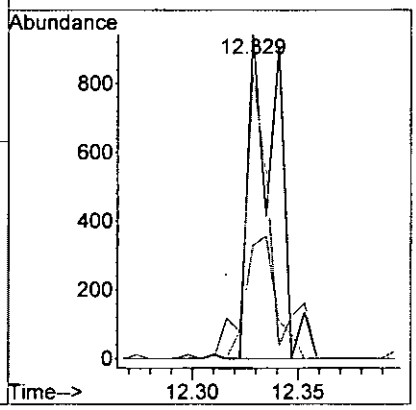




#116
Hexachlorobt
Concen: 0.22 ug/L
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: A2767.D
Acq: 9 Oct 2014 12:29 pm

Tgt Ion:225 Resp: 880

Ion	Ratio	Lower	Upper
225	100		
223	87.6	43.0	83.0#
227	34.9	43.6	83.6#



A2767.D W072114.M Tue Oct 14 14:16:33 2014 MSVO10 Page 6

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2767.D
Acq On : 9 Oct 2014 12:29 pm
Operator : F.NAEGLER
Sample : R1407806-016|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2767.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.678	418	425	438	rBV	329182	675517	8.53%	2.044%
2	4.318	521	530	538	rBV	581765	1456257	18.39%	4.406%
3	4.409	538	545	561	rVB	1049978	2716552	34.30%	8.219%
4	4.854	610	618	634	rBV2	518608	1413514	17.85%	4.277%
5	5.610	734	742	762	rBV	1485054	3349509	42.29%	10.134%
6	5.964	792	800	818	rBV	3914146	7919982	100.00%	23.963%
7	7.427	1035	1040	1056	rBV	2820031	4329886	54.67%	13.100%
8	8.841	1267	1272	1288	rBV	2973149	3967253	50.09%	12.003%
9	9.878	1437	1442	1459	rBV	2348654	3123231	39.43%	9.450%
10	10.835	1594	1599	1614	rBV	3339060	4099662	51.76%	12.404%

Sum of corrected areas: 33051363

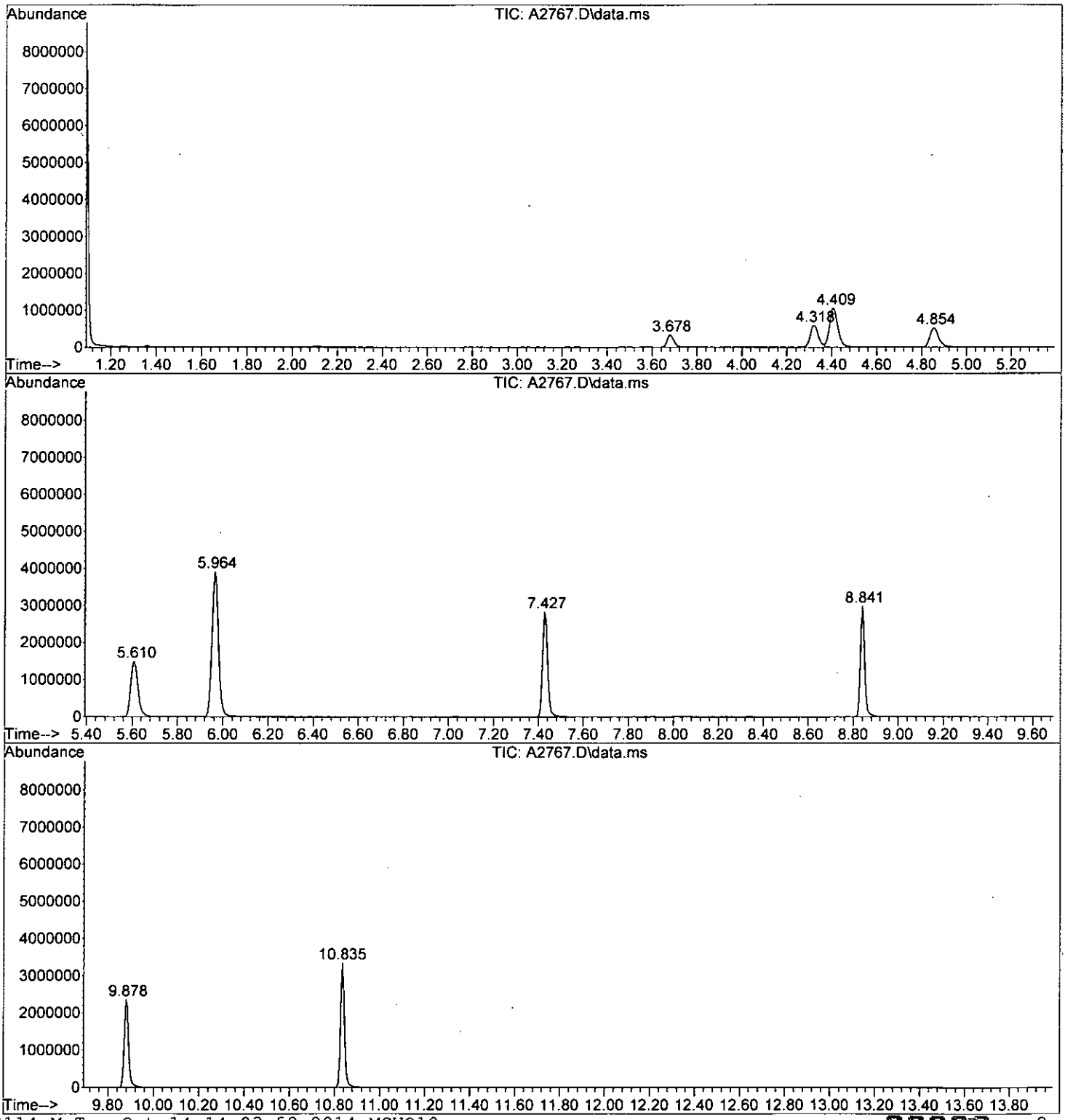
W072114.M Tue Oct 14 14:03:50 2014 MSVO10 Page: 1

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2767.D
Acq On    :  9 Oct 2014  12:29 pm
Operator  : F.NAEGLER
Sample    : R1407806-016|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 6   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:03:52 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2767.D
Acq On : 9 Oct 2014 12:29 pmm
Operator : F.NAEGLERR
Sample : R1407806-016|1.0
Misc : PARSONS 11603 T44
ALS Vial : 6 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1249
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:59
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1407806-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2768.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	7.2		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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1249
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:59
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1407806-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2768.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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1249
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 12:59
Sample Name:	FTMM-22-GW-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1407806-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2768.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	75-120	10/9/14 12:59	
Dibromofluoromethane	105	85-115	10/9/14 12:59	
Toluene-d8	99	85-120	10/9/14 12:59	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14
Date Received: 10/3/14
Date Analyzed: 10/9/14 1259

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

Sample Name: FTMM-22-GW-CW1MW27-12.63
Lab Code: R1407806-017

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Printed 10/24/2014 13:02

Form 1B

Quantitation Report (QT Reviewed)

Sample : R1407806-017|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2768.D Vial: 7
Acq On : 9 Oct 2014 12:59 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:04:56 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	951407	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1360953	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.842	117	1193613	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	629263	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	453670	52.28	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.56%			
48) surr1,1,2-dichloroetha...	4.854	65	511446	55.84	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 111.68%			
65) SURR3,Toluene-d8	7.427	98	1508626	49.36	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.72%			
70) SURR2,BFB	9.878	95	599278	49.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.66%			
Target Compounds						Qvalue
15) Acetone	2.123	43	20787	7.18	ug/L	95
23) TBA	2.507	59	3411	6.92	ug/L #	40

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

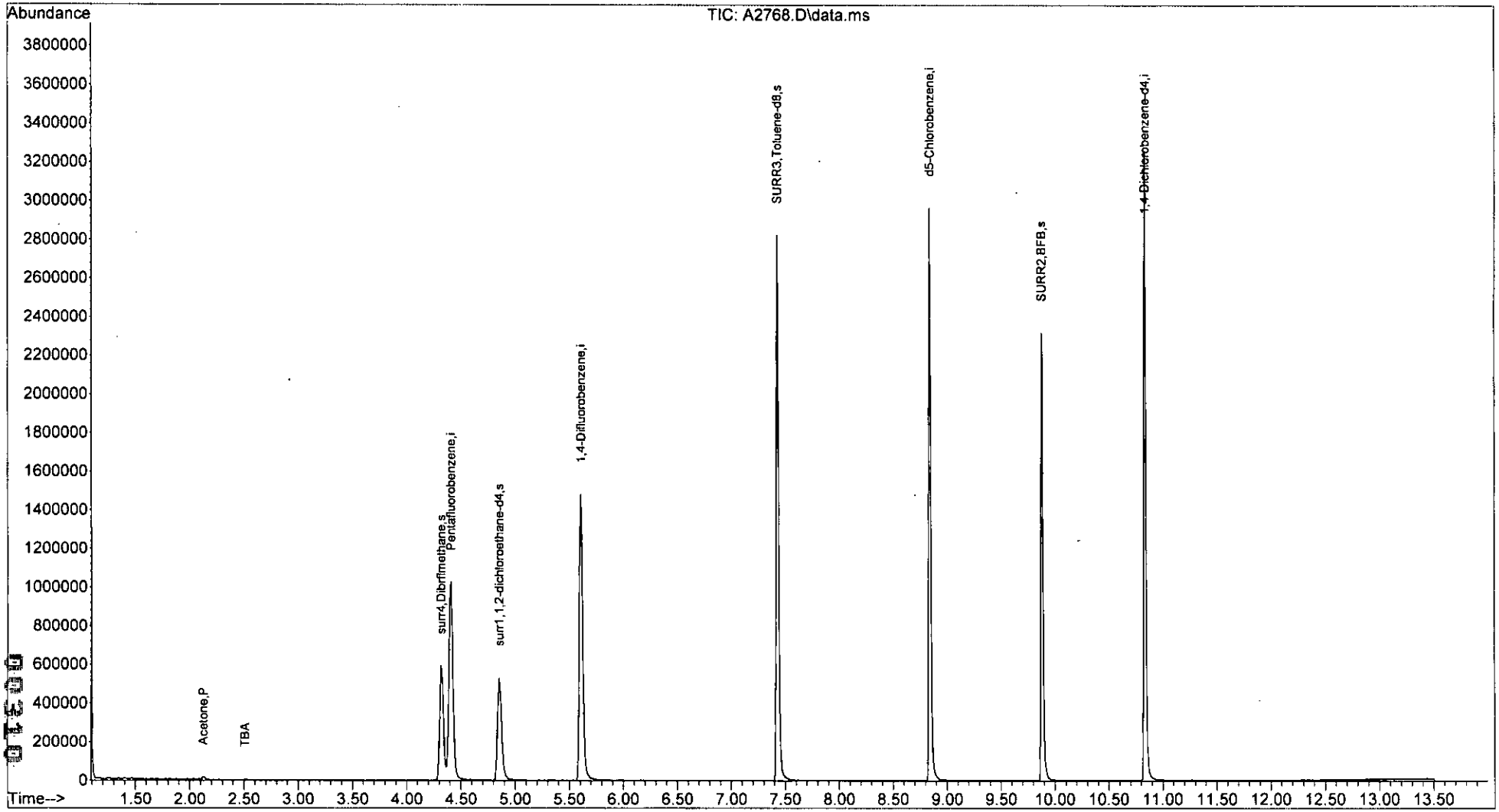
FV
10/14/14

W072114.M Tue Oct 14 14:05:24 2014 MSVO10 Page: 1

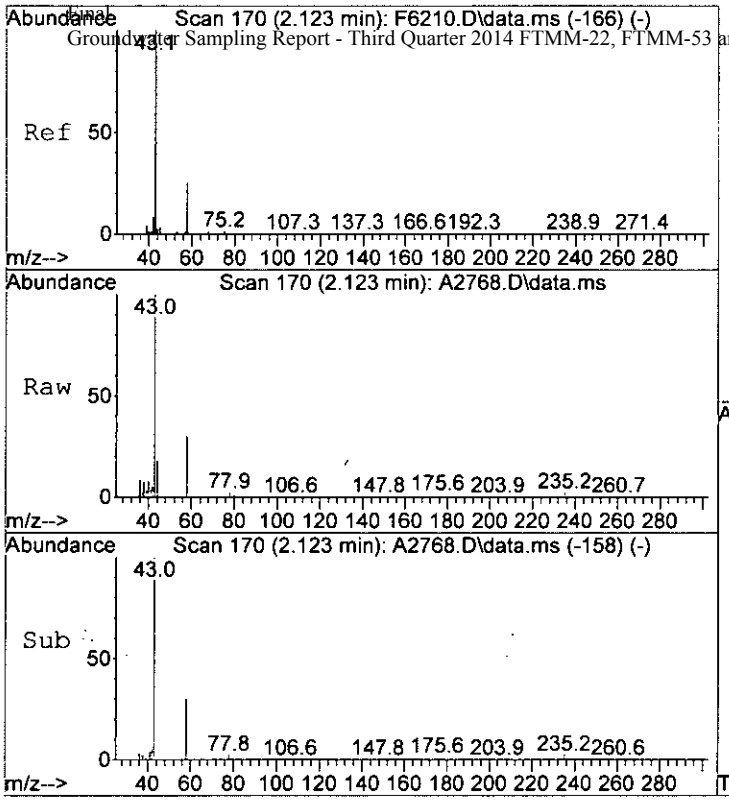
Quantitation Report (QT Reviewed)

Sample : R1407806-017|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2768.D Vial: 7
Acq On : 9 Oct 2014 12:59 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:04:56 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



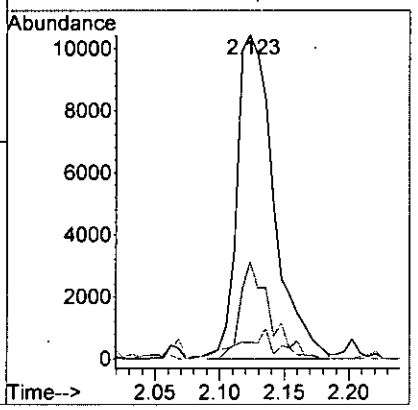
W072114.M Tue Oct 14 14:05:26 2014 MSVO10 Page: 2

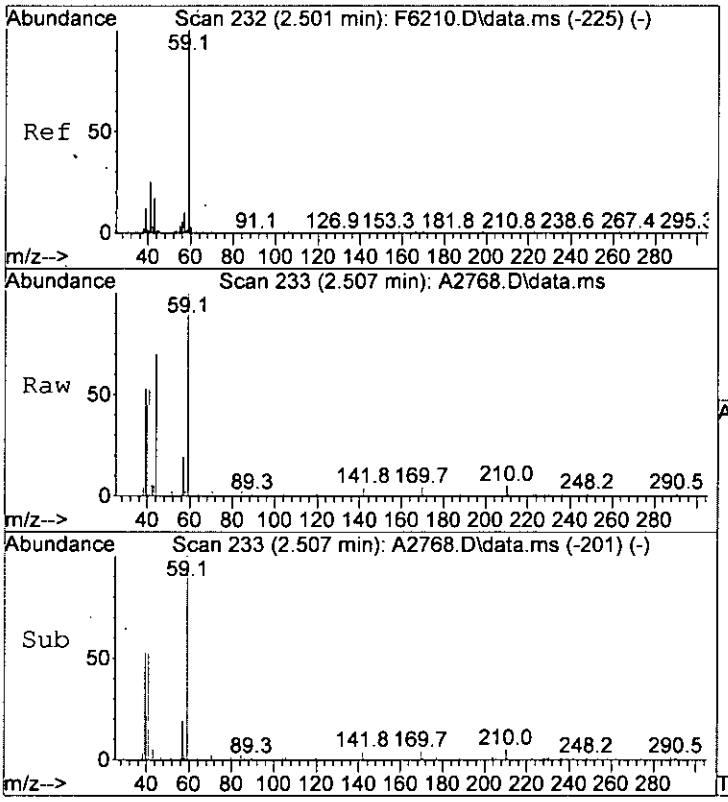


#15
Acetone
Concen: 7.18 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2768.D
Acq: 9 Oct 2014 12:59 pm

Tgt Ion: 43 Resp: 20787

Ion	Ratio	Lower	Upper
43	100		
58	29.8	7.2	47.2
42	5.1	0.0	27.0

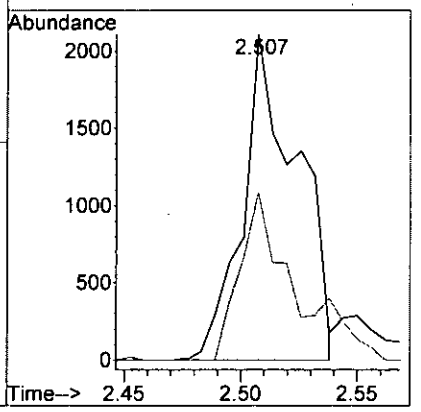




#23
TBA
Concen: 6.92 ug/L
RT: 2.507 min Scan# 233
Delta R.T. 0.006 min
Lab File: A2768.D
Acq: 9 Oct 2014 12:59 pm

Tgt Ion: 59 Resp: 3411

Ion	Ratio	Lower	Upper
59	100		
41	51.6	2.8	42.8#



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2768.D
Acq On : 9 Oct 2014 12:59 pm
Operator : F.NAEGLER
Sample : R1407806-017|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2768.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.318	520	530	537	rBV	591336	1425190	32.92%	5.910%
2	4.409	537	545	560	rVB	1019541	2674305	61.78%	11.089%
3	4.854	608	618	633	rBV	527936	1394735	32.22%	5.784%
4	5.610	734	742	762	rBV	1479528	3307971	76.42%	13.717%
5	7.427	1035	1040	1055	rBV	2820348	4328732	100.00%	17.950%
6	8.842	1267	1272	1288	rBV	2963268	3894061	89.96%	16.147%
7	9.878	1438	1442	1455	rBV	2318163	3048298	70.42%	12.640%
8	10.835	1594	1599	1611	rBV	3258279	4042365	93.38%	16.762%

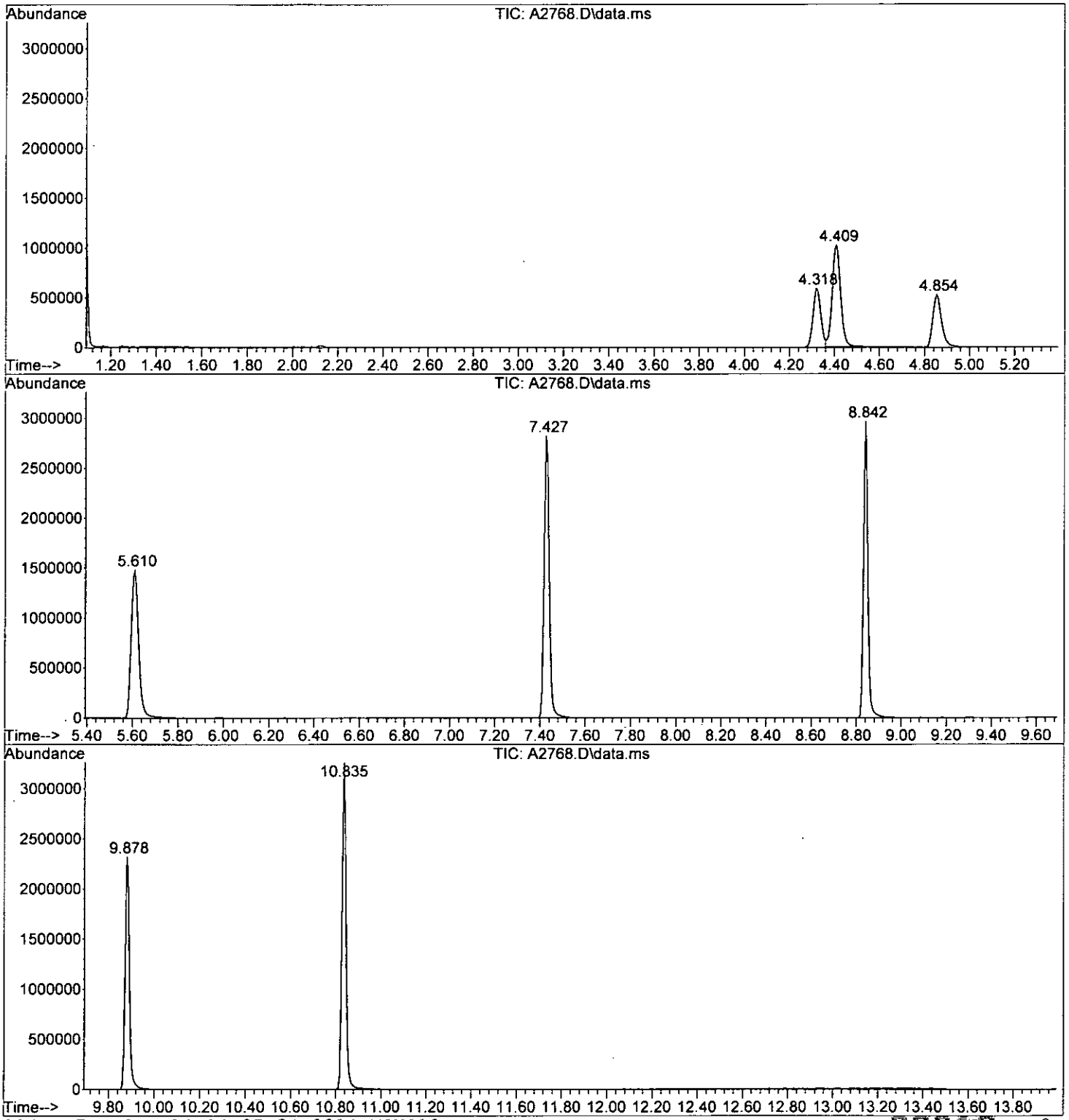
Sum of corrected areas: 24115657

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2768.D
Acq On : 9 Oct 2014 12:59 pm
Operator : F.NAEGLER
Sample : R1407806-017|1.0
Misc : PARSONS 11603 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:05:34 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2768.D
Acq On : 9 Oct 2014 12:59 pmm
Operator : F.NAEGLERR
Sample : R1407806-017|1.0
Misc : PARSONS 11603 T44
ALS Vial : 7 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

W072114.M Tue Oct 14 14:05:34 2014 MSVO10

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1257
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:29
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1407806-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2769.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	**5.6**		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:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1257
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:29
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1407806-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2769.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	0.32	
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)	**3.9**	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	**0.47**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**5.6**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1257
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:29
Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1407806-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2769.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/9/14 13:29	
Dibromofluoromethane	108	85-115	10/9/14 13:29	
Toluene-d8	101	85-120	10/9/14 13:29	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/3/14
		Date Analyzed:	10/9/14 1329

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

Sample Name:	FTMM-22-GW-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1407806-018	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-018|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2769.D Vial: 8
Acq On : 9 Oct 2014 1:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:07:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	923797	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1300462	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1165535	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	628684	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	446665	53.87	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.74%				
48) surr1,1,2-dichloroetha...	4.854	65	492758	56.31	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 112.62%				
65) SURR3,Toluene-d8	7.427	98	1481816	50.74	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.48%				
70) SURR2,BFB	9.878	95	591178	51.44	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.88%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.361	62	5711	0.47	ug/L		84
15) Acetone	2.129	43	15643	5.56	ug/L		84
23) TBA	2.513	59	2415	5.04	ug/L	#	13
26) trans-1,2-Dichloroethene	2.684	96	2187	0.26	ug/L	#	65
34) cis-1,2-Dichloroethene	3.678	96	50933m	5.61	ug/L		
54) Trichloroethene	5.970	130	34474	3.89	ug/L		88

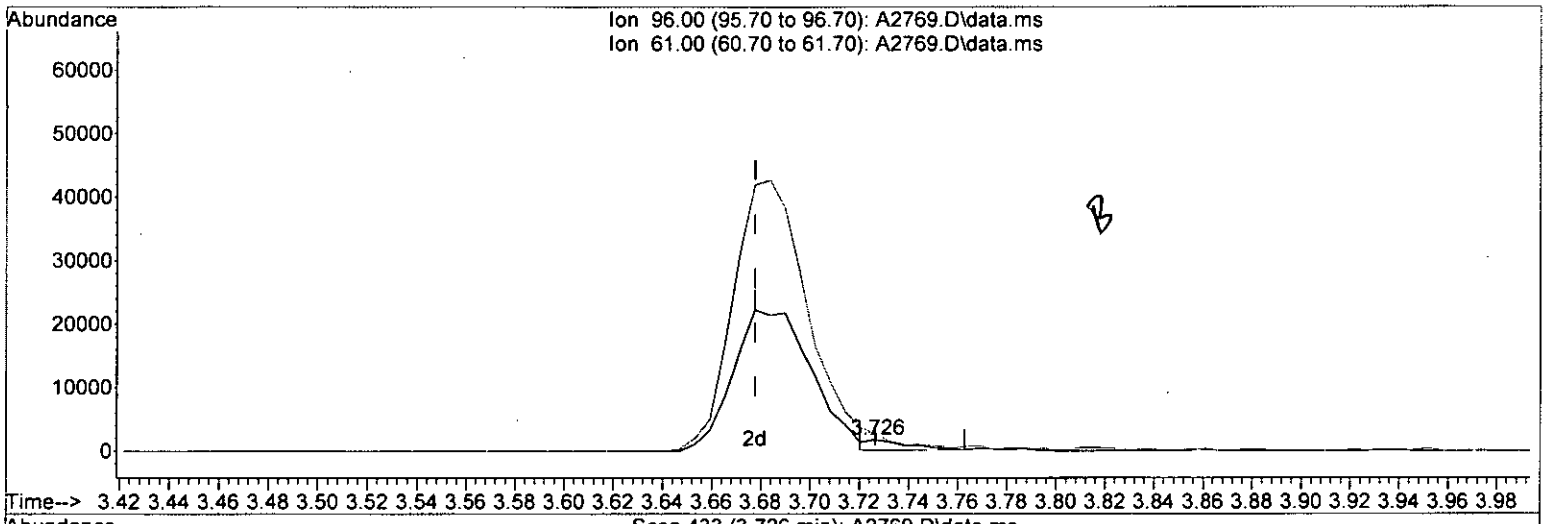
(#) = qualifier out of range (m) = manual integration (+) = signals summed

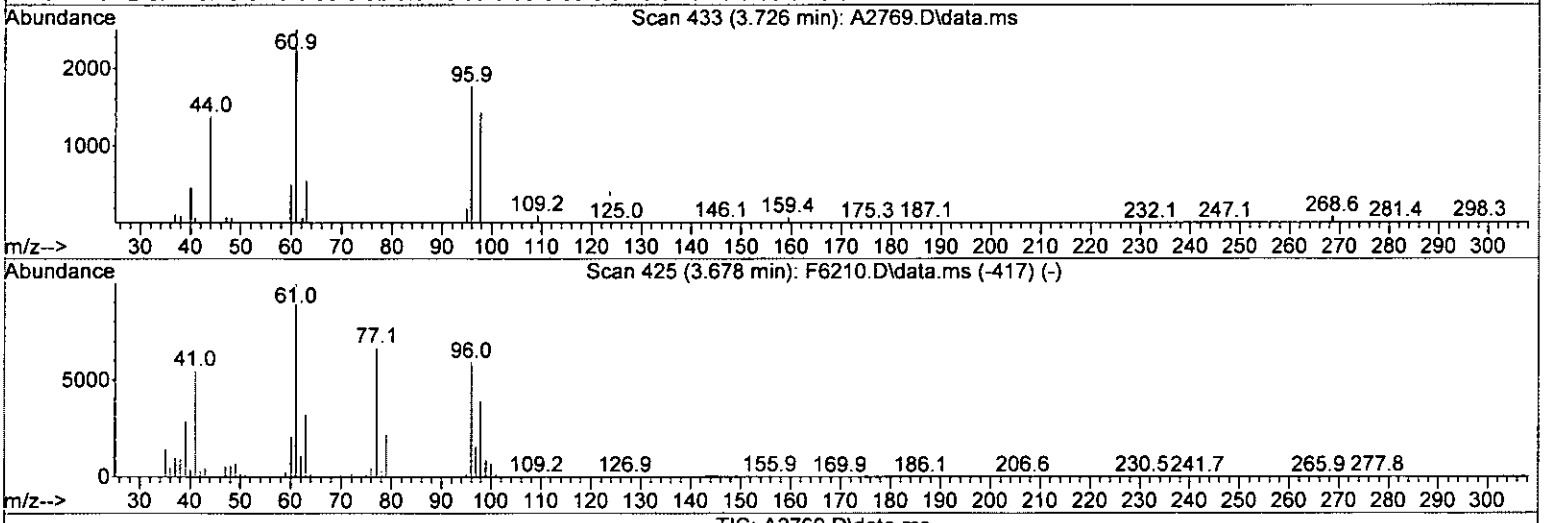
FJ 10/14/14
KR 10/14/14

Quantitation Report (Qedit)

Sample : R1407806-018|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2769.D Vial: 8
Acq On : 9 Oct 2014 1:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 13:42:13 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration





TIC: A2769.D\data.ms

(34) cis-1,2-Dichloroethene (P)

3.726min (+0.049) 0.19 ug/L

response 1770

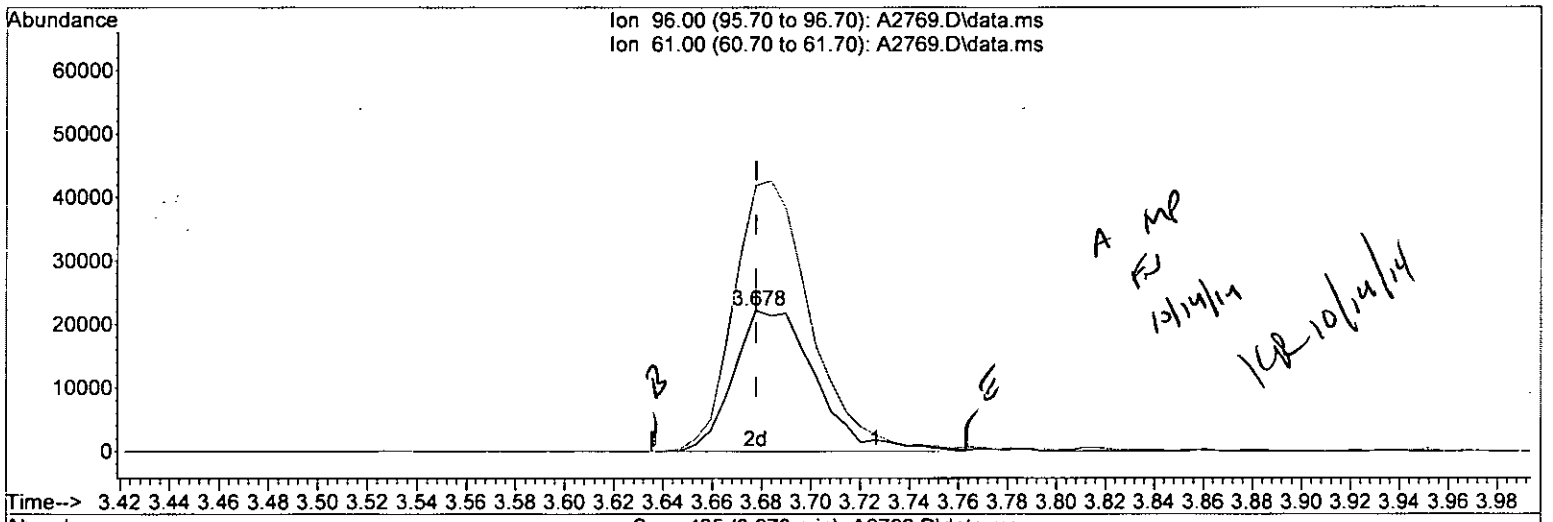
Ion	Exp%	Act%
96.00	100	100
61.00	148.30	141.57
0.00	0.00	0.00
0.00	0.00	0.00

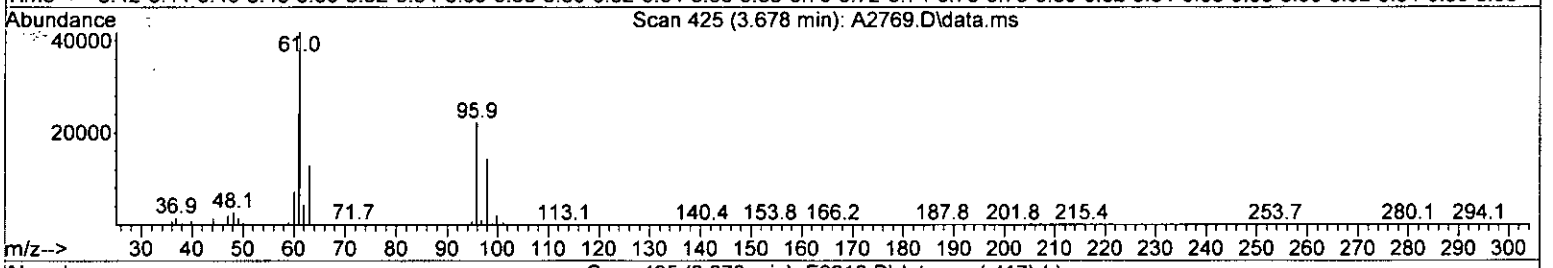
W072114.M Tue Oct 14 14:06:29 2014 MSVO10 Page: 1

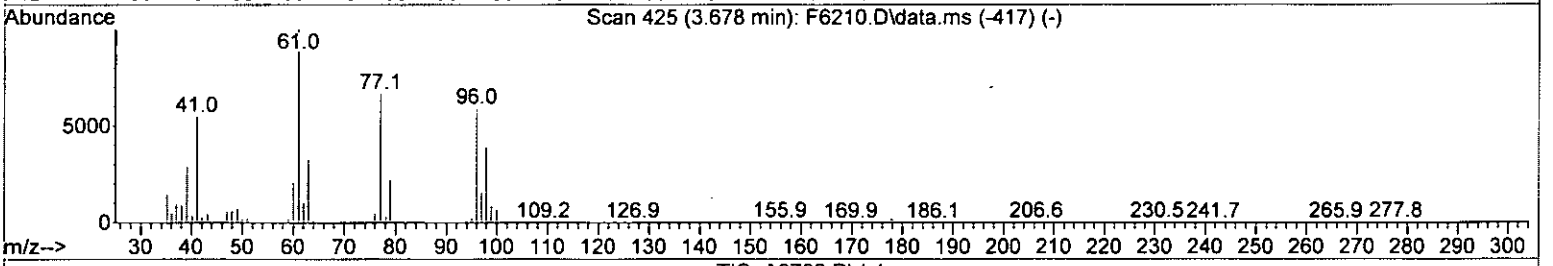
Quantitation Report (Qedit)

Sample : R1407806-018|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2769.D Vial: 8
Acq On : 9 Oct 2014 1:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 13:42:13 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2769.D\data.ms

(34) cis-1,2-Dichloroethene (P)

3.678min (-0.000) 5.61 ug/L m

response 50933

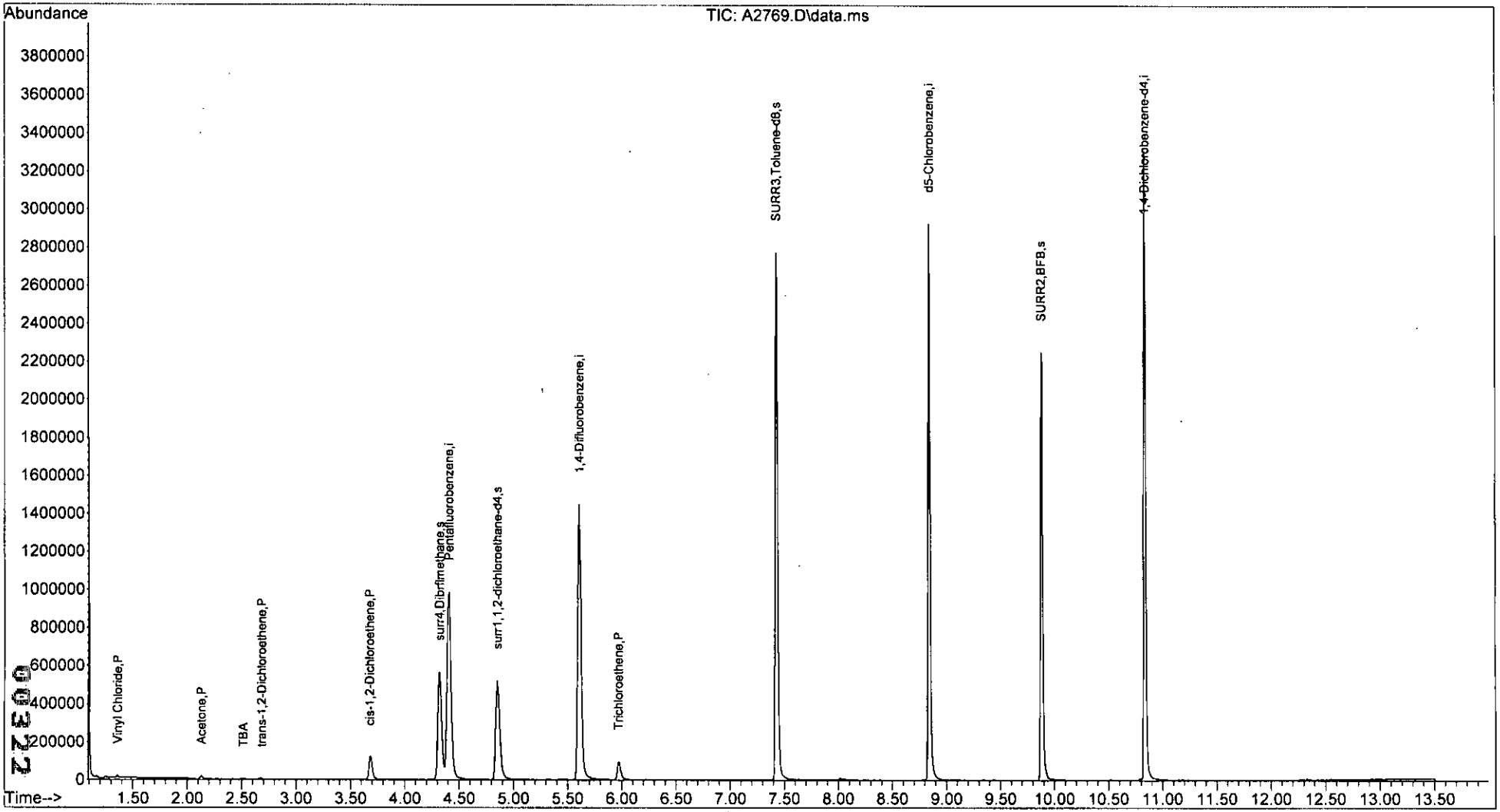
Ion	Exp%	Act%
96.00	100	100
61.00	148.30	188.82#
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 14:06:36 2014 MSVO10 Page: 1

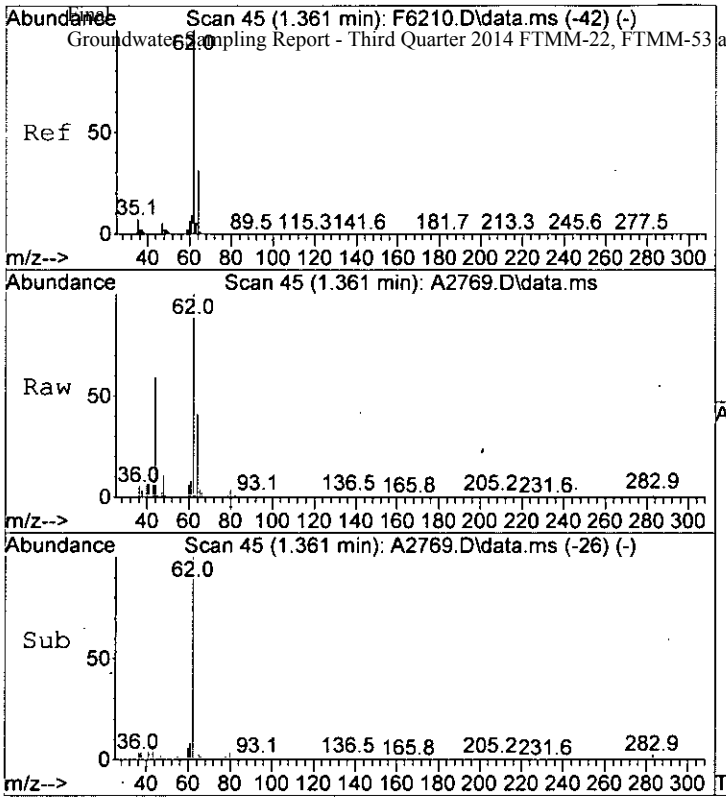
Quantitation Report (QT Reviewed)

Sample : R1407806-018|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2769.D Vial: 8
Acq On : 9 Oct 2014 1:29 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:07:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



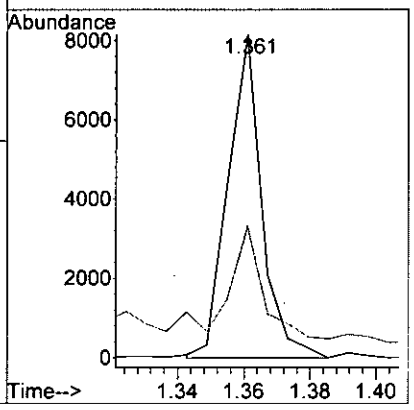
W072114.M Tue Oct 14 14:07:22 2014 MSVO10 Page: 2

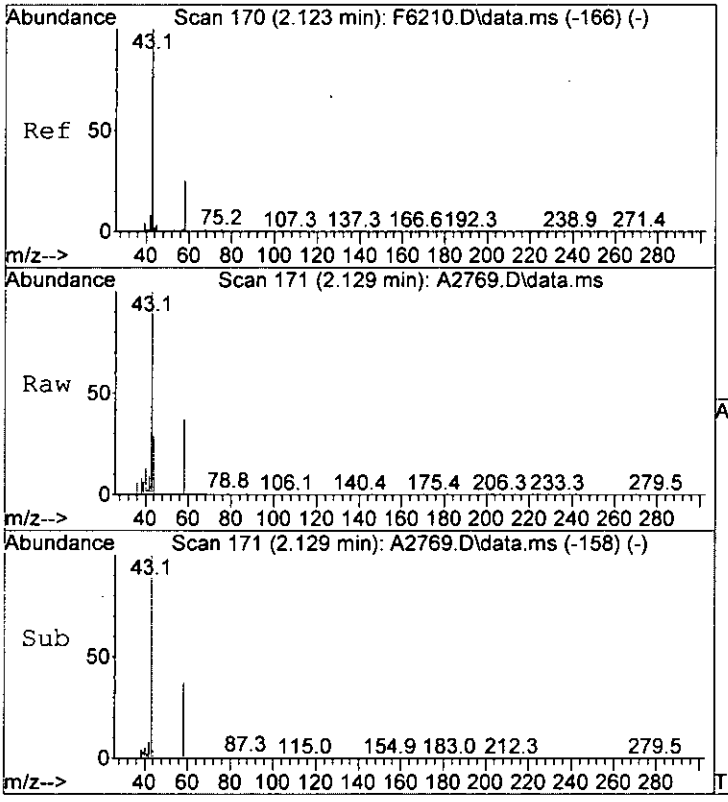


#4
Vinyl Chloride
Concen: 0.47 ug/L
RT: 1.361 min Scan# 45
Delta R.T. -0.000 min
Lab File: A2769.D
Acq: 9 Oct 2014 1:29 pm

Tgt Ion: 62 Resp: 5711

Ion	Ratio	Lower	Upper
62	100		
64	40.7	12.0	52.0

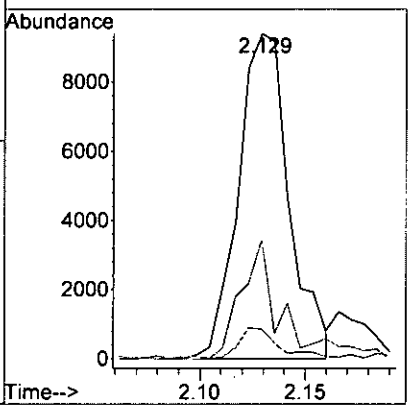


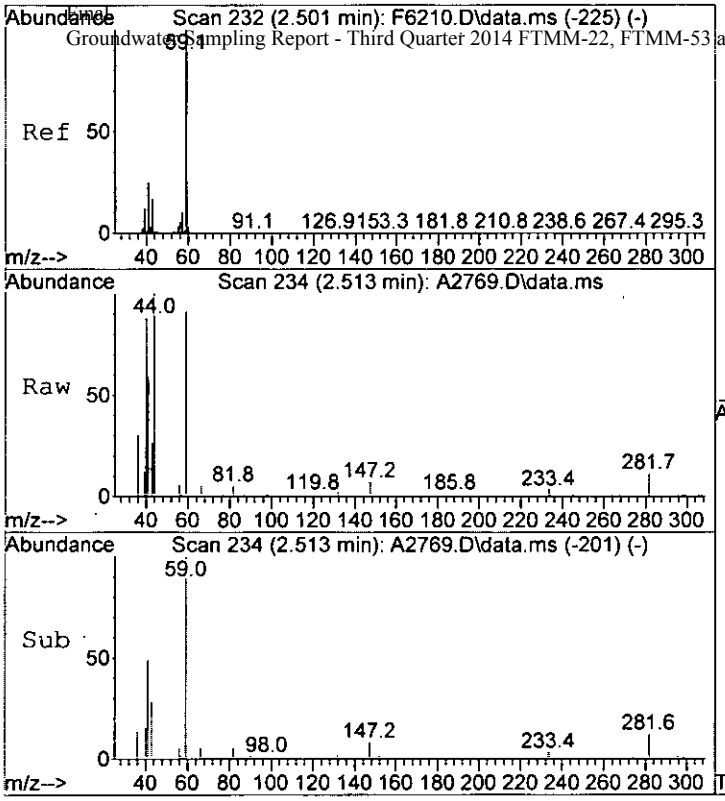


#15
Acetone
Concen: 5.56 ug/L
RT: 2.129 min Scan# 171
Delta R.T. 0.006 min
Lab File: A2769.D
Acq: 9 Oct 2014 1:29 pm

Tgt Ion: 43 Resp: 15643

Ion	Ratio	Lower	Upper
43	100		
58	36.5	7.2	47.2
42	9.1	0.0	27.0

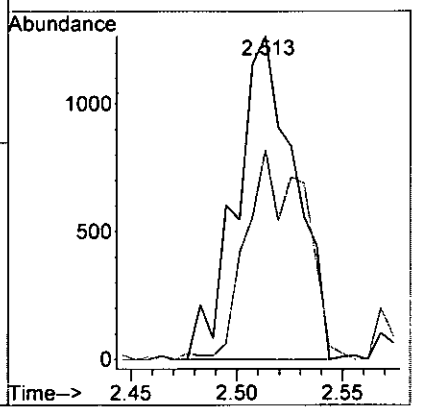


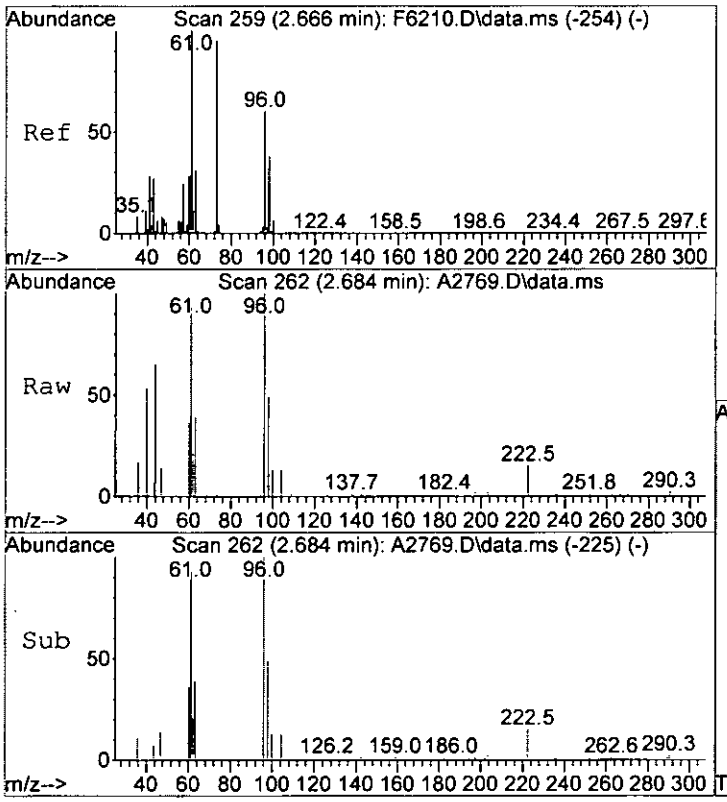


#23
TBA
Concen: 5.04 ug/L
RT: 2.513 min Scan# 234
Delta R.T. 0.012 min
Lab File: A2769.D
Acq: 9 Oct 2014 1:29 pm

Tgt Ion: 59 Resp: 2415

Ion	Ratio	Lower	Upper
59	100		
41	64.9	2.8	42.8#

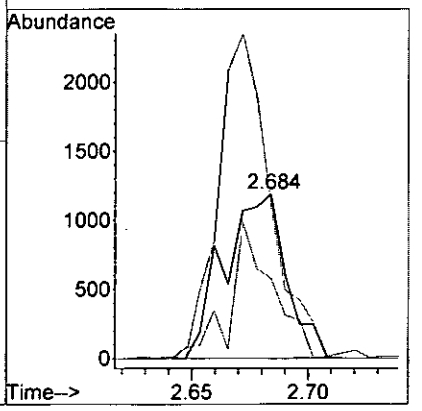


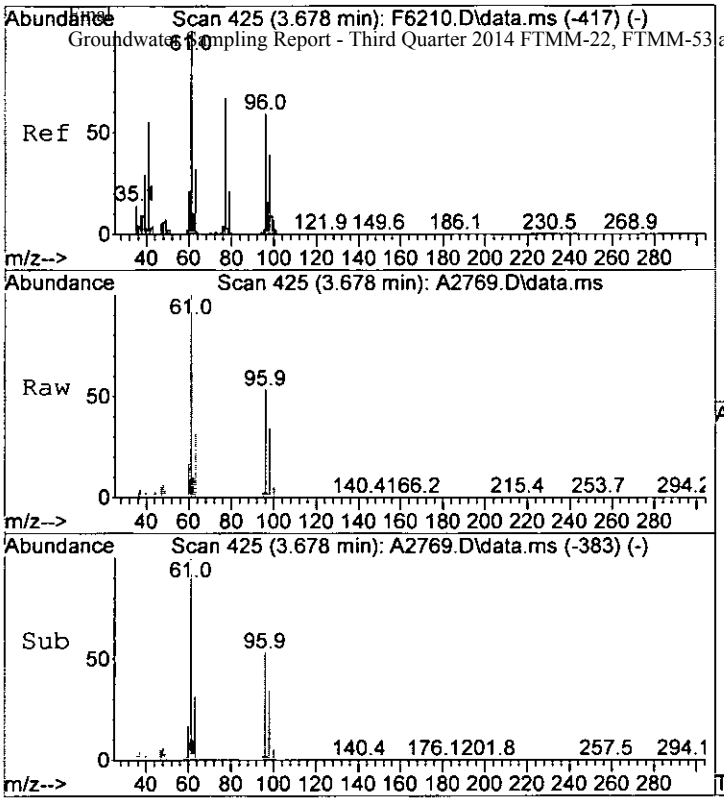


#26
trans-1,2-Dichloroethene
Concen: 0.26 ug/L
RT: 2.684 min Scan# 262
Delta R.T. 0.018 min
Lab File: A2769.D
Acq: 9 Oct 2014 1:29 pm

Tgt Ion: 96 Resp: 2187

Ion	Ratio	Lower	Upper
96	100		
98	48.7	44.0	84.0
61	92.7	124.3	164.3#

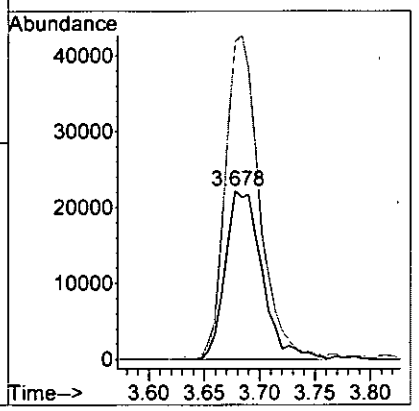


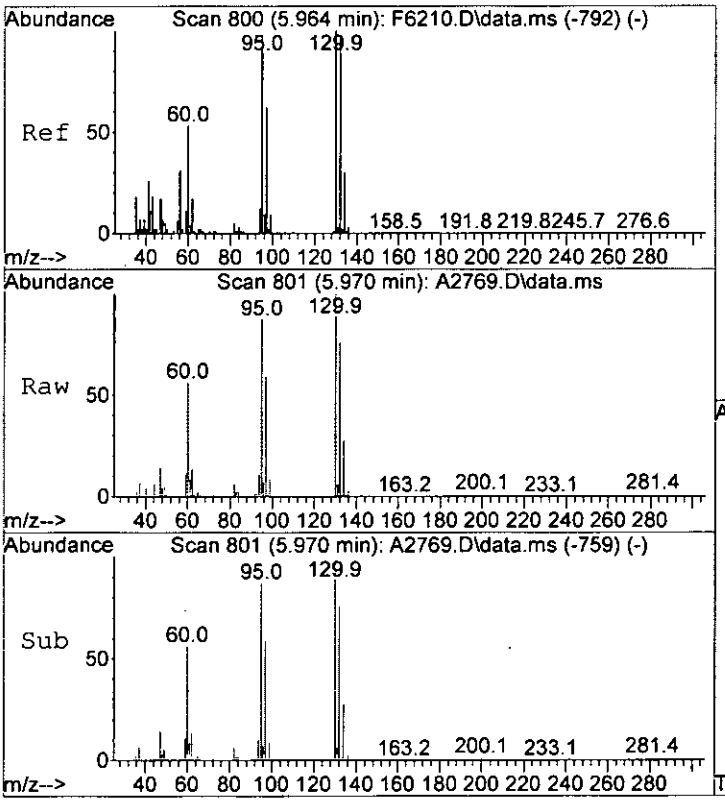


#34
cis-1,2-Dichloroethene
Concen: 5.61 ug/L m
RT: 3.678 min Scan# 425
Delta R.T. -0.000 min
Lab File: A2769.D
Acq: 9 Oct 2014 1:29 pm

Tgt Ion: 96 Resp: 50933

Ion	Ratio	Lower	Upper
96	100		
61	188.8	128.3	168.3#

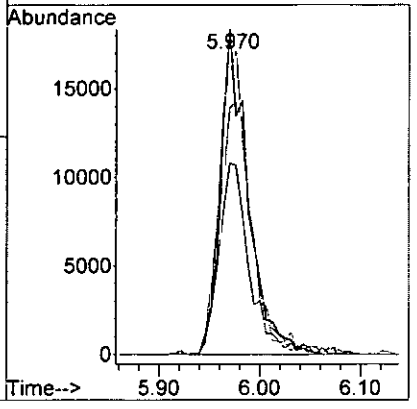




#54
Trichloroethene
Concen: 3.89 ug/L
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: A2769.D
Acq: 9 Oct 2014 1:29 pm

Tgt Ion:130 Resp: 34474

Ion	Ratio	Lower	Upper
130	100		
132	75.9	74.1	114.1
95	86.7	76.9	116.9
97	59.7	43.7	83.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2769.D
Acq On : 9 Oct 2014 1:29 pm
Operator : F.NAEGLER
Sample : R1407806-018|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2769.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.684	420	426	438	rBV	122171	262328	6.19%	1.084%
2	4.324	519	531	538	rBV	563944	1415634	33.39%	5.851%
3	4.409	538	545	565	rVB	983397	2594389	61.19%	10.724%
4	4.854	609	618	631	rBV2	518769	1359802	32.07%	5.621%
5	5.610	734	742	762	rBV	1448535	3203409	75.56%	13.241%
6	5.970	796	801	814	rBV3	95601	204593	4.83%	0.846%
7	7.427	1034	1040	1050	rBV	2774464	4239792	100.00%	17.525%
8	8.841	1267	1272	1287	rBV	2926378	3843295	90.65%	15.886%
9	9.878	1438	1442	1455	rBV	2249070	3049959	71.94%	12.607%
10	10.835	1594	1599	1613	rBV	3306791	4019719	94.81%	16.615%

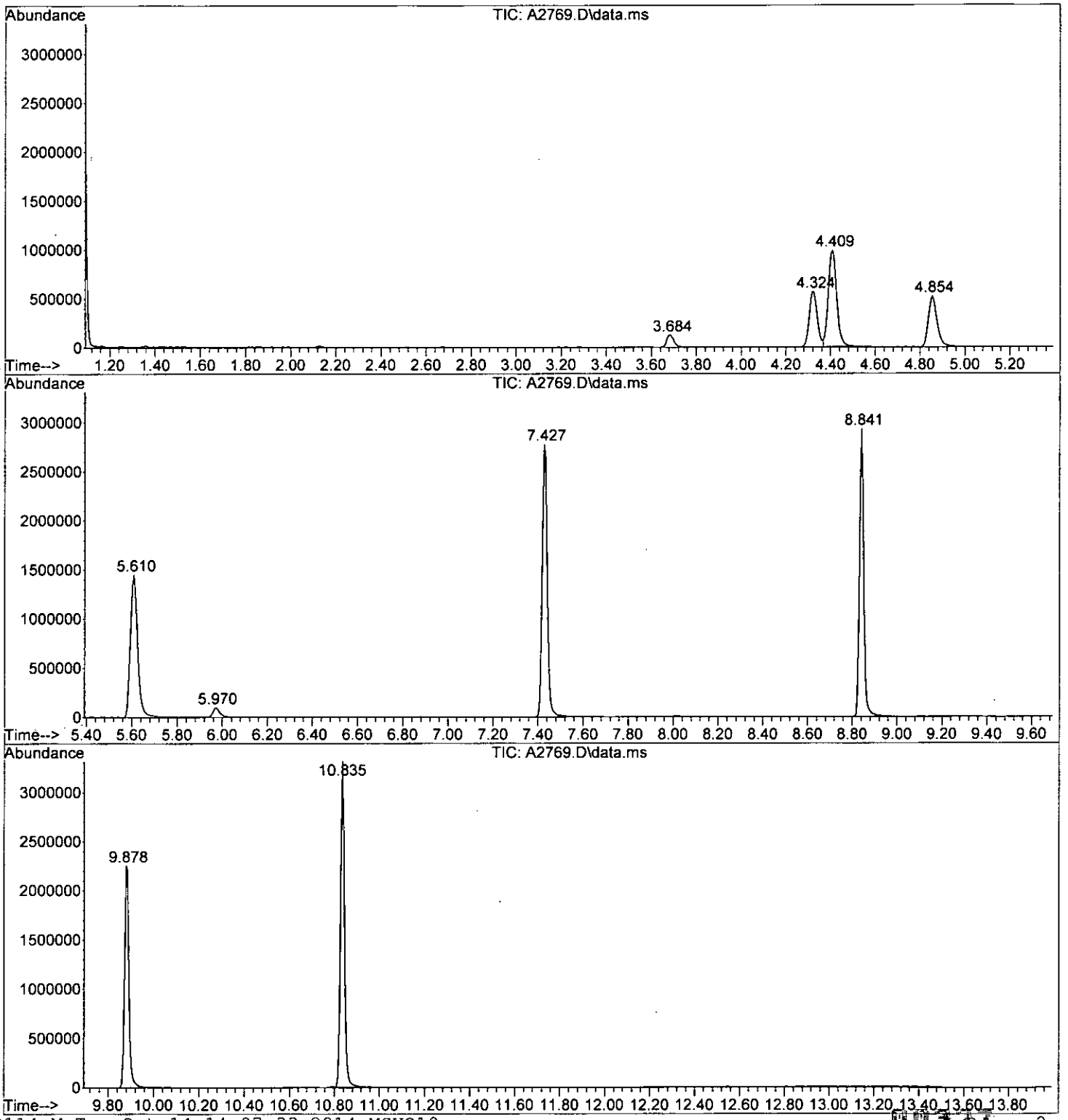
Sum of corrected areas: 24192920

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2769.D
Acq On : 9 Oct 2014 1:29 pm
Operator : F.NAEGLER
Sample : R1407806-018|1.0
Misc : PARSONS 11603 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:07:33 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2769.D
Acq On : 9 Oct 2014 1:29 pmm
Operator : F.NAEGLERR
Sample : R1407806-018|1.0
Misc : PARSONS 11603 T44
ALS Vial : 8 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1302
Date Received: 10/ 3/14
Date Analyzed: 10/9/14 13:58

Sample Name: FTMM-22-GW-CW1MW31-16.40
Lab Code: R1407806-019

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa10\data\100914\A2770.D\

Analysis Lot: 415420
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)	**0.26**	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)	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	**6.1**		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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1302
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:58
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1407806-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2770.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	0.32	
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)	**0.47**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1302
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 13:58
Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1407806-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2770.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	75-120	10/9/14 13:58	
Dibromofluoromethane	104	85-115	10/9/14 13:58	
Toluene-d8	99	85-120	10/9/14 13:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14
Sample Matrix:	Water	**Date Received:**	10/3/14
		Date Analyzed:	10/9/14 1358

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

Sample Name:	FTMM-22-GW-CW1MW31-16.40	**Units:**	µg/L
Lab Code:	R1407806-019	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1407806-015|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2770.D Vial: 9
Acq On : 9 Oct 2014 1:58 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:08:04 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	933916	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1344793	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1191013	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	618501	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	444861	51.88	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.76%			
48) surr1,1,2-dichloroetha...	4.854	65	510445	56.40	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 112.80%			
65) SURR3,Toluene-d8	7.427	98	1495166	49.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.02%			
70) SURR2,BFB	9.878	95	588960	49.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.12%			
Target Compounds						Qvalue
15) Acetone	2.123	43	17242	6.06	ug/L	93
23) TBA	2.501	59	3900	8.06	ug/L	75
28) 1,1-Diclethane	3.056	63	4675	0.26	ug/L	92
54) Trichloroethene	5.988	130	4353	0.47	ug/L	90

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

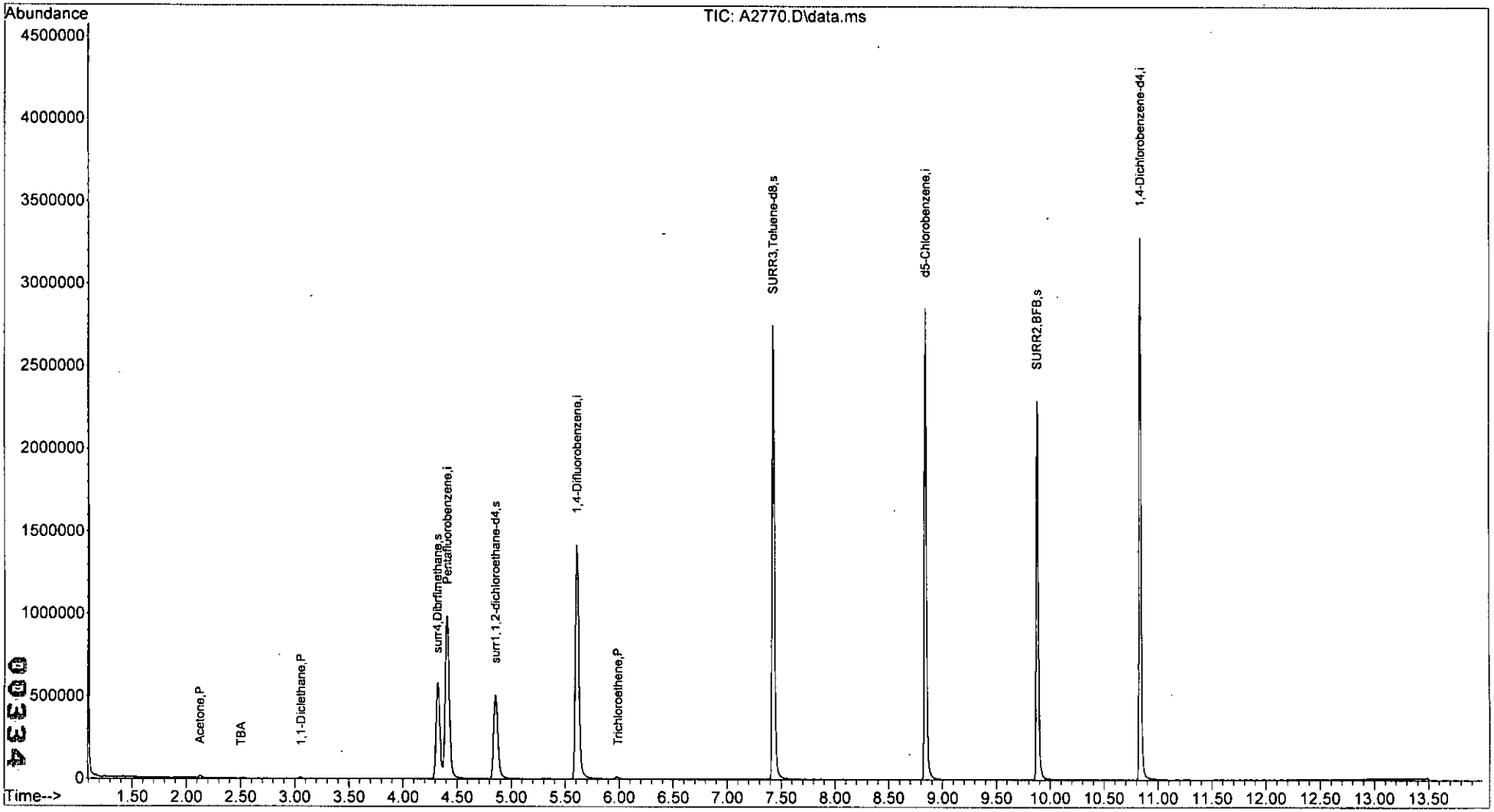
FV 10/14/14

W072114.M Tue Oct 14 14:09:34 2014 MSVO10 Page: 1

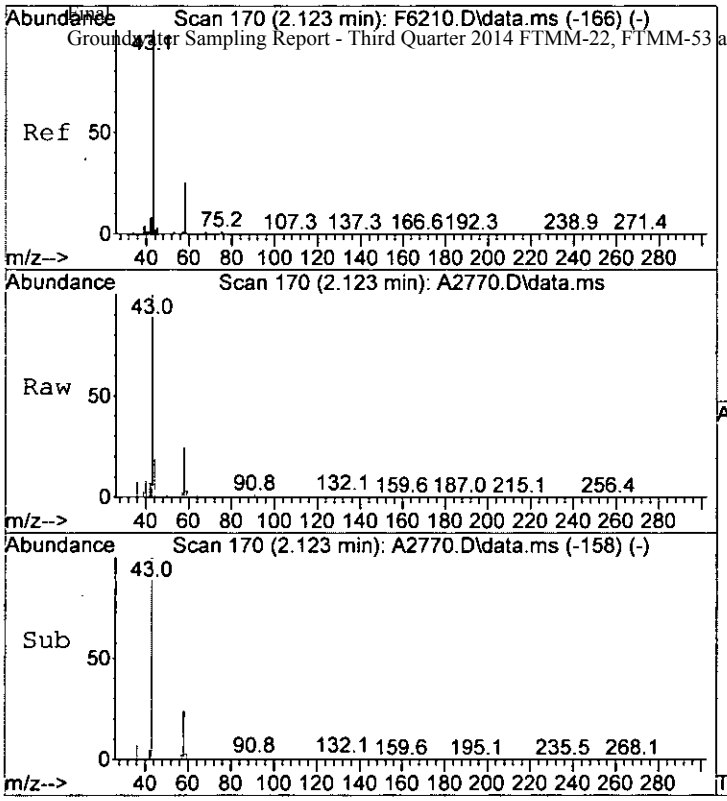
Quantitation Report (QT Reviewed)

Sample : R1407806-019|1.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2770.D Vial: 9
Acq On : 9 Oct 2014 1:58 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 14:08:04 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



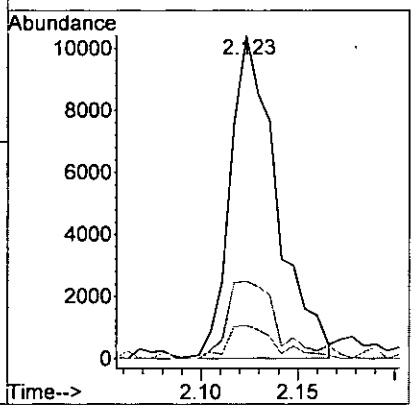
W072114.M Tue Oct 14 14:09:36 2014 MSVO10 Page: 2

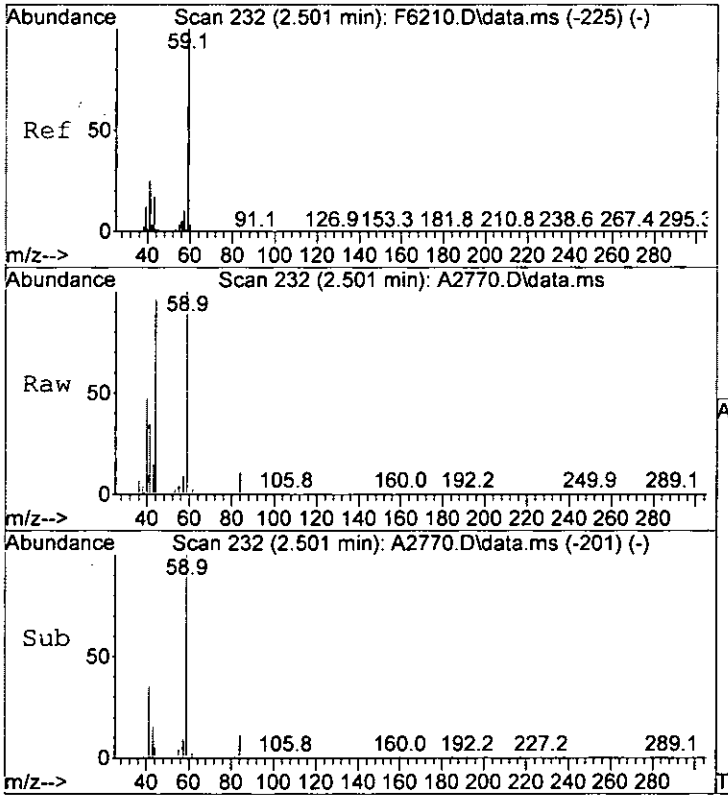


#15
Acetone
Concen: 6.06 ug/L
RT: 2.123 min Scan# 170
Delta R.T. 0.000 min
Lab File: A2770.D
Acq: 9 Oct 2014 1:58 pm

Tgt Ion: 43 Resp: 17242

Ion	Ratio	Lower	Upper
43	100		
58	23.9	7.2	47.2
42	10.3	0.0	27.0

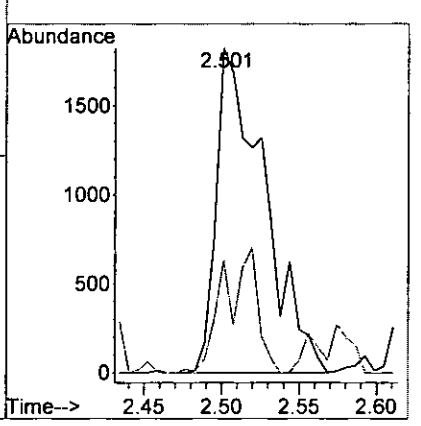


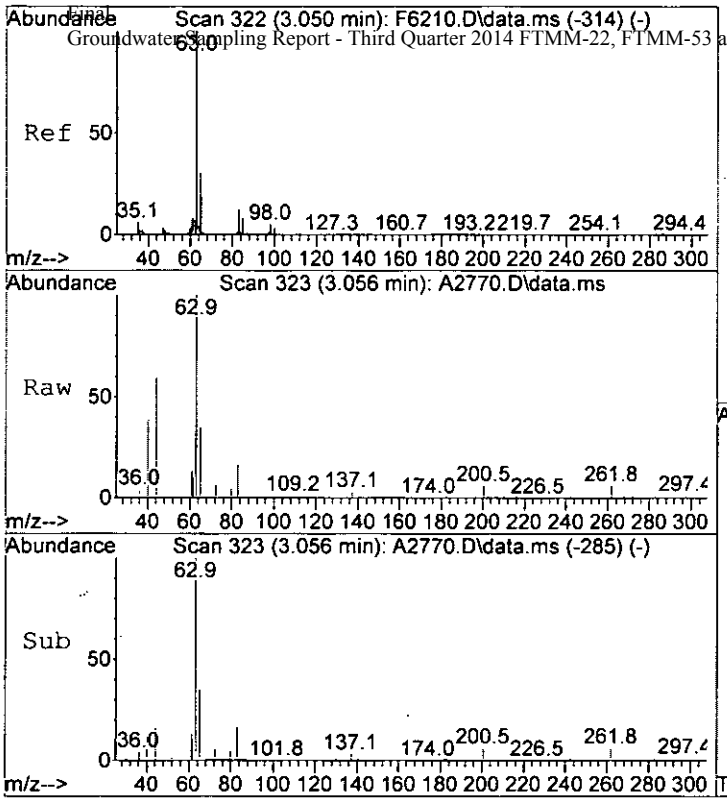


#23
TBA
Concen: 8.06 ug/L
RT: 2.501 min Scan# 232
Delta R.T. 0.000 min
Lab File: A2770.D
Acq: 9 Oct 2014 1:58 pm

Tgt Ion: 59 Resp: 3900

Ion	Ratio	Lower	Upper
59	100		
41	34.8	2.8	42.8

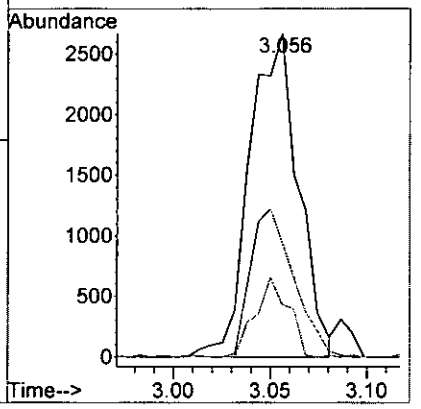


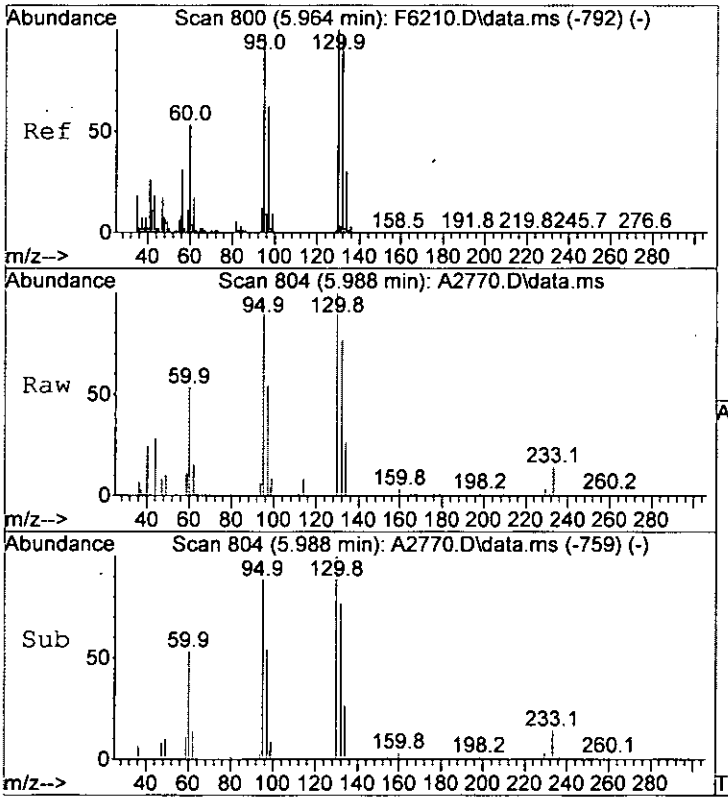


#28
1,1-Dichloethane
Concen: 0.26 ug/L
RT: 3.056 min Scan# 323
Delta R.T. 0.006 min
Lab File: A2770.D
Acq: 9 Oct 2014 1:58 pm

Tgt Ion: 63 Resp: 4675

Ion	Ratio	Lower	Upper
63	100		
65	35.4	11.1	51.1
83	16.3	0.0	33.1

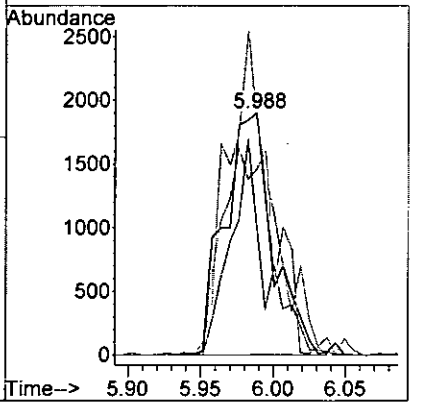




#54
Trichloroethene
Concen: 0.47 ug/L
RT: 5.988 min Scan# 804
Delta R.T. 0.024 min
Lab File: A2770.D
Acq: 9 Oct 2014 1:58 pm

Tgt Ion:130 Resp: 4353

Ion	Ratio	Lower	Upper
130	100		
132	76.8	74.1	114.1
95	97.1	76.9	116.9
97	54.2	43.7	83.7



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2770.D
Acq On : 9 Oct 2014 1:58 pm
Operator : F.NAEGLER
Sample : R1407806-019|1.0
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2770.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.324	518	531	538	rBV	581219	1428054	33.68%	5.996%
2	4.409	538	545	558	rVB2	977295	2576616	60.76%	10.818%
3	4.854	609	618	633	rBV	508230	1394347	32.88%	5.854%
4	5.610	734	742	760	rBV	1419179	3241067	76.43%	13.608%
5	7.427	1035	1040	1058	rBV	2749227	4240318	100.00%	17.804%
6	8.841	1267	1272	1288	rBV	2855624	3850537	90.81%	16.167%
7	9.878	1438	1442	1458	rBV	2294480	3049817	71.92%	12.805%
8	10.835	1594	1599	1621	rBV	3286441	4036135	95.18%	16.947%

Sum of corrected areas: 23816891

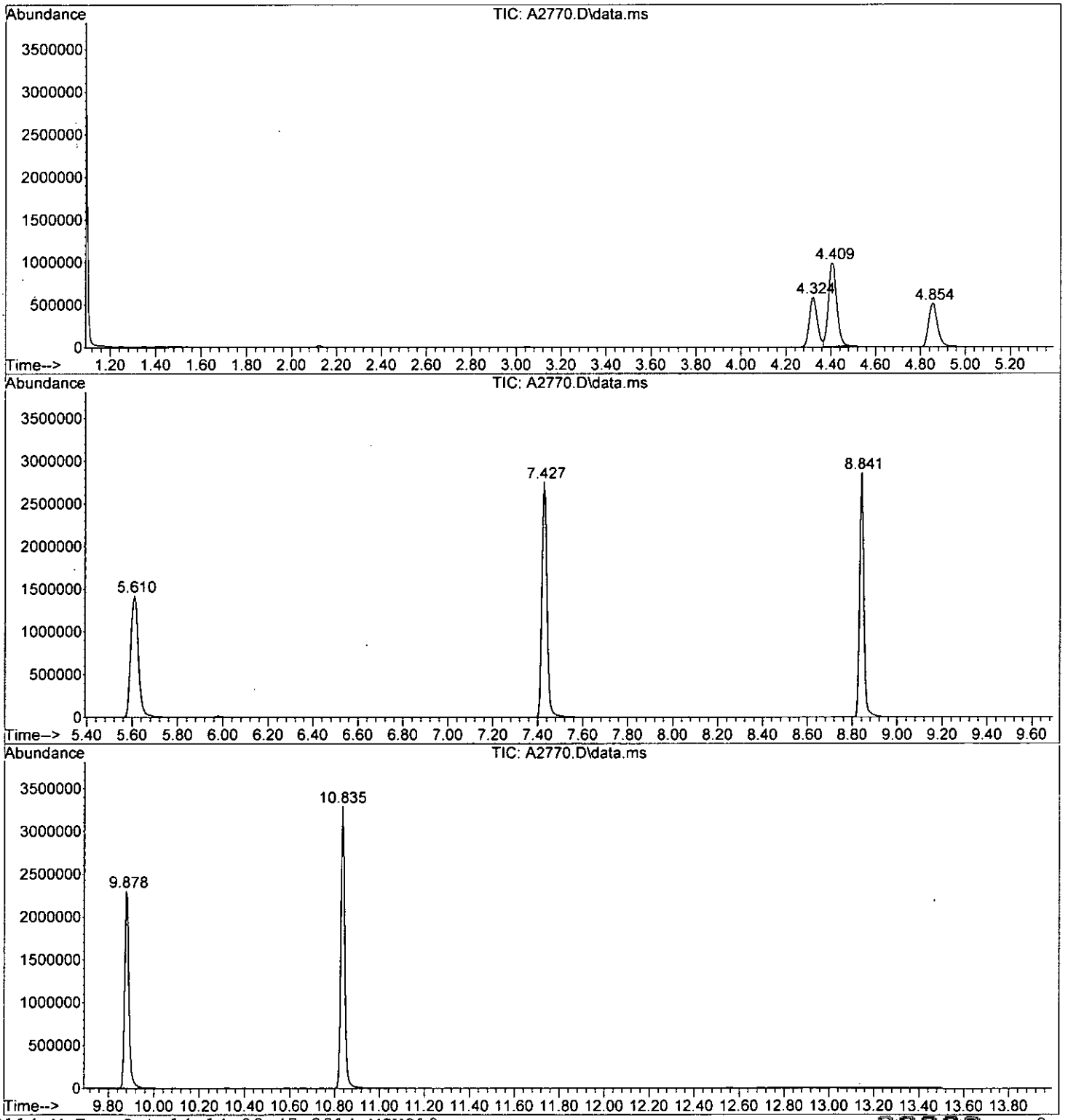
W072114.M Tue Oct 14 14:09:45 2014 MSVO10 Page: 1

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2770.D
Acq On    :  9 Oct 2014    1:58 pm
Operator  : F.NAEGLER
Sample    : R1407806-019|1.0
Misc      : PARSONS 11603 T4
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:09:47 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\\
Data File : A2770.D
Acq On : 9 Oct 2014 1:58 pmm
Operator : F.NAEGLERR
Sample : R1407806-019|1.0
Misc : PARSONS 11603 T44
ALS Vial : 9 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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

****

W072114.M Tue Oct 14 14:09:47 2014 MSVO10 Page: 3

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

RIGHT SOLUTIONS | RIGHT PARTNER

00340

Initial Calibration - Summary Report

Calibration ID: RC1400062 7/21/14 **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			0.3374	<=20	9.5
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.6850	<=20	2.5
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.5487	<=20	3.9
1,1,2-Trichloroethane	T	Average RF		0.100	0.2259	<=20	3.9
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4403	<=20	6.1
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9501	<=20	2.2
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.3485	<=20	5.3
1,1-Dichloropropene	T	Average RF			0.3911	<=20	5.2
1,2,3-Trichlorobenzene	T	Average RF			0.5634	<=20	10.0
1,2,3-Trichloropropane	T	Average RF			0.1534	<=20	8.8
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.7687	<=20	5.4
1,2,4-Trimethylbenzene	T	Average RF			2.294	<=20	7.0
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.08353	<=20	17.5
1,2-Dibromoethane	T	Average RF		0.100	0.2429	<=20	6.4
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5807	<=20	3.3
1,2-Dichlorobenzene	T	Average RF		0.400	1.357	<=20	2.4
1,2-Dichloroethane	T	Average RF		0.100	0.4240	<=20	2.6
1,2-Dichloropropane	T	Average RF		0.100	0.3562	<=20	3.9
1,3,5-Trichlorobenzene	T	Average RF			0.9702	<=20	5.6
1,3,5-Trimethylbenzene	T	Average RF			2.269	<=20	5.7
1,3-Dichlorobenzene	T	Average RF		0.600	1.444	<=20	4.4
1,3-Dichloropropane	T	Average RF			0.4284	<=20	1.5
1,4-Dichlorobenzene	T	Average RF		0.500	1.496	<=20	2.1
1,4-Dioxane	T	Average RF			0.002027	<=20	8.9
1-Butanol	T	Quadratic	1/X2		0.003955	>=0.99	0.9990
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.4892	<=20	6.7
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6180	<=20	5.5
2,2-Dichloropropane	T	Average RF			0.5885	<=20	9.5
2,3,6-Trichlorotoluene	T	Average RF			0.3556	<=20	11.0
2,4,5-Trichlorotoluene	T	Average RF			0.3514	<=20	18.1
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.137	<=20	9.3
2,4-Dichlorobenzotrifluoride	T	Average RF			0.6099	<=20	7.0
2,5-Dichlorobenzotrifluoride	T	Average RF			0.7285	<=20	8.0
2-Bromo-2-chloro-1,1,1-trifluoroethane	T	Average RF				<=20	
2-Butanone (MEK)	T	Average RF		0.05	0.2007	<=20	5.9
2-Chloro-1,3-butadiene	T	Average RF			0.9344	<=20	4.7
2-Chlorobenzotrifluoride	T	Average RF			0.5264	<=20	6.6
2-Chloroethyl Vinyl Ether	T	Average RF			0.1490	<=20	18.8
2-Chlorotoluene	T	Average RF			1.925	<=20	4.3
2-Hexanone	T	Average RF		0.05	0.2113	<=20	9.0
2-Methyl-1-propanol	T	Average RF			0.009932	<=20	16.8
2-Methyl-2-propanol	T	Average RF			0.02592	<=20	14.6
2-Nitropropane	T	Average RF			0.04919	<=20	15.5
2-Propanol	T	Average RF			0.02153	<=20	10.4
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.179	<=20	9.3
3,4-Dichlorobenzotrifluoride	T	Average RF			0.6845	<=20	6.3
3-Chloro-1-propene	T	Average RF			0.2191	<=20	8.2
3-Chlorobenzotrifluoride	T	Average RF			0.5312	<=20	7.3
3-Chlorotoluene	T	Average RF			2.046	<=20	4.1
4-Chlorotoluene	T	Average RF			2.316	<=20	3.1
4-Isopropyltoluene	T	Average RF			2.313	<=20	8.7
4-Methyl-2-pentanone	T	Average RF		0.05	0.2664	<=20	9.5

Initial Calibration - Summary Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetone	T	Average RF		0.05	0.1523	<=20	16.0
Acetonitrile	T	Average RF			0.01632	<=20	7.9
Acrolein	T	Average RF			0.06115	<=20	8.3
Acrylonitrile	T	Average RF			0.1399	<=20	6.5
Benzene	T	Average RF		0.500	1.222	<=20	3.8
Bromobenzene	T	Average RF			0.7548	<=20	2.7
Bromochloromethane	T	Average RF			0.3021	<=20	5.2
Bromodichloromethane	T	Average RF		0.200	0.3900	<=20	5.0
Bromoform	T	Average RF		0.100	0.1754	<=20	12.9
Bromomethane	T	Quadratic	1/X2	0.100	0.1903	>=0.99	0.9952
Carbon Disulfide	T	Average RF		0.100	1.474	<=20	3.7
Carbon Tetrachloride	T	Average RF		0.05	0.1274	<=20	7.6
Chlorobenzene	T	Average RF		0.500	0.9640	<=20	2.7
Chloroethane	T	Average RF		0.100	0.3320	<=20	2.6
Chloroform	T	Average RF		0.200	0.8279	<=20	4.2
Chloromethane	T	Average RF		0.100	0.7175	<=20	4.5
Cyclohexane	T	Average RF		0.100	0.4527	<=20	5.5
Cyclohexanone	T	Average RF			0.04603	<=20	12.3
Dibromochloromethane	T	Average RF		0.100	0.3054	<=20	10.9
Dibromomethane	T	Average RF			0.1717	<=20	4.1
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.5381	<=20	8.9
Dichlorofluoromethane (CFC 21)	T	Average RF			0.9222	<=20	2.8
Dichloromethane	T	Average RF		0.100	0.4573	<=20	6.0
Diethyl Ether	T	Average RF			0.3910	<=20	5.2
Diisopropyl Ether	T	Average RF			2.181	<=20	5.5
Ethyl Methacrylate	T	Average RF			0.2657	<=20	13.1
Ethyl tert-Butyl Ether	T	Average RF			1.463	<=20	4.6
Ethylbenzene	T	Average RF		0.100	0.4804	<=20	6.8
Hexachlorobutadiene	T	Average RF			0.3147	<=20	4.0
Iodomethane	T	Quadratic	1/X		0.3548	>=0.99	0.9908
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.457	<=20	7.7
Methacrylonitrile	T	Average RF			0.1086	<=20	14.1
Methyl Acetate	T	Average RF		0.100	0.3020	<=20	5.4
Methyl Methacrylate	T	Average RF			0.1265	<=20	18.5
Methyl tert-Butyl Ether	T	Average RF		0.100	0.9984	<=20	4.0
Methylcyclohexane	T	Average RF		0.100	0.4697	<=20	5.4
Naphthalene	T	Average RF			1.321	<=20	15.3
Propionitrile	T	Linear	1/X		0.04118	>=0.99	0.9991
Styrene	T	Average RF		0.300	0.9623	<=20	12.4
Tetrachloroethene (PCE)	T	Average RF		0.200	0.2891	<=20	4.5
Tetrahydrofuran (THF)	T	Average RF			0.1111	<=20	4.3
Toluene	T	Average RF		0.400	1.281	<=20	2.5
Trichloroethene (TCE)	T	Average RF		0.200	0.3407	<=20	3.6
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7423	<=20	3.3
Vinyl Acetate	T	Average RF			0.05589	<=20	18.1
Vinyl Chloride	T	Average RF		0.100	0.6553	<=20	3.7
cis-1,2-Dichloroethene	T	Average RF		0.100	0.4913	<=20	4.0
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4120	<=20	13.9
m,p-Xylenes	T	Average RF		0.100	0.5924	<=20	7.8
n-Butyl Acetate	T	Average RF			0.4703	<=20	13.3
n-Butylbenzene	T	Average RF			1.960	<=20	11.6
n-Heptane	T	Average RF			0.4609	<=20	7.6

Initial Calibration - Summary Report

Calibration ID:	RC1400062	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
n-Propylbenzene	T	Average RF			3.120	<=20	6.0
o-Xylene	T	Average RF		0.300	0.5792	<=20	8.8
sec-Butylbenzene	T	Average RF			2.666	<=20	6.4
tert-Amyl Methyl Ether	T	Average RF			0.9868	<=20	8.3
tert-Butylbenzene	T	Average RF			1.902	<=20	6.3
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4493	<=20	3.9
trans-1,3-Dichloropropene	T	Average RF		0.100	0.3260	<=20	17.8
trans-1,4-Dichloro-2-butene	T	Quadratic	1/X2		0.07205	>=0.99	0.9957
1,2-Dichloroethane-d4	S	Average RF			0.3365	<=20	3.6
4-Bromofluorobenzene	S	Average RF			0.4419	<=20	2.8
Dibromofluoromethane	S	Average RF			0.3188	<=20	2.2
Toluene-d8	S	Average RF			1.123	<=20	2.2

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1400062-01	0.5 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0510.D	7/21/14 11:52
02	RC1400062-02	1.0 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0511.D	7/21/14 12:22
03	RC1400062-03	2.0 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0512.D	7/21/14 12:52
04	RC1400062-04	5.0 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0513.D	7/21/14 13:23
05	RC1400062-05	10 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0514.D	7/21/14 13:53
06	RC1400062-06	50 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0515.D	7/21/14 14:23
07	RC1400062-07	100 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0516.D	7/21/14 14:54
08	RC1400062-08	150 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0517.D	7/21/14 15:24
09	RC1400062-09	200 PPB STD	I:\ACQUDATA\msvoa10\data\072114\A0518.D	7/21/14 15:55

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

1,1,1,2-Tetrachloroethane Average RF RSD = 9.5 Average RF = 0.3374

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3108	02	1.000	0.2976	03	2.000	0.3013	04	5.000	0.3205
05	10.000	0.3367	06	50.000	0.3450	07	100.000	0.3721	08	150.000	0.3787
09	200.000	0.3737									

1,1,1-Trichloroethane (TCA) Average RF RSD = 2.5 Average RF = 0.6850

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6918	02	1.000	0.6746	03	2.000	0.6764	04	5.000	0.6882
05	10.000	0.6552	06	50.000	0.6704	07	100.000	0.7039	08	150.000	0.7085
09	200.000	0.6956									

1,1,2,2-Tetrachloroethane Average RF RSD = 3.9 Average RF = 0.5487

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5244	02	1.000	0.5222	03	2.000	0.5855	04	5.000	0.5714
05	10.000	0.5603	06	50.000	0.5308	07	100.000	0.5524	08	150.000	0.5518
09	200.000	0.5391									

1,1,2-Trichloroethane Average RF RSD = 3.9 Average RF = 0.2259

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2138	02	1.000	0.2359	03	2.000	0.2210	04	5.000	0.2135
05	10.000	0.2275	06	50.000	0.2228	07	100.000	0.2310	08	150.000	0.2371
09	200.000	0.2308									

1,1,2-Trichlorotrifluoroethane Average RF RSD = 6.1 Average RF = 0.4403

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4656	02	1.000	0.4831	03	2.000	0.4314	04	5.000	0.4561
05	10.000	0.3916	06	50.000	0.4226	07	100.000	0.4432	08	150.000	0.4463
09	200.000	0.4225									

1,1-Dichloroethane (1,1-DCA) Average RF RSD = 2.2 Average RF = 0.9501

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9434	02	1.000	0.9445	03	2.000	0.9993	04	5.000	0.9592
05	10.000	0.9542	06	50.000	0.9379	07	100.000	0.9488	08	150.000	0.9415
09	200.000	0.9221									

1,1-Dichloroethene (1,1-DCE) Average RF RSD = 5.3 Average RF = 0.3485

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3739	02	1.000	0.3370	03	2.000	0.3731	04	5.000	0.3533
05	10.000	0.3186	06	50.000	0.3314	07	100.000	0.3493	08	150.000	0.3586
09	200.000	0.3409									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

1,1-Dichloropropene Average RF RSD = 5.2 Average RF = 0.3911

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4241	02	1.000	0.3618	03	2.000	0.3895	04	5.000	0.3863
05	10.000	0.3648	06	50.000	0.3815	07	100.000	0.4073	08	150.000	0.4087
09	200.000	0.3956									

1,2,3-Trichlorobenzene Average RF RSD = 10.0 Average RF = 0.5634

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4936	02	1.000	0.5077	03	2.000	0.5167	04	5.000	0.5119
05	10.000	0.5715	06	50.000	0.5996	07	100.000	0.6079	08	150.000	0.6372
09	200.000	0.6247									

1,2,3-Trichloropropane Average RF RSD = 8.8 Average RF = 0.1534

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1808	02	1.000	0.1507	03	2.000	0.1710	04	5.000	0.1543
05	10.000	0.1436	06	50.000	0.1418	07	100.000	0.1472	08	150.000	0.1434
09	200.000	0.1476									

1,2,4-Trichlorobenzene Average RF RSD = 5.4 Average RF = 0.7687

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7170	02	1.000	0.7290	03	2.000	0.7324	04	5.000	0.7397
05	10.000	0.7655	06	50.000	0.7859	07	100.000	0.8073	08	150.000	0.8304
09	200.000	0.8108									

1,2,4-Trimethylbenzene Average RF RSD = 7.0 Average RF = 2.294

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.071	02	1.000	2.040	03	2.000	2.195	04	5.000	2.328
05	10.000	2.309	06	50.000	2.376	07	100.000	2.505	08	150.000	2.458
09	200.000	2.361									

1,2-Dibromo-3-chloropropane (DBCP) Average RF RSD = 17.5 Average RF = 0.08353

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.06568	02	1.000	0.06613	03	2.000	0.07412	04	5.000	0.07579
05	10.000	0.07834	06	50.000	0.09037	07	100.000	0.09768	08	150.000	0.1016
09	200.000	0.1020									

1,2-Dibromoethane Average RF RSD = 6.4 Average RF = 0.2429

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2437	02	1.000	0.2097	03	2.000	0.2386	04	5.000	0.2433
05	10.000	0.2306	06	50.000	0.2503	07	100.000	0.2576	08	150.000	0.2579
09	200.000	0.2545									

1,2-Dichloro-1,1,2-trifluoroethane (CFC Average RF RSD = 3.3 Average RF = 0.5807

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5669	02	1.000	0.5967	03	2.000	0.6050	04	5.000	0.5828
05	10.000	0.5599	06	50.000	0.6101	07	100.000	0.5673	08	150.000	0.5765
09	200.000	0.5612									

1,2-Dichlorobenzene Average RF RSD = 2.4 Average RF = 1.357

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.336	02	1.000	1.348	03	2.000	1.300	04	5.000	1.360
05	10.000	1.345	06	50.000	1.346	07	100.000	1.395	08	150.000	1.411
09	200.000	1.370									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

1,2-Dichloroethane Average RF RSD = 2.6 Average RF = 0.4240

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4372	02	1.000	0.4170	03	2.000	0.4057	04	5.000	0.4372
05	10.000	0.4297	06	50.000	0.4205	07	100.000	0.4269	08	150.000	0.4293
09	200.000	0.4129									

1,2-Dichloroethane-d4 Average RF RSD = 3.6 Average RF = 0.3365

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3415	04	60.000	0.3457	05	70.000	0.3492	07	100.000	0.3383
08	125.000	0.3262	09	150.000	0.3179						

1,2-Dichloropropane Average RF RSD = 3.9 Average RF = 0.3562

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3457	02	1.000	0.3282	03	2.000	0.3682	04	5.000	0.3538
05	10.000	0.3500	06	50.000	0.3557	07	100.000	0.3675	08	150.000	0.3726
09	200.000	0.3645									

1,3,5-Trichlorobenzene Average RF RSD = 5.6 Average RF = 0.9702

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.041	02	1.000	0.8688	03	2.000	0.9314	04	5.000	0.9249
05	10.000	0.9547	06	50.000	1.004	07	100.000	0.9874	08	150.000	1.019
09	200.000	1.001									

1,3,5-Trimethylbenzene Average RF RSD = 5.7 Average RF = 2.269

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.098	02	1.000	2.142	03	2.000	2.228	04	5.000	2.196
05	10.000	2.207	06	50.000	2.326	07	100.000	2.481	08	150.000	2.435
09	200.000	2.308									

1,3-Dichlorobenzene Average RF RSD = 4.4 Average RF = 1.444

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.361	02	1.000	1.356	03	2.000	1.417	04	5.000	1.417
05	10.000	1.442	06	50.000	1.451	07	100.000	1.527	08	150.000	1.523
09	200.000	1.501									

1,3-Dichloropropane Average RF RSD = 1.5 Average RF = 0.4284

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4417	02	1.000	0.4230	03	2.000	0.4268	04	5.000	0.4223
05	10.000	0.4222	06	50.000	0.4278	07	100.000	0.4341	08	150.000	0.4330
09	200.000	0.4249									

1,4-Dichlorobenzene Average RF RSD = 2.1 Average RF = 1.496

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.499	02	1.000	1.436	03	2.000	1.490	04	5.000	1.488
05	10.000	1.484	06	50.000	1.479	07	100.000	1.530	08	150.000	1.543
09	200.000	1.513									

1,4-Dioxane Average RF RSD = 8.9 Average RF = 0.002027

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.001651	03	40.000	0.002130	04	100.000	0.002058	05	200.000	0.002234
06	1000.000	0.001971	07	2000.000	0.001932	08	3000.000	0.002151	09	4000.000	0.002090

1-Butanol Quadratic 1/X2 COD = 0.9990 $Y = 1.036E\text{-}5\ X^2 + 0.003783\ X + -0.002167$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.001665	03	100.000	0.002739	04	250.000	0.003084	05	500.000	0.003792
06	2500.000	0.004406	07	5000.000	0.004776	08	7500.000	0.005461	09	10000.000	0.005713

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: I

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

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 6.7 Average RF = 0.4892

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4542	02	1.000	0.4567	03	2.000	0.4652	04	5.000	0.4750
05	10.000	0.4618	06	50.000	0.5087	07	100.000	0.5195	08	150.000	0.5371
09	200.000	0.5246									

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 5.5 Average RF = 0.6180

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6609	02	1.000	0.6670	03	2.000	0.6452	04	5.000	0.6070
05	10.000	0.5678	06	50.000	0.6230	07	100.000	0.5875	08	150.000	0.6055
09	200.000	0.5982									

2,2-Dichloropropane Average RF RSD = 9.5 Average RF = 0.5885

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5596	02	1.000	0.5312	03	2.000	0.5525	04	5.000	0.5482
05	10.000	0.5330	06	50.000	0.6012	07	100.000	0.6423	08	150.000	0.6707
09	200.000	0.6582									

2,3,6-Trichlorotoluene Average RF RSD = 11.0 Average RF = 0.3556

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2902	02	1.000	0.3444	03	2.000	0.3436	04	5.000	0.3110
05	10.000	0.3575	06	50.000	0.3699	07	100.000	0.3715	08	150.000	0.4033
09	200.000	0.4094									

2,4,5-Trichlorotoluene Average RF RSD = 18.1 Average RF = 0.3514

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2794	02	1.000	0.2684	03	2.000	0.2884	04	5.000	0.3238
05	10.000	0.3572	06	50.000	0.3939	07	100.000	0.3950	08	150.000	0.4296
09	200.000	0.4273									

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut Average RF RSD = 9.3 Average RF = 1.137

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	0.9500	02	3.000	1.024	03	6.000	1.066	04	15.000	1.109
05	30.000	1.172	06	150.000	1.244	07	300.000	1.234	08	450.000	1.245
09	600.000	1.188									

2,4-Dichlorobenzotrifluoride Average RF RSD = 7.0 Average RF = 0.6099

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5793	02	1.000	0.5642	03	2.000	0.5576	04	5.000	0.5840
05	10.000	0.5938	06	50.000	0.6422	07	100.000	0.6403	08	150.000	0.6637
09	200.000	0.6643									

2,5-Dichlorobenzotrifluoride Average RF RSD = 8.0 Average RF = 0.7285

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8389	02	1.000	0.6922	03	2.000	0.7400	04	5.000	0.6404
05	10.000	0.6649	06	50.000	0.7279	07	100.000	0.7365	08	150.000	0.7615
09	200.000	0.7542									

2-Butanone (MEK) Average RF RSD = 5.9 Average RF = 0.2007

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1904	04	5.000	0.1834	05	10.000	0.2011	06	50.000	0.2201
07	100.000	0.2046	08	150.000	0.2073	09	200.000	0.1978			

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**Instrument ID:**	R-MS-10
		Signal ID:	1

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

2-Chloro-1,3-butadiene Average RF RSD = 4.7 Average RF = 0.9344

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8693	02	1.000	0.8644	03	2.000	0.9308	04	5.000	0.9625
05	10.000	0.9118	06	50.000	0.9701	07	100.000	0.9817	08	150.000	0.9698
09	200.000	0.9497									

2-Chlorobenzotrifluoride Average RF RSD = 6.6 Average RF = 0.5264

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5176	02	1.000	0.4683	03	2.000	0.4995	04	5.000	0.5062
05	10.000	0.5097	06	50.000	0.5473	07	100.000	0.5561	08	150.000	0.5783
09	200.000	0.5549									

2-Chloroethyl Vinyl Ether Average RF RSD = 18.8 Average RF = 0.1490

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1145	03	2.000	0.1117	04	5.000	0.1315	05	10.000	0.1395
06	50.000	0.1665	07	100.000	0.1751	08	150.000	0.1774	09	200.000	0.1754

2-Chlorotoluene Average RF RSD = 4.3 Average RF = 1.925

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.781	02	1.000	1.830	03	2.000	1.891	04	5.000	1.941
05	10.000	1.939	06	50.000	1.933	07	100.000	2.056	08	150.000	2.008
09	200.000	1.947									

2-Hexanone Average RF RSD = 9.0 Average RF = 0.2113

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1923	04	5.000	0.2002	05	10.000	0.1830	06	50.000	0.2275
07	100.000	0.2239	08	150.000	0.2286	09	200.000	0.2239			

2-Methyl-1-propanol Average RF RSD = 16.8 Average RF = 0.009932

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.008465	03	40.000	0.008984	04	100.000	0.007832	05	200.000	0.008770
06	1000.000	0.01028	07	2000.000	0.01087	08	3000.000	0.01217	09	4000.000	0.01208

2-Methyl-2-propanol Average RF RSD = 14.6 Average RF = 0.02592

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.01923	02	20.000	0.02431	03	40.000	0.02297	04	100.000	0.02413
05	200.000	0.02639	06	1000.000	0.02684	07	2000.000	0.02722	08	3000.000	0.03118
09	4000.000	0.03098									

2-Nitropropane Average RF RSD = 15.5 Average RF = 0.04919

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	2.000	0.06304	03	4.000	0.04854	04	10.000	0.03744	05	20.000	0.04261
06	100.000	0.04639	07	200.000	0.05022	08	300.000	0.05283	09	400.000	0.05248

2-Propanol Average RF RSD = 10.4 Average RF = 0.02153

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.02303	02	20.000	0.02185	03	40.000	0.01792	04	100.000	0.01762
05	200.000	0.02212	06	1000.000	0.02231	07	2000.000	0.02181	08	3000.000	0.02375
09	4000.000	0.02334									

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 9.3 Average RF = 1.179

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9779	02	2.000	1.084	03	4.000	1.084	04	10.000	1.165
05	20.000	1.251	06	100.000	1.297	07	200.000	1.281	08	300.000	1.266
09	400.000	1.202									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

3,4-Dichlorobenzotrifluoride Average RF RSD = 6.3 Average RF = 0.6845

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6214	02	1.000	0.6757	03	2.000	0.6480	04	5.000	0.6781
05	10.000	0.6379	06	50.000	0.7022	07	100.000	0.7211	08	150.000	0.7402
09	200.000	0.7359									

3-Chloro-1-propene Average RF RSD = 8.2 Average RF = 0.2191

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1809	02	1.000	0.2135	03	2.000	0.2217	04	5.000	0.2107
05	10.000	0.2133	06	50.000	0.2324	07	100.000	0.2416	08	150.000	0.2360
09	200.000	0.2215									

3-Chlorobenzotrifluoride Average RF RSD = 7.3 Average RF = 0.5312

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4978	02	1.000	0.5098	03	2.000	0.4891	04	5.000	0.5184
05	10.000	0.4859	06	50.000	0.5568	07	100.000	0.5679	08	150.000	0.5834
09	200.000	0.5715									

3-Chlorotoluene Average RF RSD = 4.1 Average RF = 2.046

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.967	02	1.000	1.920	03	2.000	1.958	04	5.000	2.020
05	10.000	2.143	06	50.000	2.105	07	100.000	2.134	08	150.000	2.107
09	200.000	2.056									

4-Bromofluorobenzene Average RF RSD = 2.8 Average RF = 0.4419

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.4506	04	60.000	0.4320	05	70.000	0.4485	07	100.000	0.4524
08	125.000	0.4462	09	150.000	0.4215						

4-Chlorotoluene Average RF RSD = 3.1 Average RF = 2.316

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.217	02	1.000	2.357	03	2.000	2.353	04	5.000	2.314
05	10.000	2.222	06	50.000	2.275	07	100.000	2.433	08	150.000	2.381
09	200.000	2.292									

4-Isopropyltoluene Average RF RSD = 8.7 Average RF = 2.313

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.000	02	1.000	2.070	03	2.000	2.235	04	5.000	2.238
05	10.000	2.288	06	50.000	2.446	07	100.000	2.592	08	150.000	2.529
09	200.000	2.416									

4-Methyl-2-pentanone Average RF RSD = 9.5 Average RF = 0.2664

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2283	04	5.000	0.2419	05	10.000	0.2515	06	50.000	0.2813
07	100.000	0.2844	08	150.000	0.2917	09	200.000	0.2859			

Acetone Average RF RSD = 16.0 Average RF = 0.1523

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2006	04	5.000	0.1539	05	10.000	0.1637	06	50.000	0.1371
07	100.000	0.1269	08	150.000	0.1454	09	200.000	0.1382			

Acetonitrile Average RF RSD = 7.9 Average RF = 0.01632

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.01405	02	5.000	0.01613	03	10.000	0.01663	04	25.000	0.01496
05	50.000	0.01819	06	250.000	0.01596	07	500.000	0.01684	08	750.000	0.01781
09	1000.000	0.01632									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

Acrolein Average RF RSD = 8.3 Average RF = 0.06115

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.07341	02	5.000	0.06441	03	10.000	0.06026	04	25.000	0.05846
05	50.000	0.05698	06	250.000	0.06061	07	500.000	0.05882	08	750.000	0.05945
09	1000.000	0.05794									

Acrylonitrile Average RF RSD = 6.5 Average RF = 0.1399

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1169	02	5.000	0.1432	03	10.000	0.1467	04	25.000	0.1429
05	50.000	0.1470	06	250.000	0.1418	07	500.000	0.1415	08	750.000	0.1413
09	1000.000	0.1380									

Benzene Average RF RSD = 3.8 Average RF = 1.222

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.122	02	1.000	1.210	03	2.000	1.194	04	5.000	1.219
05	10.000	1.246	06	50.000	1.220	07	100.000	1.266	08	150.000	1.279
09	200.000	1.244									

Bromobenzene Average RF RSD = 2.7 Average RF = 0.7548

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7476	02	1.000	0.7418	03	2.000	0.7975	04	5.000	0.7394
05	10.000	0.7424	06	50.000	0.7346	07	100.000	0.7768	08	150.000	0.7568
09	200.000	0.7564									

Bromochloromethane Average RF RSD = 5.2 Average RF = 0.3021

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3152	02	1.000	0.3312	03	2.000	0.3034	04	5.000	0.3127
05	10.000	0.3058	06	50.000	0.2908	07	100.000	0.2891	08	150.000	0.2879
09	200.000	0.2832									

Bromodichloromethane Average RF RSD = 5.0 Average RF = 0.3900

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3485	02	1.000	0.3826	03	2.000	0.4034	04	5.000	0.3794
05	10.000	0.3860	06	50.000	0.3881	07	100.000	0.4057	08	150.000	0.4125
09	200.000	0.4038									

Bromoform Average RF RSD = 12.9 Average RF = 0.1754

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1633	02	1.000	0.1361	03	2.000	0.1570	04	5.000	0.1730
05	10.000	0.1680	06	50.000	0.1789	07	100.000	0.1952	08	150.000	0.2049
09	200.000	0.2022									

Bromomethane Quadratic 1/X2 COD = 0.9952 $Y = 0.02646 X^2 + 0.1677 X + -3.664E-4$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1448	02	1.000	0.1307	03	2.000	0.1462	04	5.000	0.1517
05	10.000	0.1874	06	50.000	0.2042	07	100.000	0.2395	08	150.000	0.2497
09	200.000	0.2590									

Carbon Disulfide Average RF RSD = 3.7 Average RF = 1.474

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.572	02	1.000	1.516	03	2.000	1.522	04	5.000	1.467
05	10.000	1.406	06	50.000	1.460	07	100.000	1.469	08	150.000	1.454
09	200.000	1.403									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

Carbon Tetrachloride Average RF RSD = 7.6 Average RF = 0.1274

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1150	02	1.000	0.1276	03	2.000	0.1205	04	5.000	0.1240
05	10.000	0.1179	06	50.000	0.1238	07	100.000	0.1378	08	150.000	0.1420
09	200.000	0.1376									

Chlorobenzene Average RF RSD = 2.7 Average RF = 0.9640

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9164	02	1.000	0.9520	03	2.000	0.9738	04	5.000	0.9784
05	10.000	0.9472	06	50.000	0.9474	07	100.000	0.9968	08	150.000	0.9973
09	200.000	0.9671									

Chloroethane Average RF RSD = 2.6 Average RF = 0.3320

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3410	02	1.000	0.3293	03	2.000	0.3416	04	5.000	0.3341
05	10.000	0.3378	06	50.000	0.3327	07	100.000	0.3319	08	150.000	0.3268
09	200.000	0.3132									

Chloroform Average RF RSD = 4.2 Average RF = 0.8279

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8897	02	1.000	0.8677	03	2.000	0.8333	04	5.000	0.8272
05	10.000	0.8452	06	50.000	0.7861	07	100.000	0.8012	08	150.000	0.8076
09	200.000	0.7930									

Chloromethane Average RF RSD = 4.5 Average RF = 0.7175

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7430	02	1.000	0.6897	03	2.000	0.6771	04	5.000	0.6806
05	10.000	0.7672	06	50.000	0.7395	07	100.000	0.7395	08	150.000	0.7240
09	200.000	0.6966									

Cyclohexane Average RF RSD = 5.5 Average RF = 0.4527

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4964	02	1.000	0.4498	03	2.000	0.4809	04	5.000	0.4416
05	10.000	0.4140	06	50.000	0.4664	07	100.000	0.4384	08	150.000	0.4487
09	200.000	0.4384									

Cyclohexanone Average RF RSD = 12.3 Average RF = 0.04603

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.03458	02	20.000	0.03891	03	40.000	0.04578	04	100.000	0.04682
05	200.000	0.04994	06	1000.000	0.05054	07	2000.000	0.04900	08	3000.000	0.05118
09	4000.000	0.04750									

Dibromochloromethane Average RF RSD = 10.9 Average RF = 0.3054

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2648	02	1.000	0.2699	03	2.000	0.2753	04	5.000	0.2994
05	10.000	0.2882	06	50.000	0.3186	07	100.000	0.3388	08	150.000	0.3461
09	200.000	0.3473									

Dibromofluoromethane Average RF RSD = 2.2 Average RF = 0.3188

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3253	04	60.000	0.3151	05	70.000	0.3253	07	100.000	0.3250
08	125.000	0.3112	09	150.000	0.3110						

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

Dibromomethane Average RF RSD = 4.1 Average RF = 0.1717

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1793	02	1.000	0.1663	03	2.000	0.1870	04	5.000	0.1713
05	10.000	0.1675	06	50.000	0.1657	07	100.000	0.1702	08	150.000	0.1709
09	200.000	0.1676									

Dichlorodifluoromethane (CFC 12) Average RF RSD = 8.9 Average RF = 0.5381

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4942	02	1.000	0.5485	03	2.000	0.4794	04	5.000	0.4602
05	10.000	0.5654	06	50.000	0.5744	07	100.000	0.5890	08	150.000	0.5817
09	200.000	0.5504									

Dichlorofluoromethane (CFC 21) Average RF RSD = 2.8 Average RF = 0.9222

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9548	02	1.000	0.9324	03	2.000	0.9495	04	5.000	0.9206
05	10.000	0.9227	06	50.000	0.9412	07	100.000	0.8810	08	150.000	0.9108
09	200.000	0.8868									

Dichloromethane Average RF RSD = 6.0 Average RF = 0.4573

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4871	02	1.000	0.5054	03	2.000	0.4849	04	5.000	0.4477
05	10.000	0.4457	06	50.000	0.4347	07	100.000	0.4408	08	150.000	0.4399
09	200.000	0.4298									

Diethyl Ether Average RF RSD = 5.2 Average RF = 0.3910

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4251	02	1.000	0.4153	03	2.000	0.3878	04	5.000	0.3993
05	10.000	0.3993	06	50.000	0.3757	07	100.000	0.3728	08	150.000	0.3792
09	200.000	0.3642									

Diisopropyl Ether Average RF RSD = 5.5 Average RF = 2.181

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.992	02	1.000	2.067	03	2.000	2.182	04	5.000	2.223
05	10.000	2.394	06	50.000	2.285	07	100.000	2.208	08	150.000	2.176
09	200.000	2.102									

Ethyl Methacrylate Average RF RSD = 13.1 Average RF = 0.2657

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2325	02	1.000	0.2446	03	2.000	0.2258	04	5.000	0.2400
05	10.000	0.2480	06	50.000	0.2781	07	100.000	0.2969	08	150.000	0.3153
09	200.000	0.3100									

Ethyl tert-Butyl Ether Average RF RSD = 4.6 Average RF = 1.463

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.447	02	1.000	1.344	03	2.000	1.429	04	5.000	1.387
05	10.000	1.557	06	50.000	1.486	07	100.000	1.483	08	150.000	1.519
09	200.000	1.512									

Ethylbenzene Average RF RSD = 6.8 Average RF = 0.4804

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4418	02	1.000	0.4433	03	2.000	0.4482	04	5.000	0.4733
05	10.000	0.4752	06	50.000	0.4852	07	100.000	0.5209	08	150.000	0.5243
09	200.000	0.5112									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

Hexachlorobutadiene Average RF RSD = 4.0 Average RF = 0.3147

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3208	02	1.000	0.3132	03	2.000	0.2909	04	5.000	0.3104
05	10.000	0.3020	06	50.000	0.3183	07	100.000	0.3198	08	150.000	0.3328
09	200.000	0.3239									

Iodomethane Quadratic 1/X COD = 0.9908 $Y = 0.04189 X^2 + 0.3945 X + -0.03918$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.09270	05	10.000	0.1525	06	50.000	0.3199	07	100.000	0.4944
08	150.000	0.5393	09	200.000	0.5301						

Isopropylbenzene (Cumene) Average RF RSD = 7.7 Average RF = 1.457

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.263	02	1.000	1.376	03	2.000	1.426	04	5.000	1.441
05	10.000	1.396	06	50.000	1.514	07	100.000	1.627	08	150.000	1.591
09	200.000	1.476									

Methacrylonitrile Average RF RSD = 14.1 Average RF = 0.1086

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.08756	02	1.000	0.08229	03	2.000	0.1019	04	5.000	0.1112
05	10.000	0.1077	06	50.000	0.1186	07	100.000	0.1215	08	150.000	0.1228
09	200.000	0.1237									

Methyl Acetate Average RF RSD = 5.4 Average RF = 0.3020

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2736	02	1.000	0.2828	03	2.000	0.3043	04	5.000	0.3102
05	10.000	0.3218	06	50.000	0.3246	07	100.000	0.3013	08	150.000	0.3000
09	200.000	0.2999									

Methyl Methacrylate Average RF RSD = 18.5 Average RF = 0.1265

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.07771	02	1.000	0.1430	03	2.000	0.1044	04	5.000	0.1166
05	10.000	0.1267	06	50.000	0.1342	07	100.000	0.1413	08	150.000	0.1495
09	200.000	0.1454									

Methyl tert-Butyl Ether Average RF RSD = 4.0 Average RF = 0.9984

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9383	02	1.000	0.9448	03	2.000	0.9733	04	5.000	0.9997
05	10.000	0.9967	06	50.000	1.010	07	100.000	1.034	08	150.000	1.052
09	200.000	1.037									

Methylcyclohexane Average RF RSD = 5.4 Average RF = 0.4697

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4470	02	1.000	0.4579	03	2.000	0.4810	04	5.000	0.4729
05	10.000	0.4164	06	50.000	0.4955	07	100.000	0.4772	08	150.000	0.4946
09	200.000	0.4848									

Naphthalene Average RF RSD = 15.3 Average RF = 1.321

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.104	03	2.000	1.004	04	5.000	1.202	05	10.000	1.289
06	50.000	1.449	07	100.000	1.491	08	150.000	1.542	09	200.000	1.486

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

Propionitrile — Curve Fit: Linear — Weighting: 1/X — R2 = 0.9991 — Y = 0.04878 X + -0.001783

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.01416	02	5.000	0.04207	03	10.000	0.03601	04	25.000	0.03956
05	50.000	0.04437	06	250.000	0.04887	07	500.000	0.04677	08	750.000	0.05005
09	1000.000	0.04872									

Styrene — Average RF — RSD = 12.4 — Average RF = 0.9623

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7468	02	1.000	0.8480	03	2.000	0.8902	04	5.000	0.9342
05	10.000	0.9699	06	50.000	1.023	07	100.000	1.095	08	150.000	1.104
09	200.000	1.049									

Tetrachloroethene (PCE) — Average RF — RSD = 4.5 — Average RF = 0.2891

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3021	02	1.000	0.2880	03	2.000	0.2711	04	5.000	0.2832
05	10.000	0.2704	06	50.000	0.2850	07	100.000	0.3031	08	150.000	0.3024
09	200.000	0.2970									

Tetrahydrofuran (THF) — Average RF — RSD = 4.3 — Average RF = 0.1111

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1026	03	2.000	0.1138	04	5.000	0.1115	05	10.000	0.1048
06	50.000	0.1141	07	100.000	0.1125	08	150.000	0.1157	09	200.000	0.1141

Toluene — Average RF — RSD = 2.5 — Average RF = 1.281

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.246	02	1.000	1.295	03	2.000	1.260	04	5.000	1.262
05	10.000	1.253	06	50.000	1.270	07	100.000	1.323	08	150.000	1.338
09	200.000	1.279									

Toluene-d8 — Average RF — RSD = 2.2 — Average RF = 1.123

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.159	04	60.000	1.105	05	70.000	1.140	07	100.000	1.133
08	125.000	1.106	09	150.000	1.094						

Trichloroethene (TCE) — Average RF — RSD = 3.6 — Average RF = 0.3407

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3247	02	1.000	0.3409	03	2.000	0.3377	04	5.000	0.3364
05	10.000	0.3286	06	50.000	0.3323	07	100.000	0.3515	08	150.000	0.3619
09	200.000	0.3526									

Trichlorofluoromethane (CFC 11) — Average RF — RSD = 3.3 — Average RF = 0.7423

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7879	02	1.000	0.7432	03	2.000	0.7252	04	5.000	0.7395
05	10.000	0.7016	06	50.000	0.7396	07	100.000	0.7599	08	150.000	0.7575
09	200.000	0.7266									

Vinyl Acetate — Average RF — RSD = 18.1 — Average RF = 0.05589

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.03626	03	2.000	0.04476	04	5.000	0.05793	05	10.000	0.05835
06	50.000	0.05905	07	100.000	0.06563	08	150.000	0.06268	09	200.000	0.06250

Vinyl Chloride — Average RF — RSD = 3.7 — Average RF = 0.6553

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6511	02	1.000	0.6983	03	2.000	0.6395	04	5.000	0.6148
05	10.000	0.6438	06	50.000	0.6582	07	100.000	0.6765	08	150.000	0.6713
09	200.000	0.6446									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

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

cis-1,2-Dichloroethene Average RF RSD = 4.0 Average RF = 0.4913

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4618	02	1.000	0.4589	03	2.000	0.5045	04	5.000	0.5140
05	10.000	0.5091	06	50.000	0.4873	07	100.000	0.4939	08	150.000	0.5008
09	200.000	0.4916									

cis-1,3-Dichloropropene Average RF RSD = 13.9 Average RF = 0.4120

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3343	02	1.000	0.3639	03	2.000	0.3613	04	5.000	0.3697
05	10.000	0.4089	06	50.000	0.4399	07	100.000	0.4685	08	150.000	0.4845
09	200.000	0.4765									

m,p-Xylenes Average RF RSD = 7.8 Average RF = 0.5924

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5081	02	2.000	0.5402	03	4.000	0.5776	04	10.000	0.6066
05	20.000	0.5903	06	100.000	0.6045	07	200.000	0.6497	08	300.000	0.6474
09	400.000	0.6075									

n-Butyl Acetate Average RF RSD = 13.3 Average RF = 0.4703

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3814	02	1.000	0.4167	03	2.000	0.4473	04	5.000	0.3995
05	10.000	0.4638	06	50.000	0.5284	07	100.000	0.5225	08	150.000	0.5408
09	200.000	0.5319									

n-Butylbenzene Average RF RSD = 11.6 Average RF = 1.960

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.520	02	1.000	1.779	03	2.000	1.835	04	5.000	1.921
05	10.000	1.941	06	50.000	2.116	07	100.000	2.212	08	150.000	2.214
09	200.000	2.104									

n-Heptane Average RF RSD = 7.6 Average RF = 0.4609

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4544	02	1.000	0.4668	03	2.000	0.4216	04	5.000	0.4287
05	10.000	0.4087	06	50.000	0.4829	07	100.000	0.4958	08	150.000	0.5082
09	200.000	0.4814									

n-Propylbenzene Average RF RSD = 6.0 Average RF = 3.120

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.799	02	1.000	2.961	03	2.000	3.080	04	5.000	3.158
05	10.000	3.135	06	50.000	3.277	07	100.000	3.431	08	150.000	3.243
09	200.000	2.999									

o-Xylene Average RF RSD = 8.8 Average RF = 0.5792

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5477	02	1.000	0.4764	03	2.000	0.5469	04	5.000	0.5779
05	10.000	0.5754	06	50.000	0.6051	07	100.000	0.6320	08	150.000	0.6378
09	200.000	0.6138									

sec-Butylbenzene Average RF RSD = 6.4 Average RF = 2.666

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.444	02	1.000	2.450	03	2.000	2.660	04	5.000	2.605
05	10.000	2.562	06	50.000	2.793	07	100.000	2.928	08	150.000	2.861
09	200.000	2.692									

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting								
tert-Amyl Methyl Ether	Average RF		RSD = 8.3		Average RF = 0.9868					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8467	02	1.000	0.9308	03	2.000	0.9110	04	5.000	0.9352
05	10.000	1.043	06	50.000	1.034	07	100.000	1.034	08	150.000	1.074
09	200.000	1.073									
tert-Butylbenzene	Average RF		RSD = 6.3		Average RF = 1.902					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.801	02	1.000	1.783	03	2.000	1.789	04	5.000	1.859
05	10.000	1.801	06	50.000	1.958	07	100.000	2.077	08	150.000	2.059
09	200.000	1.989									
trans-1,2-Dichloroethene	Average RF		RSD = 3.9		Average RF = 0.4493					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4824	02	1.000	0.4293	03	2.000	0.4260	04	5.000	0.4594
05	10.000	0.4594	06	50.000	0.4418	07	100.000	0.4512	08	150.000	0.4544
09	200.000	0.4398									
trans-1,3-Dichloropropene	Average RF		RSD = 17.8		Average RF = 0.3260					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2493	02	1.000	0.2700	03	2.000	0.2759	04	5.000	0.2990
05	10.000	0.3100	06	50.000	0.3489	07	100.000	0.3833	08	150.000	0.4005
09	200.000	0.3974									
trans-1,4-Dichloro-2-butene	Quadratic	1/X2	COD = 0.9957		Y = 0.007435 X^2 + 0.06784 X + -2.039E-4					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.04966	02	1.000	0.05506	03	2.000	0.06137	04	5.000	0.06324
05	10.000	0.06641	06	50.000	0.08121	07	100.000	0.08676	08	150.000	0.09244
09	200.000	0.09235									

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.46	-7.9	02	1.000	0.88	-11.8	03	2.000	1.79	-10.7
04	5.000	4.75	-5.0	05	10.000	9.98	-0.2	06	50.000	51.12	2.2
07	100.000	110.30	10.3	08	150.000	168.35	12.2	09	200.000	221.54	10.8

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.0	02	1.000	0.98	-1.5	03	2.000	1.97	-1.3
04	5.000	5.02	0.5	05	10.000	9.57	-4.3	06	50.000	48.94	-2.1
07	100.000	102.77	2.8	08	150.000	155.16	3.4	09	200.000	203.10	1.6

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.4	02	1.000	0.95	-4.8	03	2.000	2.13	6.7
04	5.000	5.21	4.1	05	10.000	10.21	2.1	06	50.000	48.37	-3.3
07	100.000	100.69	0.7	08	150.000	150.87	0.6	09	200.000	196.51	-1.7

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.4	02	1.000	1.04	4.4	03	2.000	1.96	-2.2
04	5.000	4.72	-5.5	05	10.000	10.07	0.7	06	50.000	49.30	-1.4
07	100.000	102.24	2.2	08	150.000	157.44	5.0	09	200.000	204.30	2.1

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.8	02	1.000	1.10	9.7	03	2.000	1.96	-2.0
04	5.000	5.18	3.6	05	10.000	8.90	-11.0	06	50.000	47.99	-4.0
07	100.000	100.67	0.7	08	150.000	152.06	1.4	09	200.000	191.91	-4.0

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.7	02	1.000	0.99	-0.6	03	2.000	2.10	5.2
04	5.000	5.05	1.0	05	10.000	10.04	0.4	06	50.000	49.36	-1.3
07	100.000	99.86	-0.1	08	150.000	148.65	-0.9	09	200.000	194.11	-2.9

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.3	02	1.000	0.97	-3.3	03	2.000	2.14	7.1
04	5.000	5.07	1.4	05	10.000	9.14	-8.6	06	50.000	47.55	-4.9
07	100.000	100.25	0.2	08	150.000	154.36	2.9	09	200.000	195.66	-2.2

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.4	02	1.000	0.93	-7.5	03	2.000	1.99	-0.4
04	5.000	4.94	-1.2	05	10.000	9.33	-6.7	06	50.000	48.78	-2.4
07	100.000	104.16	4.2	08	150.000	156.76	4.5	09	200.000	202.32	1.2

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **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	0.44	-12.4	02	1.000	0.90	-9.9	03	2.000	1.83	-8.3
04	5.000	4.54	-9.1	05	10.000	10.14	1.4	06	50.000	53.21	6.4
07	100.000	107.90	7.9	08	150.000	169.64	13.1	09	200.000	221.75	10.9

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.9	02	1.000	0.98	-1.7	03	2.000	2.23	11.5
04	5.000	5.03	0.6	05	10.000	9.36	-6.4	06	50.000	46.23	-7.5
07	100.000	95.97	-4.0	08	150.000	140.26	-6.5	09	200.000	192.50	-3.8

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.7	02	1.000	0.95	-5.2	03	2.000	1.91	-4.7
04	5.000	4.81	-3.8	05	10.000	9.96	-0.4	06	50.000	51.12	2.2
07	100.000	105.03	5.0	08	150.000	162.05	8.0	09	200.000	210.96	5.5

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.7	02	1.000	0.89	-11.0	03	2.000	1.91	-4.3
04	5.000	5.07	1.5	05	10.000	10.07	0.7	06	50.000	51.78	3.6
07	100.000	109.23	9.2	08	150.000	160.75	7.2	09	200.000	205.89	2.9

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.39	-21.4	02	1.000	0.79	-20.8	03	2.000	1.77	-11.3
04	5.000	4.54	-9.3	05	10.000	9.38	-6.2	06	50.000	54.10	8.2
07	100.000	116.94	16.9	08	150.000	182.52	21.7	09	200.000	244.27	22.1

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.3	02	1.000	0.86	-13.7	03	2.000	1.96	-1.8
04	5.000	5.01	0.2	05	10.000	9.49	-5.1	06	50.000	51.51	3.0
07	100.000	106.06	6.1	08	150.000	159.25	6.2	09	200.000	209.55	4.8

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.4	02	1.000	1.03	2.8	03	2.000	2.08	4.2
04	5.000	5.02	0.4	05	10.000	9.64	-3.6	06	50.000	52.53	5.1
07	100.000	97.68	-2.3	08	150.000	148.91	-0.7	09	200.000	193.29	-3.4

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.6	02	1.000	0.99	-0.6	03	2.000	1.92	-4.2
04	5.000	5.01	0.2	05	10.000	9.91	-0.9	06	50.000	49.62	-0.8
07	100.000	102.84	2.8	08	150.000	155.99	4.0	09	200.000	201.99	1.0

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.52	3.1	02	1.000	0.98	-1.7	03	2.000	1.91	-4.3
04	5.000	5.16	3.1	05	10.000	10.13	1.3	06	50.000	49.58	-0.8
07	100.000	100.67	0.7	08	150.000	151.85	1.2	09	200.000	194.73	-2.6

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	50.75	1.5	04	60.000	61.64	2.7	05	70.000	72.65	3.8
07	100.000	100.55	0.6	08	125.000	121.19	-3.0	09	150.000	141.72	-5.5

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-3.0	02	1.000	0.92	-7.9	03	2.000	2.07	3.4
04	5.000	4.97	-0.7	05	10.000	9.82	-1.8	06	50.000	49.93	-0.1
07	100.000	103.16	3.2	08	150.000	156.87	4.6	09	200.000	204.64	2.3

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.3	02	1.000	0.90	-10.5	03	2.000	1.92	-4.0
04	5.000	4.77	-4.7	05	10.000	9.84	-1.6	06	50.000	51.74	3.5
07	100.000	101.77	1.8	08	150.000	157.52	5.0	09	200.000	206.31	3.2

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	0.94	-5.6	03	2.000	1.96	-1.8
04	5.000	4.84	-3.2	05	10.000	9.73	-2.7	06	50.000	51.25	2.5
07	100.000	109.33	9.3	08	150.000	160.99	7.3	09	200.000	203.44	1.7

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.8	02	1.000	0.94	-6.1	03	2.000	1.96	-1.9
04	5.000	4.91	-1.8	05	10.000	9.99	-0.1	06	50.000	50.23	0.5
07	100.000	105.76	5.8	08	150.000	158.21	5.5	09	200.000	207.96	4.0

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.1	02	1.000	0.99	-1.3	03	2.000	1.99	-0.4
04	5.000	4.93	-1.4	05	10.000	9.85	-1.5	06	50.000	49.93	-0.1
07	100.000	101.32	1.3	08	150.000	151.60	1.1	09	200.000	198.37	-0.8

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.2	02	1.000	0.96	-4.0	03	2.000	1.99	-0.4
04	5.000	4.98	-0.5	05	10.000	9.92	-0.8	06	50.000	49.46	-1.1
07	100.000	102.25	2.3	08	150.000	154.69	3.1	09	200.000	202.31	1.2

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	16.29	-18.5	03	40.000	42.03	5.1	04	100.000	101.51	1.5
05	200.000	220.42	10.2	06	1000.000	972.09	-2.8	07	2000.000	1,906.34	-4.7
08	3000.000	3,183.77	6.1	09	4000.000	4,123.39	3.1				

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	50.51	1.0	03	100.000	100.50	0.5	04	250.000	229.54	-8.2
05	500.000	515.33	3.1	06	2500.000	2,576.95	3.1	07	5000.000	4,982.17	-0.4
08	7500.000	7,650.84	2.0	09	10000.000	9,835.61	-1.6				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.2	02	1.000	0.93	-6.6	03	2.000	1.90	-4.9
04	5.000	4.85	-2.9	05	10.000	9.44	-5.6	06	50.000	52.00	4.0
07	100.000	106.19	6.2	08	150.000	164.67	9.8	09	200.000	214.49	7.2

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.9	02	1.000	1.08	7.9	03	2.000	2.09	4.4
04	5.000	4.91	-1.8	05	10.000	9.19	-8.1	06	50.000	50.40	0.8
07	100.000	95.06	-4.9	08	150.000	146.97	-2.0	09	200.000	193.59	-3.2

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.9	02	1.000	0.90	-9.7	03	2.000	1.88	-6.1
04	5.000	4.66	-6.9	05	10.000	9.06	-9.4	06	50.000	51.07	2.1
07	100.000	109.13	9.1	08	150.000	170.93	14.0	09	200.000	223.68	11.8

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.4	02	1.000	0.97	-3.2	03	2.000	1.93	-3.4
04	5.000	4.37	-12.6	05	10.000	10.05	0.5	06	50.000	52.01	4.0
07	100.000	104.46	4.5	08	150.000	170.09	13.4	09	200.000	230.23	15.1

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-20.5	02	1.000	0.76	-23.6	03	2.000	1.64	-17.9
04	5.000	4.61	-7.9	05	10.000	10.16	1.6	06	50.000	56.04	12.1
07	100.000	112.38	12.4	08	150.000	183.37	22.2	09	200.000	243.15	21.6

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.25	-16.4	02	3.000	2.70	-10.0	03	6.000	5.62	-6.3
04	15.000	14.63	-2.5	05	30.000	30.93	3.1	06	150.000	164.13	9.4
07	300.000	325.70	8.6	08	450.000	493.00	9.6	09	600.000	626.82	4.5

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.47	-5.0	02	1.000	0.93	-7.5	03	2.000	1.83	-8.6
04	5.000	4.79	-4.3	05	10.000	9.74	-2.6	06	50.000	52.64	5.3
07	100.000	104.98	5.0	08	150.000	163.22	8.8	09	200.000	217.83	8.9

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	15.2	02	1.000	0.95	-5.0	03	2.000	2.03	1.6
04	5.000	4.40	-12.1	05	10.000	9.13	-8.7	06	50.000	49.96	-0.1
07	100.000	101.10	1.1	08	150.000	156.79	4.5	09	200.000	207.05	3.5

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.90	-5.1	04	5.000	4.57	-8.6	05	10.000	10.02	0.2
06	50.000	54.85	9.7	07	100.000	101.93	1.9	08	150.000	154.93	3.3
09	200.000	197.12	-1.4								

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-7.0	02	1.000	0.93	-7.5	03	2.000	1.99	-0.4
04	5.000	5.15	3.0	05	10.000	9.76	-2.4	06	50.000	51.91	3.8
07	100.000	105.06	5.1	08	150.000	155.67	3.8	09	200.000	203.25	1.6

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.7	02	1.000	0.89	-11.0	03	2.000	1.90	-5.1
04	5.000	4.81	-3.9	05	10.000	9.68	-3.2	06	50.000	51.98	4.0
07	100.000	105.63	5.6	08	150.000	164.78	9.9	09	200.000	210.83	5.4

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.77	-23.1	03	2.000	1.50	-25.0	04	5.000	4.41	-11.7
05	10.000	9.36	-6.4	06	50.000	55.89	11.8	07	100.000	117.57	17.6
08	150.000	178.63	19.1	09	200.000	235.56	17.8				

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	0.95	-5.0	03	2.000	1.96	-1.8
04	5.000	5.04	0.8	05	10.000	10.07	0.7	06	50.000	50.20	0.4
07	100.000	106.82	6.8	08	150.000	156.49	4.3	09	200.000	202.22	1.1

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.82	-9.0	04	5.000	4.74	-5.3	05	10.000	8.66	-13.4
06	50.000	53.81	7.6	07	100.000	105.94	5.9	08	150.000	162.24	8.2
09	200.000	211.86	5.9								

Initial Calibration - Detailed Report

Calibration ID: RC1400062 **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
02	20.000	17.05	-14.8	03	40.000	36.18	-9.5	04	100.000	78.86	-21.1
05	200.000	176.61	-11.7	06	1000.000	1,035.18	3.5	07	2000.000	2,189.80	9.5
08	3000.000	3,676.51	22.6	09	4000.000	4,863.64	21.6				

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	7.42	-25.8	02	20.000	18.76	-6.2	03	40.000	35.45	-11.4
04	100.000	93.10	-6.9	05	200.000	203.64	1.8	06	1000.000	1,035.71	3.6
07	2000.000	2,100.84	5.0	08	3000.000	3,608.65	20.3	09	4000.000	4,781.53	19.5

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	2.000	2.56	28.1	03	4.000	3.95	-1.3	04	10.000	7.61	-23.9
05	20.000	17.32	-13.4	06	100.000	94.31	-5.7	07	200.000	204.17	2.1
08	300.000	322.16	7.4	09	400.000	426.73	6.7				

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	10.70	7.0	02	20.000	20.30	1.5	03	40.000	33.29	-16.8
04	100.000	81.84	-18.2	05	200.000	205.48	2.7	06	1000.000	1,036.50	3.6
07	2000.000	2,025.96	1.3	08	3000.000	3,309.83	10.3	09	4000.000	4,337.45	8.4

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.83	-17.0	02	2.000	1.84	-8.0	03	4.000	3.68	-8.1
04	10.000	9.88	-1.2	05	20.000	21.23	6.1	06	100.000	110.01	10.0
07	200.000	217.38	8.7	08	300.000	322.30	7.4	09	400.000	407.99	2.0

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.2	02	1.000	0.99	-1.3	03	2.000	1.89	-5.3
04	5.000	4.95	-0.9	05	10.000	9.32	-6.8	06	50.000	51.30	2.6
07	100.000	105.35	5.3	08	150.000	162.20	8.1	09	200.000	215.03	7.5

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.4	02	1.000	0.97	-2.6	03	2.000	2.02	1.2
04	5.000	4.81	-3.8	05	10.000	9.74	-2.6	06	50.000	53.04	6.1
07	100.000	110.29	10.3	08	150.000	161.61	7.7	09	200.000	202.20	1.1

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.3	02	1.000	0.96	-4.0	03	2.000	1.84	-7.9
04	5.000	4.88	-2.4	05	10.000	9.15	-8.5	06	50.000	52.41	4.8
07	100.000	106.91	6.9	08	150.000	164.75	9.8	09	200.000	215.18	7.6

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.48	-3.9	02	1.000	0.94	-6.1	03	2.000	1.91	-4.3
04	5.000	4.94	-1.2	05	10.000	10.48	4.8	06	50.000	51.45	2.9
07	100.000	104.32	4.3	08	150.000	154.52	3.0	09	200.000	201.06	0.5

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	50.98	2.0	04	60.000	58.66	-2.2	05	70.000	71.05	1.5
07	100.000	102.39	2.4	08	125.000	126.23	1.0	09	150.000	143.09	-4.6

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.3	02	1.000	1.02	1.8	03	2.000	2.03	1.6
04	5.000	4.99	-0.1	05	10.000	9.59	-4.1	06	50.000	49.12	-1.8
07	100.000	105.07	5.1	08	150.000	154.25	2.8	09	200.000	197.91	-1.0

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.5	02	1.000	0.89	-10.5	03	2.000	1.93	-3.4
04	5.000	4.84	-3.2	05	10.000	9.89	-1.1	06	50.000	52.88	5.8
07	100.000	112.06	12.1	08	150.000	164.05	9.4	09	200.000	208.92	4.5

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.71	-14.3	04	5.000	4.54	-9.2	05	10.000	9.44	-5.6
06	50.000	52.79	5.6	07	100.000	106.76	6.8	08	150.000	164.20	9.5
09	200.000	214.63	7.3								

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.63	**31.7**	04	5.000	5.06	1.1	05	10.000	10.75	7.5
06	50.000	45.03	-9.9	07	100.000	83.38	-16.6	08	150.000	143.22	-4.5
09	200.000	181.49	-9.3								

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.15	-13.9	02	5.000	4.94	-1.2	03	10.000	10.19	1.9
04	25.000	22.91	-8.4	05	50.000	55.73	11.5	06	250.000	244.42	-2.2
07	500.000	515.83	3.2	08	750.000	818.65	9.2	09	1000.000	999.74	0.0

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	3.00	20.0	02	5.000	5.27	5.3	03	10.000	9.86	-1.4
04	25.000	23.90	-4.4	05	50.000	46.59	-6.8	06	250.000	247.78	-0.9
07	500.000	480.97	-3.8	08	750.000	729.20	-2.8	09	1000.000	947.53	-5.2

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	2.09	-16.5	02	5.000	5.12	2.3	03	10.000	10.48	4.8
04	25.000	25.54	2.2	05	50.000	52.53	5.1	06	250.000	253.38	1.4
07	500.000	505.50	1.1	08	750.000	757.45	1.0	09	1000.000	986.54	-1.3

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.2	02	1.000	0.99	-1.0	03	2.000	1.95	-2.3
04	5.000	4.99	-0.2	05	10.000	10.19	1.9	06	50.000	49.91	-0.2
07	100.000	103.59	3.6	08	150.000	156.96	4.6	09	200.000	203.50	1.8

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-1.0	02	1.000	0.98	-1.7	03	2.000	2.11	5.7
04	5.000	4.90	-2.0	05	10.000	9.84	-1.6	06	50.000	48.66	-2.7
07	100.000	102.91	2.9	08	150.000	150.40	0.3	09	200.000	200.41	0.2

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.3	02	1.000	1.10	9.6	03	2.000	2.01	0.4
04	5.000	5.17	3.5	05	10.000	10.12	1.2	06	50.000	48.12	-3.8
07	100.000	95.67	-4.3	08	150.000	142.92	-4.7	09	200.000	187.49	-6.3

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.6	02	1.000	0.98	-1.9	03	2.000	2.07	3.4
04	5.000	4.86	-2.7	05	10.000	9.90	-1.0	06	50.000	49.76	-0.5
07	100.000	104.02	4.0	08	150.000	158.67	5.8	09	200.000	207.08	3.5

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.9	02	1.000	0.78	-22.4	03	2.000	1.79	-10.5
04	5.000	4.93	-1.4	05	10.000	9.58	-4.2	06	50.000	51.01	2.0
07	100.000	111.29	11.3	08	150.000	175.18	16.8	09	200.000	230.56	15.3

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.0	02	1.000	0.89	-11.4	03	2.000	1.84	-7.9
04	5.000	4.57	-8.7	05	10.000	10.91	9.1	06	50.000	52.35	4.7
07	100.000	106.88	6.9	08	150.000	151.27	0.8	09	200.000	192.29	-3.9

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.6	02	1.000	1.03	2.8	03	2.000	2.06	3.2
04	5.000	4.97	-0.5	05	10.000	9.54	-4.6	06	50.000	49.52	-1.0
07	100.000	99.63	-0.4	08	150.000	147.90	-1.4	09	200.000	190.30	-4.9

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.45	-9.7	02	1.000	1.00	0.2	03	2.000	1.89	-5.4
04	5.000	4.87	-2.7	05	10.000	9.26	-7.4	06	50.000	48.60	-2.8
07	100.000	108.21	8.2	08	150.000	167.28	11.5	09	200.000	216.03	8.0

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.9	02	1.000	0.99	-1.3	03	2.000	2.02	1.0
04	5.000	5.07	1.5	05	10.000	9.83	-1.7	06	50.000	49.14	-1.7
07	100.000	103.40	3.4	08	150.000	155.18	3.5	09	200.000	200.64	0.3

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.7	02	1.000	0.99	-0.8	03	2.000	2.06	2.9
04	5.000	5.03	0.6	05	10.000	10.17	1.7	06	50.000	50.09	0.2
07	100.000	99.96	0.0	08	150.000	147.64	-1.6	09	200.000	188.64	-5.7

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.5	02	1.000	1.05	4.8	03	2.000	2.01	0.6
04	5.000	5.00	-0.1	05	10.000	10.21	2.1	06	50.000	47.48	-5.0
07	100.000	96.77	-3.2	08	150.000	146.32	-2.5	09	200.000	191.57	-4.2

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.6	02	1.000	0.96	-3.9	03	2.000	1.89	-5.6
04	5.000	4.74	-5.1	05	10.000	10.69	6.9	06	50.000	51.53	3.1
07	100.000	103.07	3.1	08	150.000	151.36	0.9	09	200.000	194.18	-2.9

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.6	02	1.000	0.99	-0.6	03	2.000	2.12	6.2
04	5.000	4.88	-2.5	05	10.000	9.15	-8.5	06	50.000	51.51	3.0
07	100.000	96.82	-3.2	08	150.000	148.65	-0.9	09	200.000	193.67	-3.2

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	7.51	-24.9	02	20.000	16.91	-15.5	03	40.000	39.78	-0.5
04	100.000	101.72	1.7	05	200.000	217.02	8.5	06	1000.000	1,098.03	9.8
07	2000.000	2,129.22	6.5	08	3000.000	3,335.60	11.2	09	4000.000	4,127.84	3.2

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.3	02	1.000	0.88	-11.6	03	2.000	1.80	-9.9
04	5.000	4.90	-2.0	05	10.000	9.44	-5.6	06	50.000	52.17	4.3
07	100.000	110.96	11.0	08	150.000	170.00	13.3	09	200.000	227.44	13.7

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.02	2.0	04	60.000	59.31	-1.2	05	70.000	71.42	2.0
07	100.000	101.95	1.9	08	125.000	121.99	-2.4	09	150.000	146.32	-2.5

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.4	02	1.000	0.97	-3.2	03	2.000	2.18	8.9
04	5.000	4.99	-0.3	05	10.000	9.75	-2.5	06	50.000	48.25	-3.5
07	100.000	99.09	-0.9	08	150.000	149.22	-0.5	09	200.000	195.16	-2.4

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.2	02	1.000	1.02	1.9	03	2.000	1.78	-10.9
04	5.000	4.28	-14.5	05	10.000	10.51	5.1	06	50.000	53.37	6.7
07	100.000	109.46	9.5	08	150.000	162.14	8.1	09	200.000	204.56	2.3

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.5	02	1.000	1.01	1.1	03	2.000	2.06	3.0
04	5.000	4.99	-0.2	05	10.000	10.01	0.1	06	50.000	51.03	2.1
07	100.000	95.53	-4.5	08	150.000	148.15	-1.2	09	200.000	192.33	-3.8

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.5	02	1.000	1.11	10.5	03	2.000	2.12	6.0
04	5.000	4.90	-2.1	05	10.000	9.75	-2.5	06	50.000	47.53	-4.9
07	100.000	96.38	-3.6	08	150.000	144.27	-3.8	09	200.000	187.97	-6.0

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.7	02	1.000	1.06	6.2	03	2.000	1.98	-0.8
04	5.000	5.11	2.1	05	10.000	10.21	2.1	06	50.000	48.05	-3.9
07	100.000	95.36	-4.6	08	150.000	145.47	-3.0	09	200.000	186.30	-6.8

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.6	02	1.000	0.95	-5.2	03	2.000	2.00	0.1
04	5.000	5.10	1.9	05	10.000	10.97	9.7	06	50.000	52.39	4.8
07	100.000	101.22	1.2	08	150.000	149.68	-0.2	09	200.000	192.73	-3.6

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-12.5	02	1.000	0.92	-7.9	03	2.000	1.70	-15.0
04	5.000	4.52	-9.7	05	10.000	9.33	-6.7	06	50.000	52.34	4.7
07	100.000	111.75	11.8	08	150.000	178.02	18.7	09	200.000	233.33	16.7

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.49	-1.1	02	1.000	0.92	-8.1	03	2.000	1.95	-2.3
04	5.000	4.74	-5.2	05	10.000	10.65	6.5	06	50.000	50.81	1.6
07	100.000	101.41	1.4	08	150.000	155.77	3.8	09	200.000	206.76	3.4

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.0	02	1.000	0.92	-7.7	03	2.000	1.87	-6.7
04	5.000	4.93	-1.5	05	10.000	9.89	-1.1	06	50.000	50.51	1.0
07	100.000	108.43	8.4	08	150.000	163.72	9.1	09	200.000	212.81	6.4

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.0	02	1.000	1.00	-0.5	03	2.000	1.85	-7.6
04	5.000	4.93	-1.4	05	10.000	9.60	-4.0	06	50.000	50.57	1.1
07	100.000	101.62	1.6	08	150.000	158.64	5.8	09	200.000	205.88	2.9

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	6.06	21.3	05	10.000	8.67	-13.3	06	50.000	41.80	-16.4
07	100.000	106.30	6.3	08	150.000	157.41	4.9	09	200.000	193.88	-3.1

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.3	02	1.000	0.94	-5.6	03	2.000	1.96	-2.1
04	5.000	4.95	-1.1	05	10.000	9.59	-4.1	06	50.000	51.96	3.9
07	100.000	111.70	11.7	08	150.000	163.84	9.2	09	200.000	202.66	1.3

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.4	02	1.000	0.76	-24.2	03	2.000	1.88	-6.2
04	5.000	5.12	2.4	05	10.000	9.92	-0.8	06	50.000	54.63	9.3
07	100.000	111.91	11.9	08	150.000	169.63	13.1	09	200.000	227.85	13.9

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.4	02	1.000	0.94	-6.4	03	2.000	2.02	0.8
04	5.000	5.13	2.7	05	10.000	10.65	6.5	06	50.000	53.73	7.5
07	100.000	99.76	-0.2	08	150.000	149.00	-0.7	09	200.000	198.57	-0.7

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.31	-38.6	02	1.000	1.13	13.0	03	2.000	1.65	-17.5
04	5.000	4.61	-7.9	05	10.000	10.02	0.2	06	50.000	53.03	6.1
07	100.000	111.68	11.7	08	150.000	177.22	18.1	09	200.000	229.88	14.9

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.47	-6.0	02	1.000	0.95	-5.4	03	2.000	1.95	-2.5
04	5.000	5.01	0.1	05	10.000	9.98	-0.2	06	50.000	50.59	1.2
07	100.000	103.52	3.5	08	150.000	158.05	5.4	09	200.000	207.80	3.9

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.8	02	1.000	0.97	-2.5	03	2.000	2.05	2.4
04	5.000	5.03	0.7	05	10.000	8.87	-11.3	06	50.000	52.74	5.5
07	100.000	101.59	1.6	08	150.000	157.95	5.3	09	200.000	206.44	3.2

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.84	-16.4	03	2.000	1.52	-24.0	04	5.000	4.55	-9.0
05	10.000	9.76	-2.4	06	50.000	54.86	9.7	07	100.000	112.86	12.9
08	150.000	175.06	16.7	09	200.000	225.06	12.5				

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.55	2.1	02	5.000	6.14	22.8	03	10.000	9.21	-7.9
04	25.000	22.10	-11.6	05	50.000	47.30	-5.4	06	250.000	252.26	0.9
07	500.000	481.16	-3.8	08	750.000	771.31	2.8	09	1000.000	1,000.46	0.0

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.39	-22.4	02	1.000	0.88	-11.9	03	2.000	1.85	-7.5
04	5.000	4.85	-2.9	05	10.000	10.08	0.8	06	50.000	53.15	6.3
07	100.000	113.83	13.8	08	150.000	172.15	14.8	09	200.000	217.99	9.0

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.5	02	1.000	1.00	-0.4	03	2.000	1.88	-6.2
04	5.000	4.90	-2.0	05	10.000	9.35	-6.5	06	50.000	49.29	-1.4
07	100.000	104.83	4.8	08	150.000	156.86	4.6	09	200.000	205.41	2.7

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.92	-7.7	03	2.000	2.05	2.4	04	5.000	5.02	0.4
05	10.000	9.43	-5.7	06	50.000	51.35	2.7	07	100.000	101.24	1.2
08	150.000	156.13	4.1	09	200.000	205.27	2.6				

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.7	02	1.000	1.01	1.1	03	2.000	1.97	-1.6
04	5.000	4.93	-1.4	05	10.000	9.78	-2.2	06	50.000	49.60	-0.8
07	100.000	103.27	3.3	08	150.000	156.75	4.5	09	200.000	199.67	-0.2

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.62	3.2	04	60.000	59.06	-1.6	05	70.000	71.05	1.5
07	100.000	100.87	0.9	08	125.000	123.16	-1.5	09	150.000	146.13	-2.6

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.7	02	1.000	1.00	0.0	03	2.000	1.98	-0.9
04	5.000	4.94	-1.3	05	10.000	9.64	-3.6	06	50.000	48.76	-2.5
07	100.000	103.17	3.2	08	150.000	159.32	6.2	09	200.000	206.97	3.5

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.1	02	1.000	1.00	0.1	03	2.000	1.95	-2.3
04	5.000	4.98	-0.4	05	10.000	9.45	-5.5	06	50.000	49.82	-0.4
07	100.000	102.36	2.4	08	150.000	153.07	2.0	09	200.000	195.77	-2.1

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.65	-35.1	03	2.000	1.60	-19.9	04	5.000	5.18	3.6
05	10.000	10.44	4.4	06	50.000	52.82	5.6	07	100.000	117.41	17.4
08	150.000	168.21	12.1	09	200.000	223.65	11.8				

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.6	02	1.000	1.07	6.5	03	2.000	1.95	-2.4
04	5.000	4.69	-6.2	05	10.000	9.82	-1.8	06	50.000	50.22	0.4
07	100.000	103.24	3.2	08	150.000	153.66	2.4	09	200.000	196.73	-1.6

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.0	02	1.000	0.93	-6.6	03	2.000	2.05	2.7
04	5.000	5.23	4.6	05	10.000	10.36	3.6	06	50.000	49.59	-0.8
07	100.000	100.53	0.5	08	150.000	152.90	1.9	09	200.000	200.12	0.1

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.9	02	1.000	0.88	-11.7	03	2.000	1.75	-12.3
04	5.000	4.49	-10.2	05	10.000	9.93	-0.7	06	50.000	53.40	6.8
07	100.000	113.72	13.7	08	150.000	176.43	17.6	09	200.000	231.35	15.7

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.86	-14.2	02	2.000	1.82	-8.8	03	4.000	3.90	-2.5
04	10.000	10.24	2.4	05	20.000	19.93	-0.4	06	100.000	102.03	2.0
07	200.000	219.33	9.7	08	300.000	327.85	9.3	09	400.000	410.17	2.5

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-18.9	02	1.000	0.89	-11.4	03	2.000	1.90	-4.9
04	5.000	4.25	-15.0	05	10.000	9.86	-1.4	06	50.000	56.18	12.4
07	100.000	111.12	11.1	08	150.000	172.49	15.0	09	200.000	226.20	13.1

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.39	-22.5	02	1.000	0.91	-9.2	03	2.000	1.87	-6.4
04	5.000	4.90	-2.0	05	10.000	9.90	-1.0	06	50.000	53.97	7.9
07	100.000	112.84	12.8	08	150.000	169.42	12.9	09	200.000	214.69	7.3

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.4	02	1.000	1.01	1.3	03	2.000	1.83	-8.5
04	5.000	4.65	-7.0	05	10.000	8.87	-11.3	06	50.000	52.39	4.8
07	100.000	107.55	7.6	08	150.000	165.39	10.3	09	200.000	208.87	4.4

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.3	02	1.000	0.95	-5.1	03	2.000	1.97	-1.3
04	5.000	5.06	1.2	05	10.000	10.05	0.5	06	50.000	52.51	5.0
07	100.000	109.97	10.0	08	150.000	155.90	3.9	09	200.000	192.20	-3.9

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.4	02	1.000	0.82	-17.8	03	2.000	1.89	-5.6
04	5.000	4.99	-0.2	05	10.000	9.93	-0.7	06	50.000	52.23	4.5
07	100.000	109.10	9.1	08	150.000	165.18	10.1	09	200.000	211.95	6.0

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.3	02	1.000	0.92	-8.1	03	2.000	2.00	-0.2
04	5.000	4.88	-2.3	05	10.000	9.61	-3.9	06	50.000	52.39	4.8
07	100.000	109.84	9.8	08	150.000	160.95	7.3	09	200.000	201.90	1.0

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-14.2	02	1.000	0.94	-5.7	03	2.000	1.85	-7.7
04	5.000	4.74	-5.2	05	10.000	10.57	5.7	06	50.000	52.37	4.7
07	100.000	104.78	4.8	08	150.000	163.18	8.8	09	200.000	217.50	8.7

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.3	02	1.000	0.94	-6.2	03	2.000	1.88	-5.9
04	5.000	4.89	-2.3	05	10.000	9.47	-5.3	06	50.000	51.49	3.0
07	100.000	109.23	9.2	08	150.000	162.38	8.3	09	200.000	209.20	4.6

Initial Calibration - Detailed Report

Calibration ID:	RC1400062	**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	0.54	7.4	02	1.000	0.96	-4.5	03	2.000	1.90	-5.2
04	5.000	5.11	2.3	05	10.000	10.22	2.2	06	50.000	49.16	-1.7
07	100.000	100.43	0.4	08	150.000	151.69	1.1	09	200.000	195.77	-2.1

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.38	-23.5	02	1.000	0.83	-17.2	03	2.000	1.69	-15.4
04	5.000	4.59	-8.3	05	10.000	9.51	-4.9	06	50.000	53.51	7.0
07	100.000	117.57	17.6	08	150.000	184.27	22.8	09	200.000	243.79	21.9

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.1	02	1.000	0.96	-4.0	03	2.000	1.95	-2.4
04	5.000	4.76	-4.8	05	10.000	9.73	-2.7	06	50.000	53.69	7.4
07	100.000	104.23	4.2	08	150.000	153.13	2.1	09	200.000	191.79	-4.1

Quantitation Report (QT Reviewed)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:13:30 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

FJ 7/22/14

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	935323	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1383304	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1262685	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	659289	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	453295	54.98	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.96%				
48) surr1,1,2-dichloroetha...	4.854	65	473241	57.92	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 115.84%				
65) SURR3,Toluene-d8	7.433	98	1591336	49.98	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.96%				
70) SURR2,BFB	9.878	95	623027	49.69	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.38%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.191	85	4622	0.53	ug/L		89
3) Chloromethane	1.294	50	6949	0.64	ug/L		99
4) Vinyl Chloride	1.361	62	6090	0.54	ug/L		89
5) Bromomethane	1.562	94	1354	0.33	ug/L	#	68
6) Chloroethane	1.617	64	3189	0.52	ug/L		95
7) Freon 21	1.721	67	8930	0.54	ug/L		95
8) Trichlorofluoromethane	1.770	101	7369	0.60	ug/L	#	73
9) Diethyl Ether	1.940	59	3976	0.57	ug/L	#	71
10) Freon 123a	1.934	67	5302m	0.50	ug/L		
11) Freon 123	1.971	83	6182	0.55	ug/L		88
12) Acrolein	2.032	56	3433	3.16	ug/L		97
13) 1,1-Diclethene	2.099	96	3497	0.56	ug/L	#	81
14) Freon 113	2.093	101	4355	0.61	ug/L		88
15) Acetone	2.129	43	2412	1.14	ug/L		76
16) 2-Propanol	2.196	45	4309m	11.80	ug/L		
18) Carbon Disulfide	2.270	76	14703	0.55	ug/L		98
19) Acetonitrile	2.324	40	657	2.32	ug/L	#	14
20) Allyl Chloride	2.355	76	1692	0.38	ug/L	#	80
21) Methyl Acetate	2.361	43	2559	0.57	ug/L		87
22) Methylene Chloride	2.440	84	4556	0.49	ug/L	#	82
23) TBA	2.507	59	3598m	6.25	ug/L		
24) Acrylonitrile	2.654	53	5466m	2.37	ug/L		
25) Methyl-t-Butyl Ether	2.660	73	8776	0.44	ug/L	#	62
26) trans-1,2-Dichloroethene	2.672	96	4512	0.57	ug/L	#	63
28) 1,1-Diclethane	3.050	63	8824	0.54	ug/L		79
30) DIPE	3.117	45	18636	0.57	ug/L		92
31) 2-Chloro-1,3-Butadiene	3.154	53	8131	0.52	ug/L	#	55
32) ETBE	3.513	59	13530	0.48	ug/L		90
33) 2,2-Dichloropropane	3.678	77	5234	0.44	ug/L		87
34) cis-1,2-Dichloroethene	3.696	96	4319	0.48	ug/L		98
36) Propionitrile	3.836	54	662m	0.89	ug/L		
37) Bromochloromethane	4.001	130	2948m	0.56	ug/L		
38) Methacrylonitrile	4.044	67	819m	0.35	ug/L		
40) Chloroform	4.092	83	8322	0.57	ug/L		96
41) 1,1,1-Trichloroethane	4.355	97	6471m	0.51	ug/L		

Quantitation Report (QT Reviewed)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:13:30 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) TAME	5.190	73	7919	0.38 ug/L #	84
44) Cyclohexane	4.434	41	6867m	0.67 ug/L	
46) Carbontetrachloride	4.617	121	1591	0.43 ug/L #	53
47) 1,1-Dichloropropene	4.629	75	5866	0.52 ug/L	83
49) Benzene	4.958	78	15519	0.43 ug/L	81
50) 1,2-Dichloroethane	5.007	62	6048	0.52 ug/L #	74
52) n-Heptane	5.470	43	6286	0.63 ug/L	79
54) Trichloroethene	5.995	130	4491	0.47 ug/L #	57
55) Methylcyclohexane	6.220	55	6183	0.49 ug/L #	72
56) 1,2-Diclpropane	6.269	63	4782	0.47 ug/L	82
57) Dibromomethane	6.409	93	2480	0.53 ug/L #	58
59) Methyl Methacrylate	6.507	69	1075m	0.26 ug/L	
60) Bromodichloromethane	6.629	83	4821	0.43 ug/L	90
61) 2-Nitropropane	6.927	41	1949m	1.22 ug/L	
62) 2-Chloroethylvinyl Ether	7.043	63	1121	0.24 ug/L #	47
63) cis-1,3-Dichloropropene	7.165	75	4624	0.34 ug/L	88
64) 4-Methyl-2-pentanone	7.366	43	2917m	0.43 ug/L	
66) Toluene	7.506	91	17235	0.45 ug/L	95
67) trans-1,3-Dichloropropene	7.762	75	3448	0.31 ug/L	88
68) Ethyl Methacrylate	7.903	69	3216m	0.37 ug/L	
69) 1,1,2-Trichloroethane	7.939	97	2958	0.44 ug/L	94
72) Tetrachloroethene	8.061	164	3814	0.49 ug/L #	91
74) 1,3-Dichloropropane	8.098	76	5577	0.48 ug/L	93
75) Dibromochloromethane	8.311	129	3343	0.40 ug/L	96
76) N-Butyl Acetate	8.384	43	4816m	0.37 ug/L	
77) 1,2-Dibromoethane	8.415	107	3077	0.45 ug/L #	71
78) 3-Chlorobenzotrifluoride	8.884	180	6286	0.43 ug/L #	95
79) Chlorobenzene	8.866	112	11571	0.44 ug/L	97
80) 4-Chlorobenzotrifluoride	8.933	180	5735	0.43 ug/L	83
81) 1,1,1,2-Tetrachloroethane	8.951	131	3924	0.41 ug/L #	38
82) Ethylbenzene	8.988	106	5578	0.41 ug/L #	66
83) (m+p)Xylene	9.098	106	12832	0.78 ug/L	92
84) o-Xylene	9.445	106	6916	0.41 ug/L #	71
85) Styrene	9.463	104	9430	0.33 ug/L	96
86) Bromoform	9.610	173	2062	0.41 ug/L	77
87) 2-Chlorobenzotrifluoride	9.677	180	6536	0.45 ug/L	96
88) Isopropylbenzene	9.756	105	15953	0.39 ug/L	98
89) Cyclohexanone	9.835	55	8732	8.85 ug/L	95
90) trans-1,4-Dichloro-2-B...	10.073	53	627m	0.29 ug/L	
92) 1,1,2,2-Tetrachloroethane	10.018	83	3457	0.46 ug/L	84
93) Bromobenzene	10.006	156	4929	0.45 ug/L	97
94) 1,2,3-Trichloropropane	10.042	110	1192	0.59 ug/L #	23
95) n-Propylbenzene	10.110	91	18455	0.41 ug/L	90
96) 2-Chlorotoluene	10.177	91	11743	0.43 ug/L	97
97) 3-Chlorotoluene	10.231	91	12965	0.47 ug/L	89
98) 4-Chlorotoluene	10.274	91	14614	0.44 ug/L	94
99) 1,3,5-Trimethylbenzene	10.256	105	13830	0.42 ug/L	84
100) tert-Butylbenzene	10.518	119	11873	0.44 ug/L	93
101) 1,2,4-Trimethylbenzene	10.567	105	13651	0.41 ug/L	93
102) 3,4-Dichlorobenzotrifl...	10.622	214	4097	0.42 ug/L	83
103) sec-Butylbenzene	10.701	105	16112	0.43 ug/L	94
104) p-Isopropyltoluene	10.817	119	13188	0.40 ug/L	96

Quantitation Report (QT Reviewed)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:13:30 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

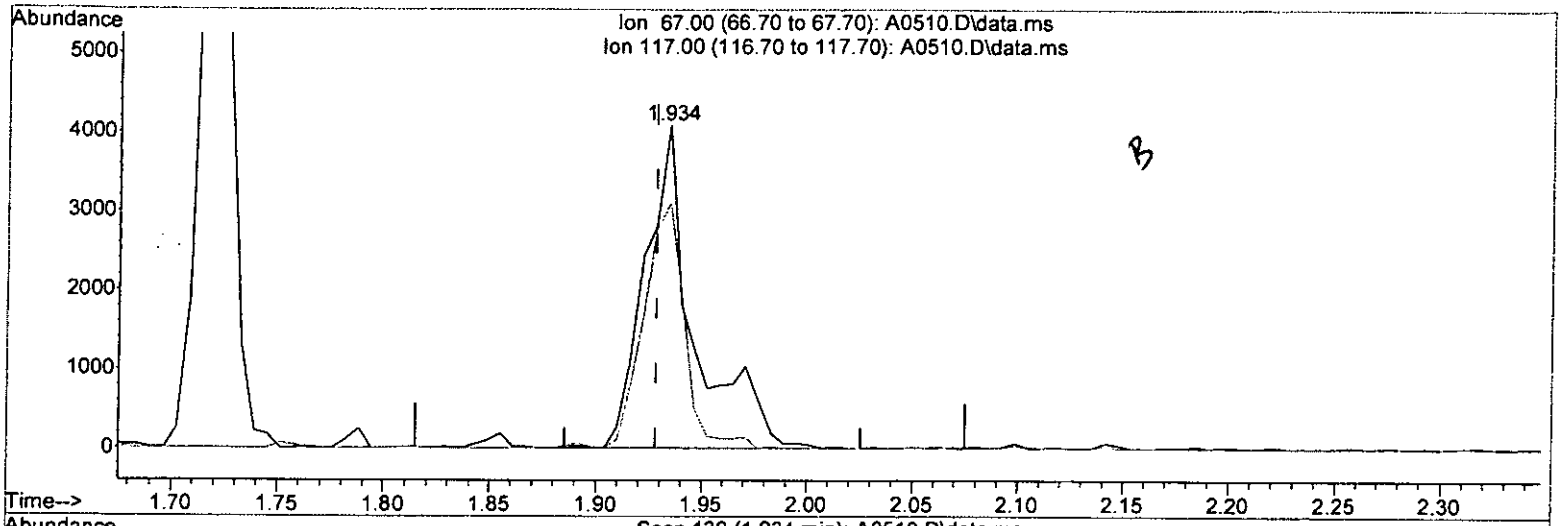
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
105) 1,3-Dclbenz	10.792	146	8970	0.44 ug/L	95
106) 1,4-Dclbenz	10.853	146	9880	0.48 ug/L #	71
107) 2,4-Dichlorobenzotrifl...	10.914	214	3819	0.43 ug/L	97
108) 2,5-Dichlorobenzotrifl...	10.951	214	5531m	0.55 ug/L	
109) n-Butylbenzene	11.158	91	10018	0.35 ug/L	88
110) 1,2-Dclbenz	11.170	146	8805	0.47 ug/L	81
111) 1,2-Dibromo-3-chloropr...	11.719	157	433	0.37 ug/L #	46
112) Trielution Dichlorotol...	11.823	125	18789	1.25 ug/L	93
113) 1,3,5-Trichlorobenzene	11.859	180	6863	0.54 ug/L	89
114) Coelution Dichlorotoluene	12.085	125	12894	0.84 ug/L	93
115) 1,2,4-Tcbenzene	12.255	180	4727	0.46 ug/L	89
116) Hexachlorobt	12.335	225	2115	0.43 ug/L	96
117) Naphthalen	12.420	128	4940m	0.31 ug/L	
118) 1,2,3-Tclbenzene	12.542	180	3254	0.46 ug/L	94
119) 2,4,5-Trichlorotoluene	12.969	159	1842	0.48 ug/L	83
120) 2,3,6-Trichlorotoluene	13.024	159	1913	0.50 ug/L	97

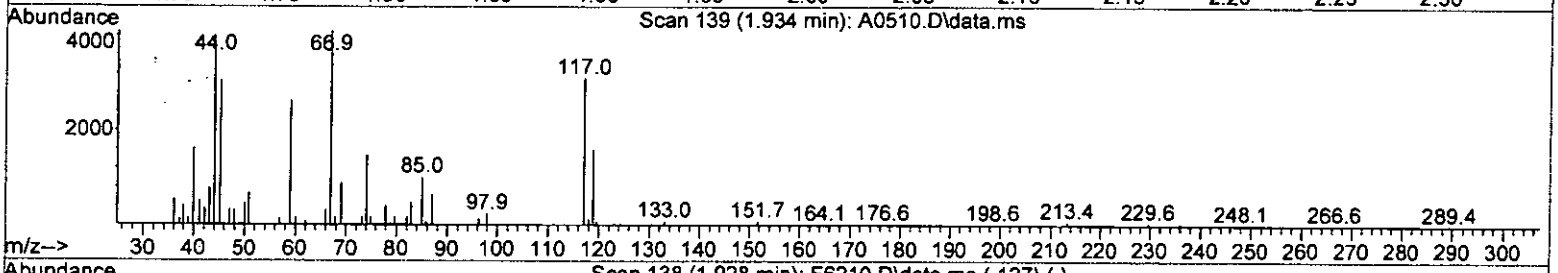
(#) = qualifier out of range (m) = manual integration (+) = signals summed

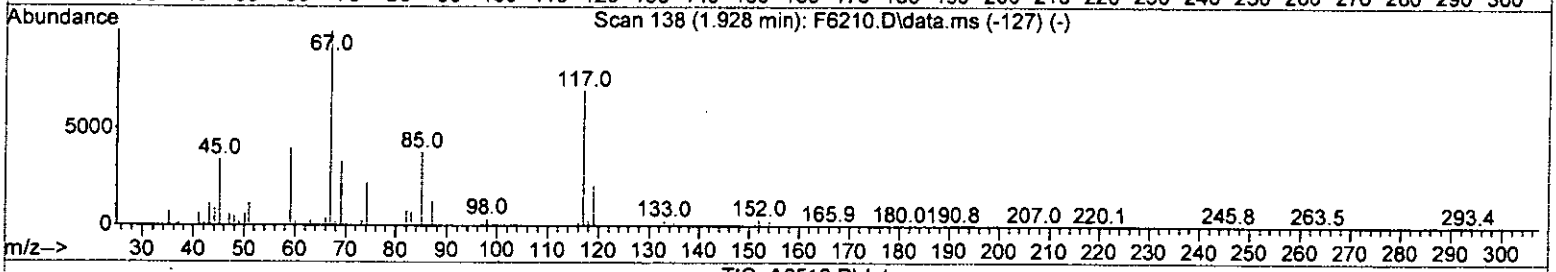
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(10) Freon 123a

1.934min (+0.006) 0.62 ug/L

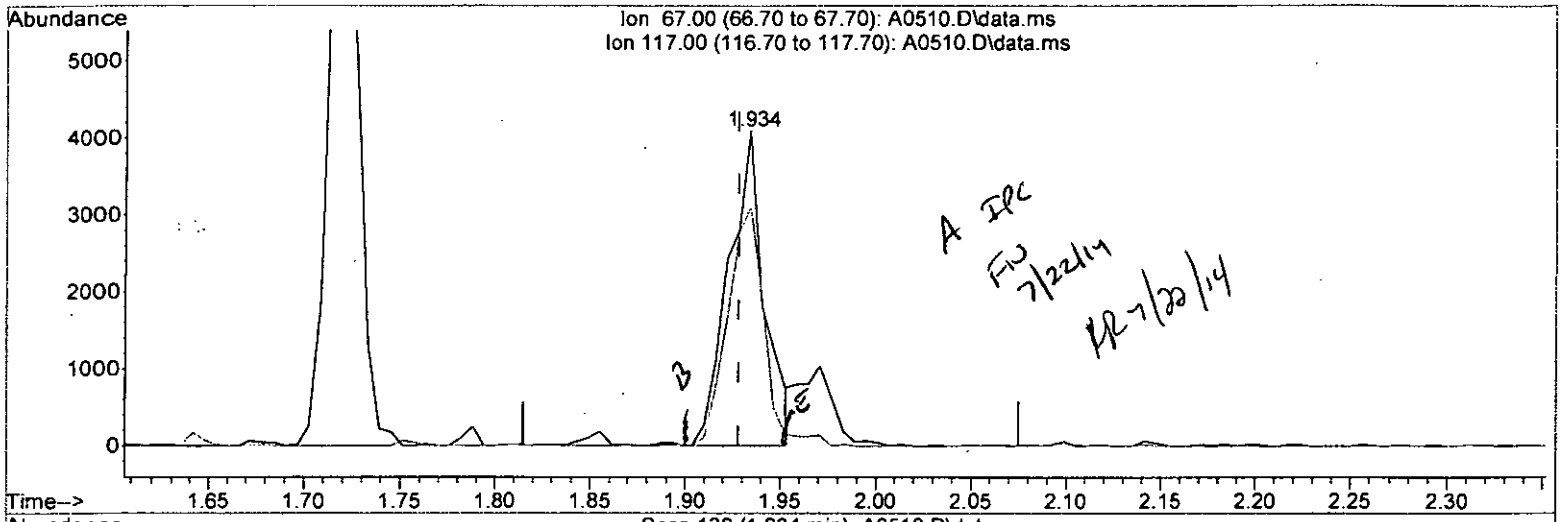
response 6624

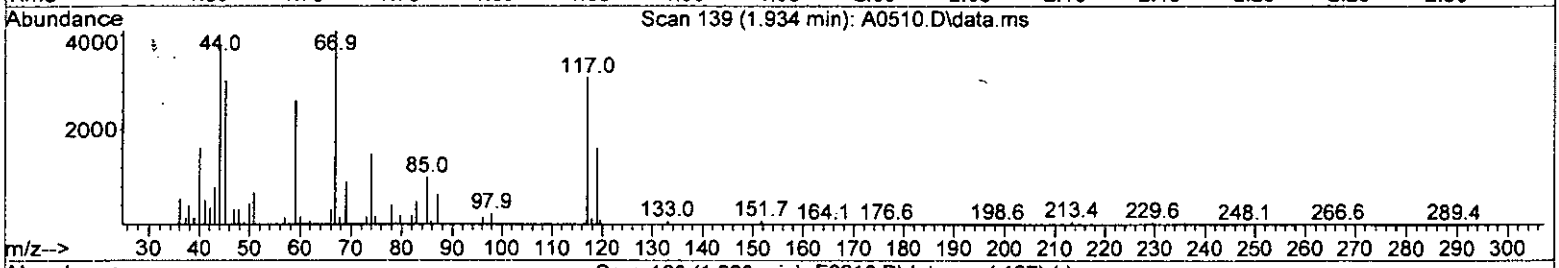
Ion	Exp%	Act%
67.00	100	100
117.00	73.00	75.75
0.00	0.00	0.00
0.00	0.00	0.00

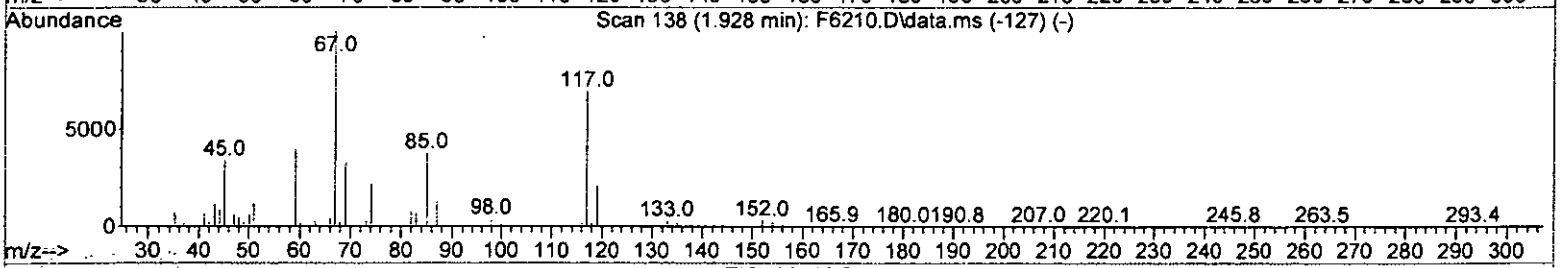
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(10) Freon 123a

1.934min (+0.006) 0.50 ug/L m

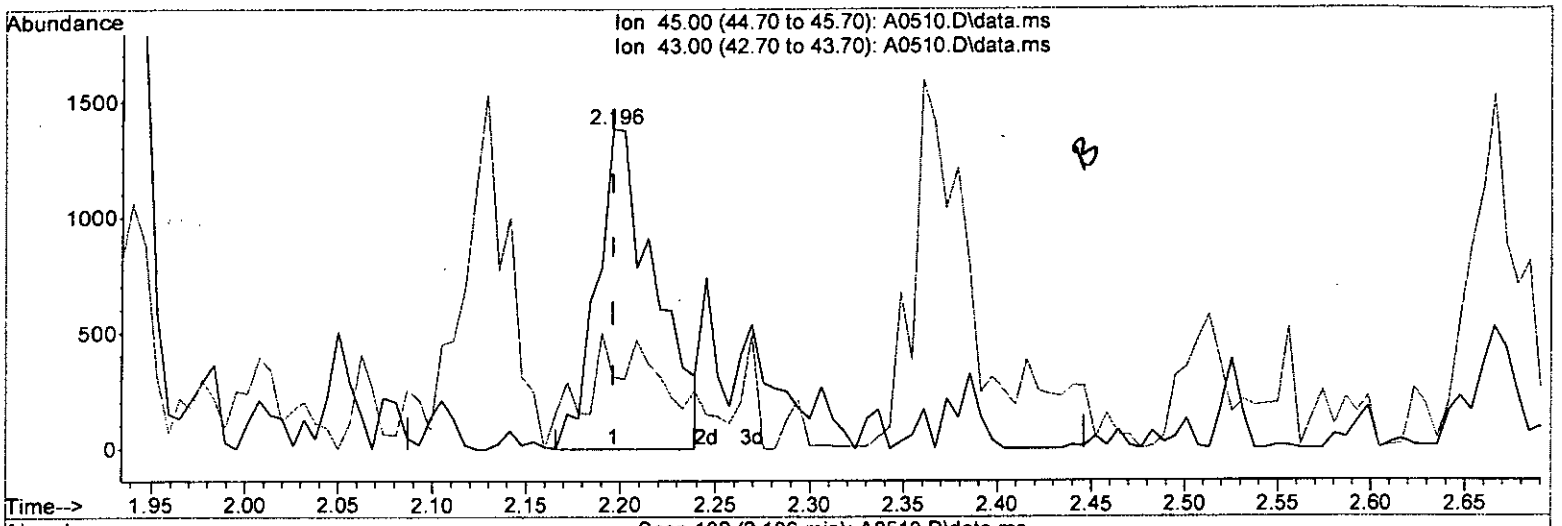
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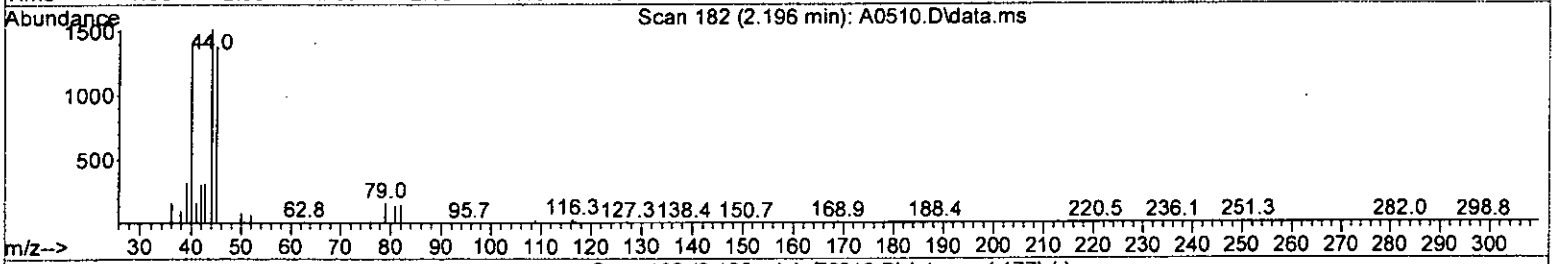
Ion	Exp%	Act%
67.00	100	100
117.00	73.00	75.75
0.00	0.00	0.00
0.00	0.00	0.00

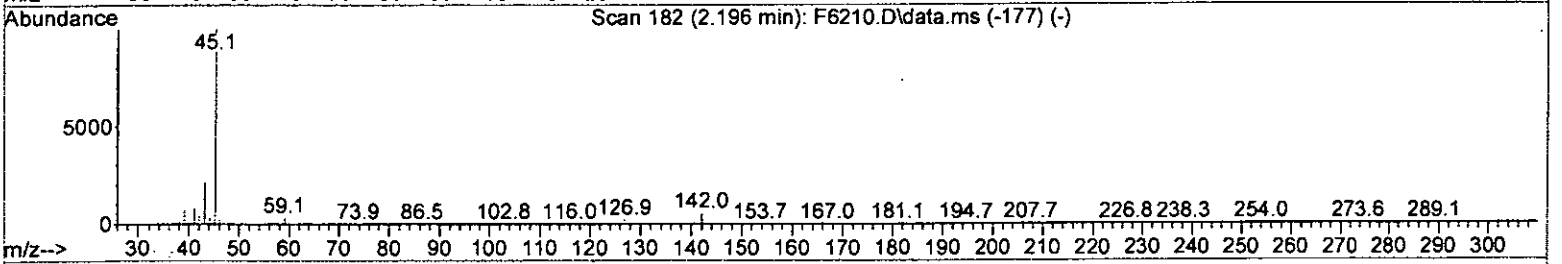
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(16) 2-Propanol

2.196min (+0.000) 8.04 ug/L

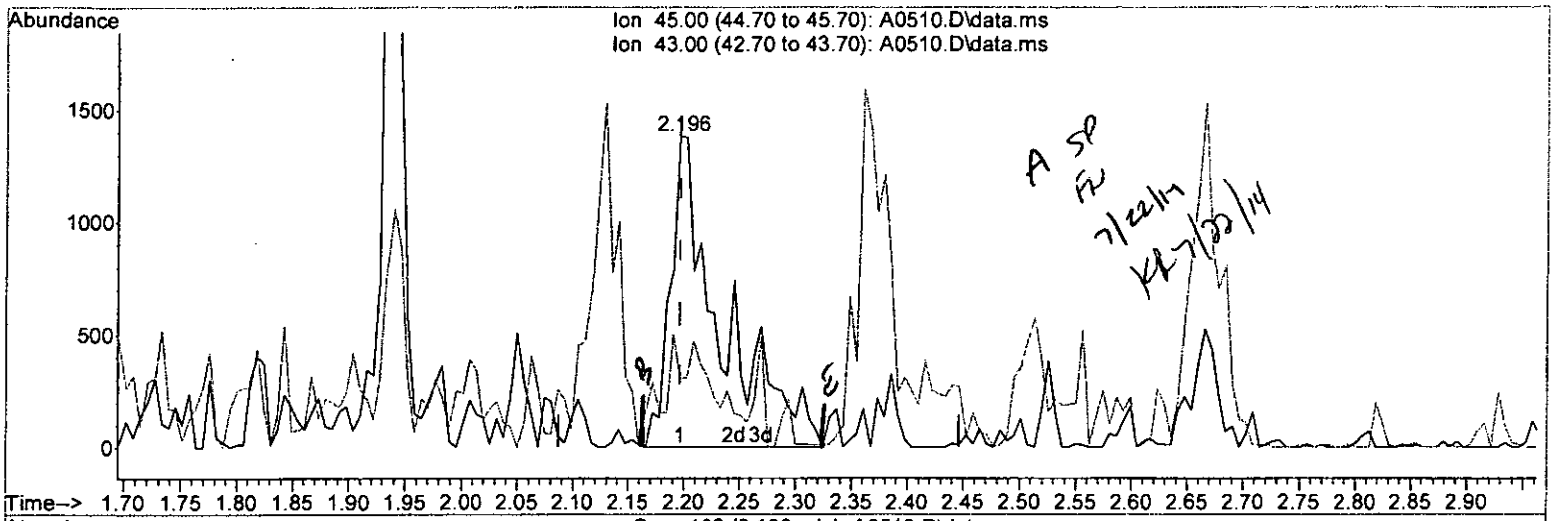
response 2937

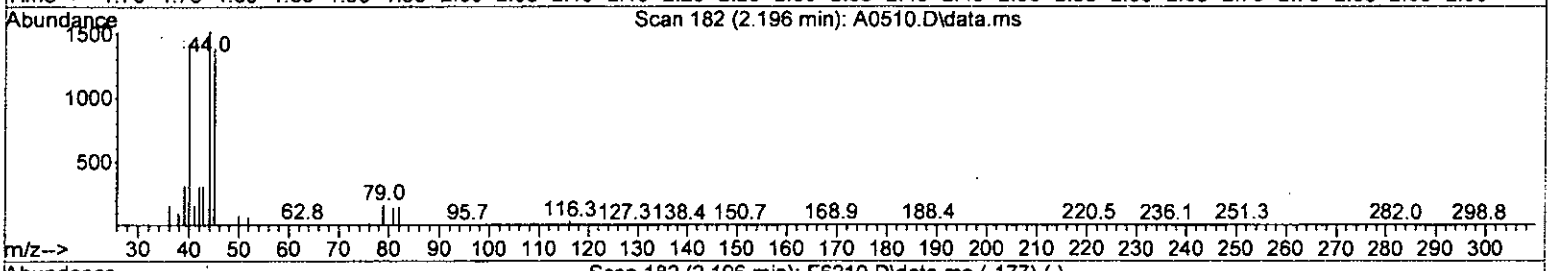
Ion	Exp%	Act%
45.00	100	100
43.00	22.80	22.54
0.00	0.00	0.00
0.00	0.00	0.00

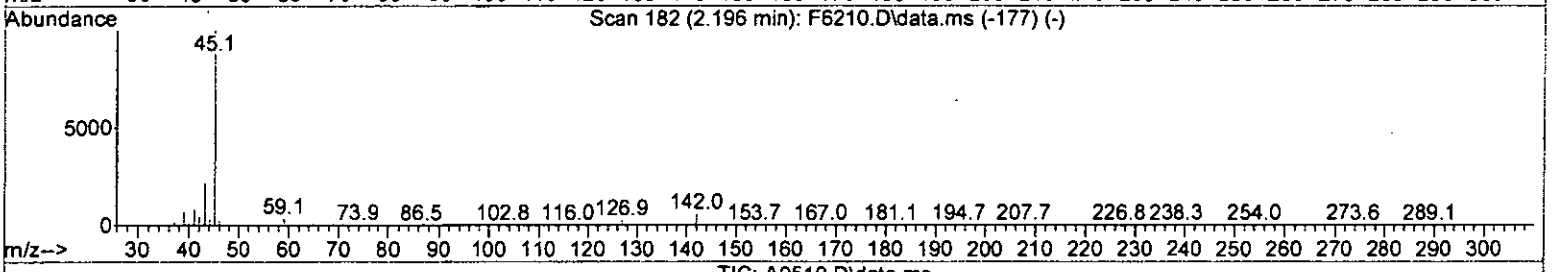
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(16) 2-Propanol

2.196min (+0.000) 11.80 ug/L m

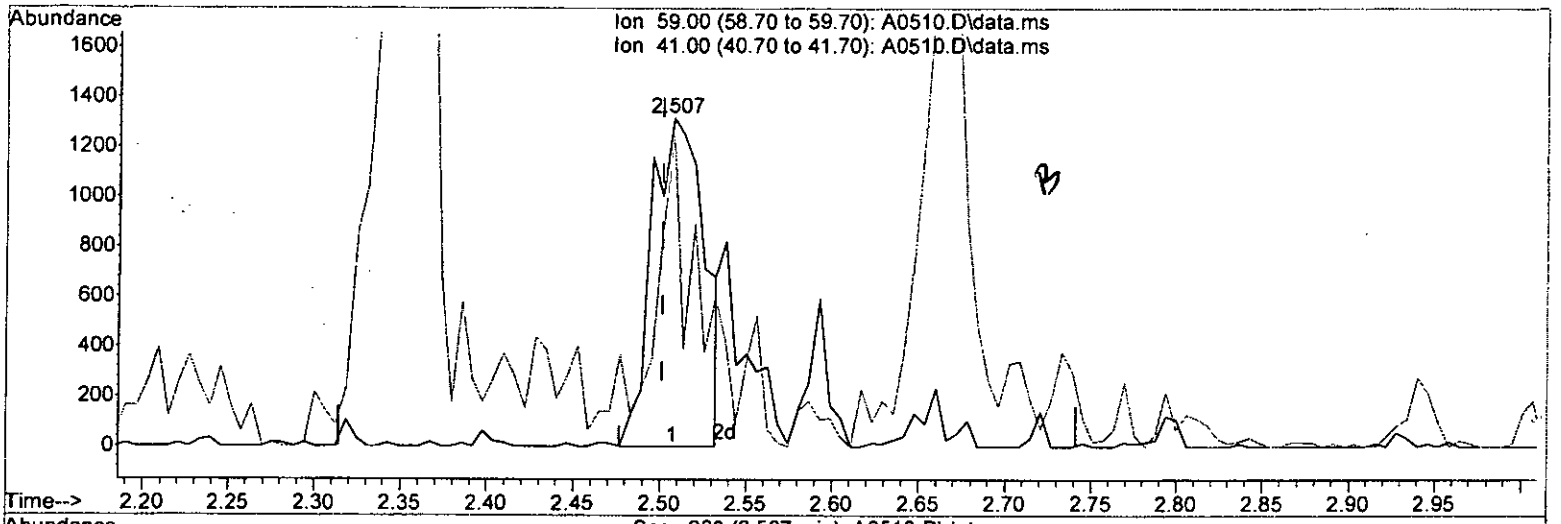
response 4309

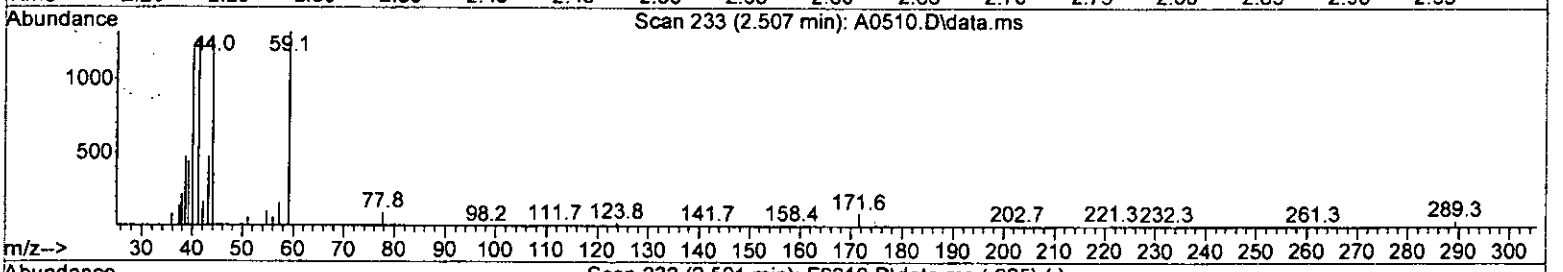
Ion	Exp%	Act%
45.00	100	100
43.00	22.80	22.54
0.00	0.00	0.00
0.00	0.00	0.00

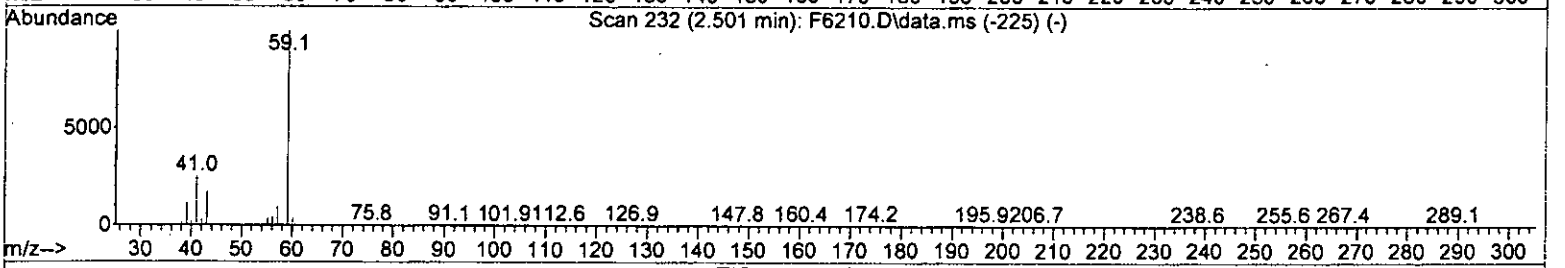
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(23) TBA

2.507min (+0.006) 4.83 ug/L

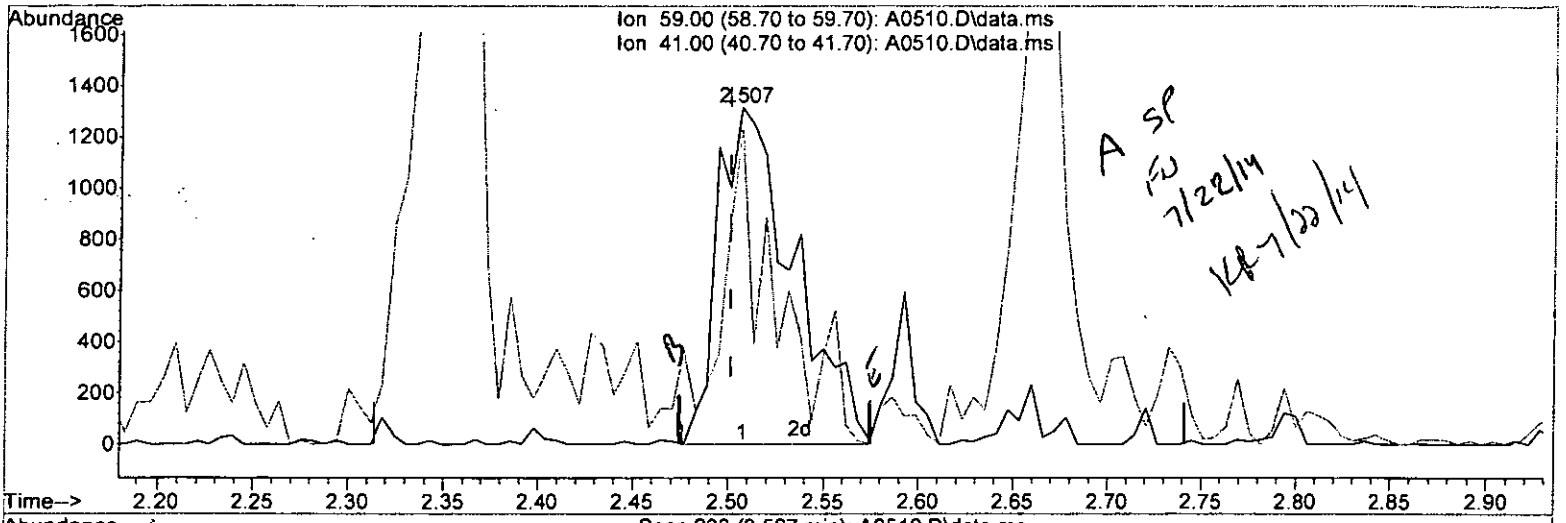
response 2780

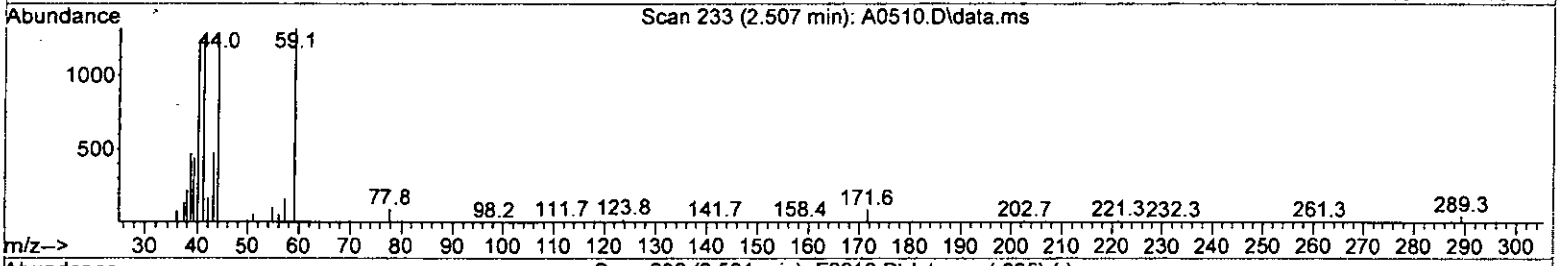
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	94.68#
0.00	0.00	0.00
0.00	0.00	0.00

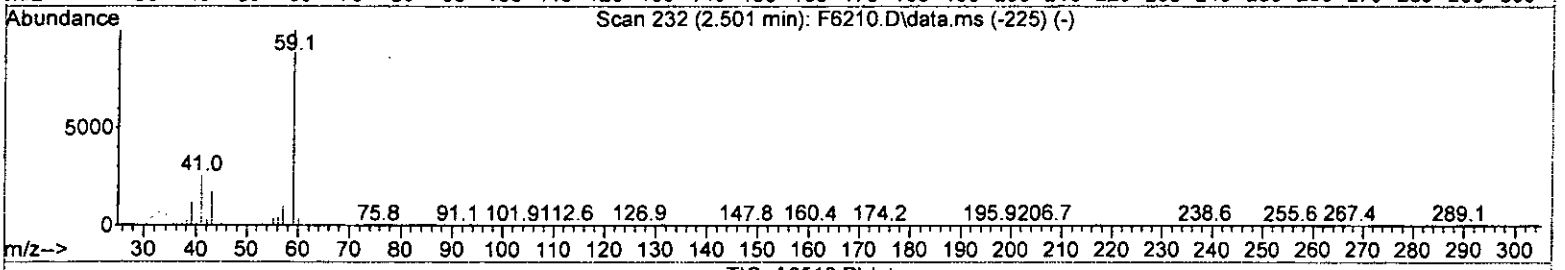
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(23) TBA

2.507min (+0.006) 6.25 ug/L m

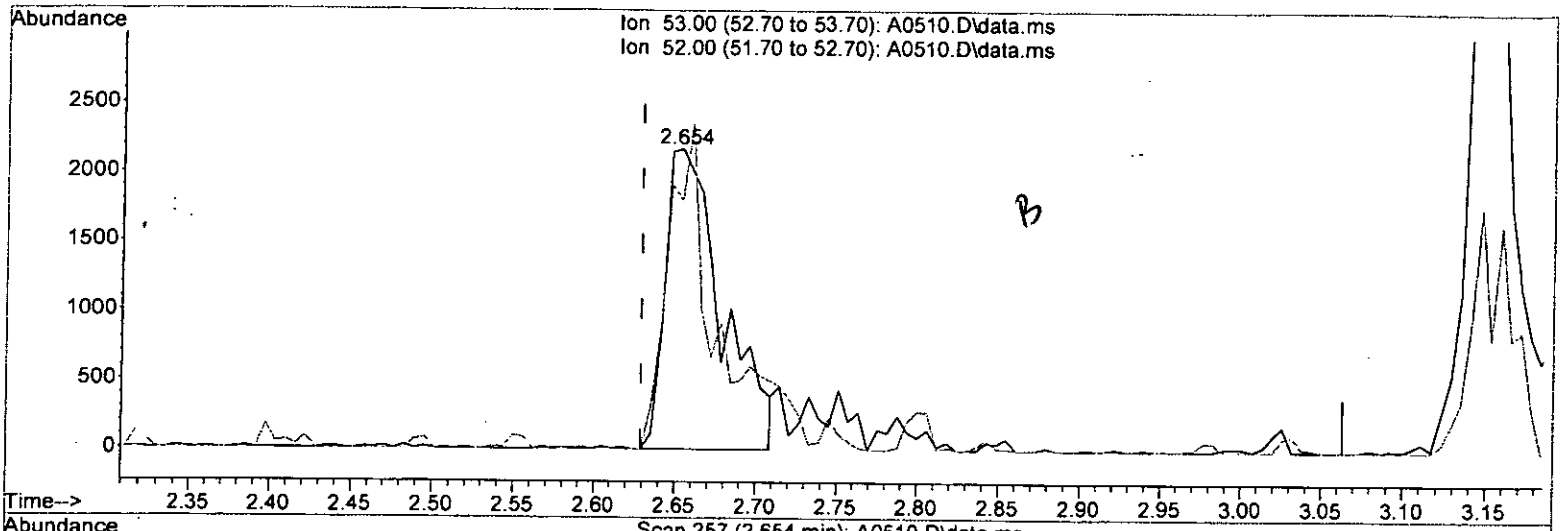
response 3598

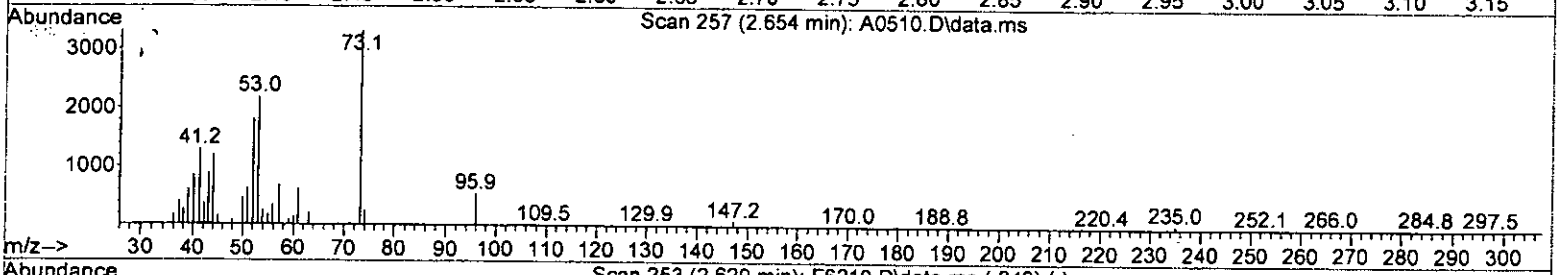
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	94.68#
0.00	0.00	0.00
0.00	0.00	0.00

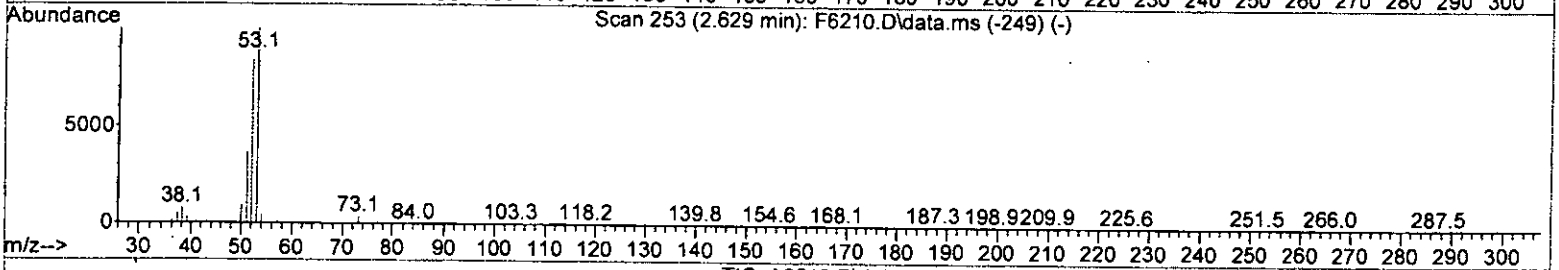
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(24) Acrylonitrile

2.654min (+0.024) 2.28 ug/L

response 5261

Ion	Exp%	Act%
53.00	100	100
52.00	85.70	82.93
0.00	0.00	0.00
0.00	0.00	0.00

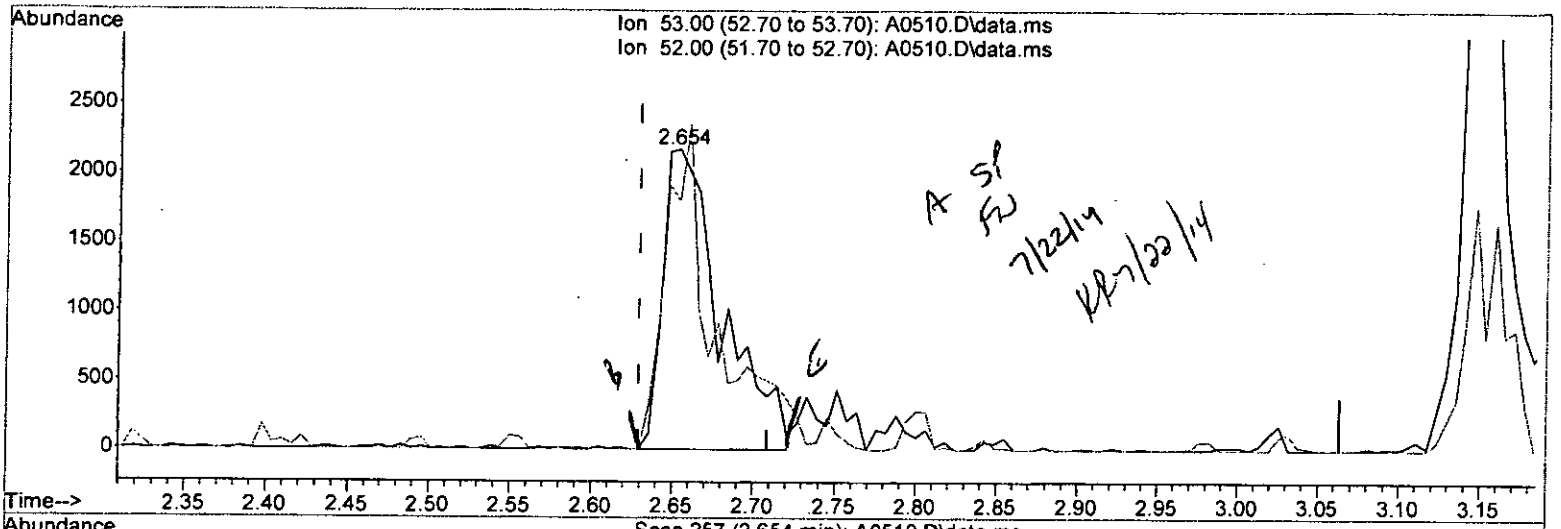
W072114.M Mon Jul 21 12:18:59 2014 MSVO10

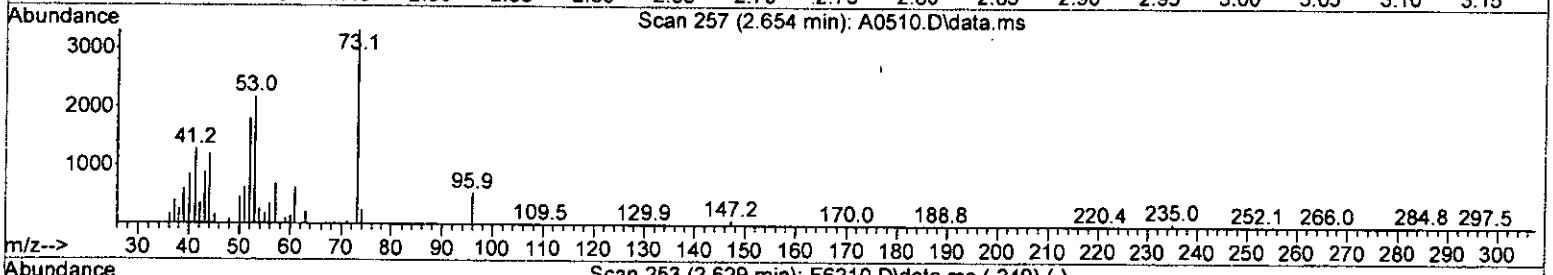
00381

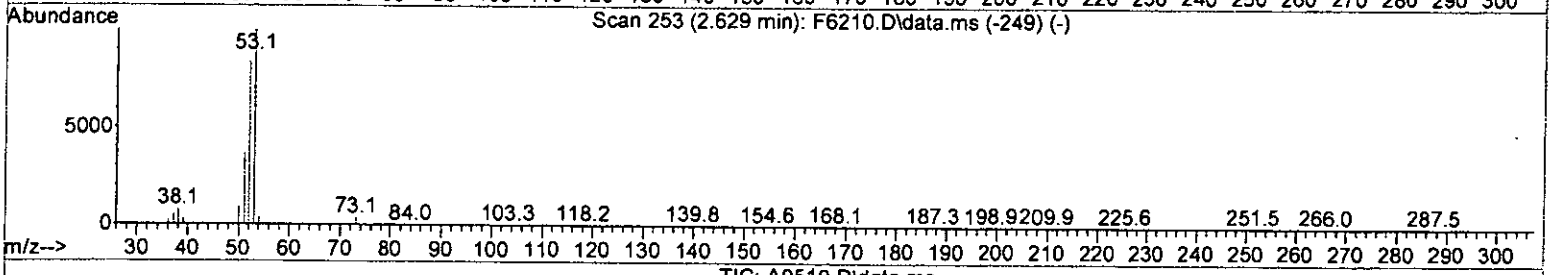
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(24) Acrylonitrile

2.654min (+0.024) 2.37 ug/L m

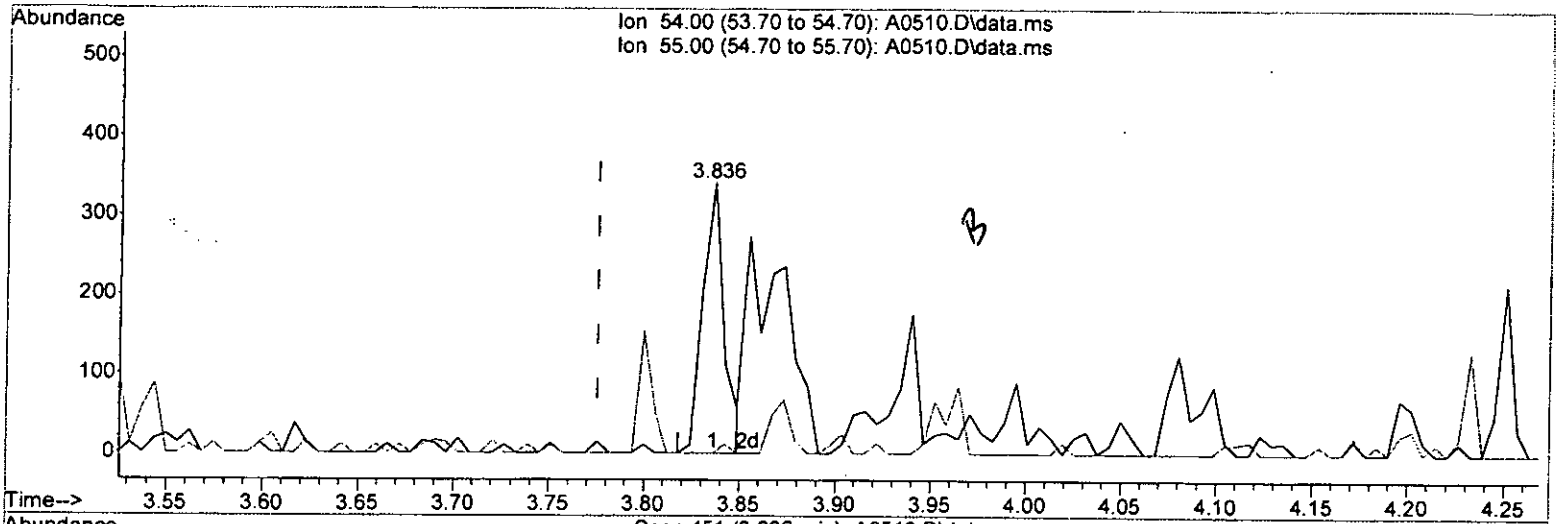
response 5466

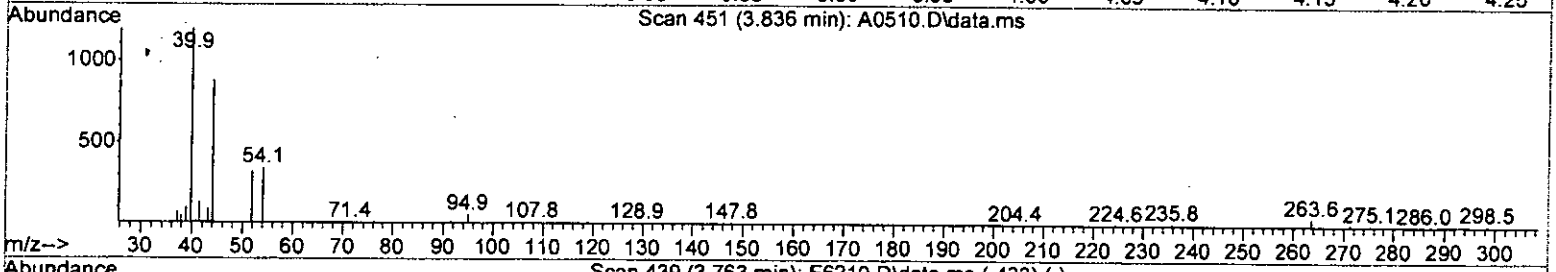
Ion	Exp%	Act%
53.00	100	100
52.00	85.70	82.93
0.00	0.00	0.00
0.00	0.00	0.00

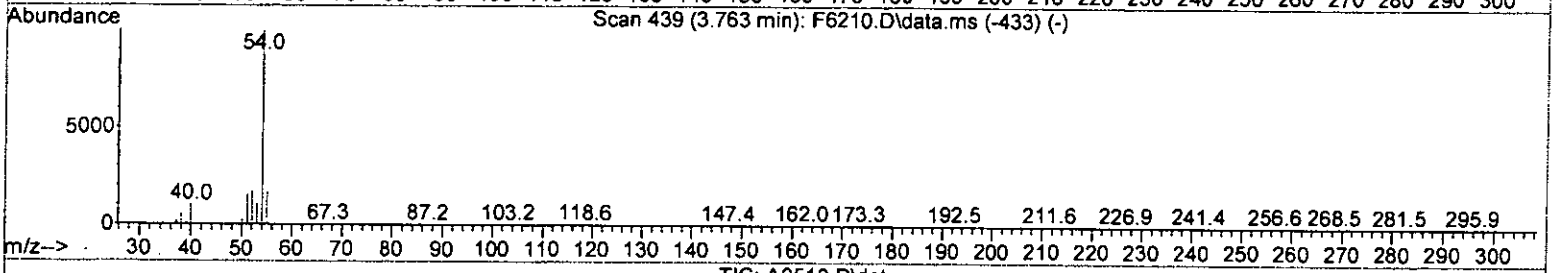
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(36) Propionitrile

3.836min (+0.061) 0.36 ug/L

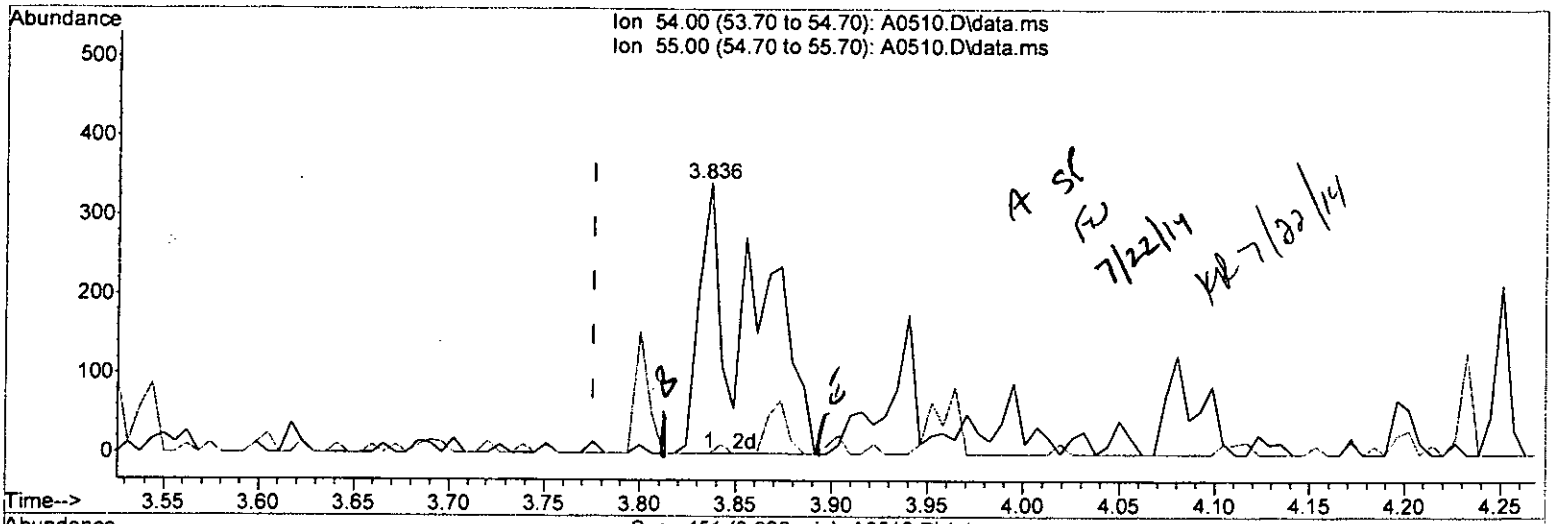
response 266

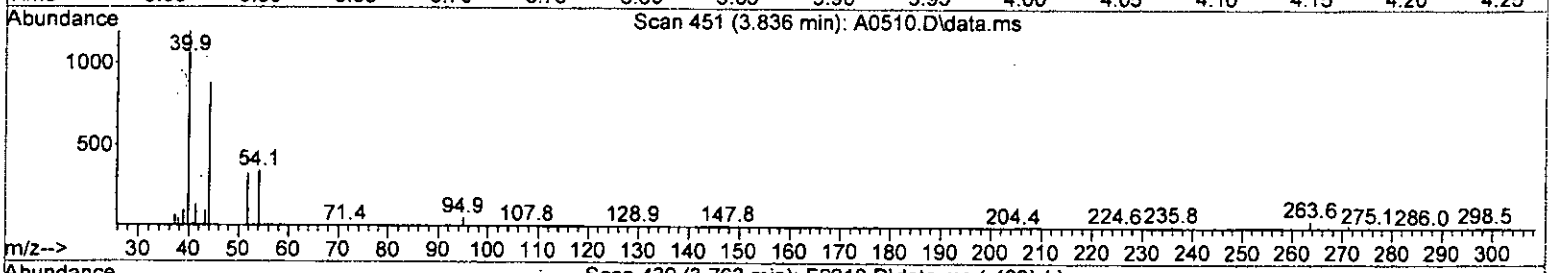
Ion	Exp%	Act%
54.00	100	100
55.00	13.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

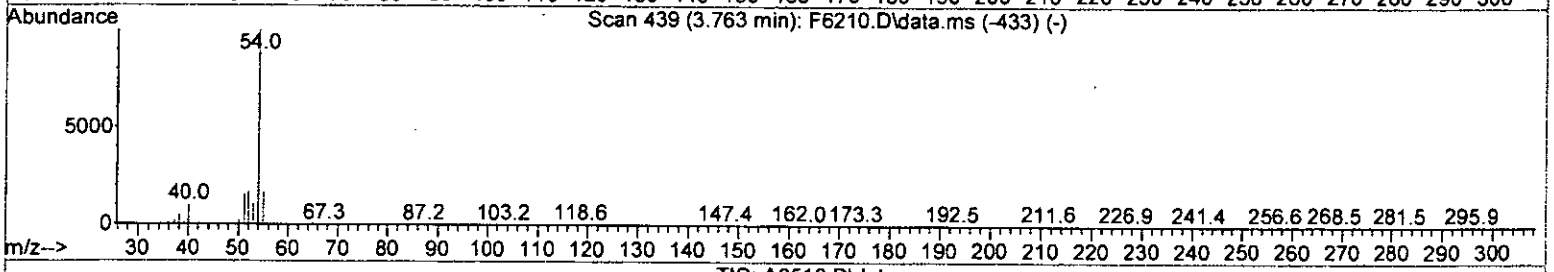
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(36) Propionitrile

3.836min (+0.061) 0.89 ug/L m

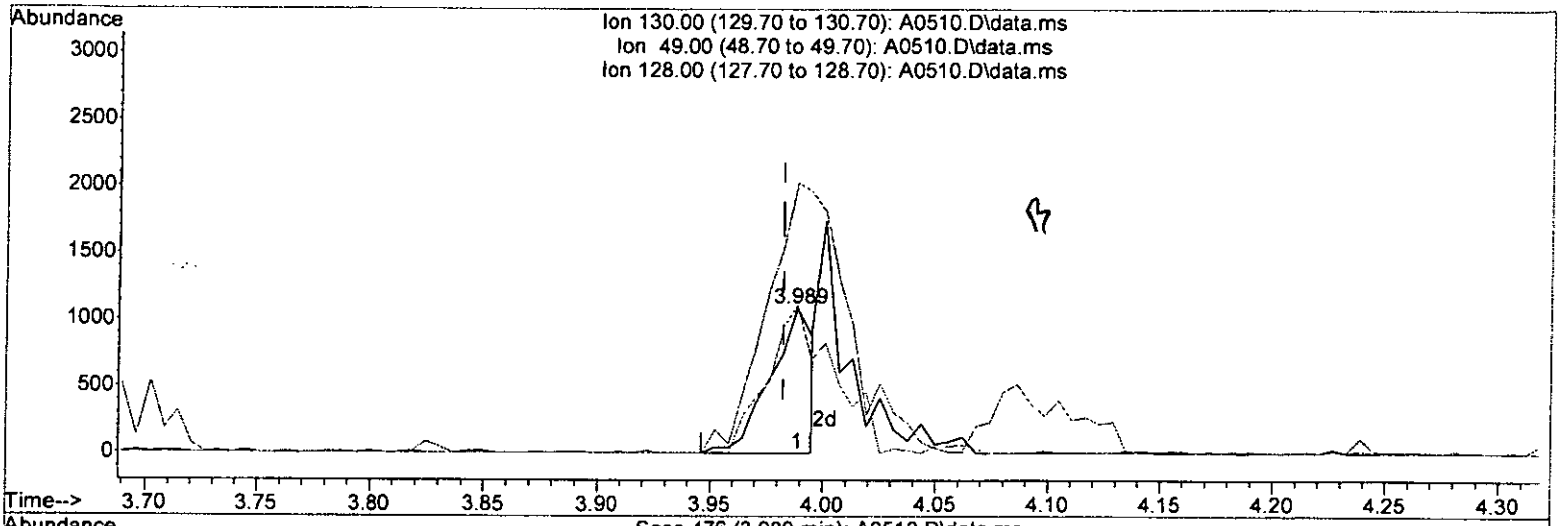
response 662

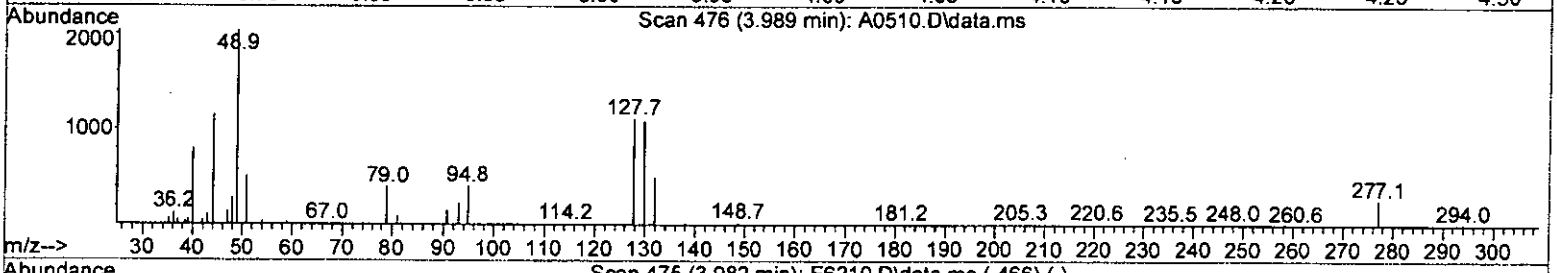
Ion	Exp%	Act%
54.00	100	100
55.00	13.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

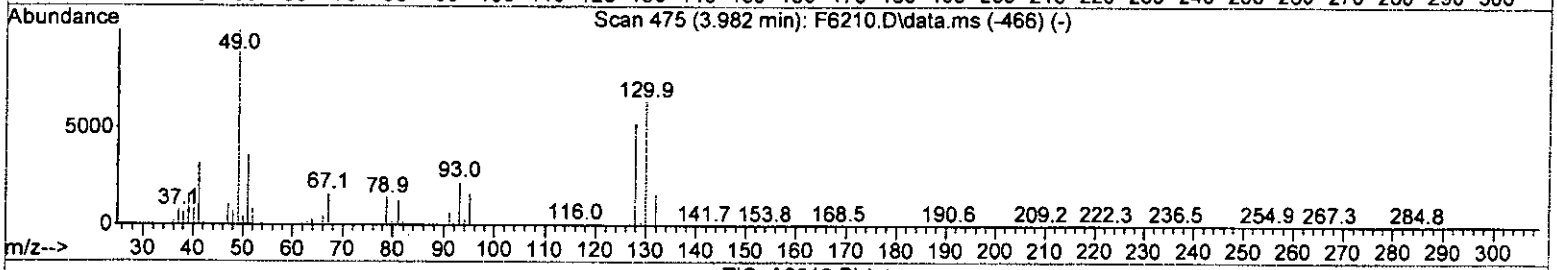
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(37) Bromochloromethane

3.989min (+0.006) 0.27 ug/L

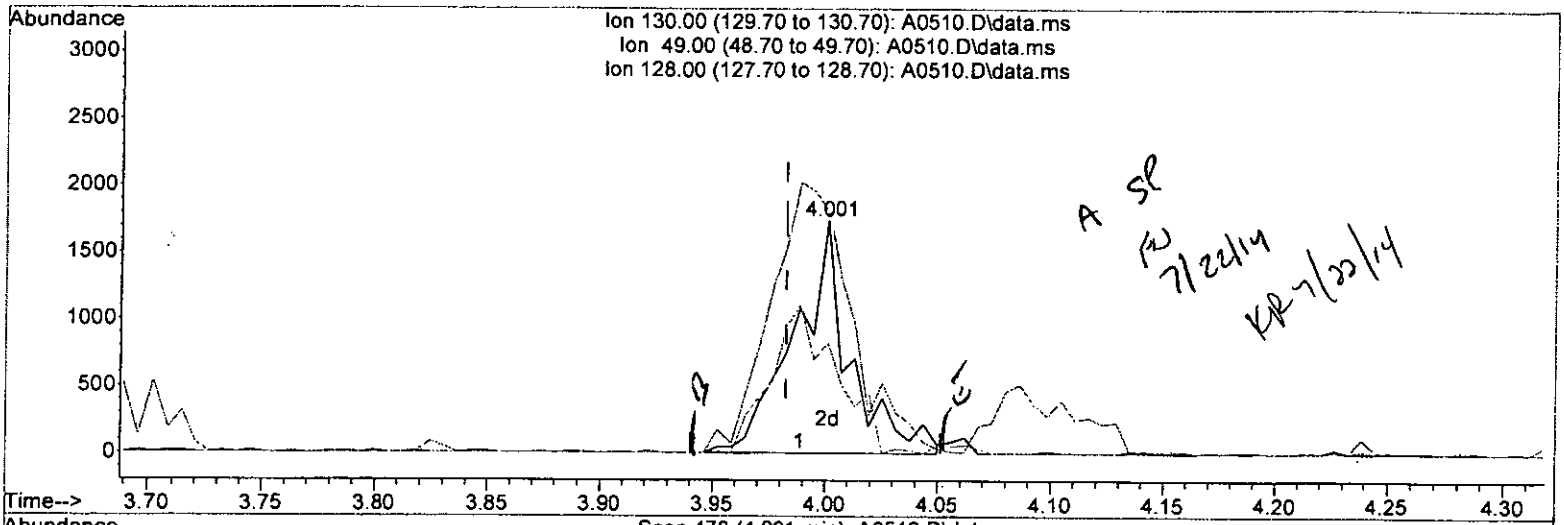
response 1409

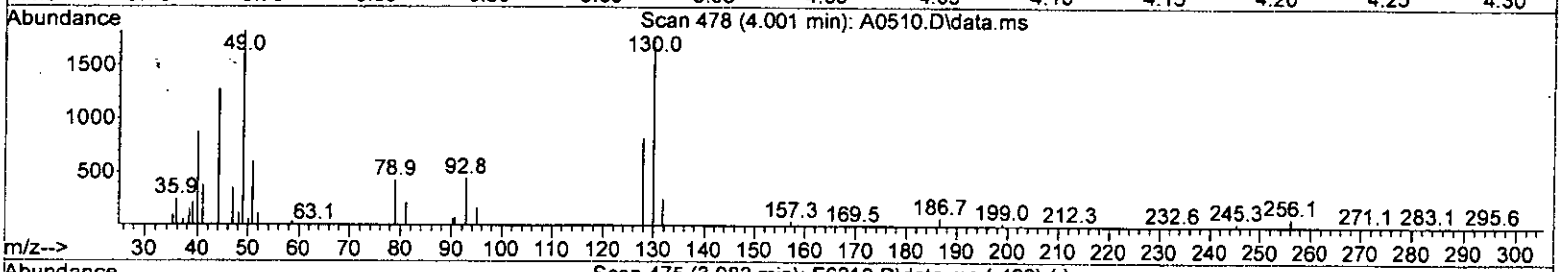
Ion	Exp%	Act%
130.00	100	100
49.00	135.10	186.56#
128.00	77.50	102.21#
0.00	0.00	0.00

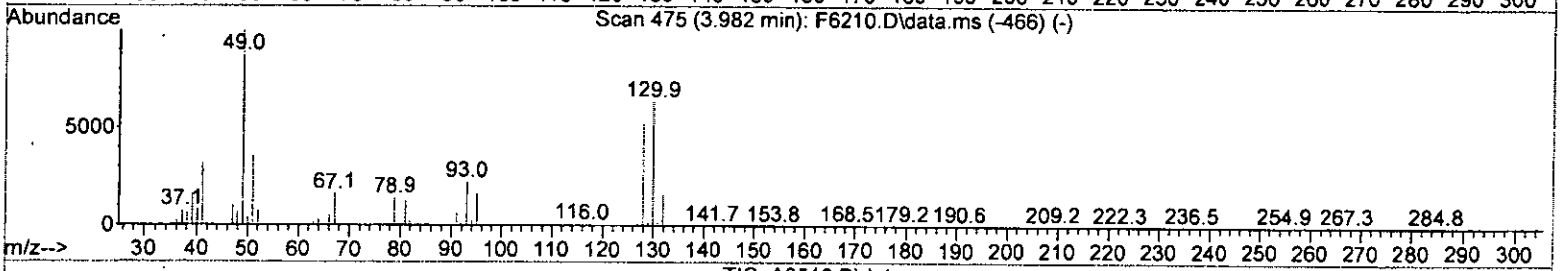
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(37) Bromochloromethane

4.001min (+0.018) 0.56 ug/L m

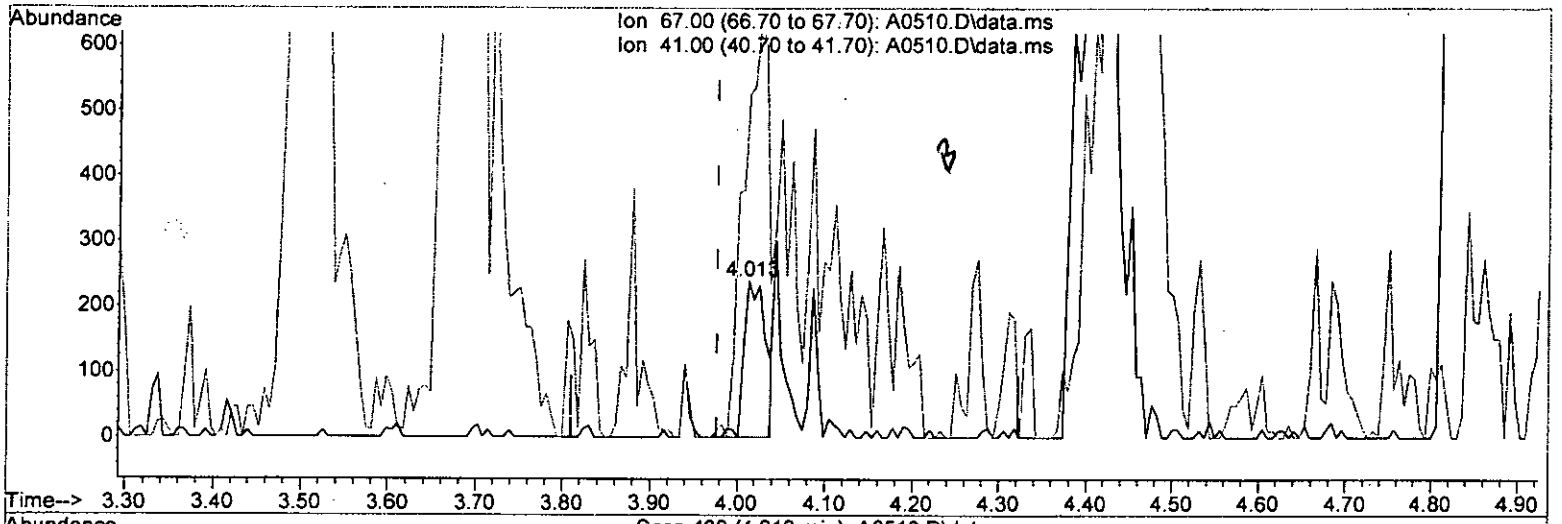
response 2948

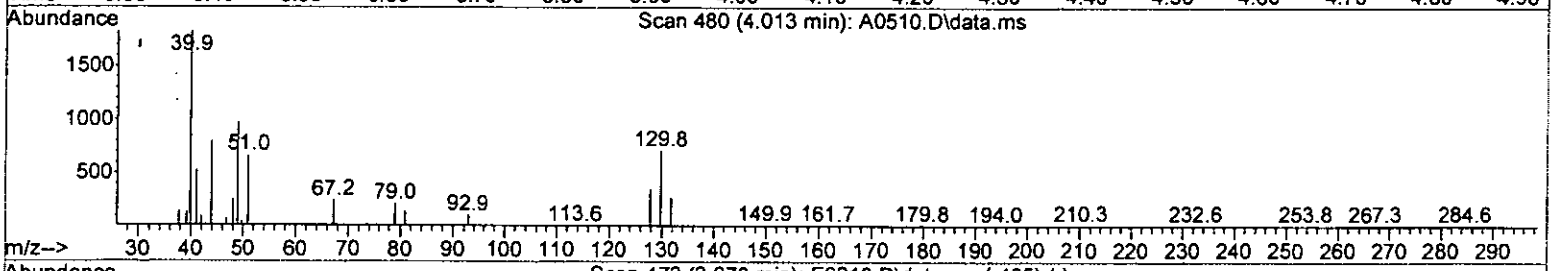
Ion	Exp%	Act%
130.00	100	100
49.00	135.10	104.32#
128.00	77.50	47.53#
0.00	0.00	0.00

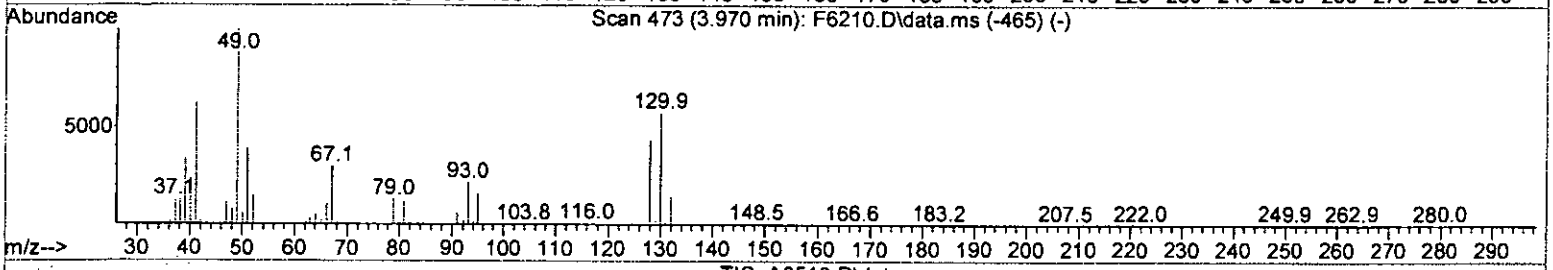
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(38) Methacrylonitrile

4.013min (+0.037) 0.17 ug/L

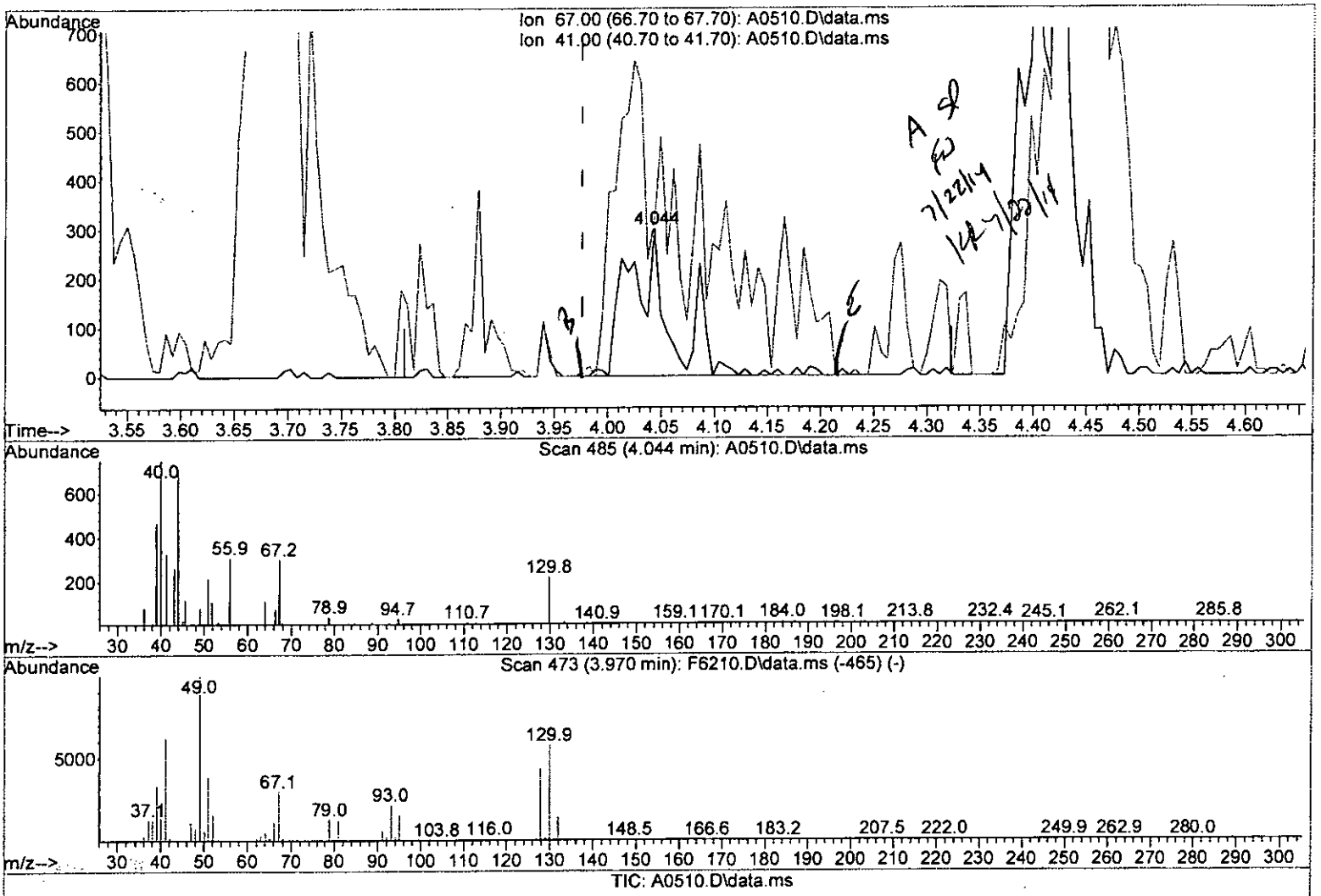
response 408

Ion	Exp%	Act%
67.00	100	100
41.00	149.10	219.25#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:24:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0510.D\data.ms

(38) Methacrylonitrile

4.044min (+0.067) 0.35 ug/L m

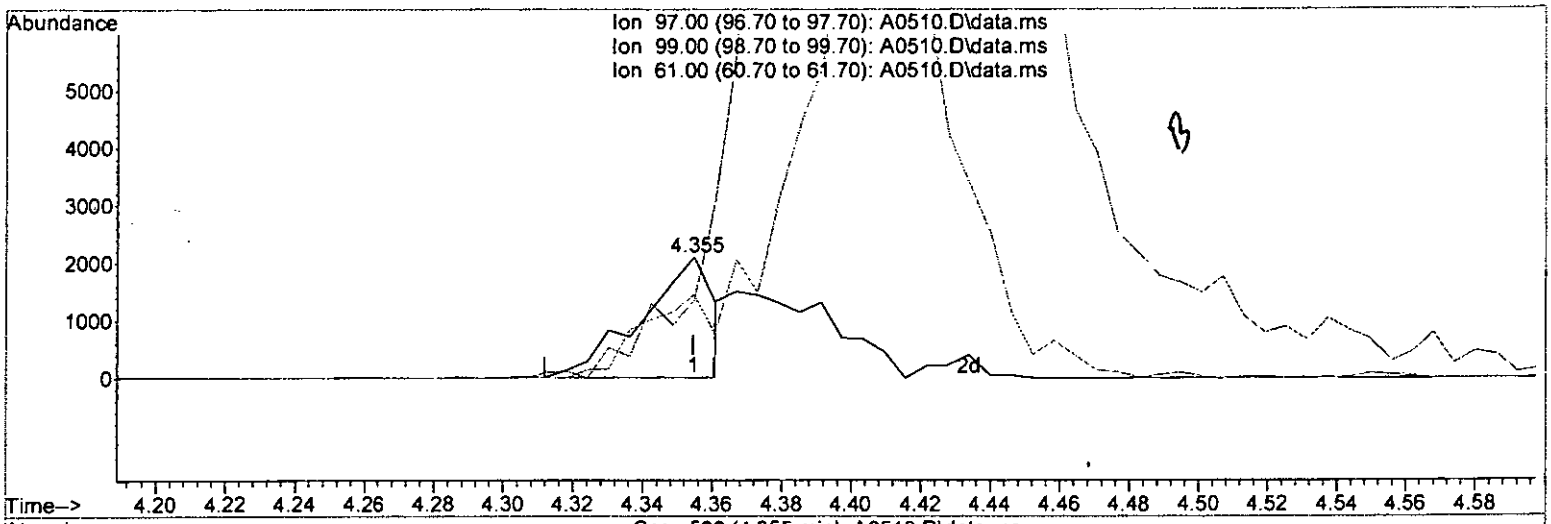
response 819

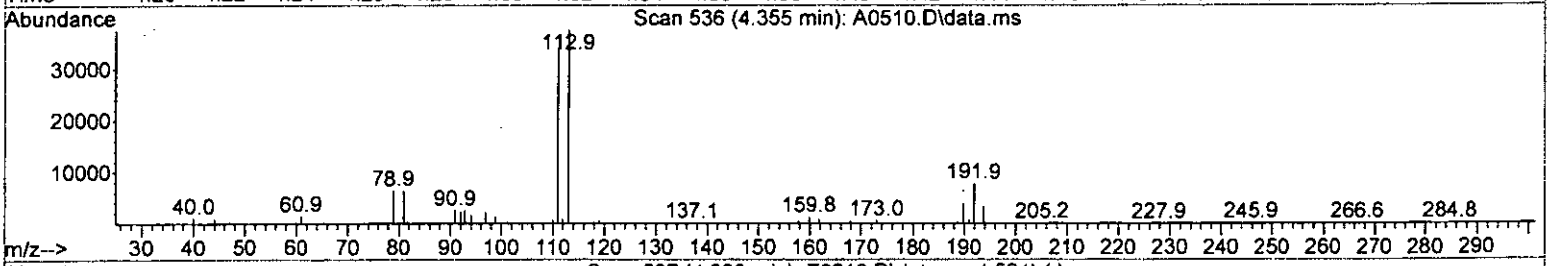
Ion	Exp%	Act%
67.00	100	100
41.00	149.10	108.33#
0.00	0.00	0.00
0.00	0.00	0.00

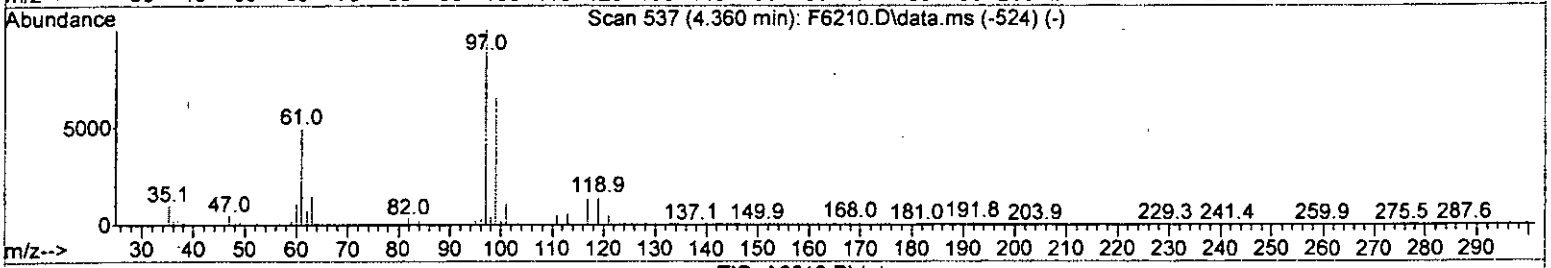
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(41) 1,1,1-Trichloroethane (P)

4.355min (+0.000) 0.23 ug/L

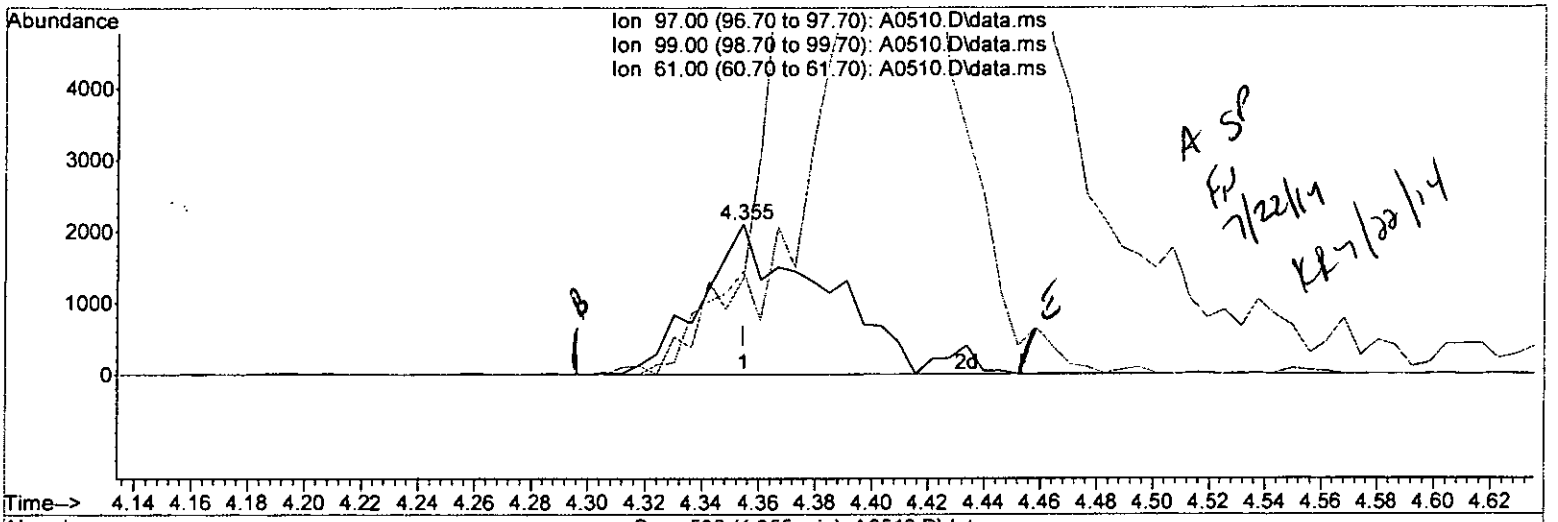
response 2980

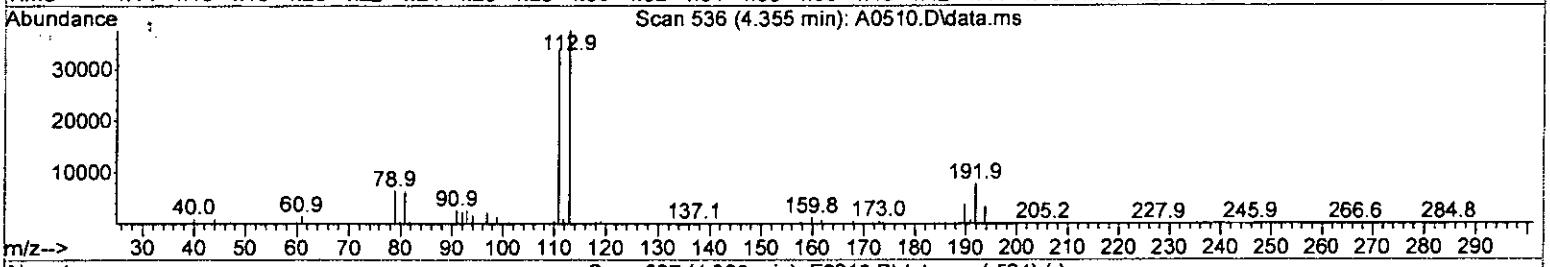
Ion	Exp%	Act%
97.00	100	100
99.00	67.60	63.67
61.00	47.60	68.67#
0.00	0.00	0.00

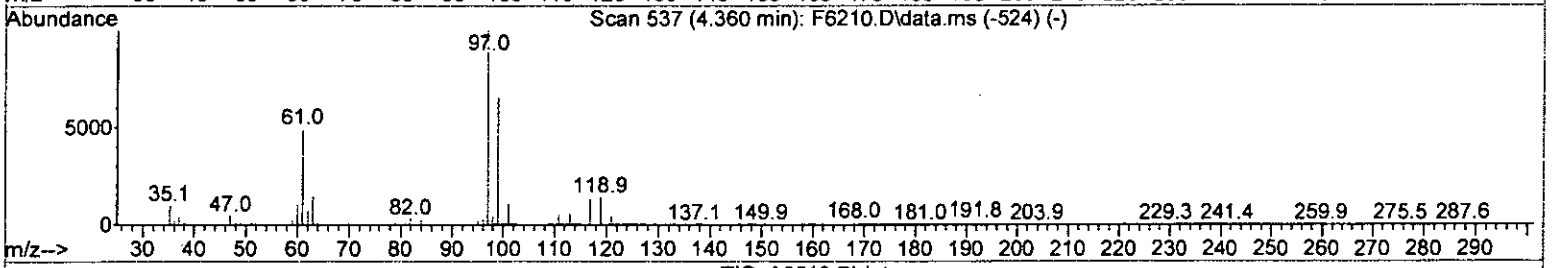
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(41) 1,1,1-Trichloroethane (P)

4.355min (+0.000) 0.51 ug/L m

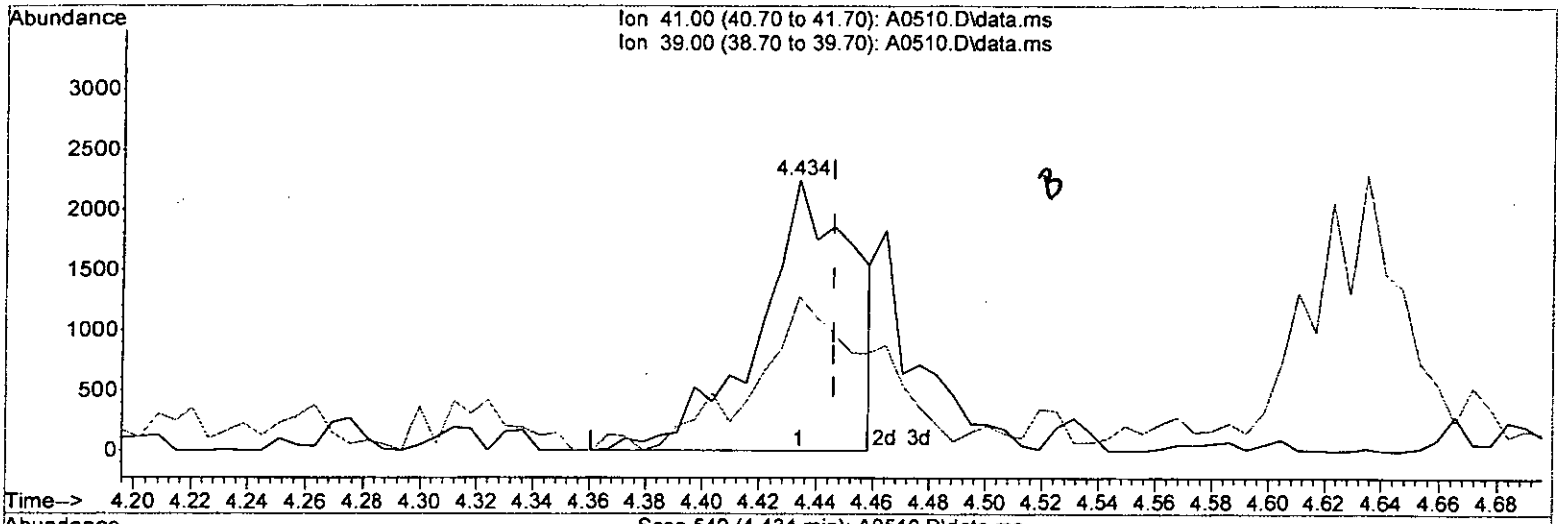
response 6471

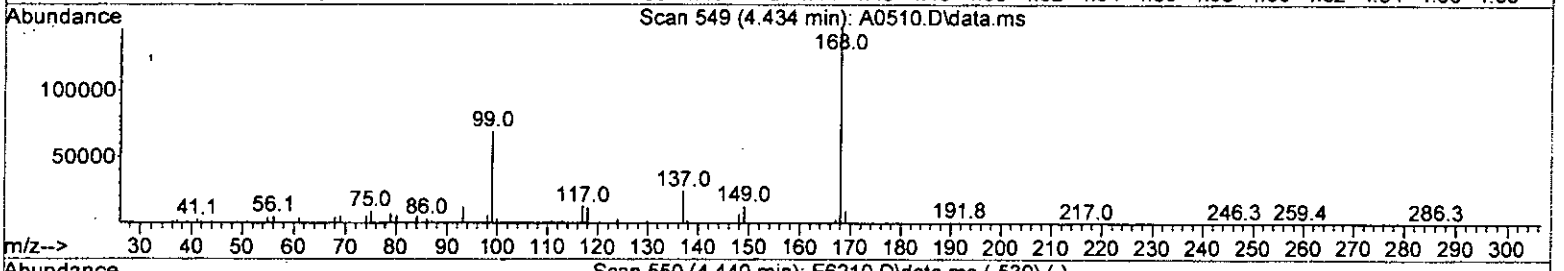
Ion	Exp%	Act%
97.00	100	100
99.00	67.60	63.67
61.00	47.60	68.67#
0.00	0.00	0.00

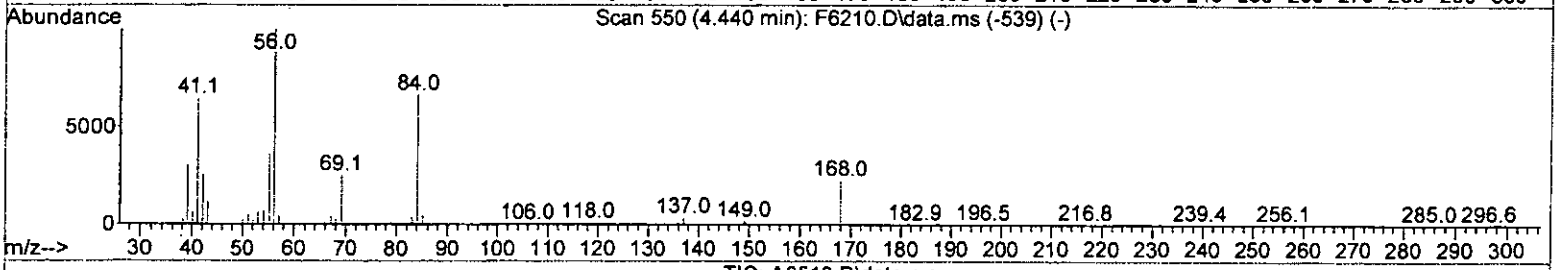
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(44) Cyclohexane (P)

4.434min (-0.012) 0.51 ug/L

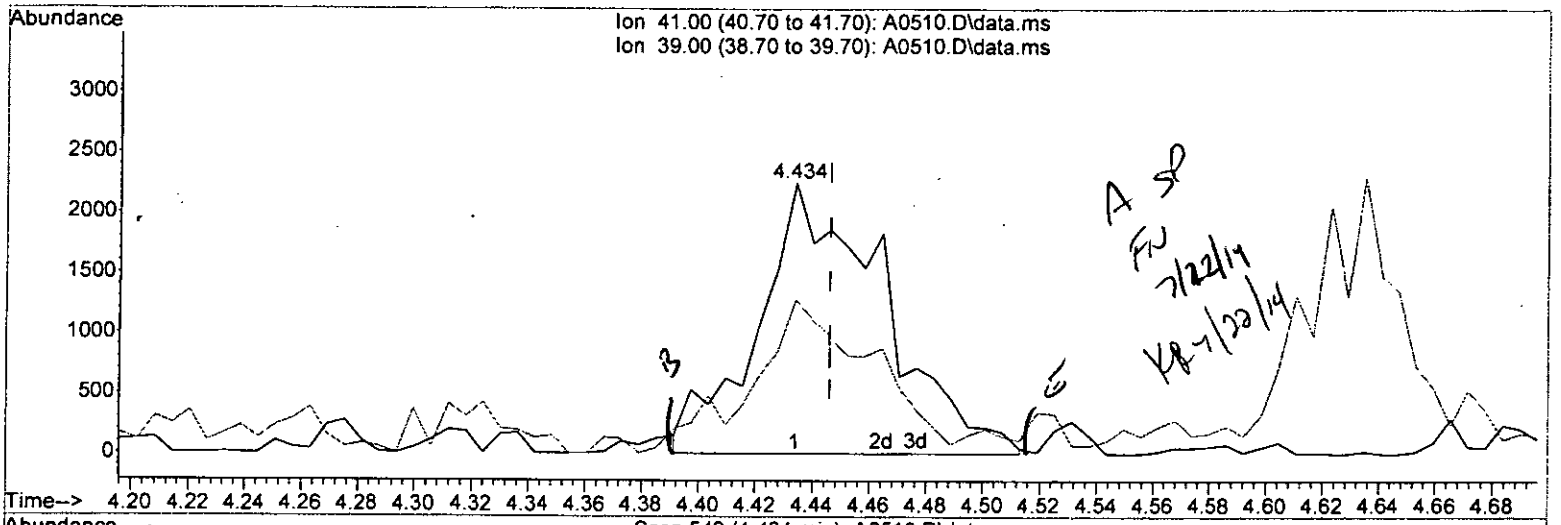
response 5231

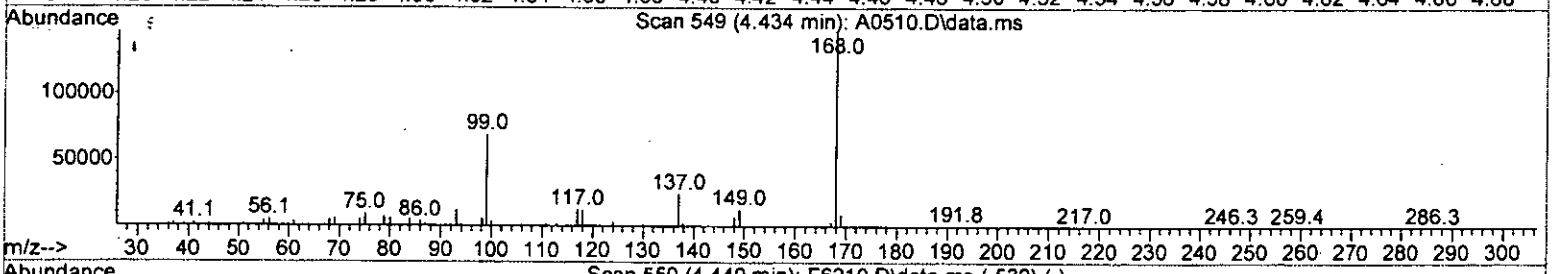
Ion	Exp%	Act%
41.00	100	100
39.00	51.30	56.81
0.00	0.00	0.00
0.00	0.00	0.00

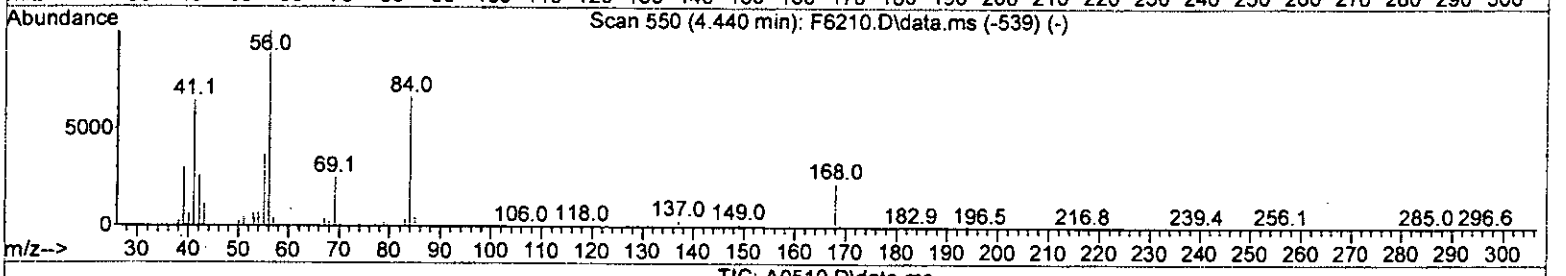
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(44) Cyclohexane (P)

4.434min (-0.012) 0.67 ug/L m

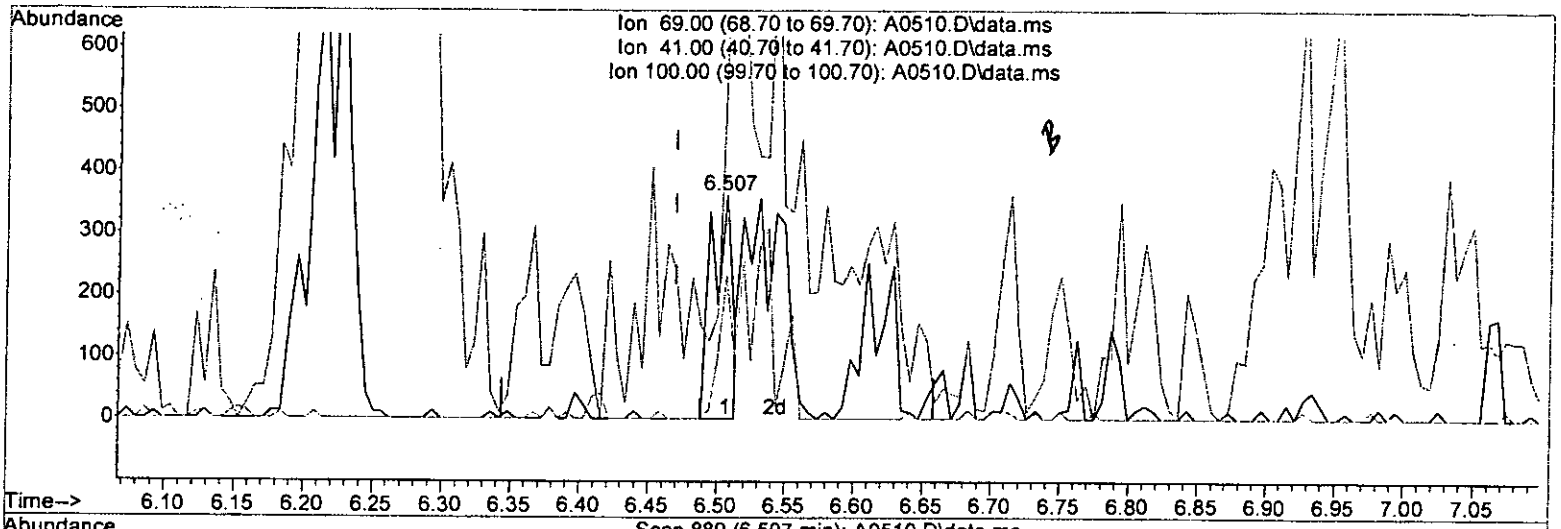
response 6867

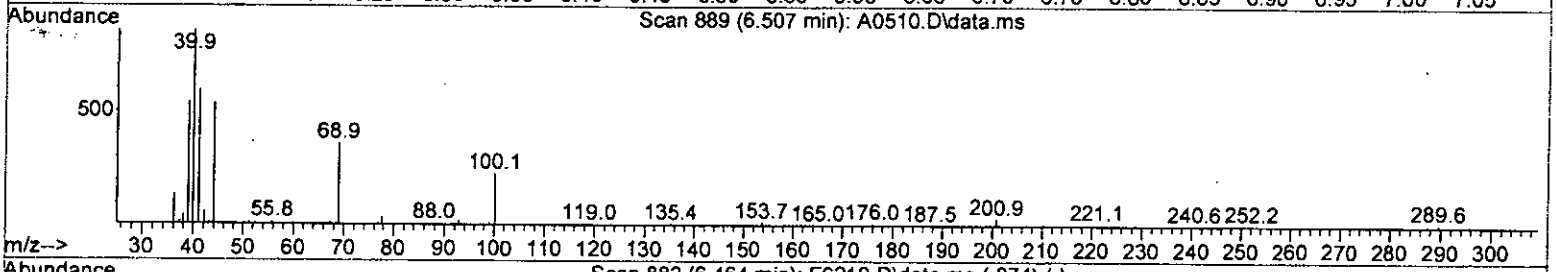
Ion	Exp%	Act%
41.00	100	100
39.00	51.30	56.81
0.00	0.00	0.00
0.00	0.00	0.00

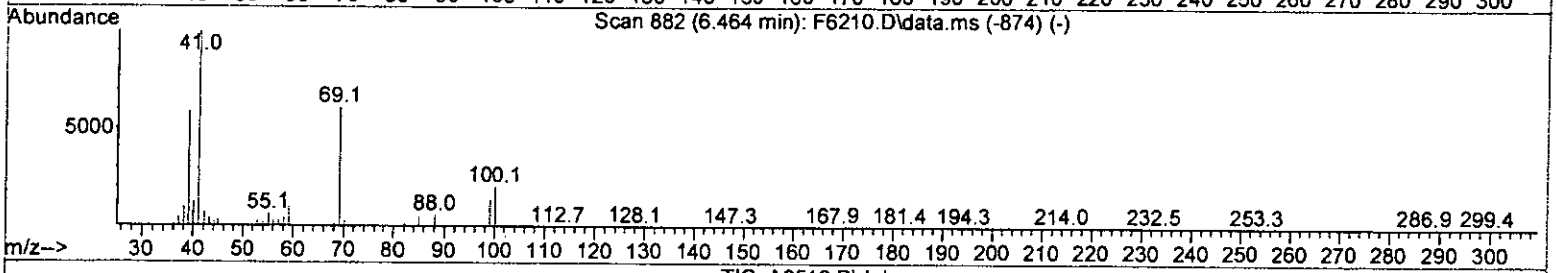
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(59) Methyl Methacrylate

6.507min (+0.037) 0.09 ug/L

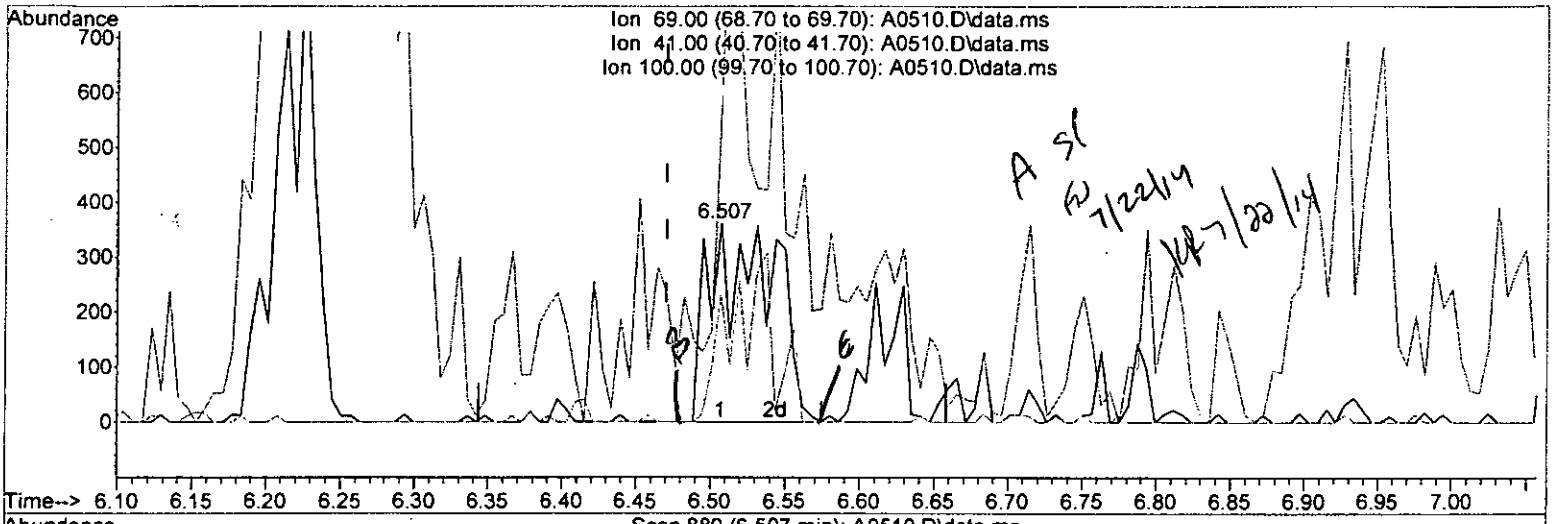
response 377

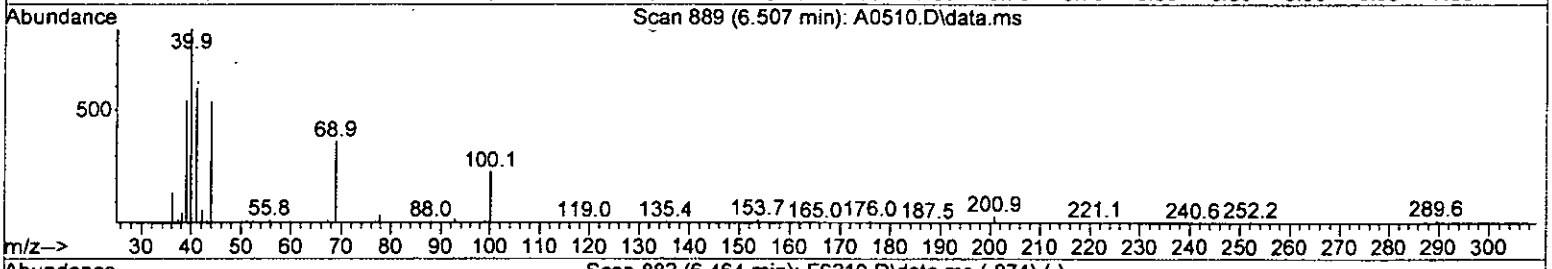
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	163.99#
100.00	36.90	63.71#
0.00	0.00	0.00

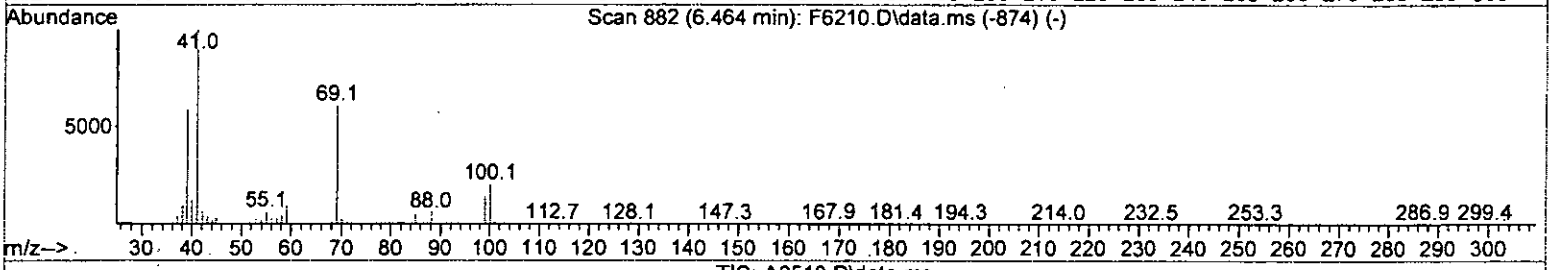
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(59) Methyl Methacrylate

6.507min (+0.037) 0.26 ug/L m

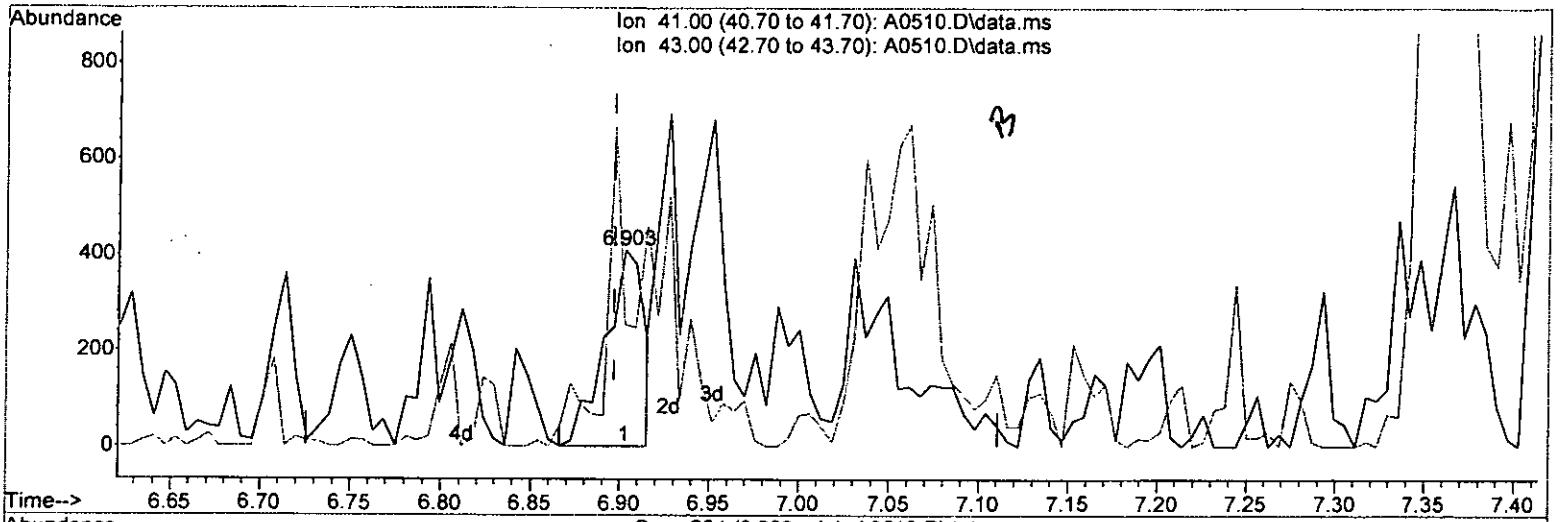
response 1075

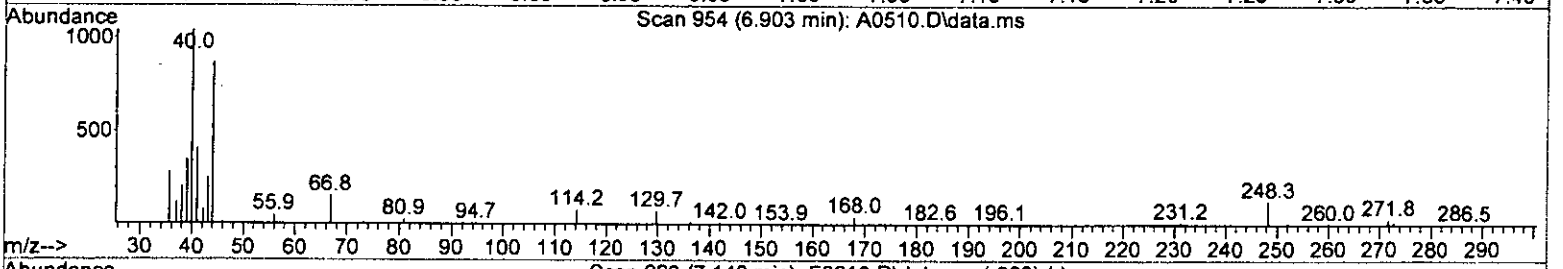
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	163.99#
100.00	36.90	63.71#
0.00	0.00	0.00

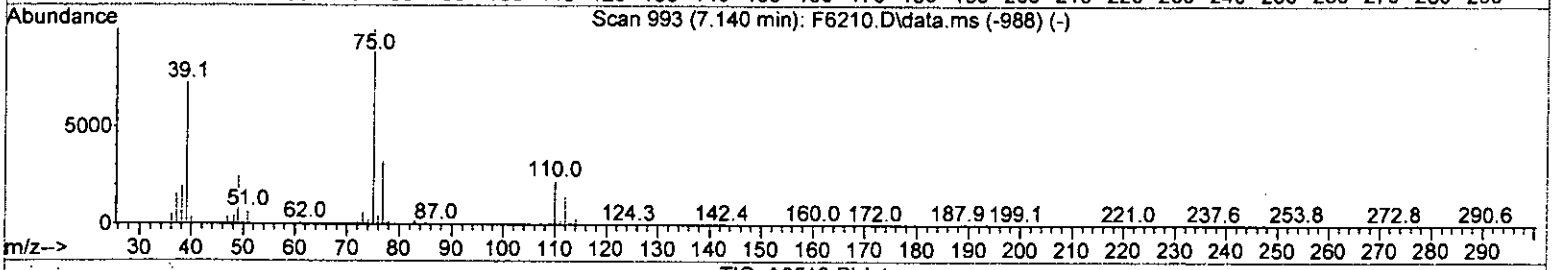
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(61) 2-Nitropropane

6.903min (+0.006) 0.39 ug/L

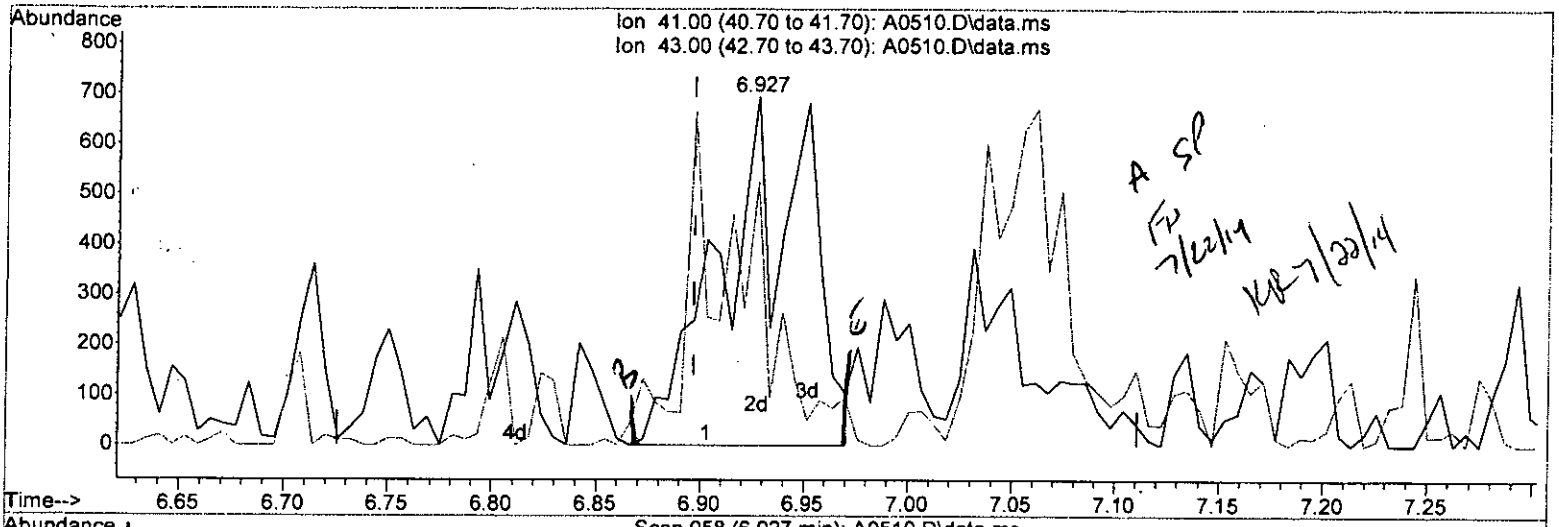
response 618

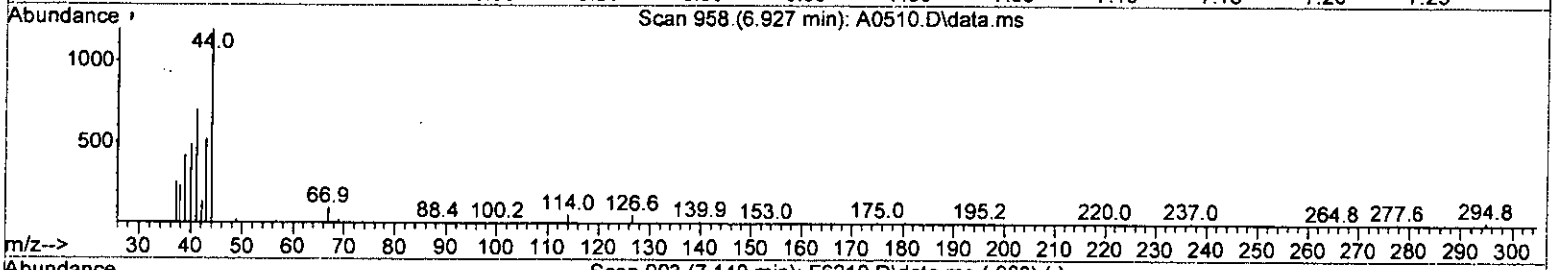
Ion	Exp%	Act%
41.00	100	100
43.00	108.60	62.10#
0.00	0.00	0.00
0.00	0.00	0.00

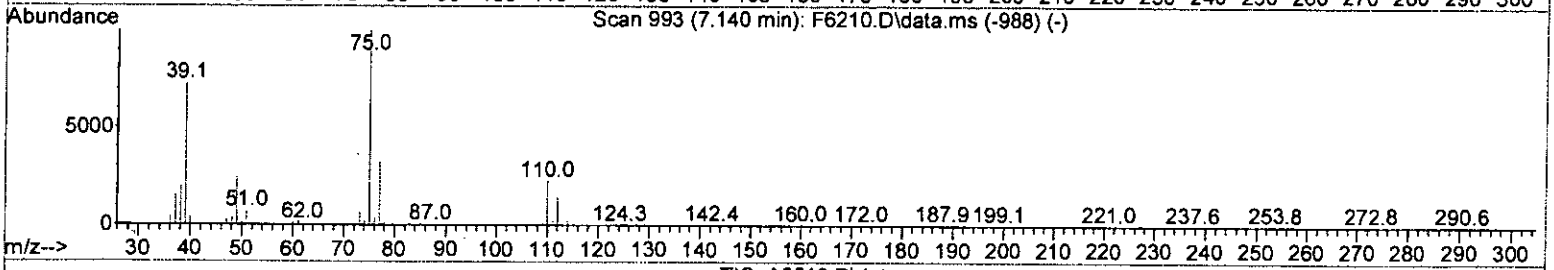
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(61) 2-Nitropropane

6.927min (+0.031) 1.22 ug/L m

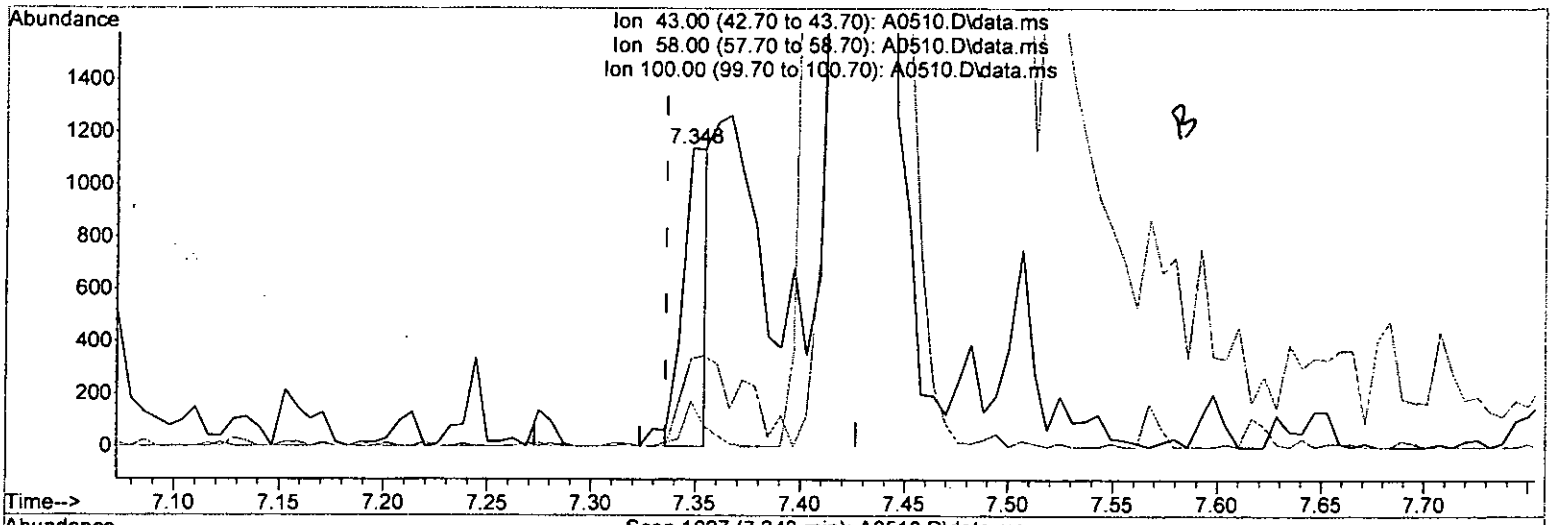
response 1949

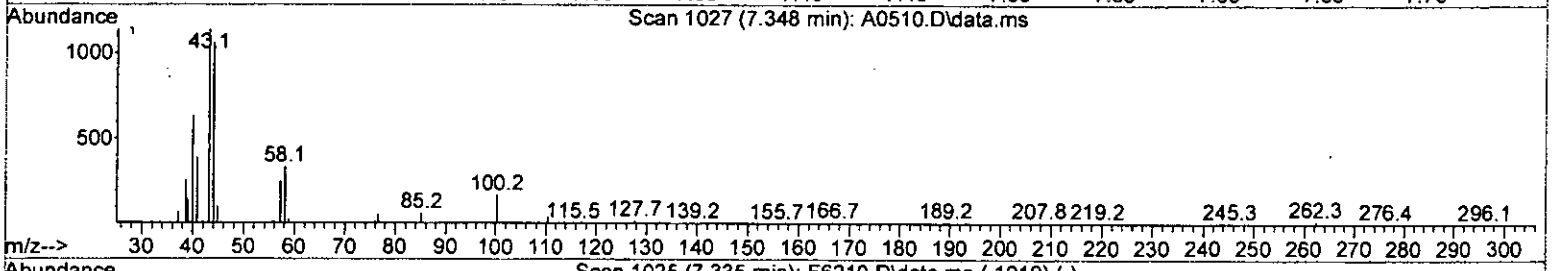
Ion	Exp%	Act%
41.00	100	100
43.00	108.60	75.22#
0.00	0.00	0.00
0.00	0.00	0.00

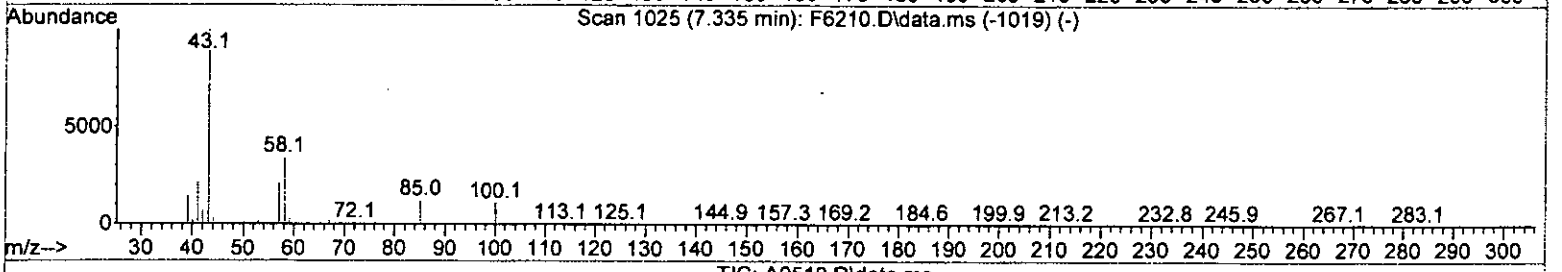
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(64) 4-Methyl-2-pentanone (P)

7.348min (+0.012) 0.15 ug/L

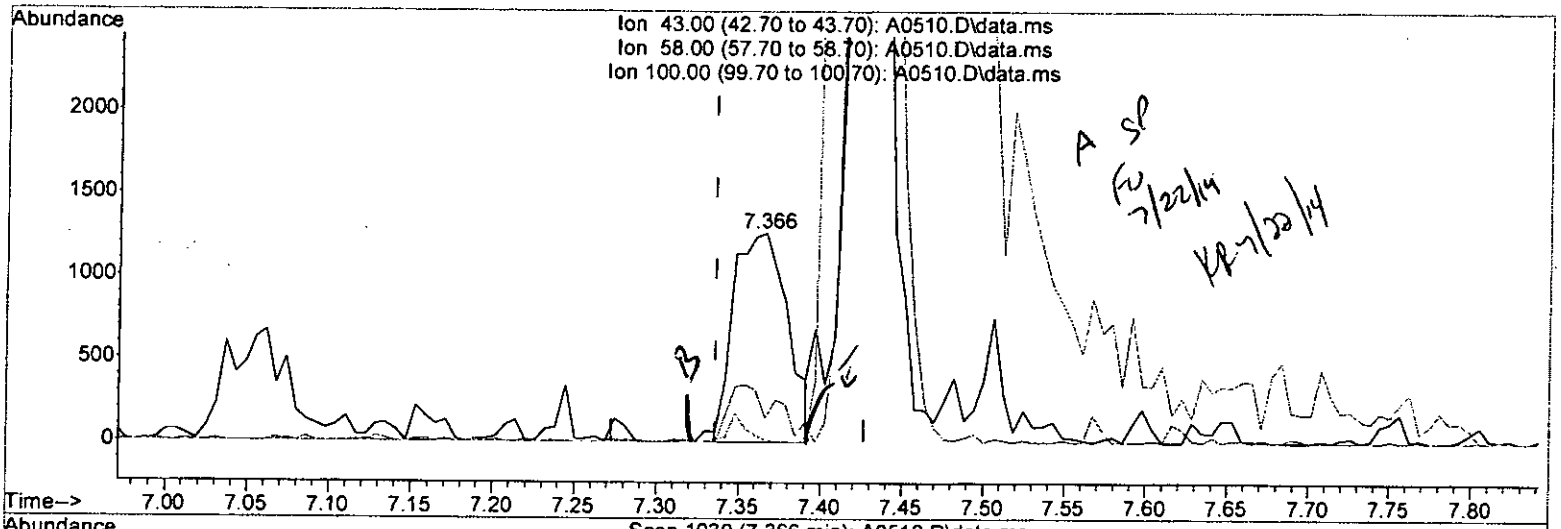
response 1020

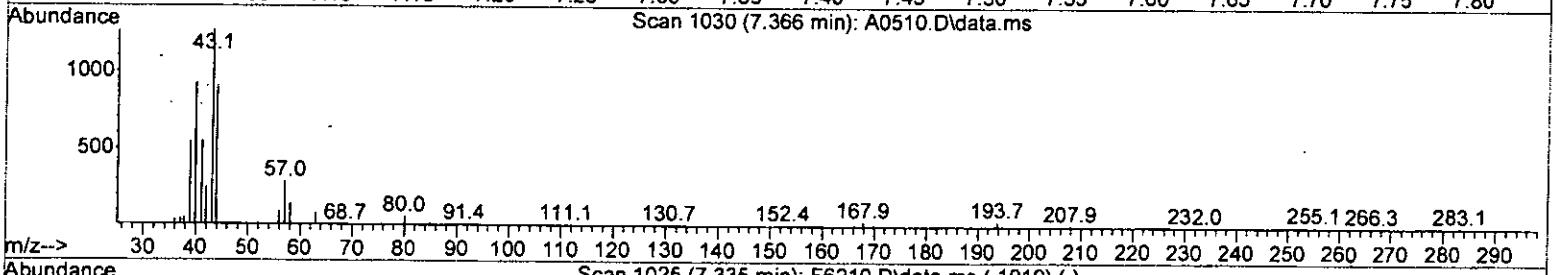
Ion	Exp%	Act%
43.00	100	100
58.00	36.30	29.38
100.00	12.60	15.13
0.00	0.00	0.00

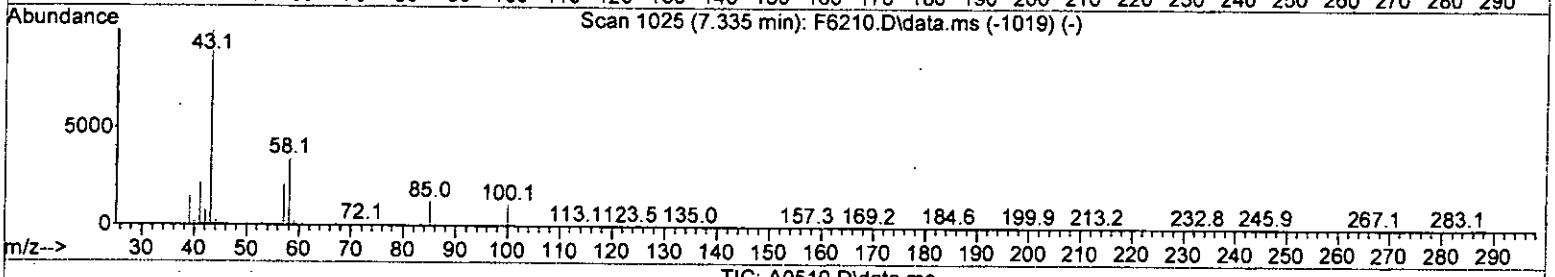
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(64) 4-Methyl-2-pentanone (P)

7.366min (+0.031) 0.43 ug/L m

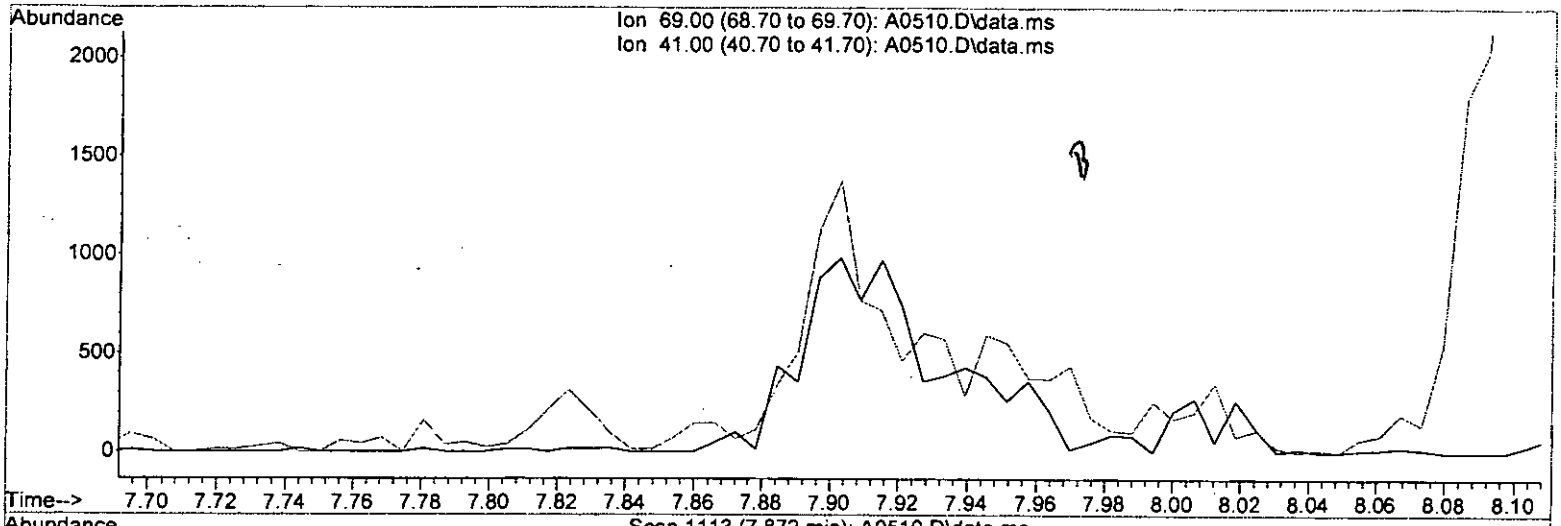
response 2917

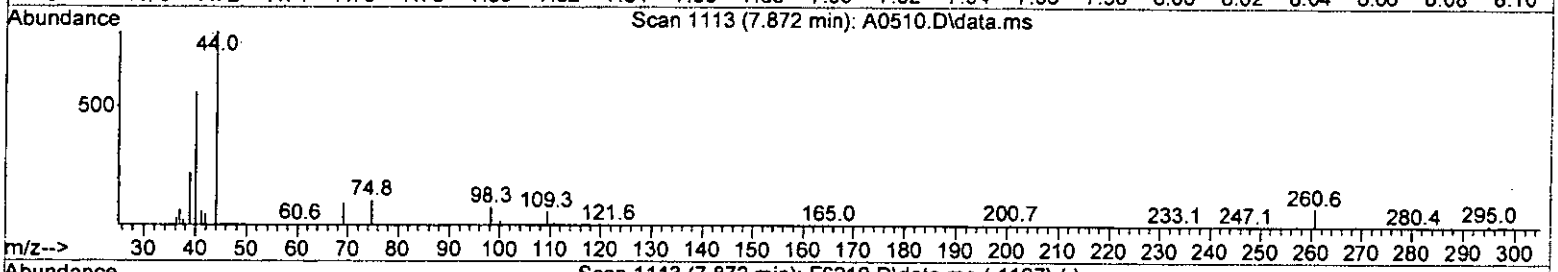
Ion	Exp%	Act%
43.00	100	100
58.00	36.30	11.41#
100.00	12.60	0.87
0.00	0.00	0.00

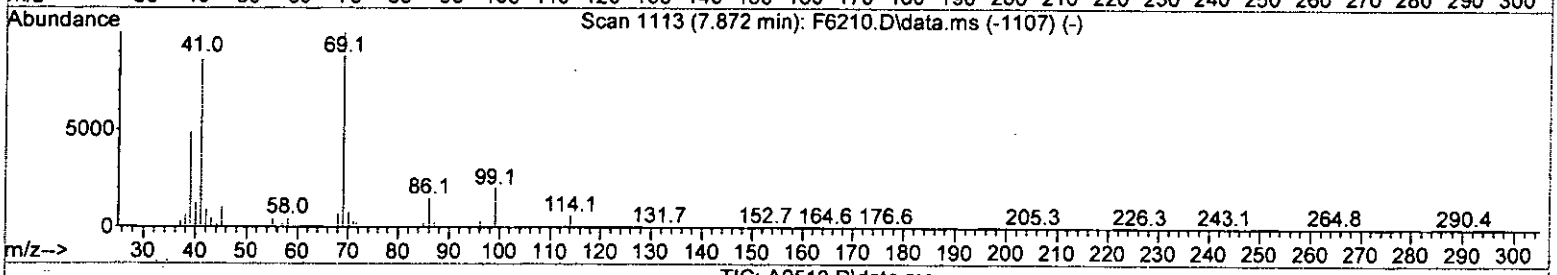
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(68) Ethyl Methacrylate

7.872min (-7.872) 0.00 ug/L

response 0

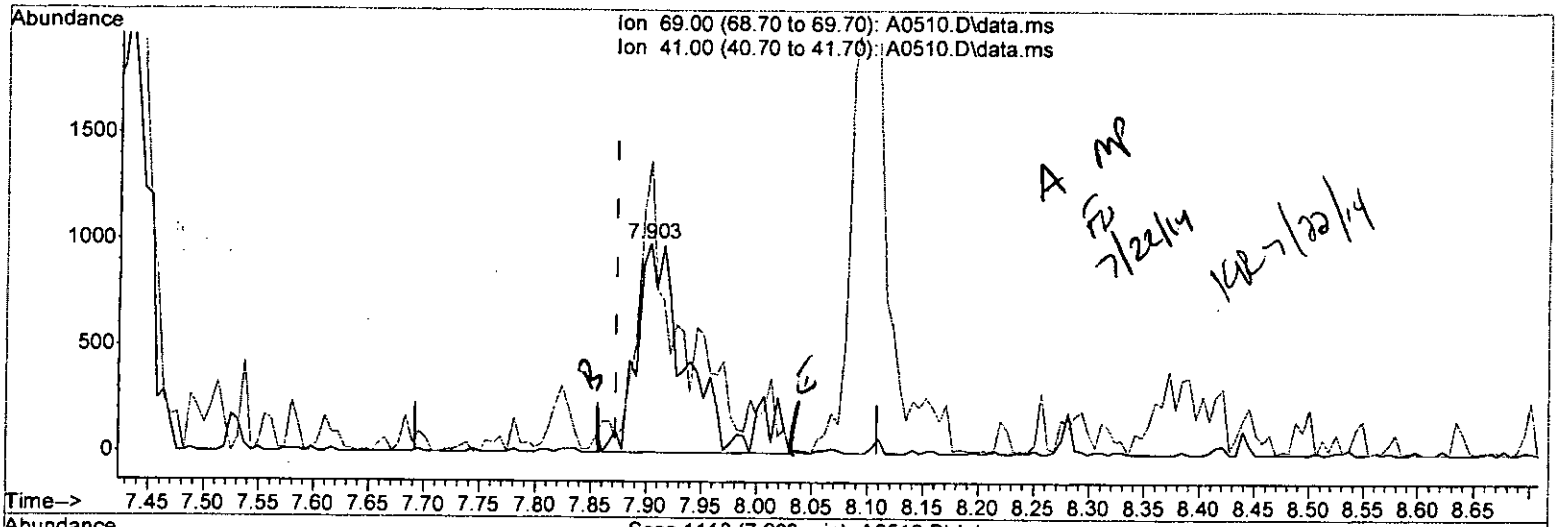
Ion	Exp%	Act%
69.00	100	0.00
41.00	71.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00339

Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:24:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0510.D\data.ms

(68) Ethyl Methacrylate

7.903min (+0.031) 0.37 ug/L m

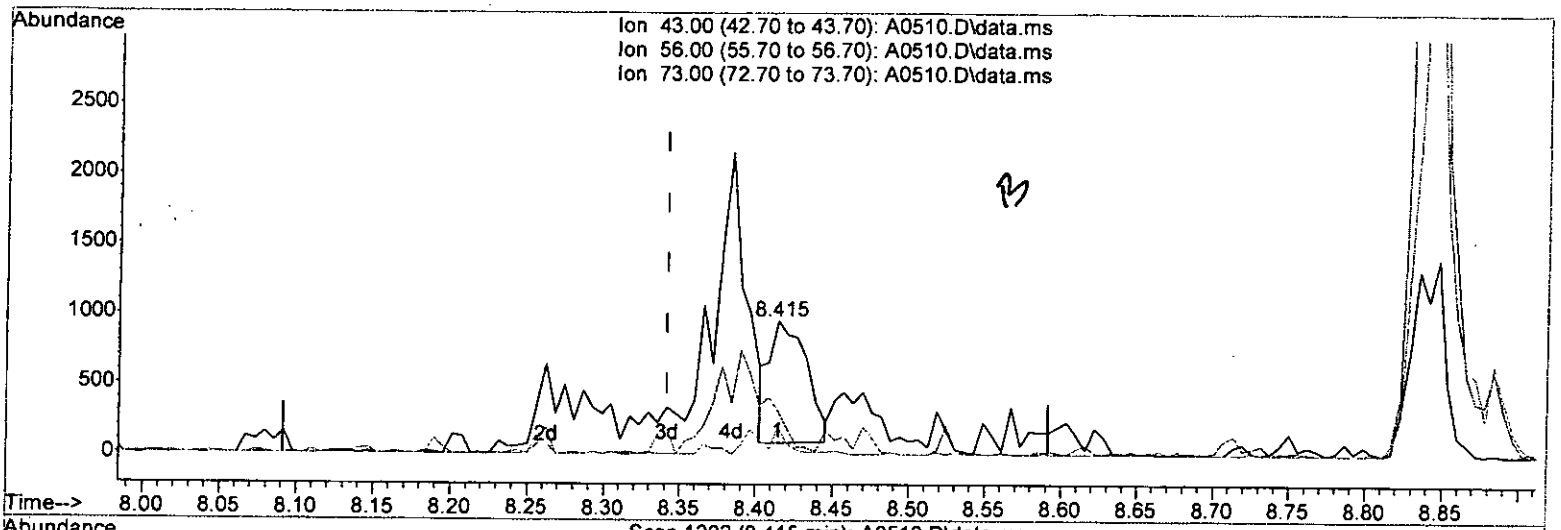
response 3216

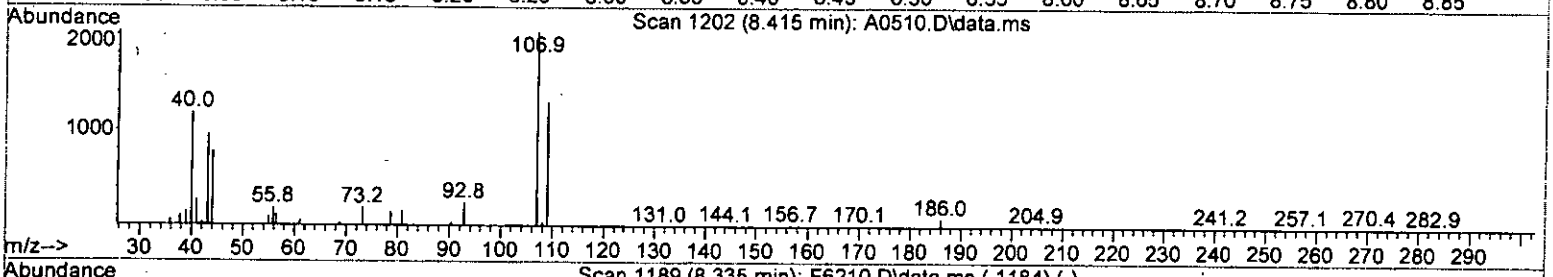
Ion	Exp%	Act%
69.00	100	100
41.00	71.50	139.43#
0.00	0.00	0.00
0.00	0.00	0.00

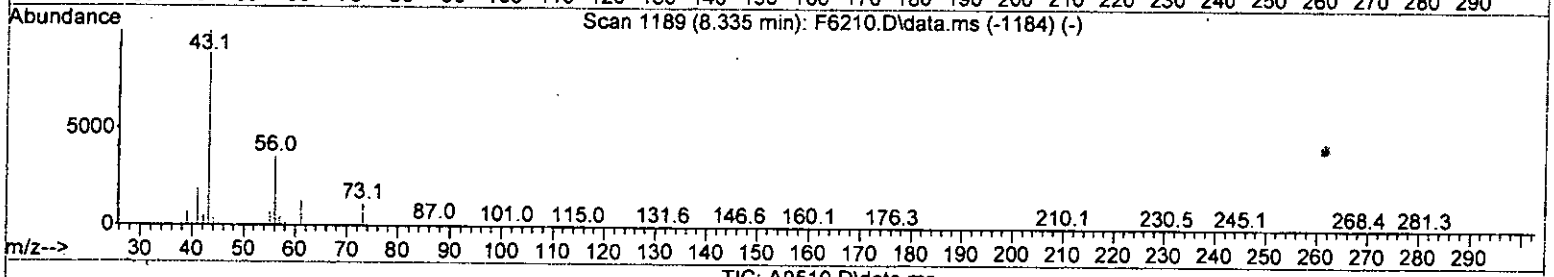
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(76) N-Butyl Acetate

8.415min (+0.073) 0.11 ug/L

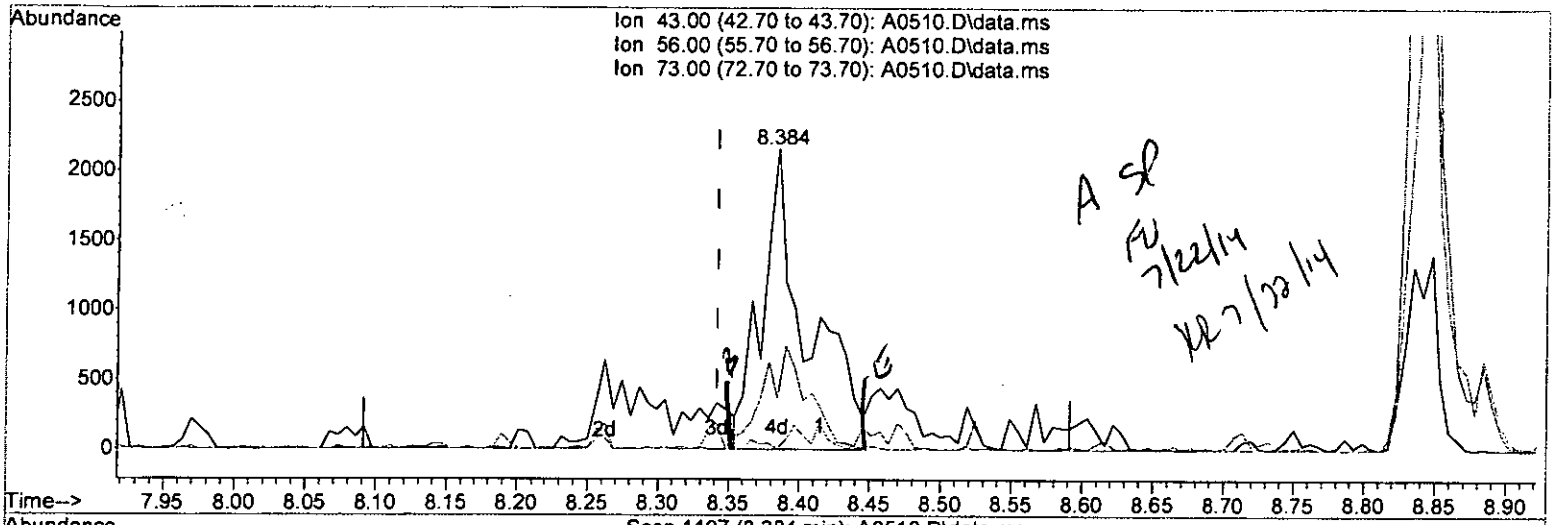
response 1456

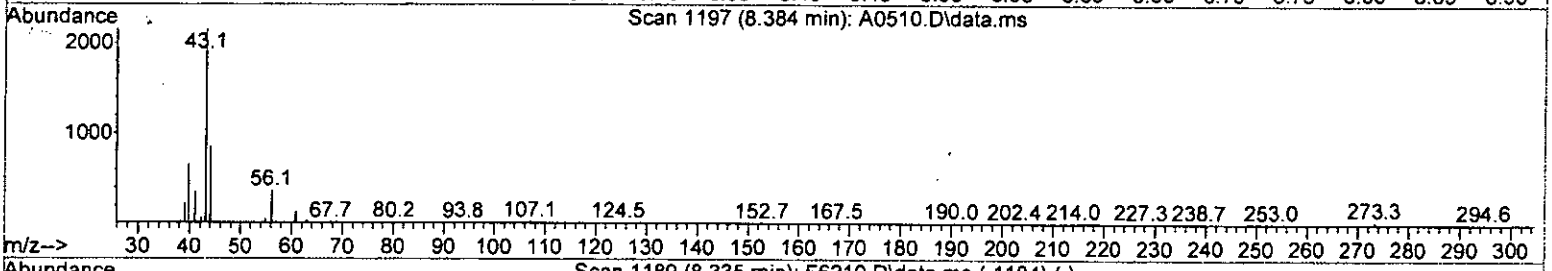
Ion	Exp%	Act%
43.00	100	100
56.00	38.80	31.97
73.00	14.00	20.08
0.00	0.00	0.00

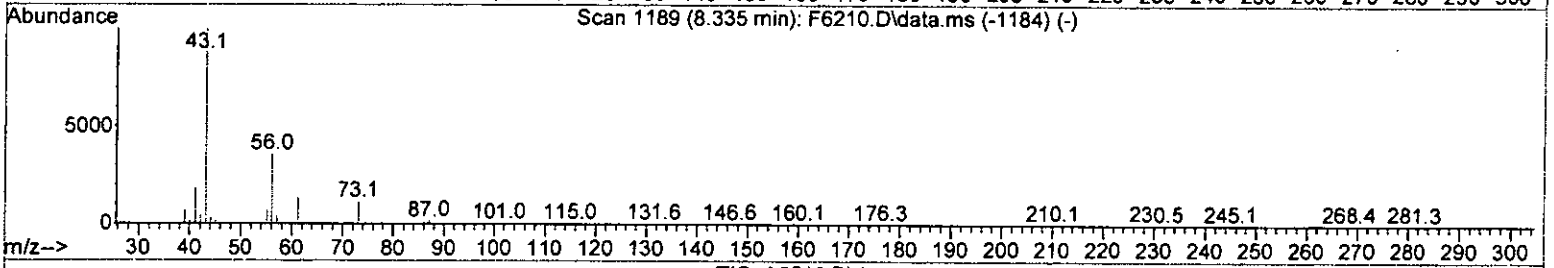
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(76) N-Butyl Acetate

8.384min (+0.043) 0.37 ug/L m

response 4816

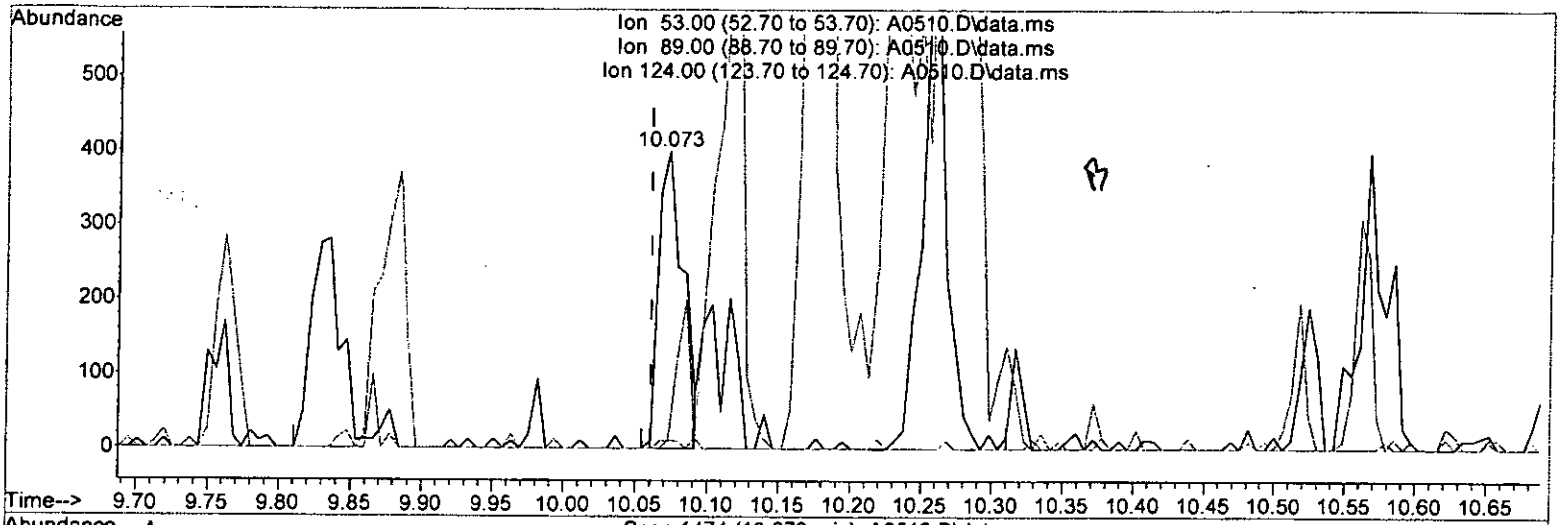
Ion	Exp%	Act%
43.00	100	100
56.00	38.80	16.89#
73.00	14.00	0.00
0.00	0.00	0.00

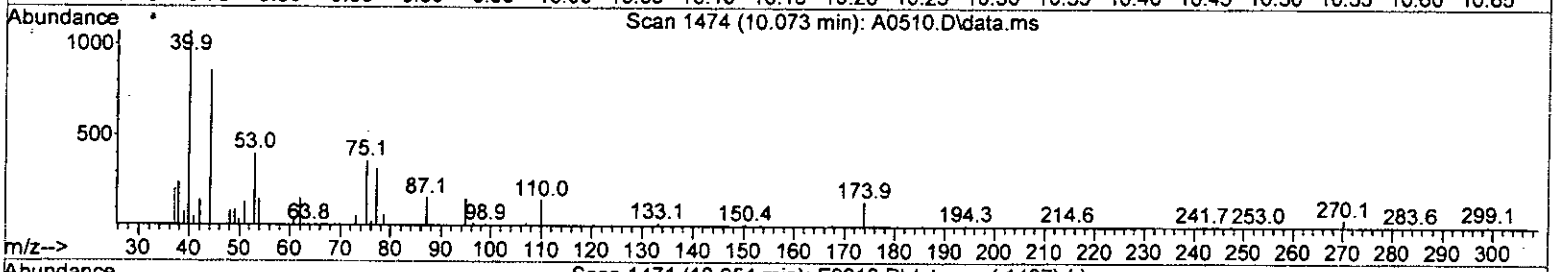
W072114.M Mon Jul 21 12:23:59 2014 MSVO10

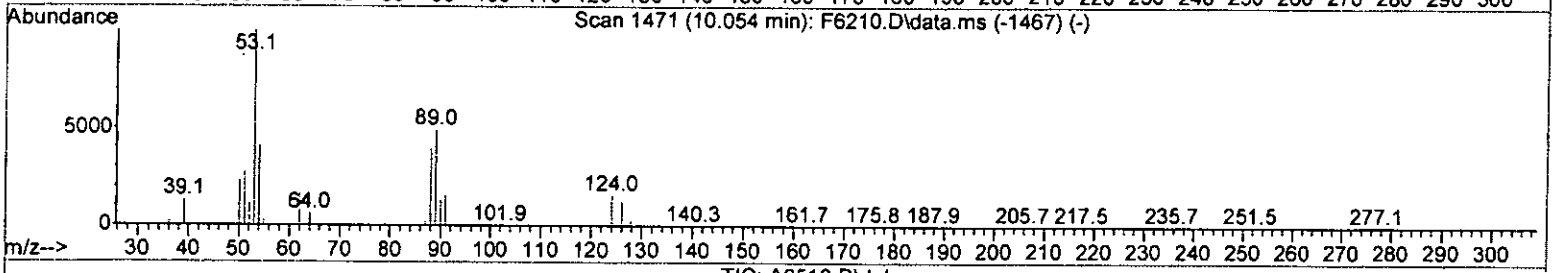
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:24:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

10.073min (+0.012) 0.22 ug/L

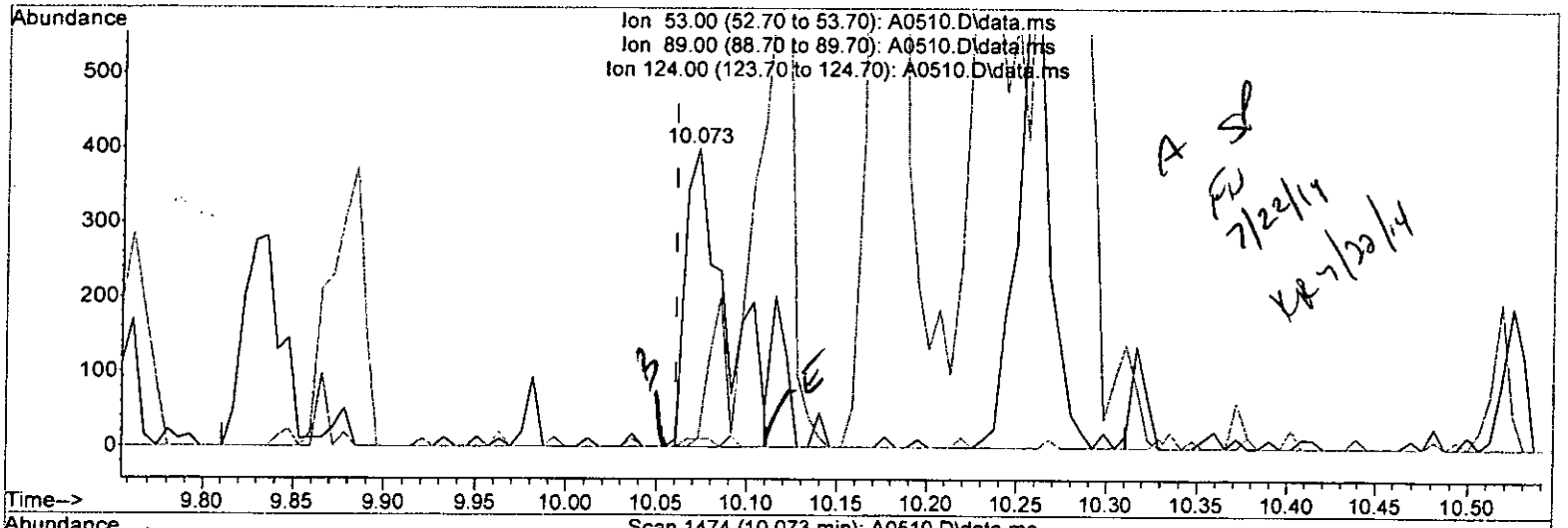
response 477

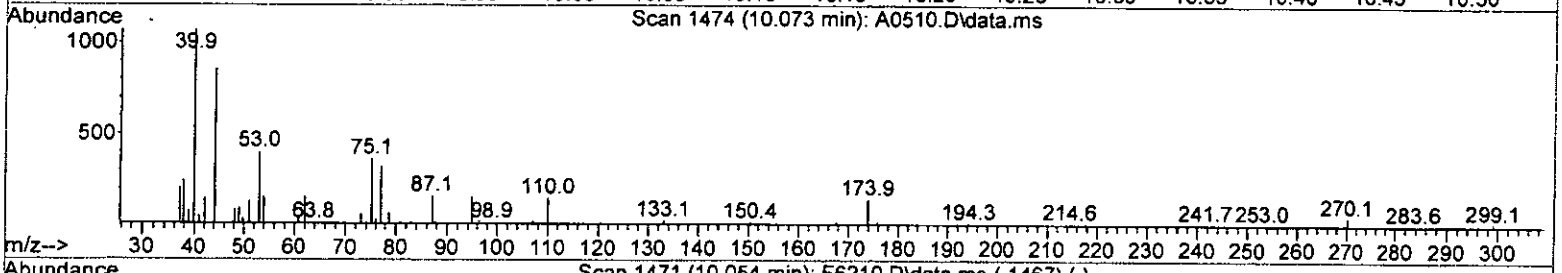
Ion	Exp%	Act%
53.00	100	100
89.00	57.40	3.00#
124.00	20.90	2.75
0.00	0.00	0.00

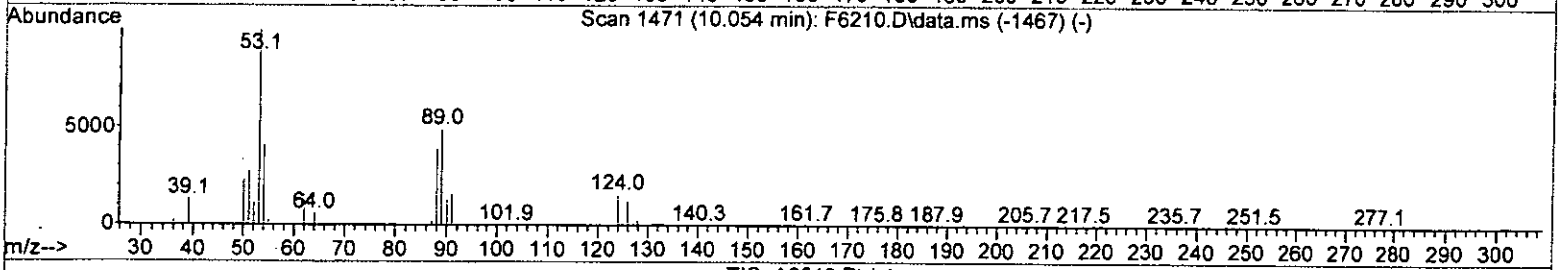
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:24:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

10.073min (+0.012) 0.29 ug/L m

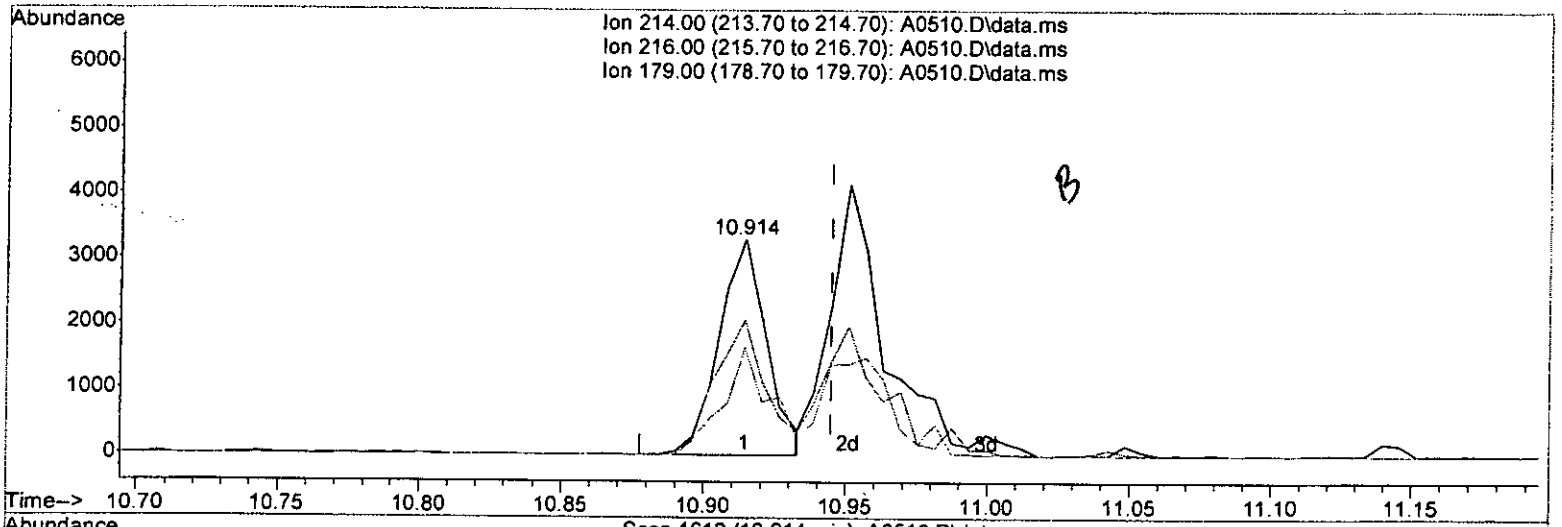
response 627

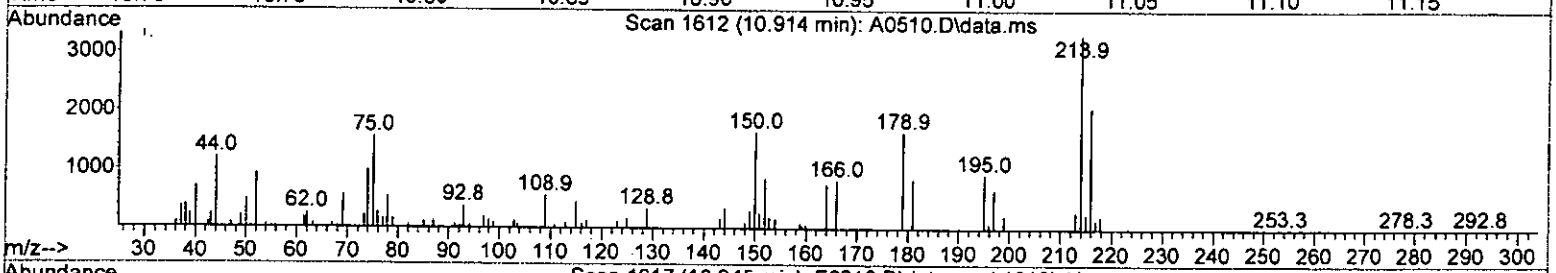
Ion	Exp%	Act%
53.00	100	100
89.00	57.40	3.00#
124.00	20.90	2.75
0.00	0.00	0.00

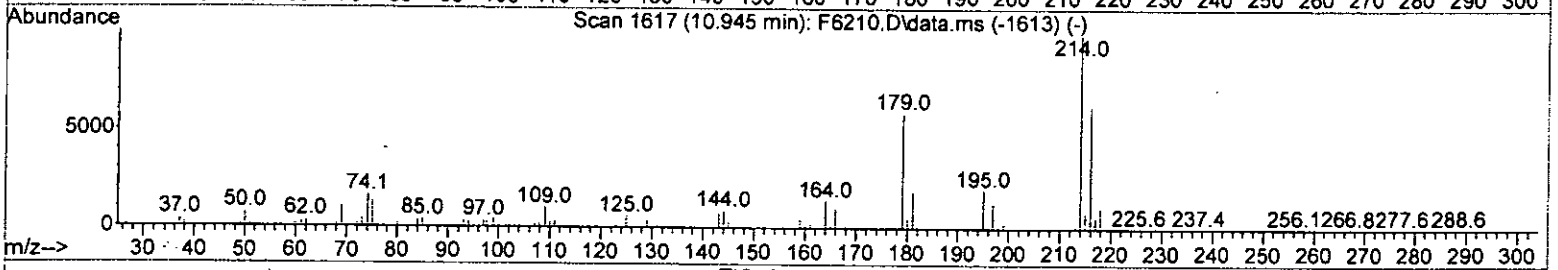
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(108) 2,5-Dichlorobenzotrifluoride

10.914min (-0.030) 0.38 ug/L

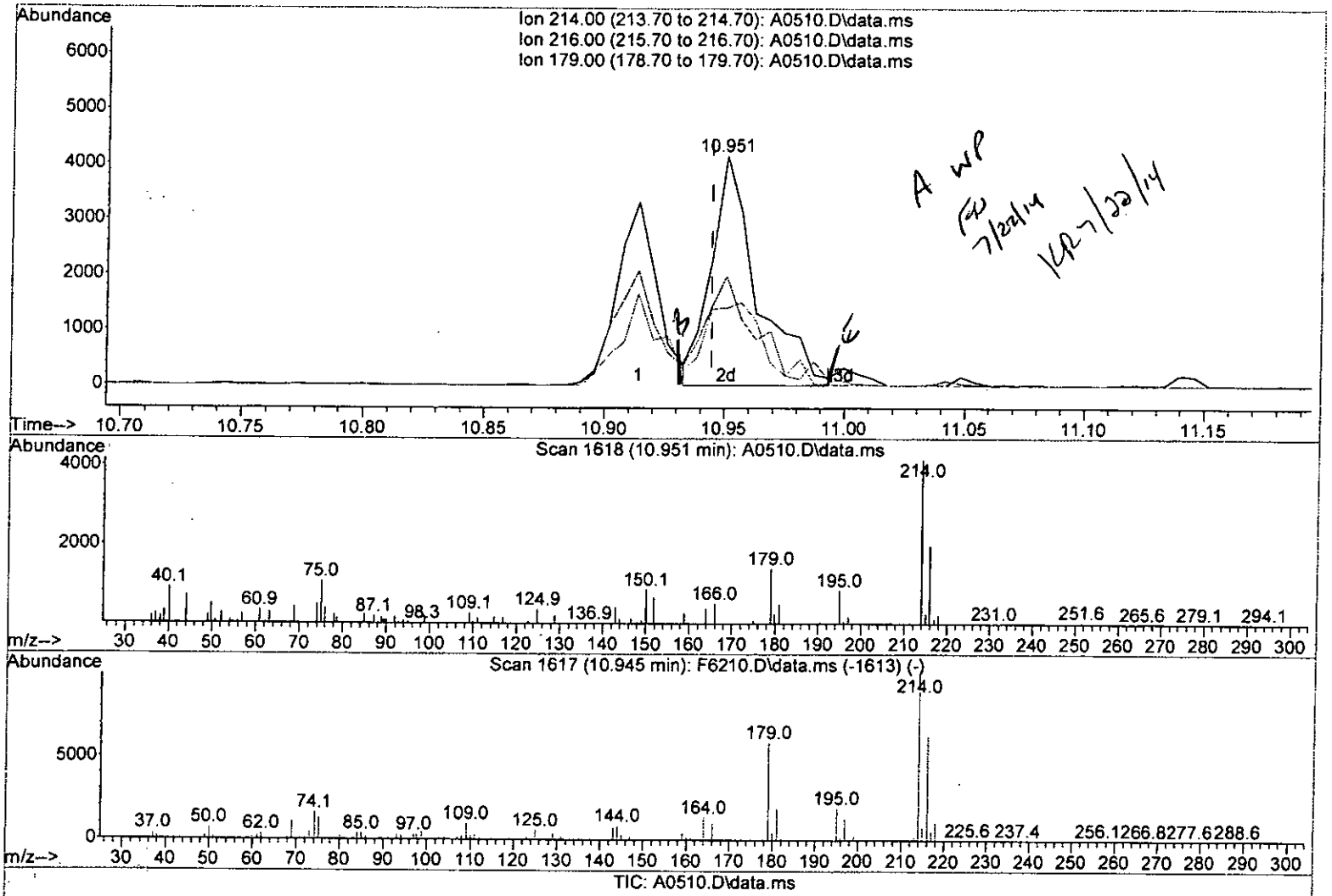
response 3819

Ion	Exp%	Act%
214.00	100	100
216.00	62.10	62.51
179.00	62.80	49.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0510.D\data.ms

(108) 2,5-Dichlorobenzotrifluoride

10.951min (+0.006) 0.55 ug/L m

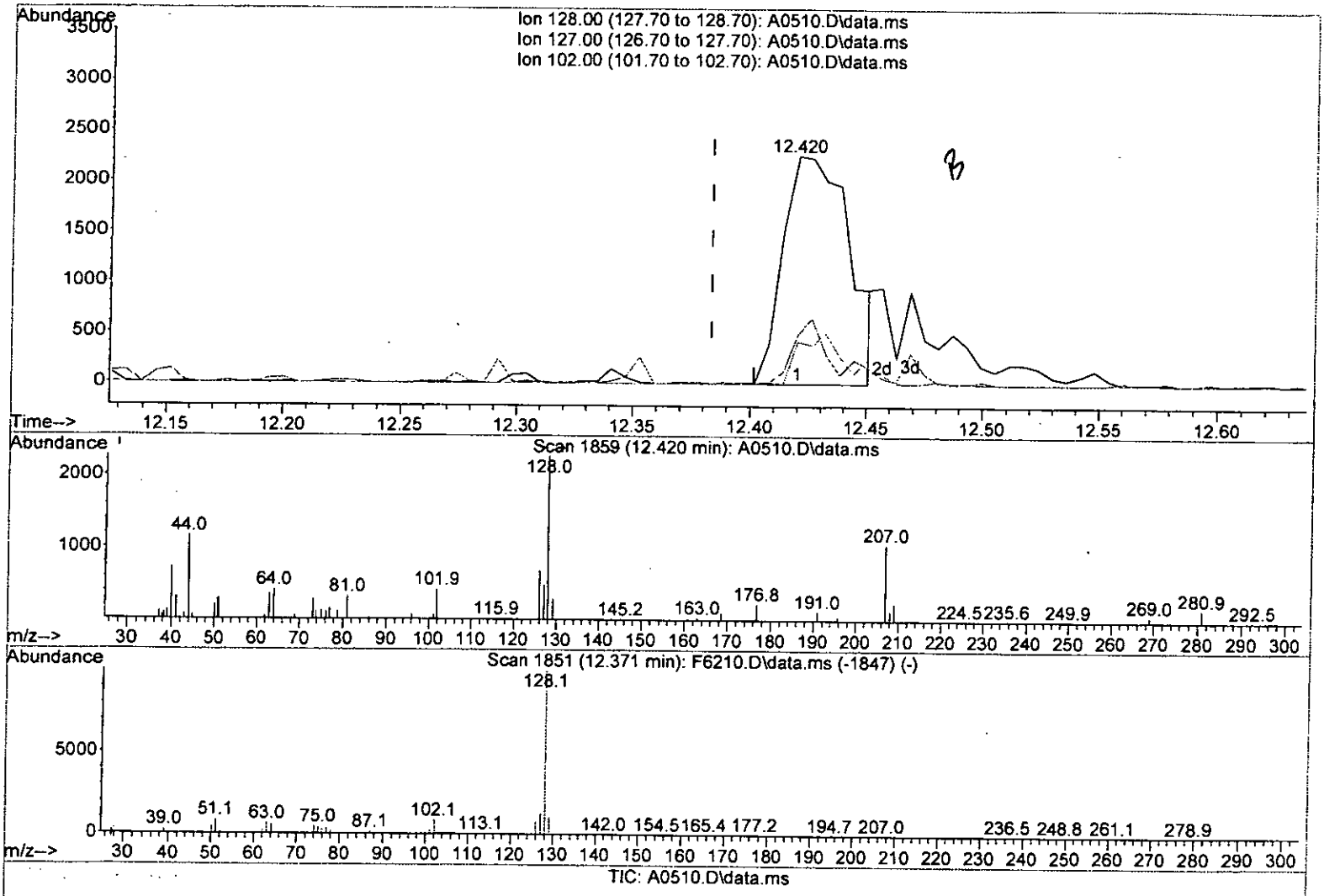
response 5531

Ion	Exp%	Act%
214.00	100	100
216.00	62.10	47.40
179.00	62.80	33.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0510.D\data.ms

(117) Naphthalen

12.420min (+0.037) 0.28 ug/L

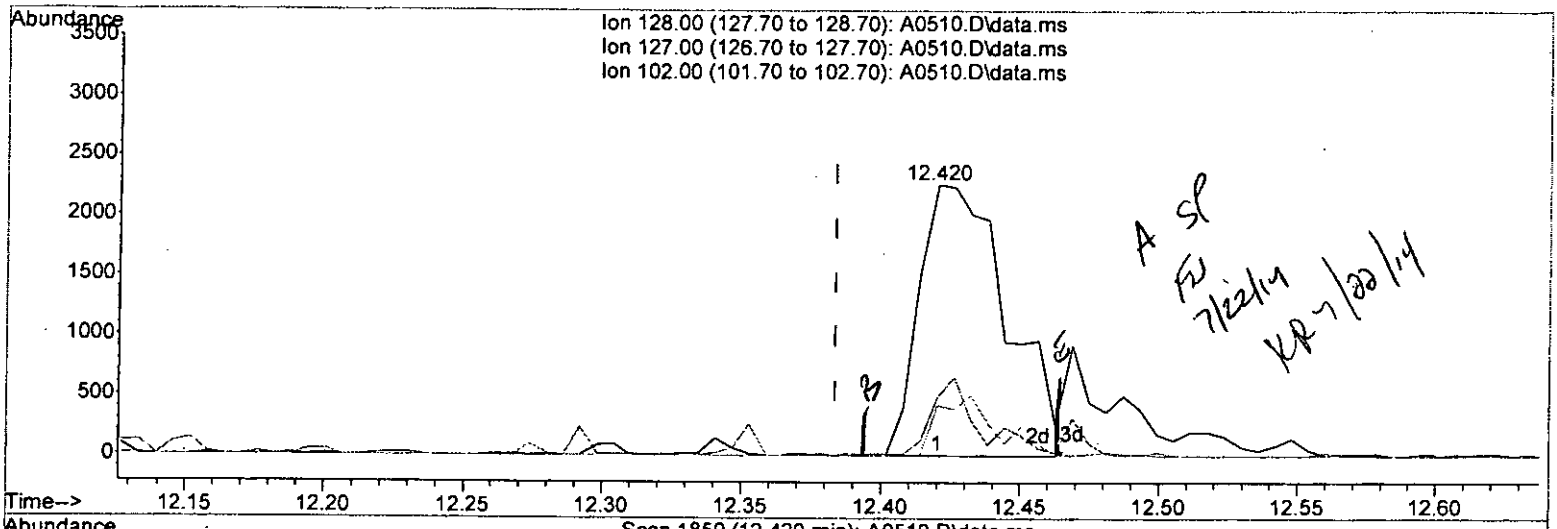
response 4495

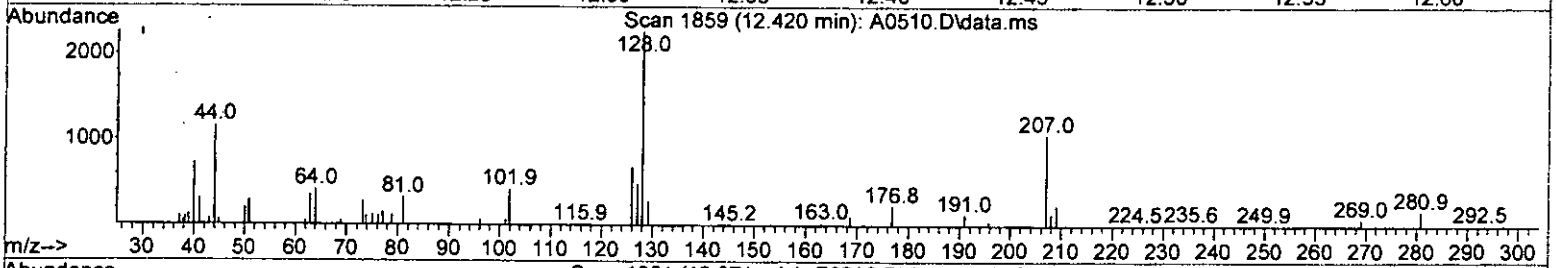
Ion	Exp%	Act%
128.00	100	100
127.00	12.90	21.36
102.00	8.70	18.53
0.00	0.00	0.00

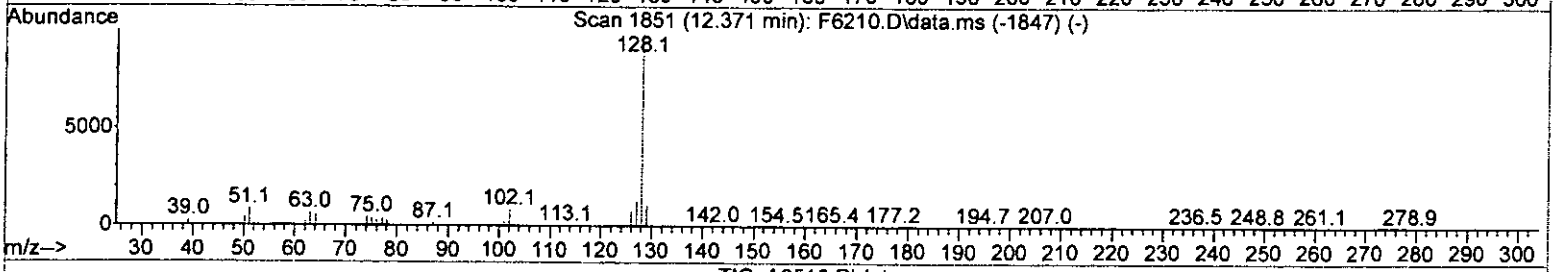
Quantitation Report (Qedit)

Sample : 0.5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:05:34 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0510.D\data.ms

(117) Naphthalen

12.420min (+0.037) 0.31 ug/L m

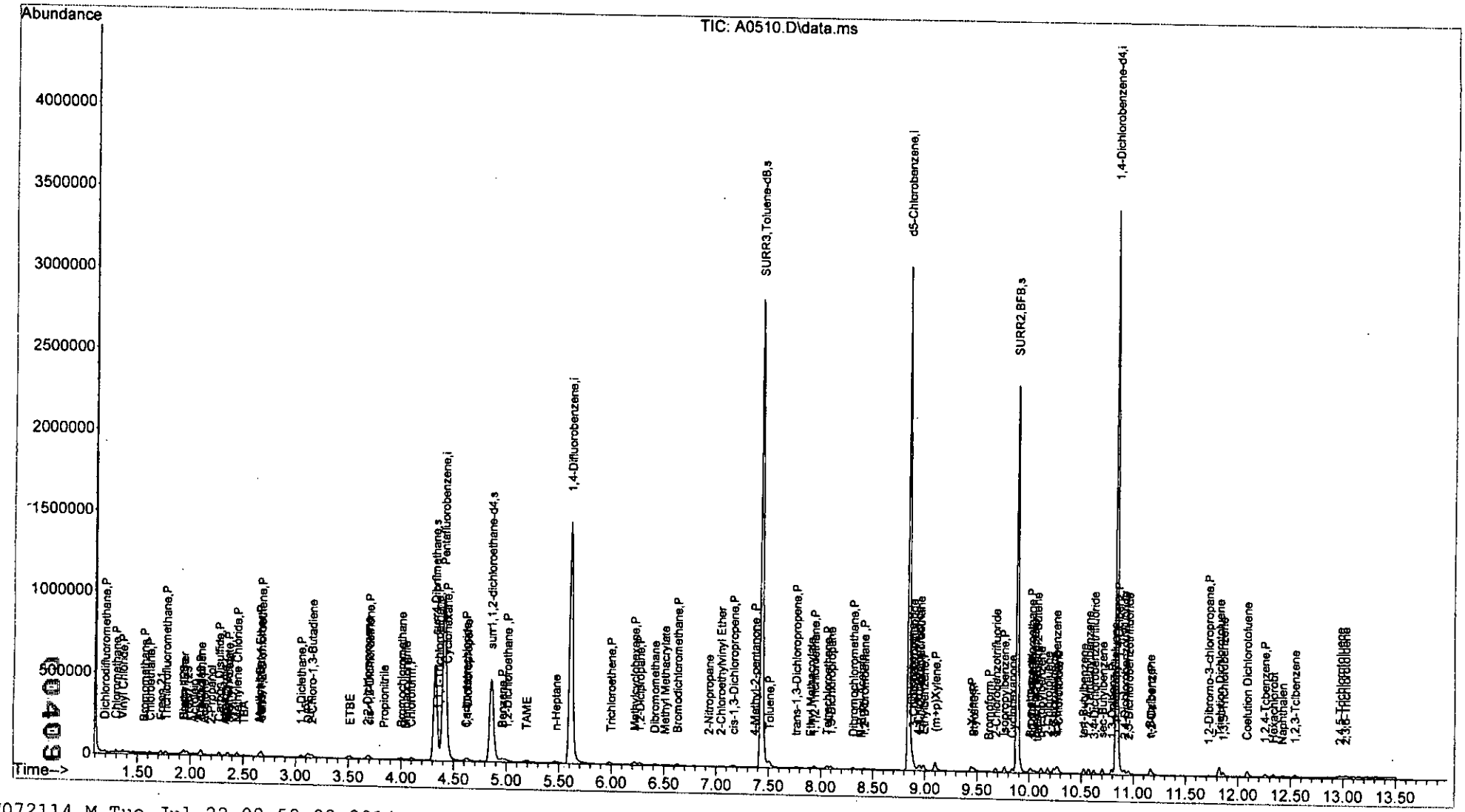
response 4940

Ion	Exp%	Act%
128.00	100	100
127.00	12.90	21.36
102.00	8.70	18.53
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : Q5 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0510.D Vial: 3
Acq On : 21 Jul 2014 11:52 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:13:30 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:52:08 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:17:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

FJ 7/24/14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.415	168	915629	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1383652	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1274162	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	647214	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	450996	54.69	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.38%			
48) surr1,1,2-dichloroetha...	4.854	65	480346	58.77	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 117.54%			
65) SURR3,Toluene-d8	7.427	98	1613221	50.65	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.30%			
70) SURR2,BFB	9.878	95	623933	49.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.190	85	10045	1.17	ug/L	92
3) Chloromethane	1.294	50	12631	1.19	ug/L	90
4) Vinyl Chloride	1.361	62	12787	1.15	ug/L	91
5) Bromomethane	1.556	94	2393	0.60	ug/L #	60
6) Chloroethane	1.611	64	6031	1.00	ug/L	94
7) Freon 21	1.721	67	17075	1.06	ug/L	99
8) Trichlorofluoromethane	1.770	101	13610	1.14	ug/L	96
9) Diethyl Ether	1.934	59	7605	1.11	ug/L #	73
10) Freon 123a	1.928	67	10928	1.05	ug/L	95
11) Freon 123	1.965	83	12215	1.11	ug/L	92
12) Acrolein	2.026	56	5898	5.55	ug/L	84
13) 1,1-Diclethene	2.099	96	6172	1.01	ug/L #	83
14) Freon 113	2.093	101	8847	1.27	ug/L	98
15) Acetone	2.123	43	3665m	1.78	ug/L	
16) 2-Propanol	2.202	45	8002m	22.39	ug/L	
17) Iodomethane	2.215	142	1441	0.23	ug/L	99
18) Carbon Disulfide	2.276	76	27756	1.07	ug/L	96
19) Acetonitrile	2.324	40	1477	5.33	ug/L #	62
20) Allyl Chloride	2.349	76	3909	0.89	ug/L #	41
21) Methyl Acetate	2.361	43	5178	1.17	ug/L	83
22) Methylene Chloride	2.440	84	9255	1.01	ug/L #	70
23) TBA	2.507	59	8904	15.81	ug/L	60
24) Acrylonitrile	2.647	53	13108	5.81	ug/L	85
25) Methyl-t-Butyl Ether	2.660	73	17301	0.89	ug/L	95
26) trans-1,2-Dichloroethene	2.672	96	7861	1.01	ug/L #	85
28) 1,1-Diclethane	3.044	63	17296	1.08	ug/L	88
29) Vinyl Acetate	3.111	86	664m	0.59	ug/L	
30) DIPE	3.111	45	37861	1.17	ug/L	83
31) 2-Chloro-1,3-Butadiene	3.147	53	15829	1.03	ug/L	85
32) ETBE	3.513	59	24603m	0.90	ug/L	
33) 2,2-Dichloropropane	3.678	77	9728	0.83	ug/L	81
34) cis-1,2-Dichloroethene	3.690	96	8403	0.96	ug/L #	79
36) Propionitrile	3.824	54	3852m	5.30	ug/L	
37) Bromochloromethane	3.989	130	6065	1.18	ug/L	93
38) Methacrylonitrile	4.007	67	1507m	0.66	ug/L	

Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:17:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) Tetrahydrofuran	4.098	42	1879	1.12 ug/L #	48
40) Chloroform	4.098	83	15889	1.11 ug/L	85
41) 1,1,1-Trichloroethane	4.354	97	12354	0.99 ug/L	85
42) TAME	5.183	73	17045m	0.83 ug/L	
44) Cyclohexane	4.446	41	12448	1.21 ug/L	95
46) Carbontetrachloride	4.623	121	3532m	0.95 ug/L	
47) 1,1-Dichloropropene	4.629	75	10013	0.89 ug/L	97
49) Benzene	4.970	78	33493	0.94 ug/L	89
50) 1,2-Dichloroethane	4.994	62	11541	0.98 ug/L	79
51) Iso-Butyl Alcohol	4.885	43	4685m	16.14 ug/L	
52) n-Heptane	5.458	43	12917	1.29 ug/L #	56
53) 1-Butanol	6.086	56	2304m	16.96 ug/L	
54) Trichloroethene	5.976	130	9434	0.98 ug/L #	84
55) Methylcyclohexane	6.220	55	12672	1.01 ug/L	92
56) 1,2-Diclpropane	6.269	63	9083	0.89 ug/L	85
57) Dibromomethane	6.409	93	4602	0.98 ug/L #	68
58) 1,4-Dioxane	6.482	88	914m	18.22 ug/L	
59) Methyl Methacrylate	6.494	69	3956m	0.96 ug/L	
60) Bromodichloromethane	6.622	83	10588	0.94 ug/L	92
61) 2-Nitropropane	6.903	41	3489m	2.18 ug/L	
62) 2-Chloroethylvinyl Ether	7.037	63	3169m	0.67 ug/L	
63) cis-1,3-Dichloropropene	7.159	75	10071m	0.74 ug/L	
64) 4-Methyl-2-pentanone	7.360	43	6033m	0.88 ug/L	
66) Toluene	7.506	91	35842	0.93 ug/L	98
67) trans-1,3-Dichloropropene	7.762	75	7473	0.67 ug/L	94
68) Ethyl Methacrylate	7.902	69	6769m	0.79 ug/L	
69) 1,1,2-Trichloroethane	7.933	97	6529	0.98 ug/L	94
72) Tetrachloroethene	8.061	164	7340	0.93 ug/L	89
73) 2-Hexanone	8.262	43	3902m	0.78 ug/L	
74) 1,3-Dichloropropane	8.098	76	10780	0.92 ug/L #	72
75) Dibromochloromethane	8.311	129	6879	0.82 ug/L	88
76) N-Butyl Acetate	8.360	43	10618m	0.81 ug/L	
77) 1,2-Dibromoethane	8.408	107	5343	0.78 ug/L	92
78) 3-Chlorobenzotrifluoride	8.884	180	12992	0.89 ug/L	91
79) Chlorobenzene	8.872	112	24259	0.92 ug/L	88
80) 4-Chlorobenzotrifluoride	8.939	180	11639	0.86 ug/L	88
81) 1,1,1,2-Tetrachloroethane	8.951	131	7585	0.79 ug/L #	81
82) Ethylbenzene	8.988	106	11297	0.83 ug/L #	81
83) (m+p)Xylene	9.091	106	27530	1.65 ug/L #	81
84) o-Xylene	9.439	106	12139	0.72 ug/L	89
85) Styrene	9.457	104	21611	0.76 ug/L	92
86) Bromoform	9.609	173	3468	0.69 ug/L	95
87) 2-Chlorobenzotrifluoride	9.670	180	11933	0.82 ug/L	93
88) Isopropylbenzene	9.762	105	35053	0.85 ug/L	98
89) Cyclohexanone	9.829	55	19833	19.92 ug/L	98
90) trans-1,4-Dichloro-2-B...	10.073	53	1403m	0.64 ug/L	
92) 1,1,2,2-Tetrachloroethane	10.012	83	6760	0.91 ug/L	88
93) Bromobenzene	10.012	156	9602	0.89 ug/L #	83
94) 1,2,3-Trichloropropane	10.048	110	1951	0.99 ug/L #	57
95) n-Propylbenzene	10.109	91	38328	0.87 ug/L	97
96) 2-Chlorotoluene	10.176	91	23686	0.88 ug/L	93
97) 3-Chlorotoluene	10.231	91	24855	0.91 ug/L	95

Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:17:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

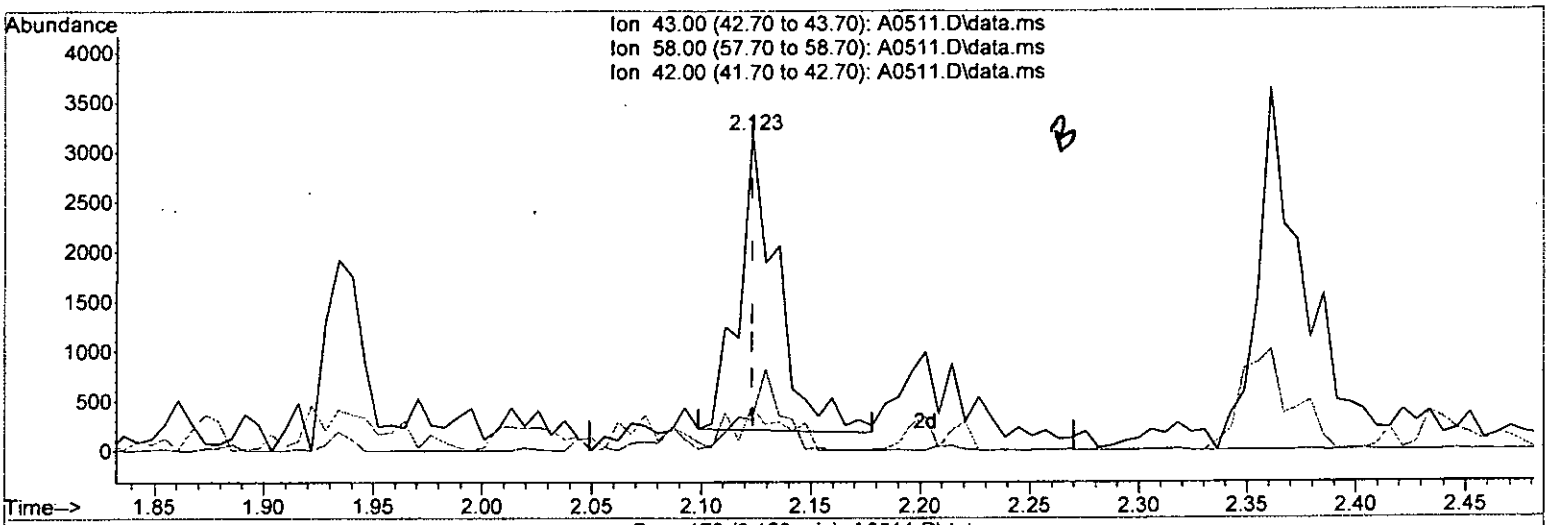
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
98)	4-Chlorotoluene	10.268	91	30511	0.93 ug/L	89
99)	1,3,5-Trimethylbenzene	10.262	105	27724	0.86 ug/L	93
100)	tert-Butylbenzene	10.518	119	23080	0.86 ug/L	98
101)	1,2,4-Trimethylbenzene	10.567	105	26412	0.81 ug/L	83
102)	3,4-Dichlorobenzotrifl...	10.621	214	8746	0.90 ug/L	96
103)	sec-Butylbenzene	10.701	105	31710	0.86 ug/L	97
104)	p-Isopropyltoluene	10.823	119	26791	0.83 ug/L	91
105)	1,3-Dclbenz	10.786	146	17557	0.88 ug/L	85
106)	1,4-Dclbenz	10.853	146	18590	0.92 ug/L	95
107)	2,4-Dichlorobenzotrifl...	10.914	214	7303	0.84 ug/L	92
108)	2,5-Dichlorobenzotrifl...	10.945	214	8960	0.90 ug/L	80
109)	n-Butylbenzene	11.152	91	23029	0.83 ug/L	90
110)	1,2-Dclbenz	11.158	146	17451	0.96 ug/L	96
111)	1,2-Dibromo-3-chloropr...	11.719	157	856	0.75 ug/L #	78
112)	Trielution Dichlorotol...	11.816	125	39746	2.69 ug/L	96
113)	1,3,5-Trichlorobenzene	11.853	180	11246	0.91 ug/L	85
114)	Coelution Dichlorotoluene	12.078	125	28070	1.87 ug/L	93
115)	1,2,4-Tcbenzene	12.249	180	9437	0.93 ug/L	95
116)	Hexachlorobt	12.335	225	4054	0.84 ug/L	99
117)	Naphthalen	12.414	128	14291	0.92 ug/L	88
118)	1,2,3-Tclbenzene	12.536	180	6572	0.95 ug/L	92
119)	2,4,5-Trichlorotoluene	12.956	159	3474	0.92 ug/L	90
120)	2,3,6-Trichlorotoluene	13.023	159	4458	1.19 ug/L	88

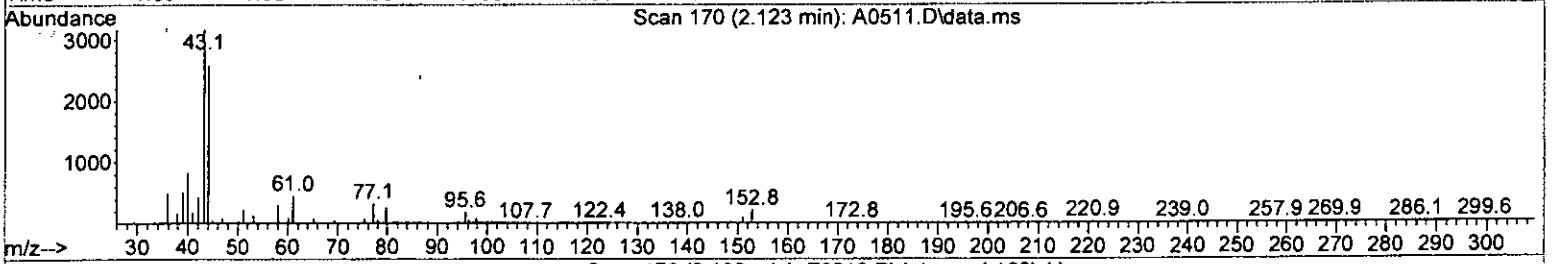
(#) = qualifier out of range (m) = manual integration (+) = signals summed

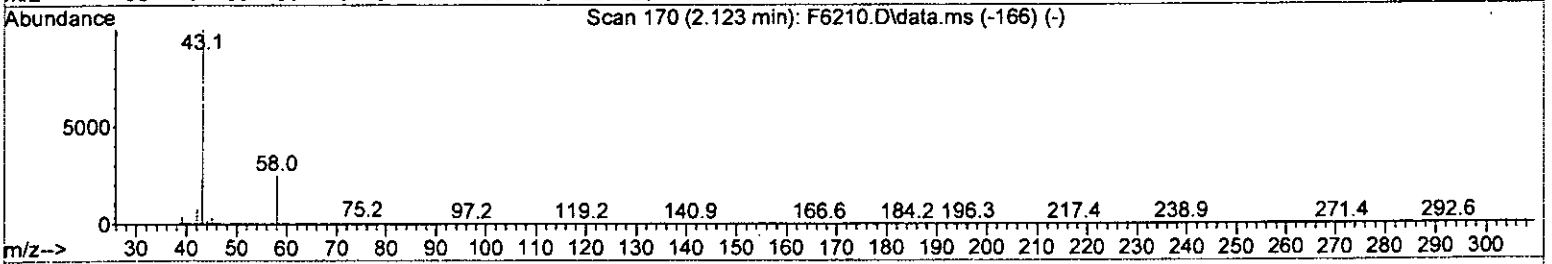
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(15) Acetone (P)

2.123min (-0.000) 1.77 ug/L

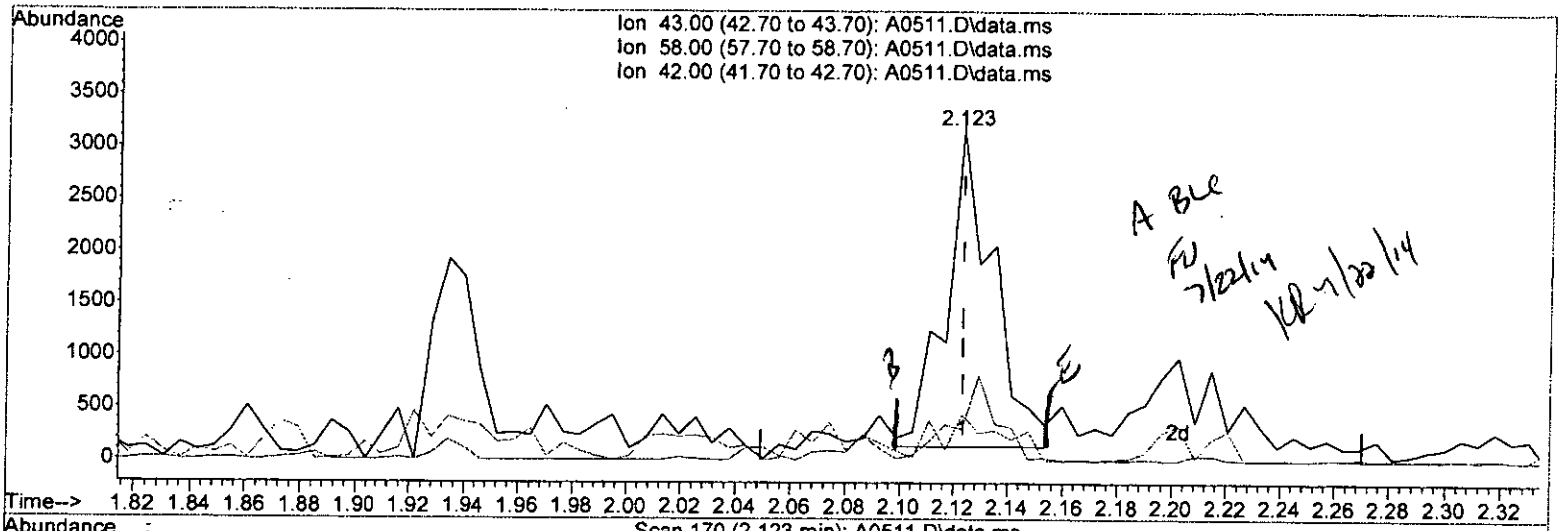
response 3648

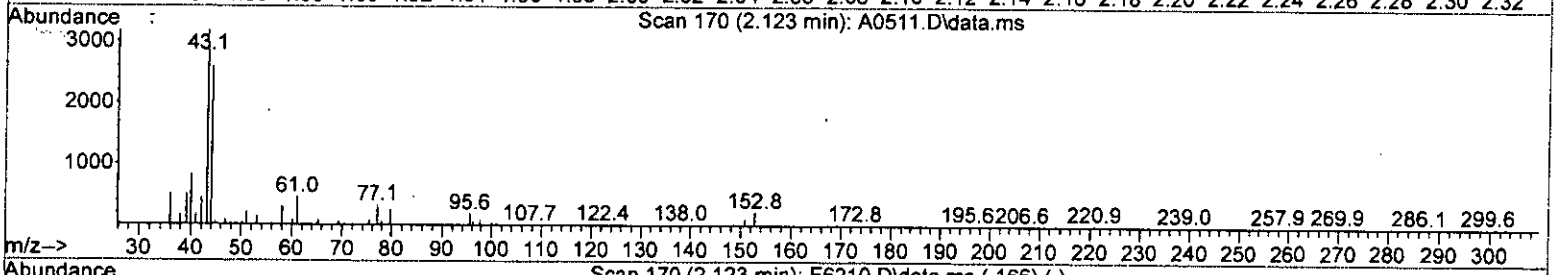
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	9.56
42.00	7.00	13.82
0.00	0.00	0.00

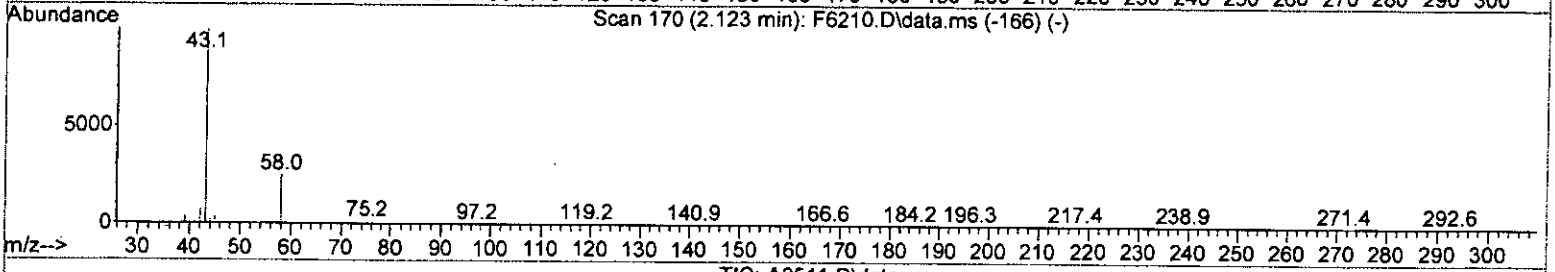
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(15) Acetone (P)

2.123min (-0.000) 1.78 ug/L m

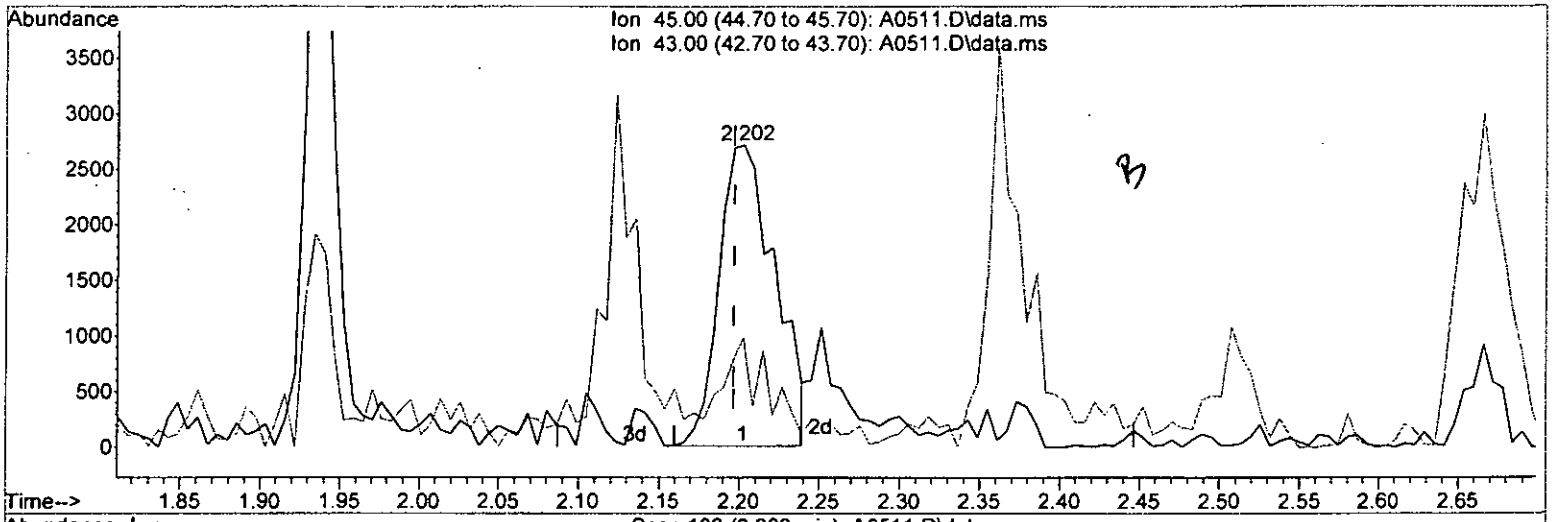
response 3665

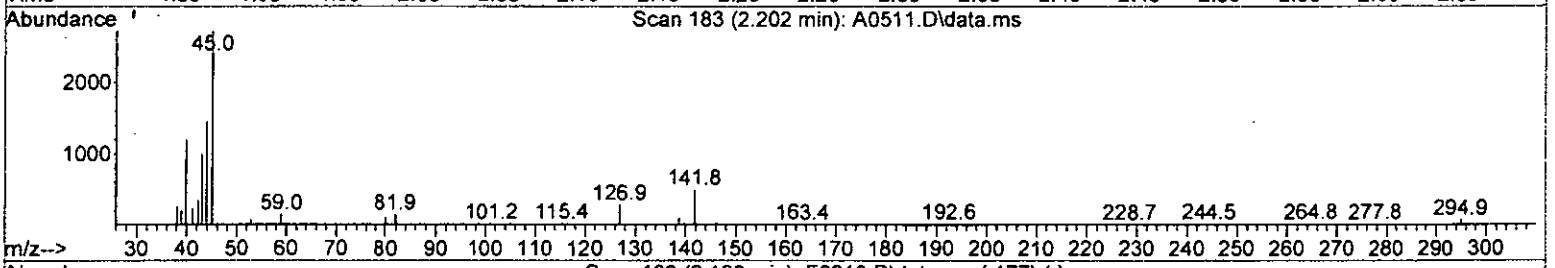
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	9.56
42.00	7.00	13.82
0.00	0.00	0.00

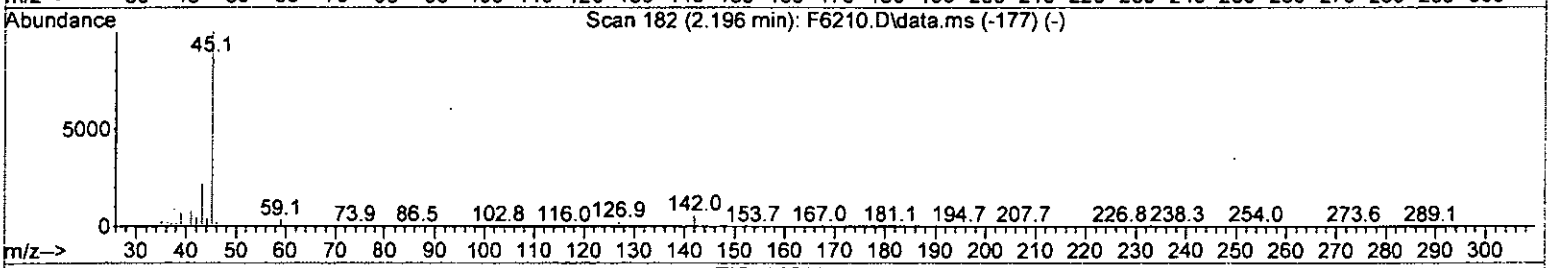
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(16) 2-Propanol

2.202min (+0.006) 18.33 ug/L

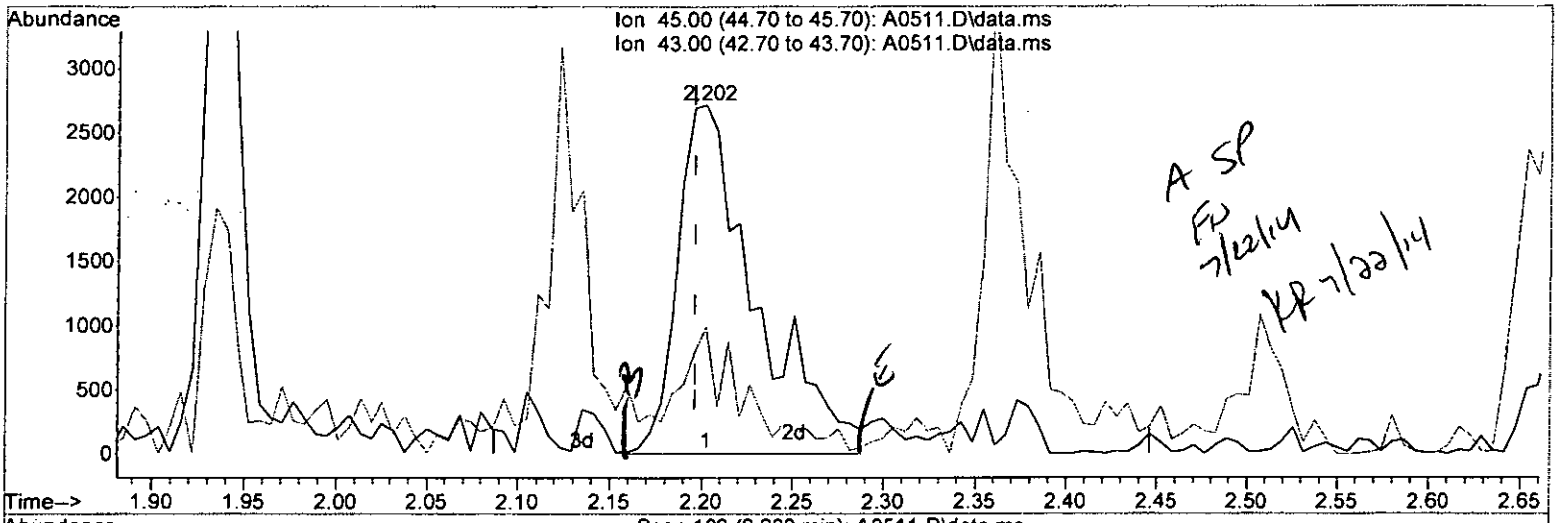
response 6551

Ion	Exp%	Act%
45.00	100	100
43.00	22.80	36.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0511.D\data.ms

(16) 2-Propanol

2.202min (+0.006) 22.39 ug/L m

response 8002

Ion	Exp%	Act%
45.00	100	100
43.00	22.80	36.36
0.00	0.00	0.00
0.00	0.00	0.00

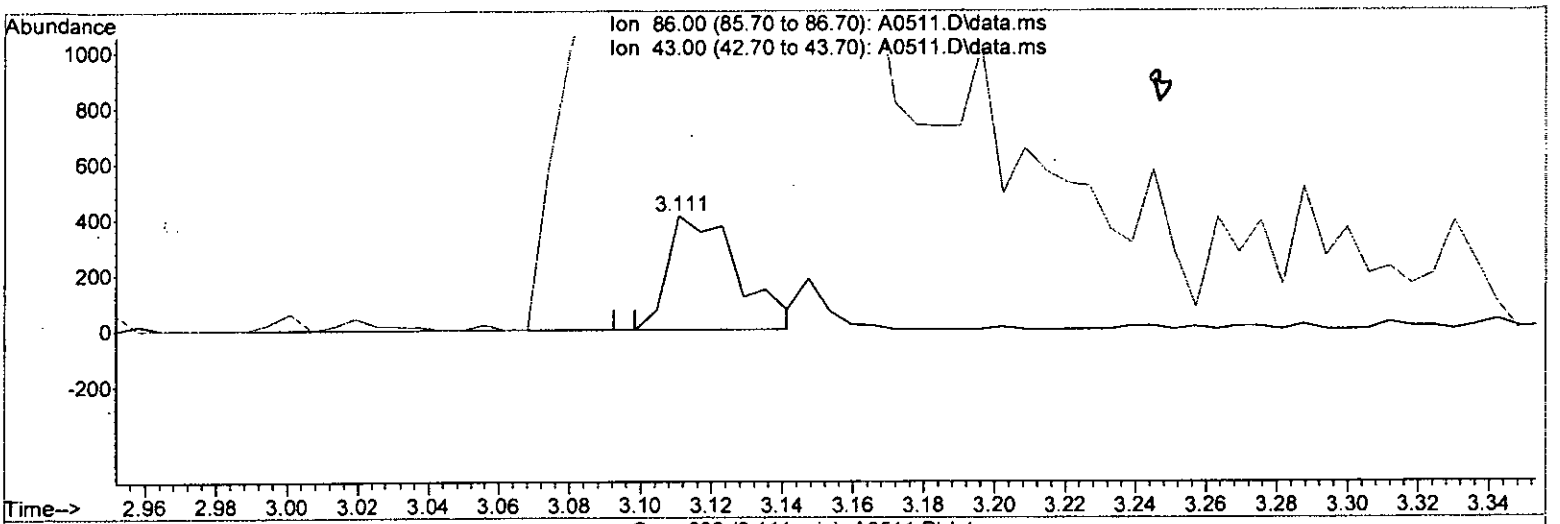
W072114.M Mon Jul 21 15:14:02 2014 MSVO10 Page: 1

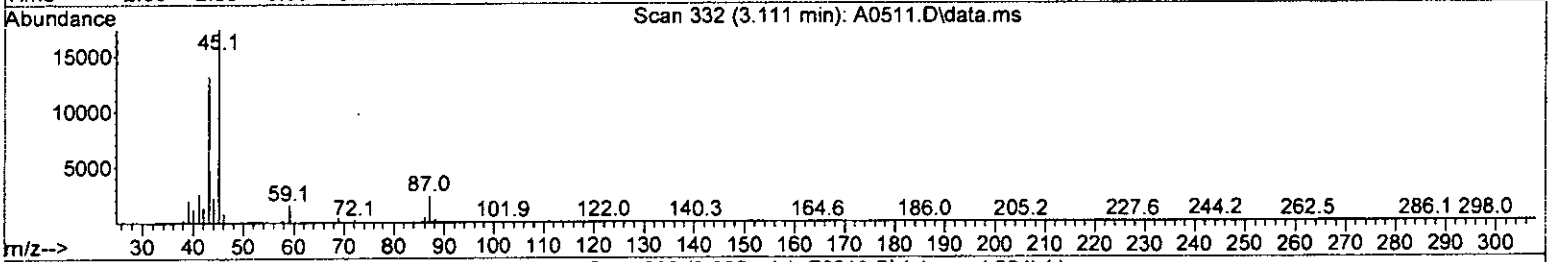
00416

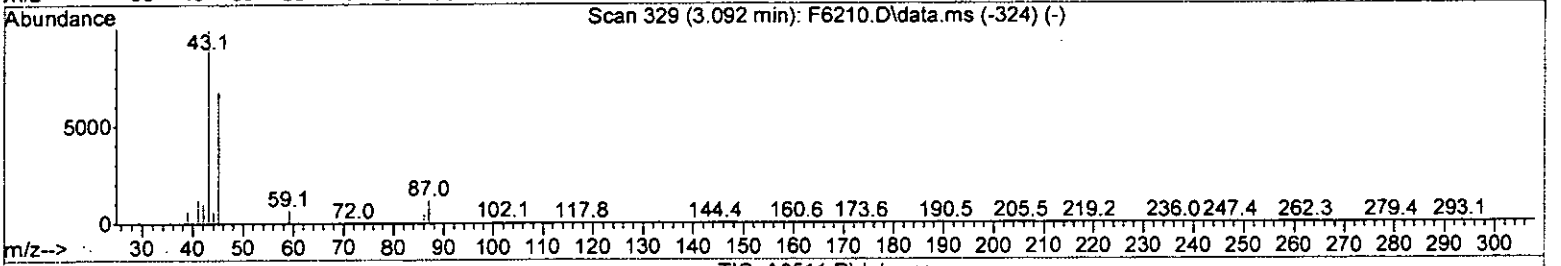
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(29) Vinyl Acetate

3.111min (+0.018) 0.50 ug/L

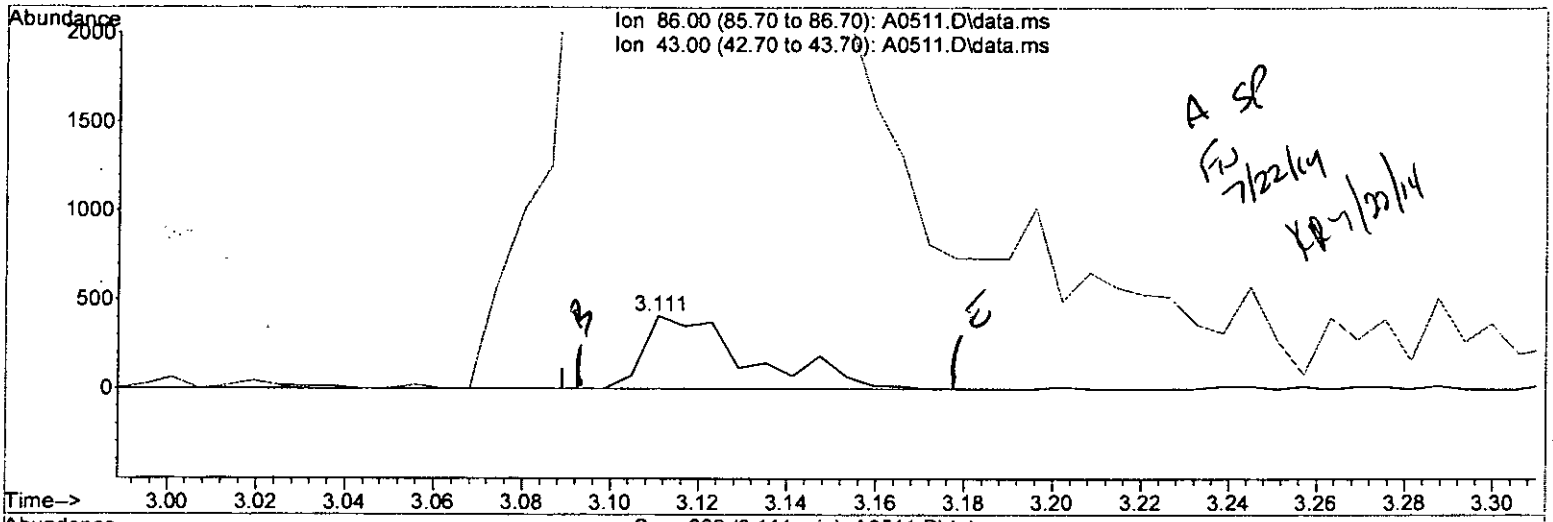
response 562

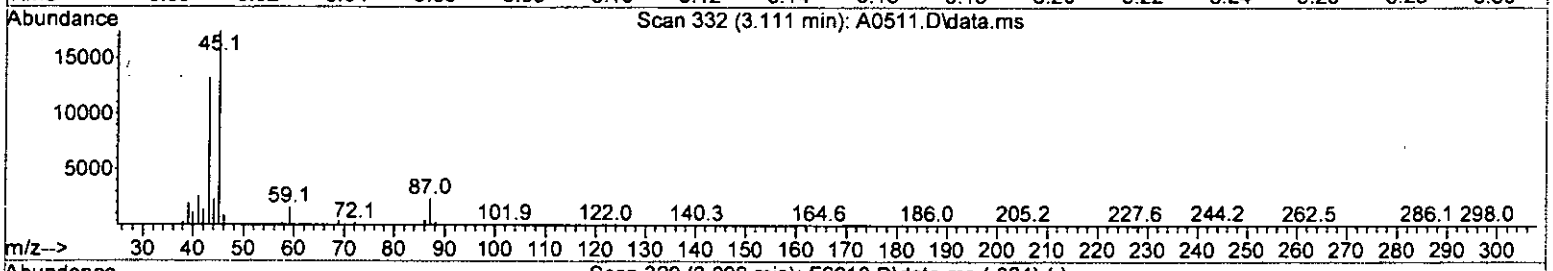
Ion	Exp%	Act%
86.00	100	100
43.00	1729.40	3219.80#
0.00	0.00	0.00
0.00	0.00	0.00

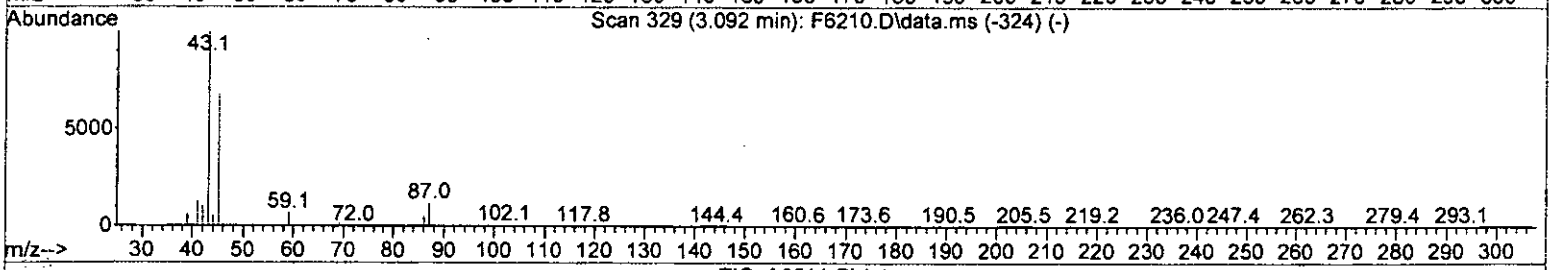
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(29) Vinyl Acetate

3.111min (+0.018) 0.59 ug/L m

response 664

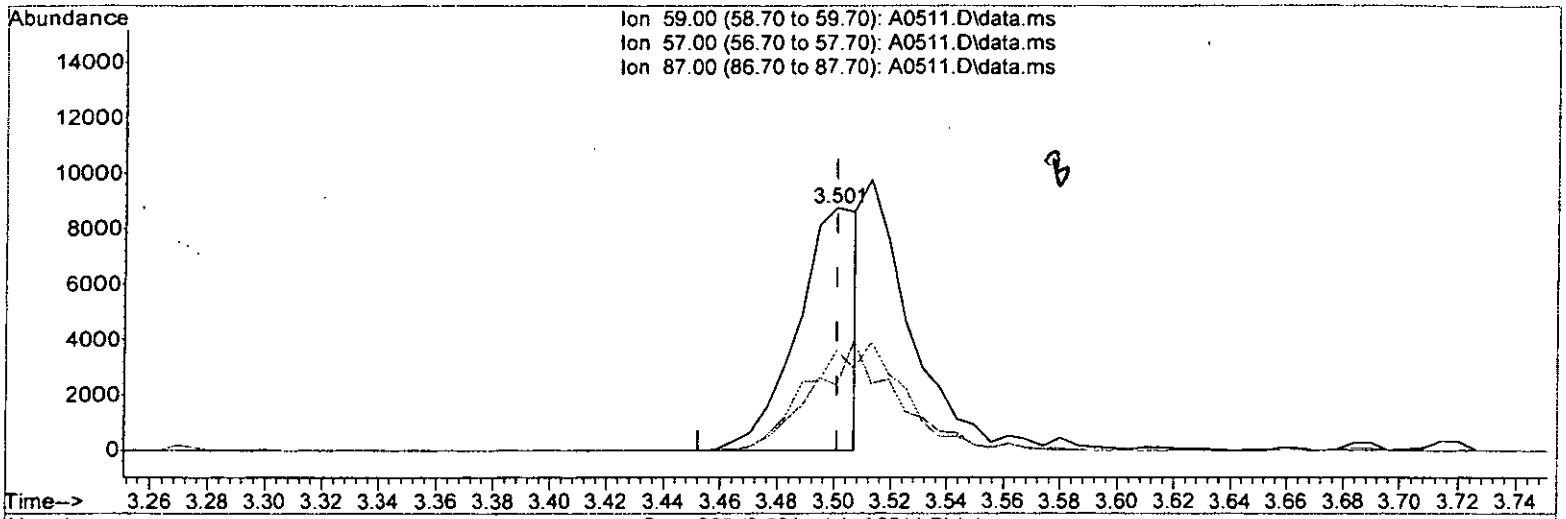
Ion	Exp%	Act%
86.00	100	100
43.00	1729.40	3219.80#
0.00	0.00	0.00
0.00	0.00	0.00

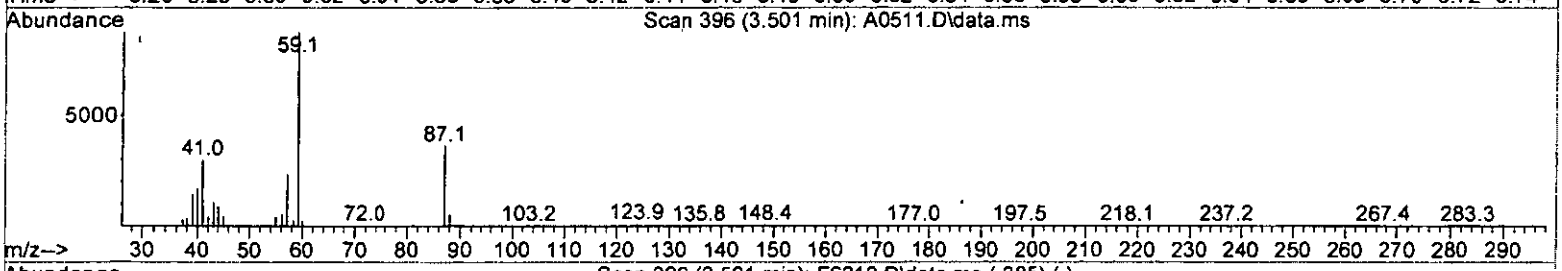
00413

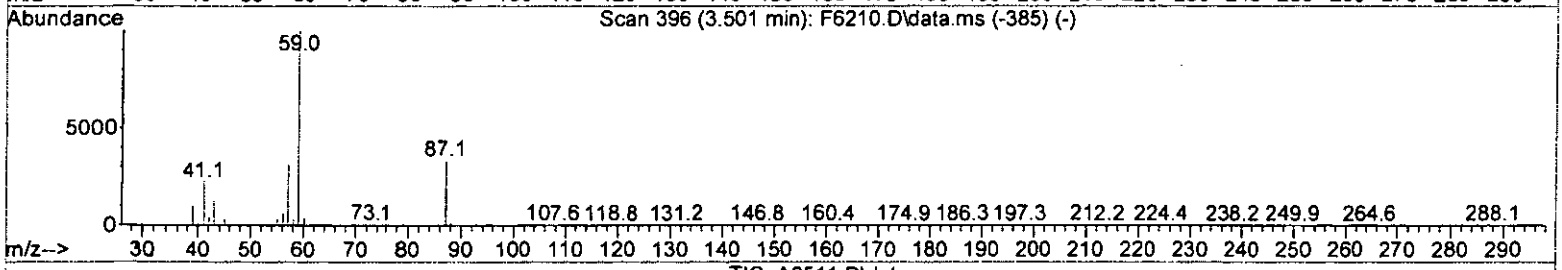
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(32) ETBE

3.501min (-0.000) 0.48 ug/L

response 13112

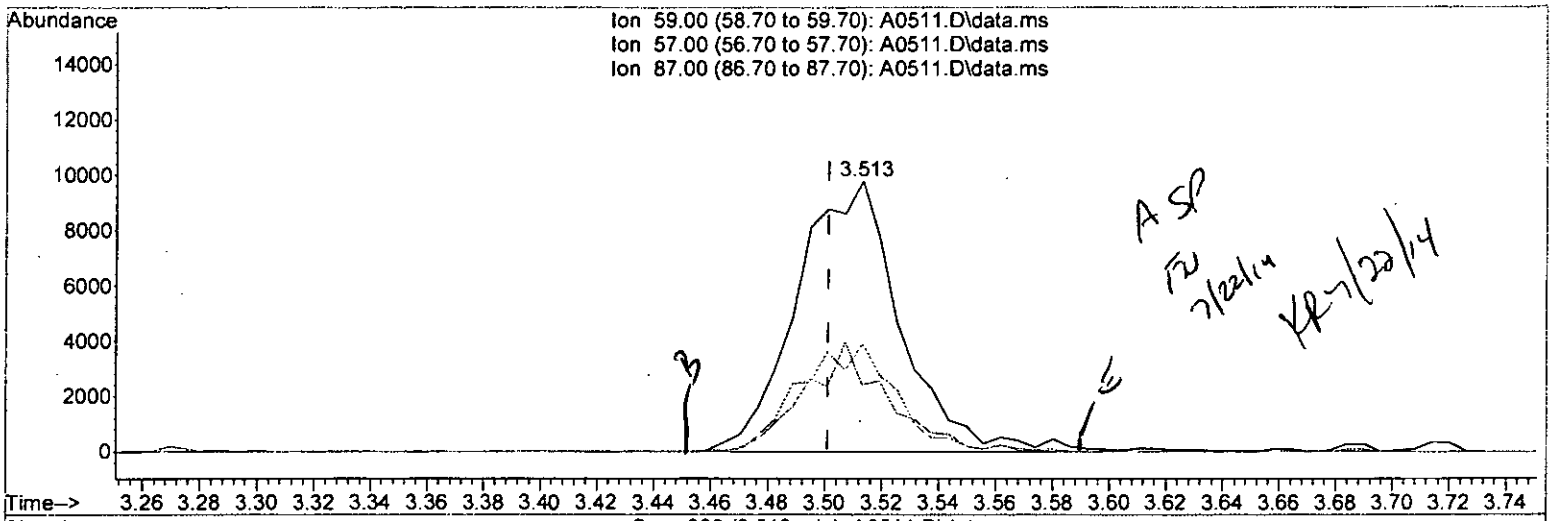
Ion	Exp%	Act%
59.00	100	100
57.00	29.50	26.72
87.00	38.90	41.36
0.00	0.00	0.00

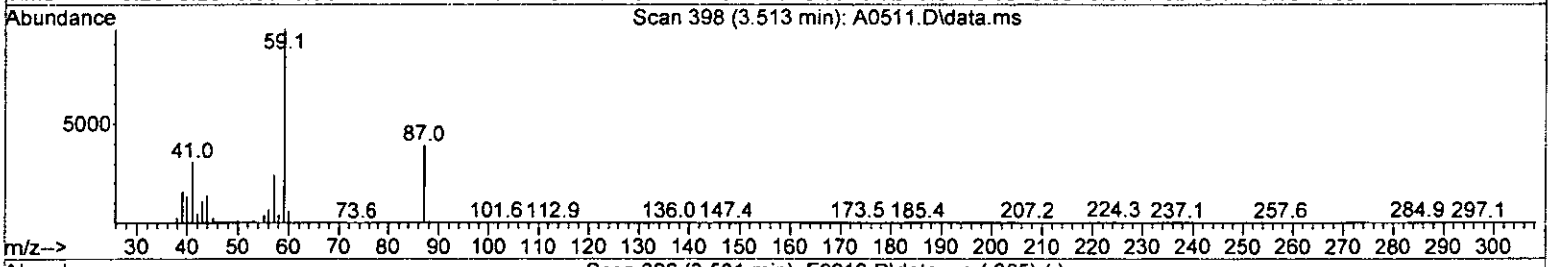
00419

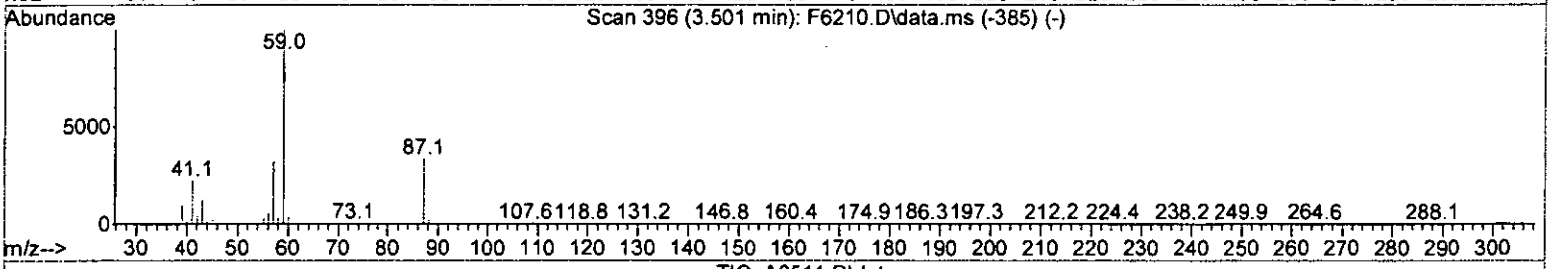
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(32) ETBE

3.513min (+0.012) 0.90 ug/L m

response 24603

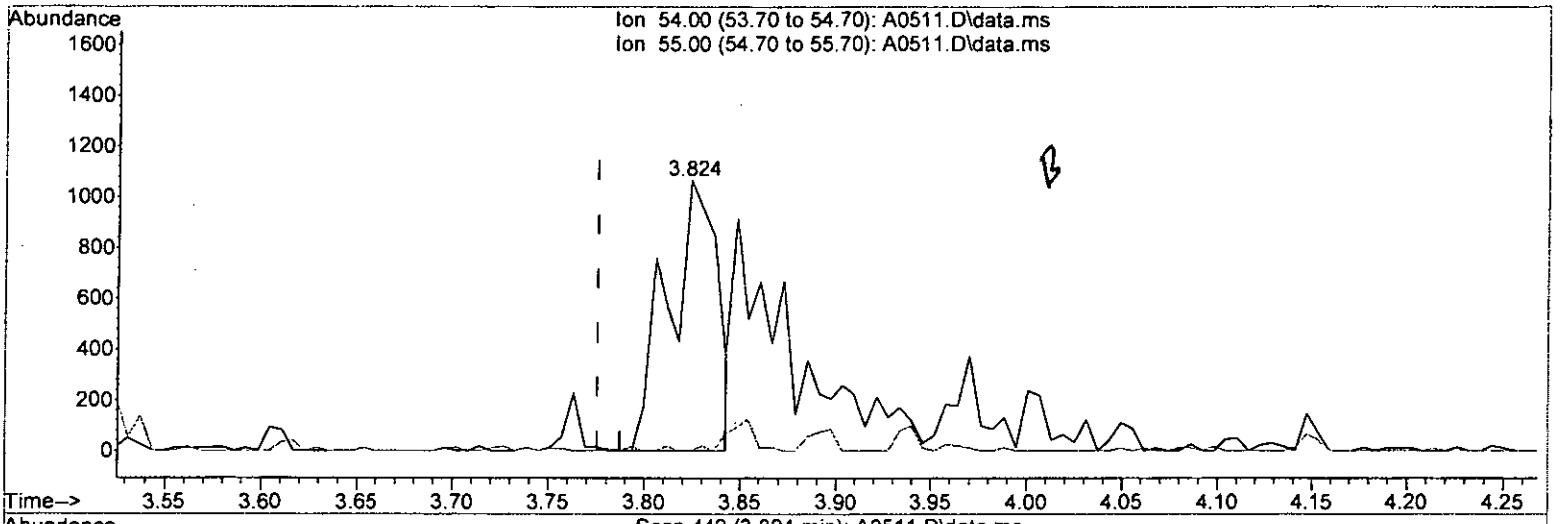
Ion	Exp%	Act%
59.00	100	100
57.00	29.50	24.69
87.00	38.90	39.79
0.00	0.00	0.00

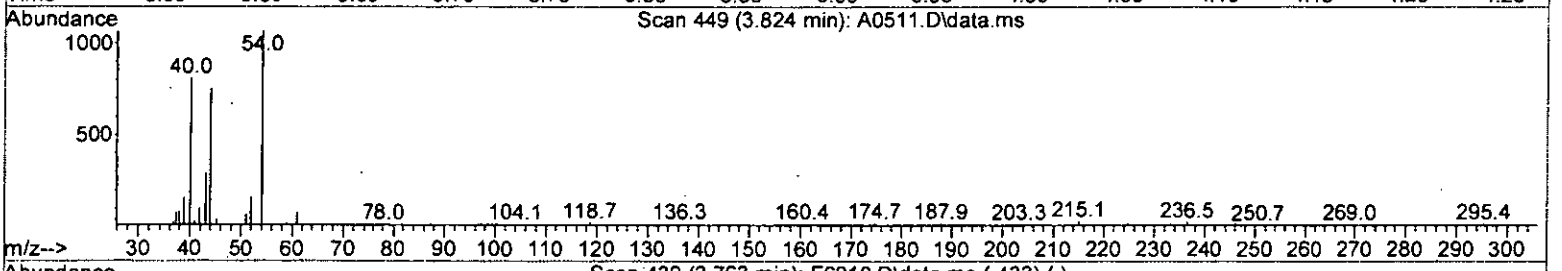
W072114.M Mon Jul 21 15:14:31 2014 MSVO10

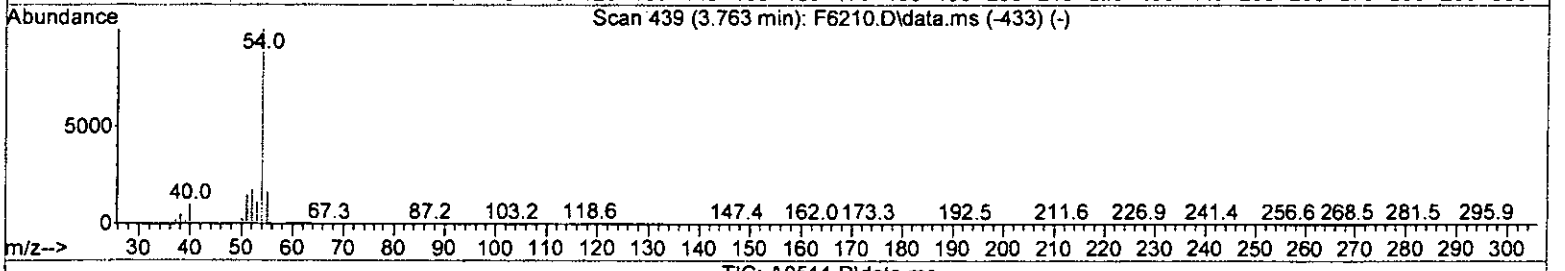
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(36) Propionitrile

3.824min (+0.049) 2.60 ug/L

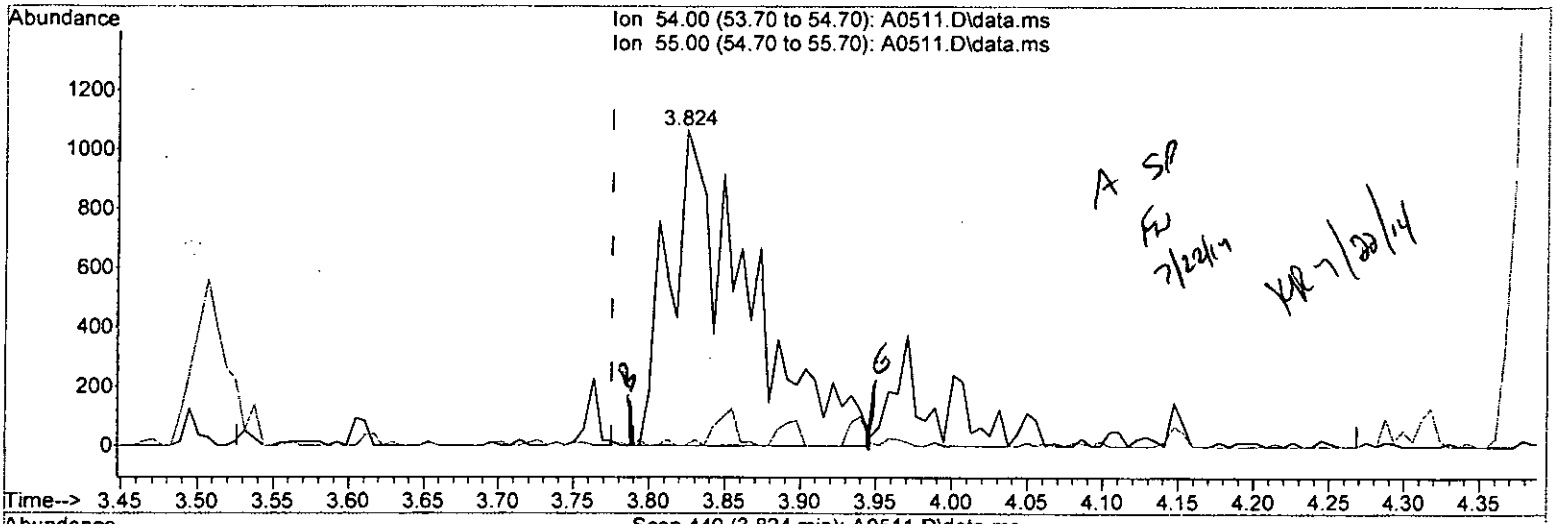
response 1892

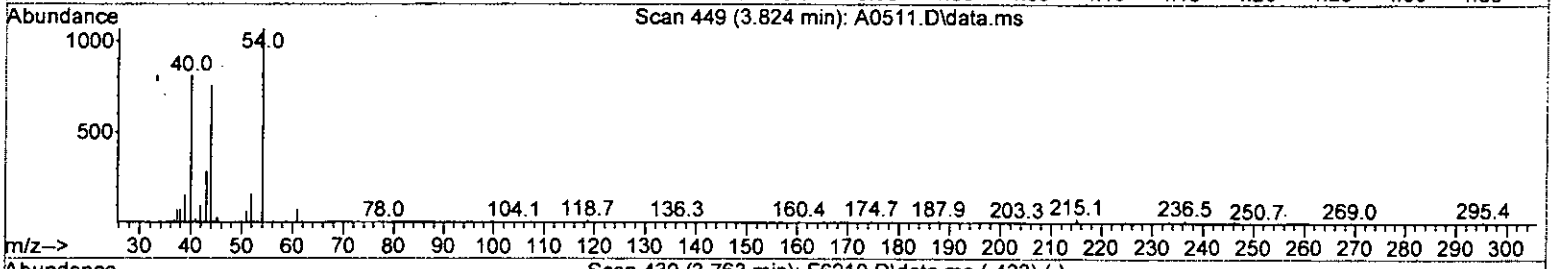
Ion	Exp%	Act%
54.00	100	100
55.00	13.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

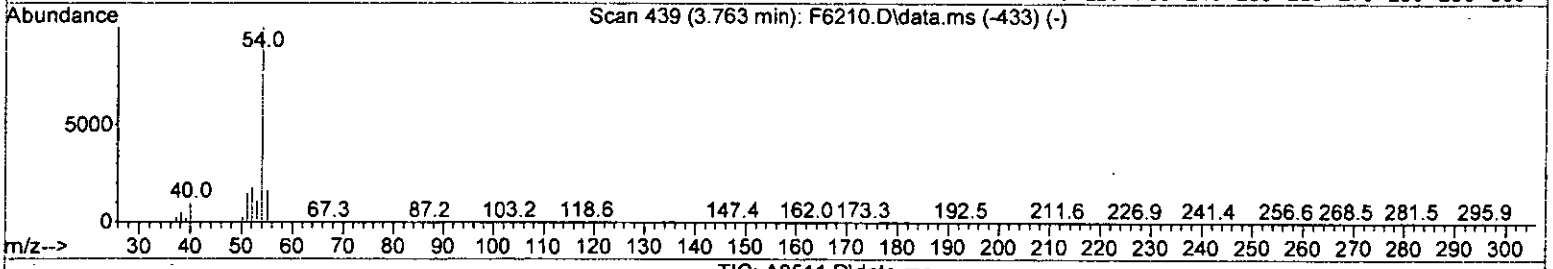
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(36) Propionitrile

3.824min (+0.049) 5.30 ug/L m

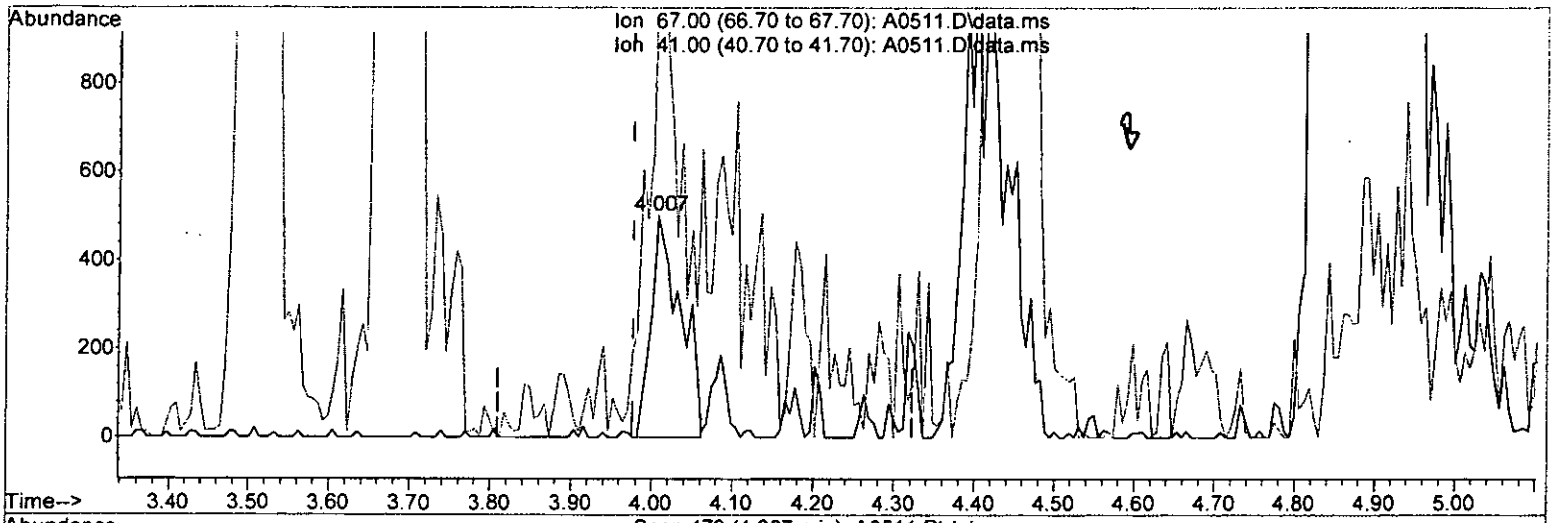
response 3852

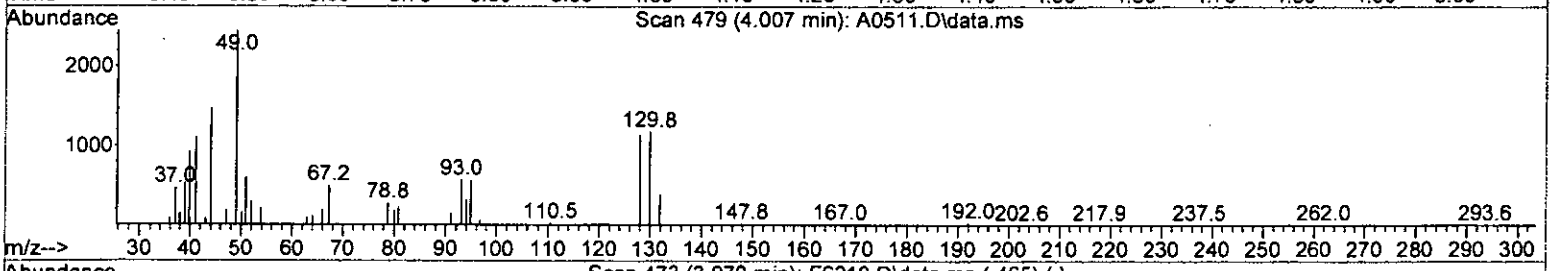
Ion	Exp%	Act%
54.00	100	100
55.00	13.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

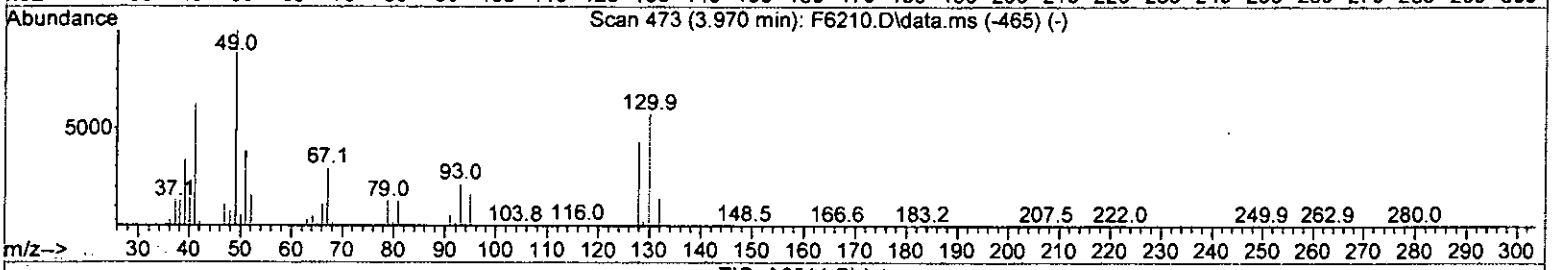
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(38) Methacrylonitrile

4.007min (+0.030) 0.55 ug/L

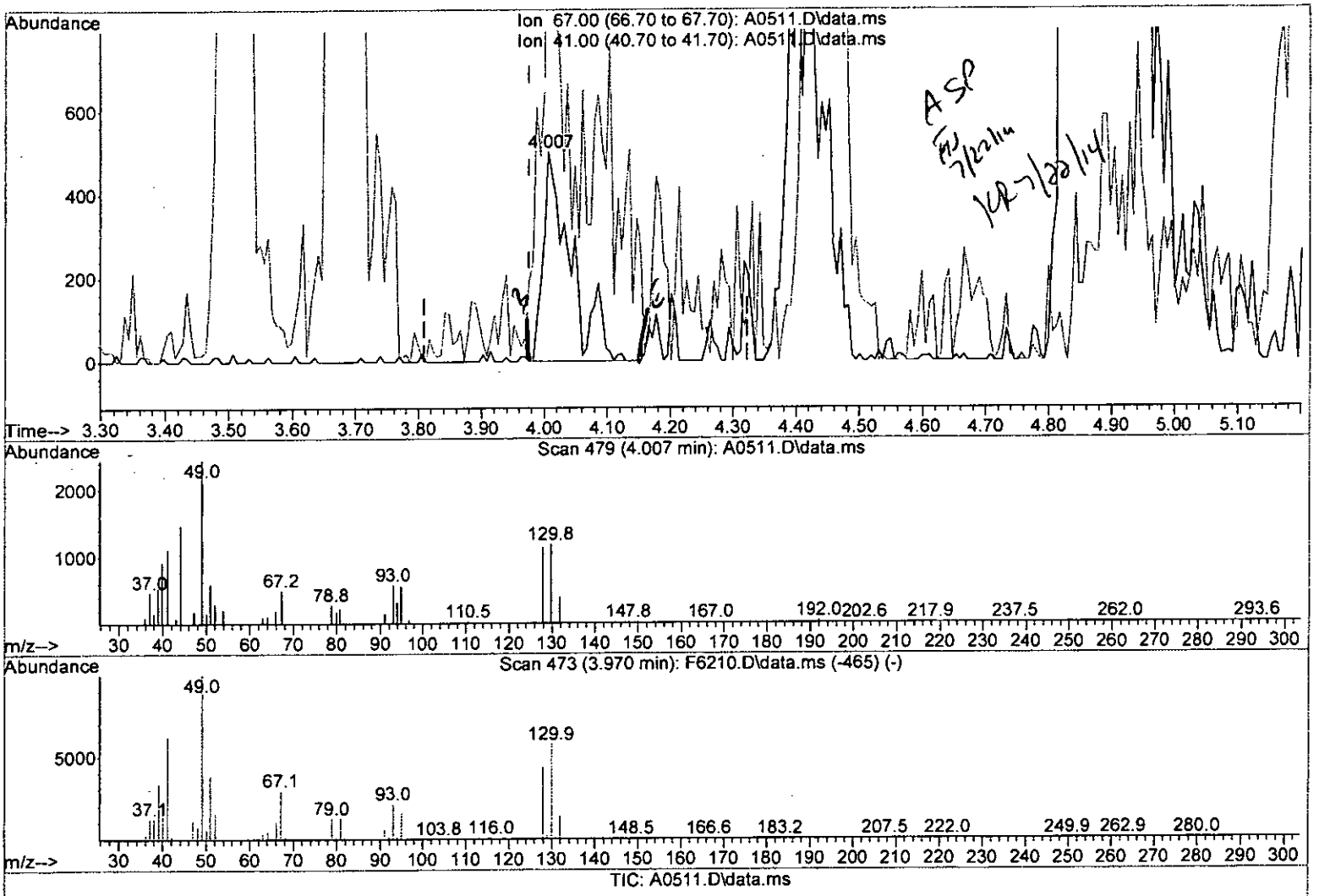
response 1268

Ion	Exp%	Act%
67.00	100	100
41.00	149.10	221.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0511.D\data.ms

(38) Methacrylonitrile

4.007min (+0.030) 0.66 ug/L m

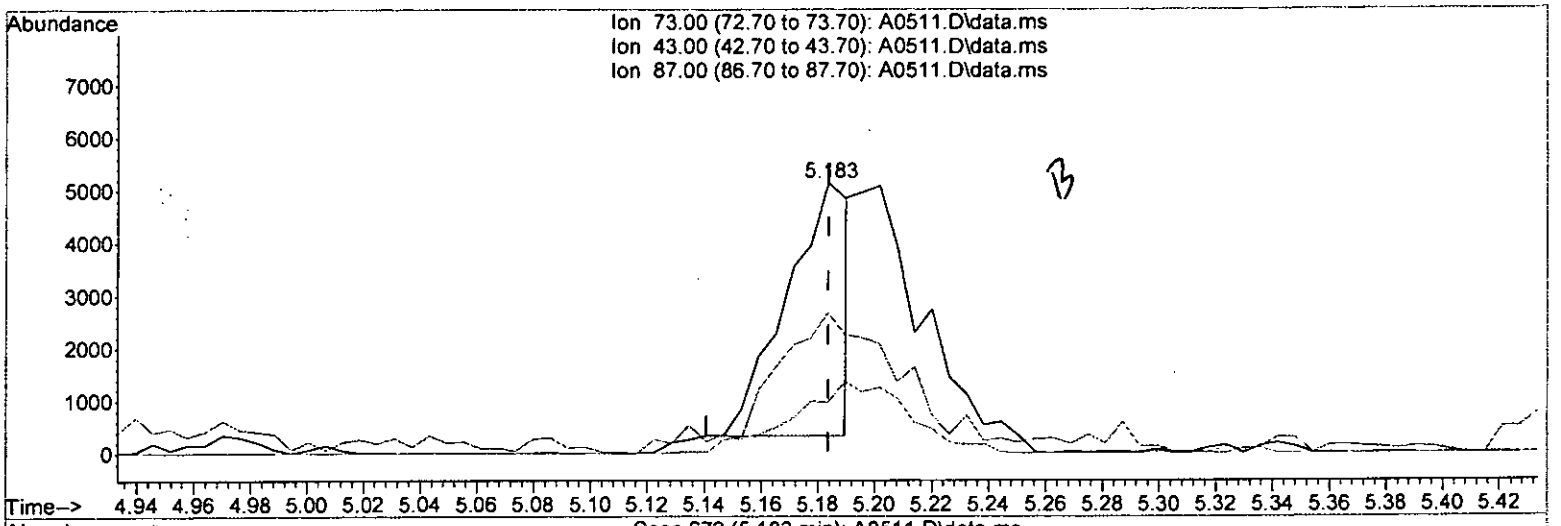
response 1507

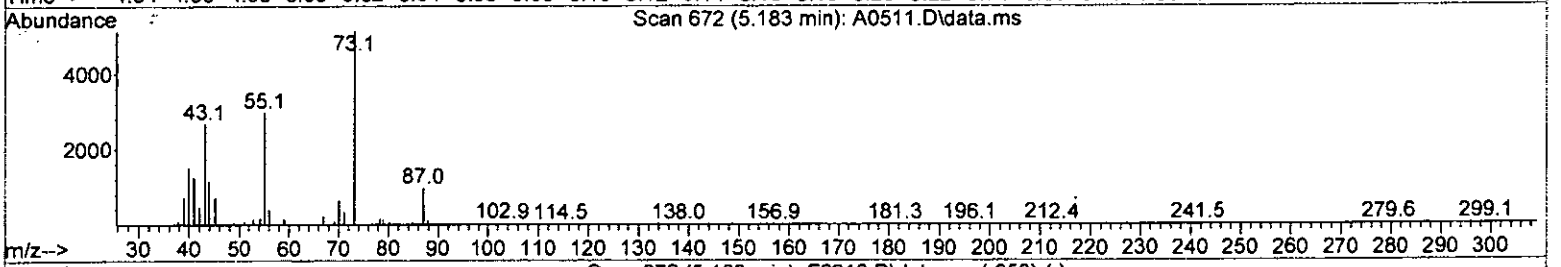
Ion	Exp%	Act%
67.00	100	100
41.00	149.10	221.56#
0.00	0.00	0.00
0.00	0.00	0.00

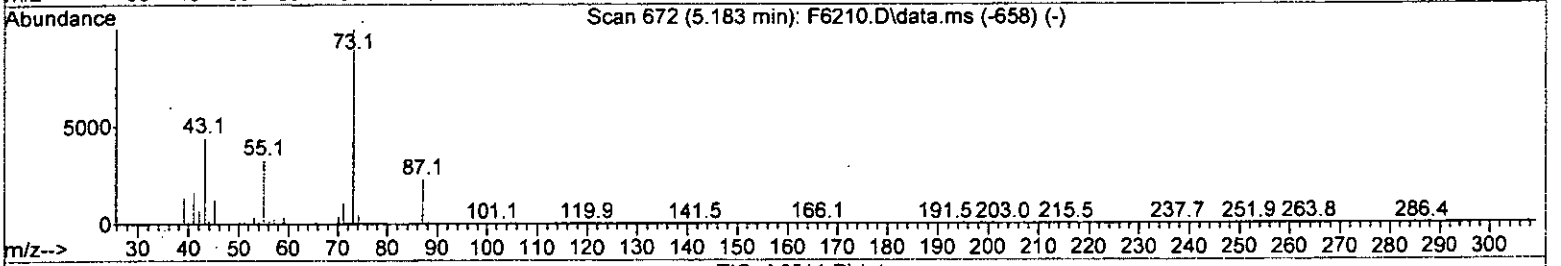
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(42) TAME

5.183min (-0.000) 0.36 ug/L

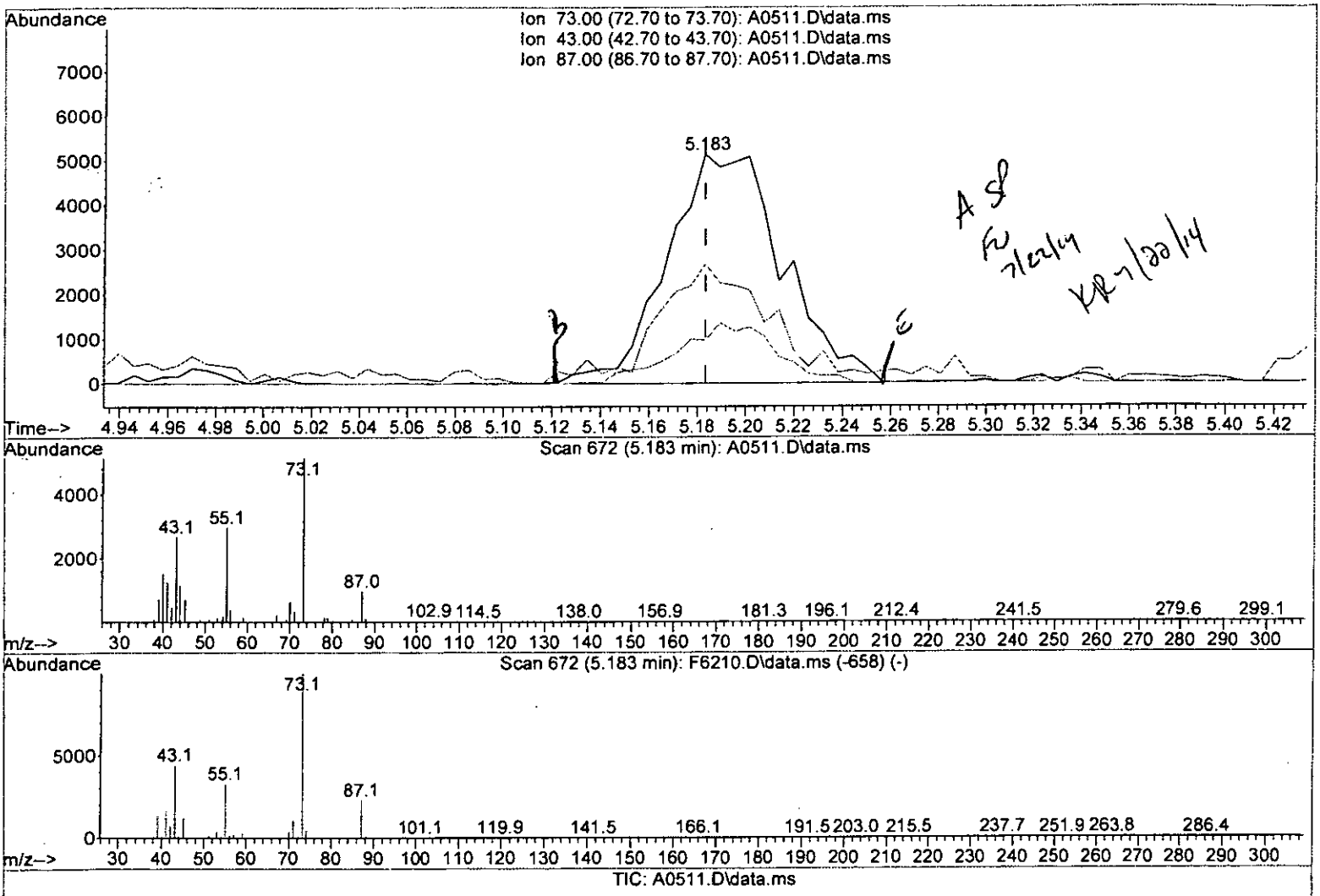
response 7344

Ion	Exp%	Act%
73.00	100	100
43.00	38.40	51.98
87.00	23.80	18.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0511.D\data.ms

(42) TAME

5.183min (-0.000) 0.83 ug/L m

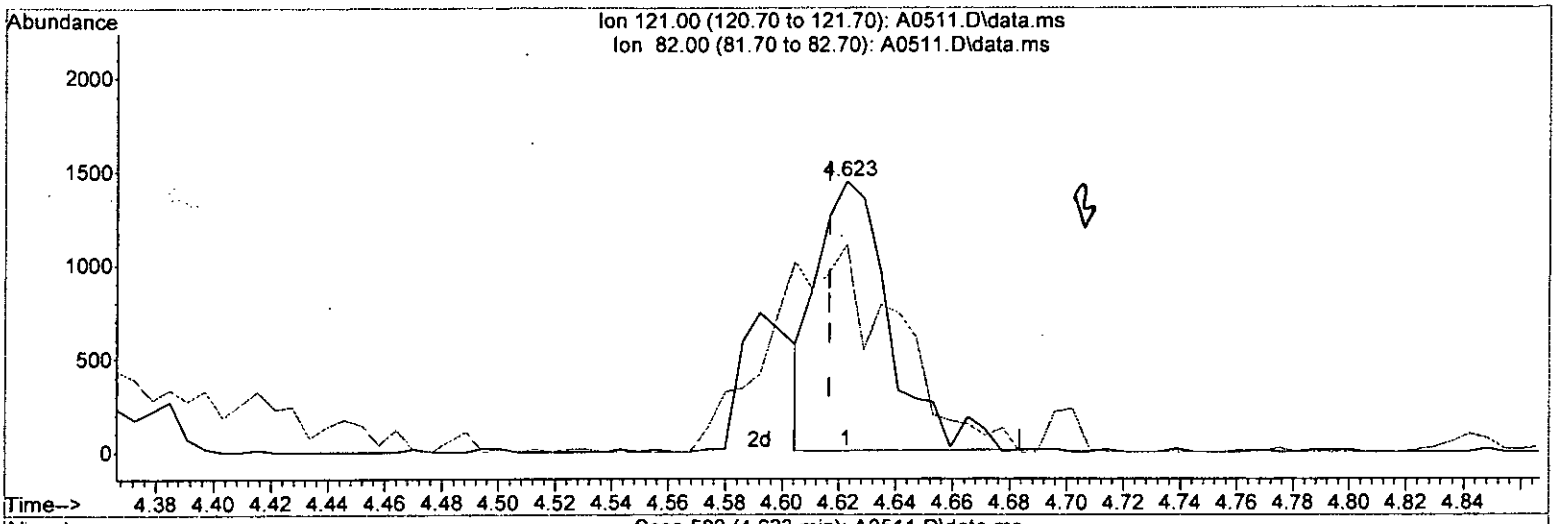
response 17045

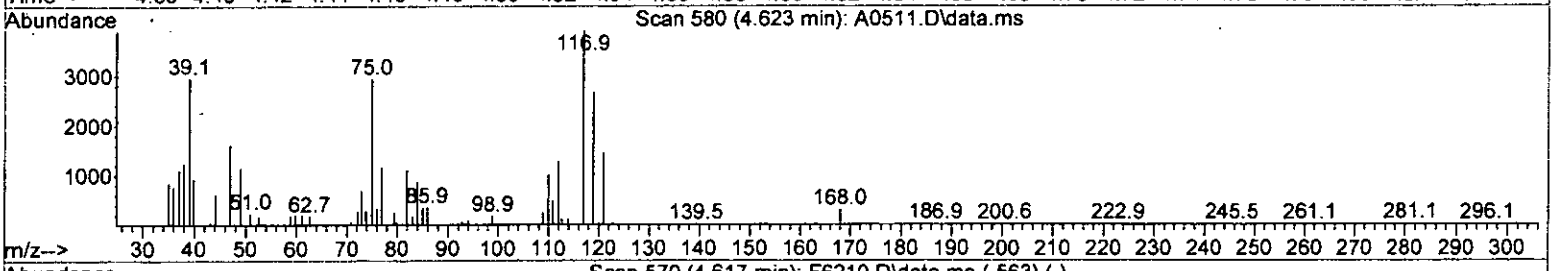
Ion	Exp%	Act%
73.00	100	100
43.00	38.40	51.98
87.00	23.80	18.93
0.00	0.00	0.00

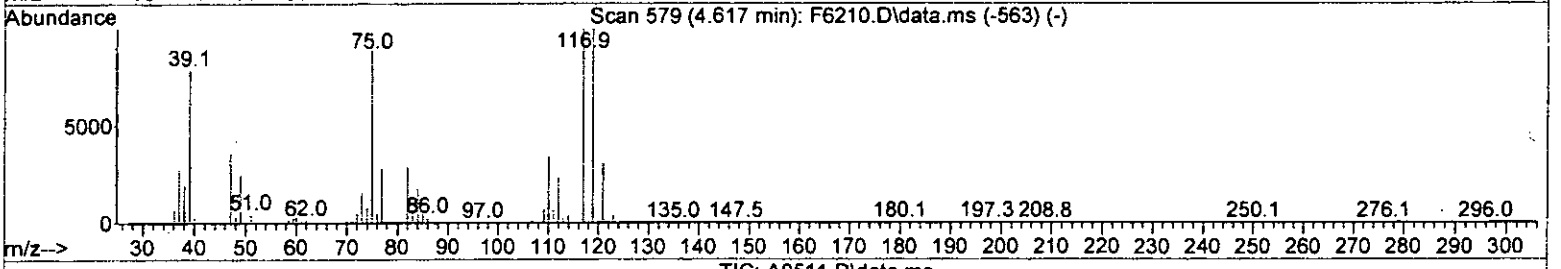
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(46) Carbontetrachloride (P)

4.623min (+0.006) 0.69 ug/L

response 2557

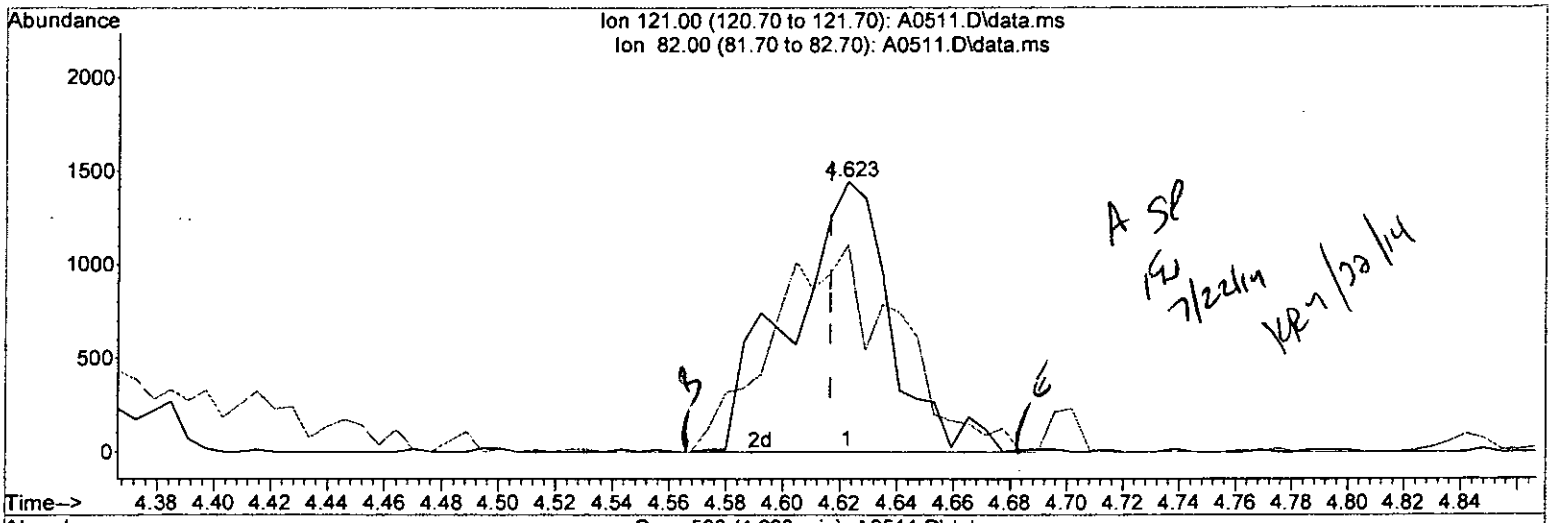
Ion	Exp%	Act%
121.00	100	100
82.00	93.30	76.52
0.00	0.00	0.00
0.00	0.00	0.00

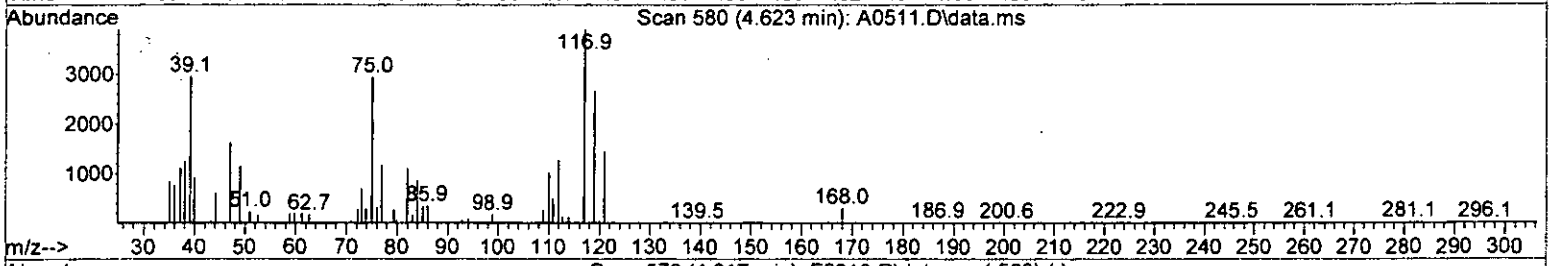
00427

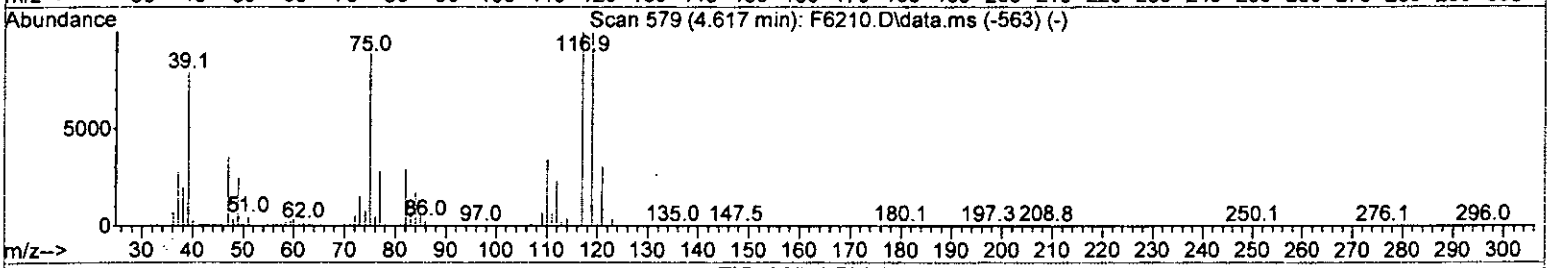
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(46) Carbontetrachloride (P)

4.623min (+0.006) 0.95 ug/L m

response 3532

Ion	Exp%	Act%
121.00	100	100
82.00	93.30	76.52
0.00	0.00	0.00
0.00	0.00	0.00

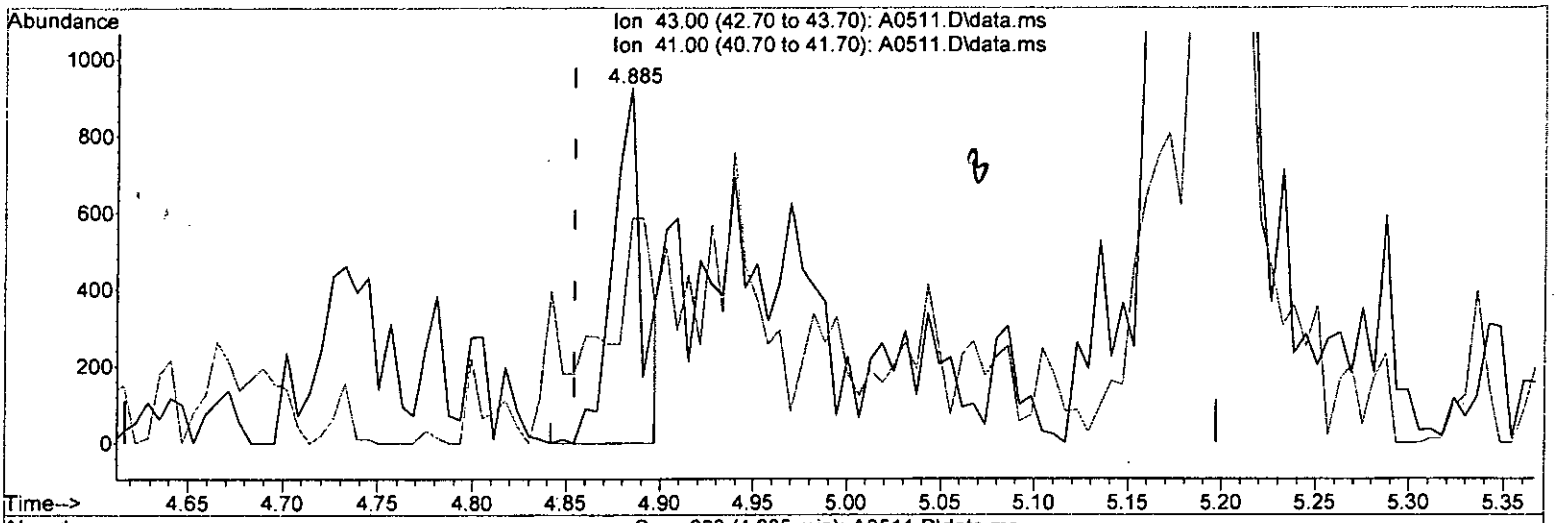
00428

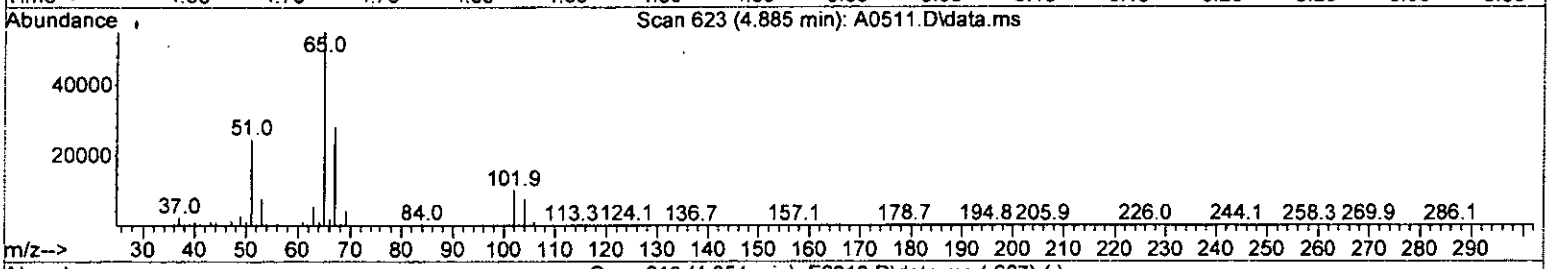
W072114.M Mon Jul 21 15:15:37 2014 MSVO10 Page: 1

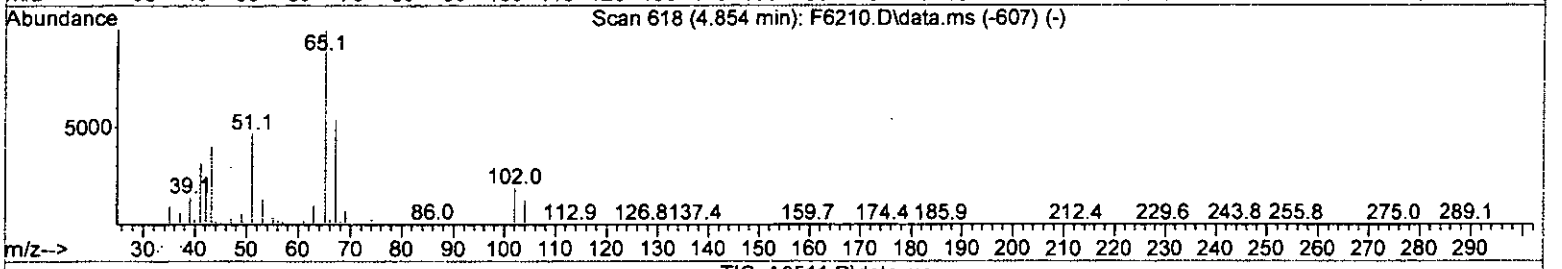
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(51) Iso-Butyl Alcohol

4.885min (+0.030) 3.47 ug/L

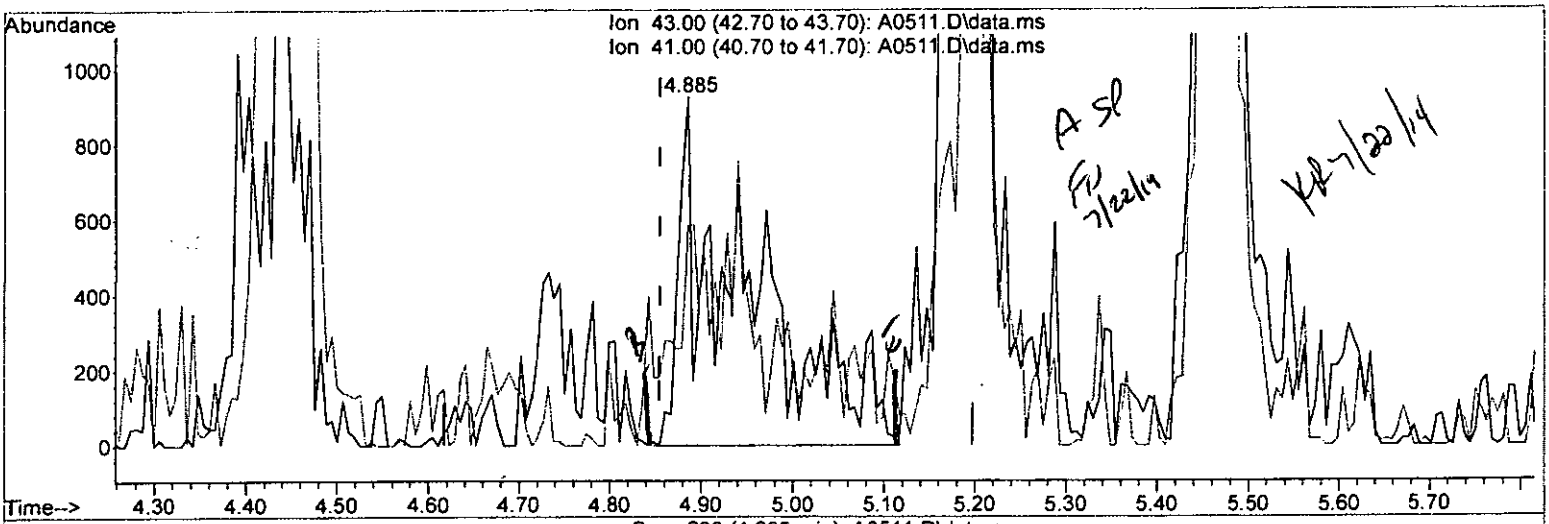
response 1007

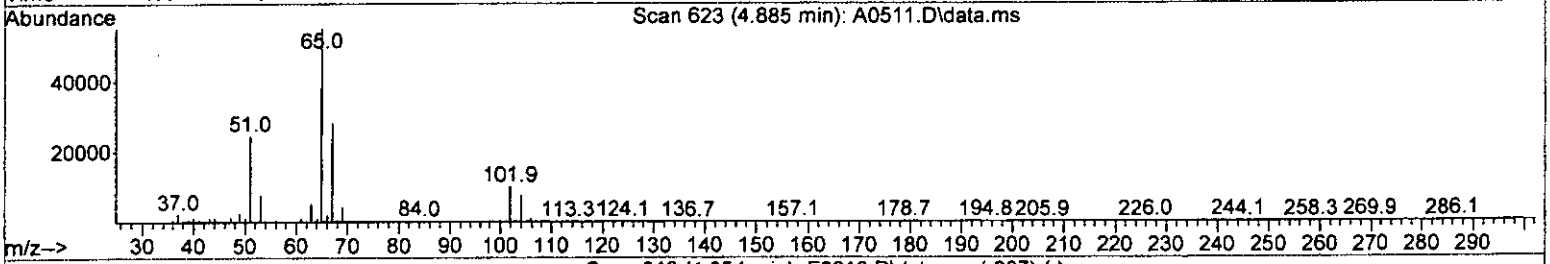
Ion	Exp%	Act%
43.00	100	100
41.00	76.40	63.35
0.00	0.00	0.00
0.00	0.00	0.00

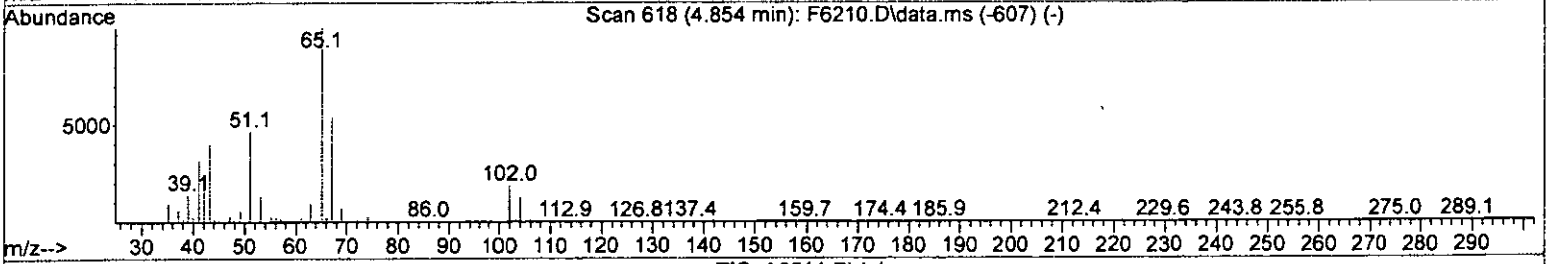
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(51) Iso-Butyl Alcohol

4.885min (+0.030) 16.14 ug/L m

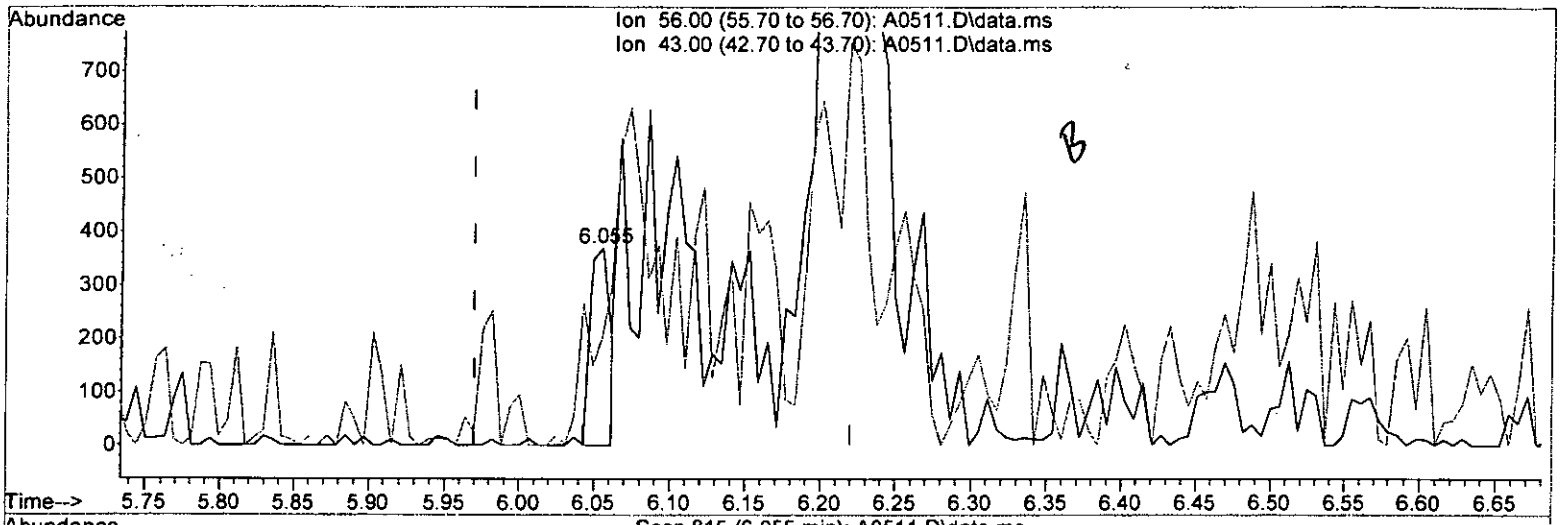
response 4685

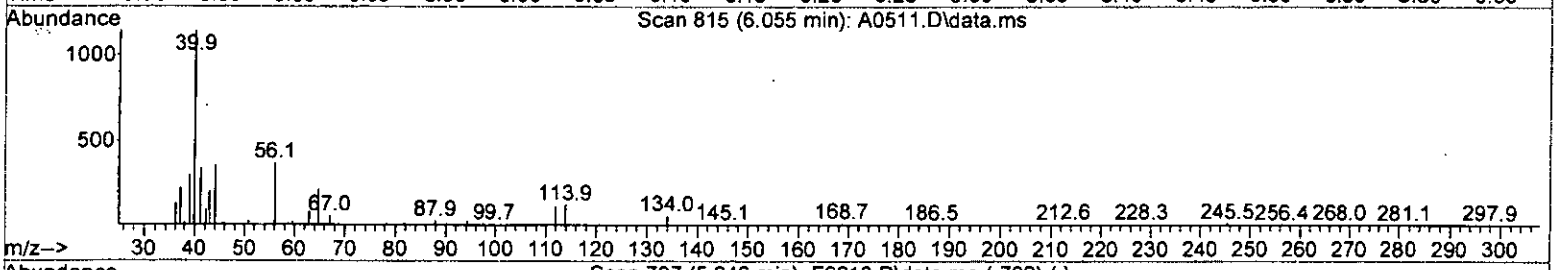
Ion	Exp%	Act%
43.00	100	100
41.00	76.40	63.35
0.00	0.00	0.00
0.00	0.00	0.00

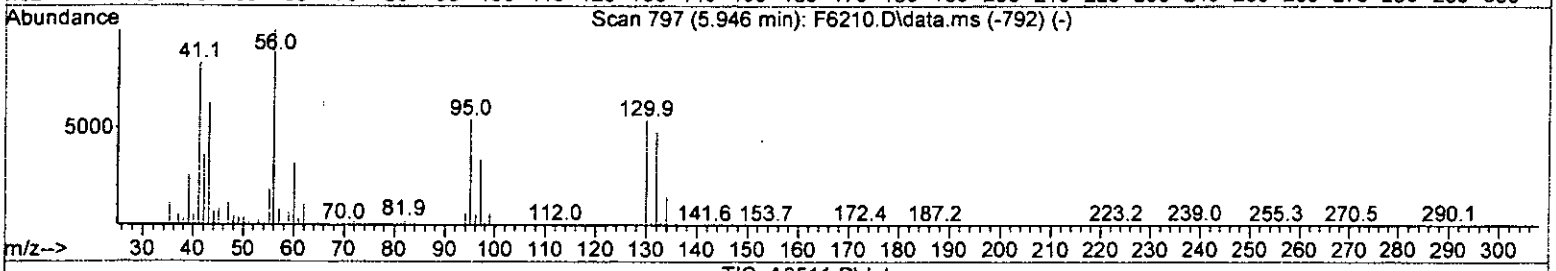
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(53) 1-Butanol

6.055min (+0.085) 2.50 ug/L

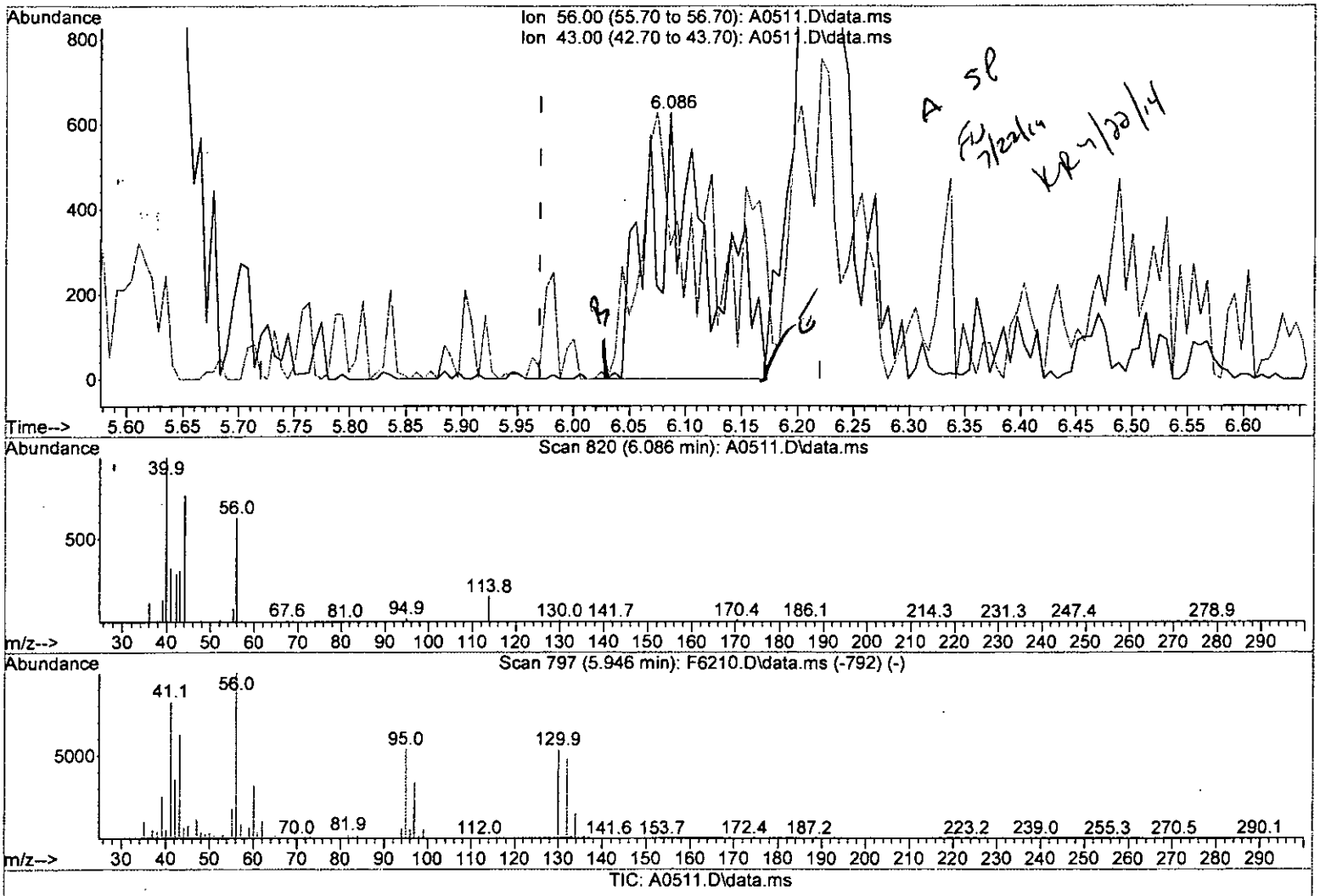
response 339

Ion	Exp%	Act%
56.00	100	100
43.00	56.20	55.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0511.D\data.ms

(53) 1-Butanol

6.086min (+0.116) 16.96 ug/L m

response 2304

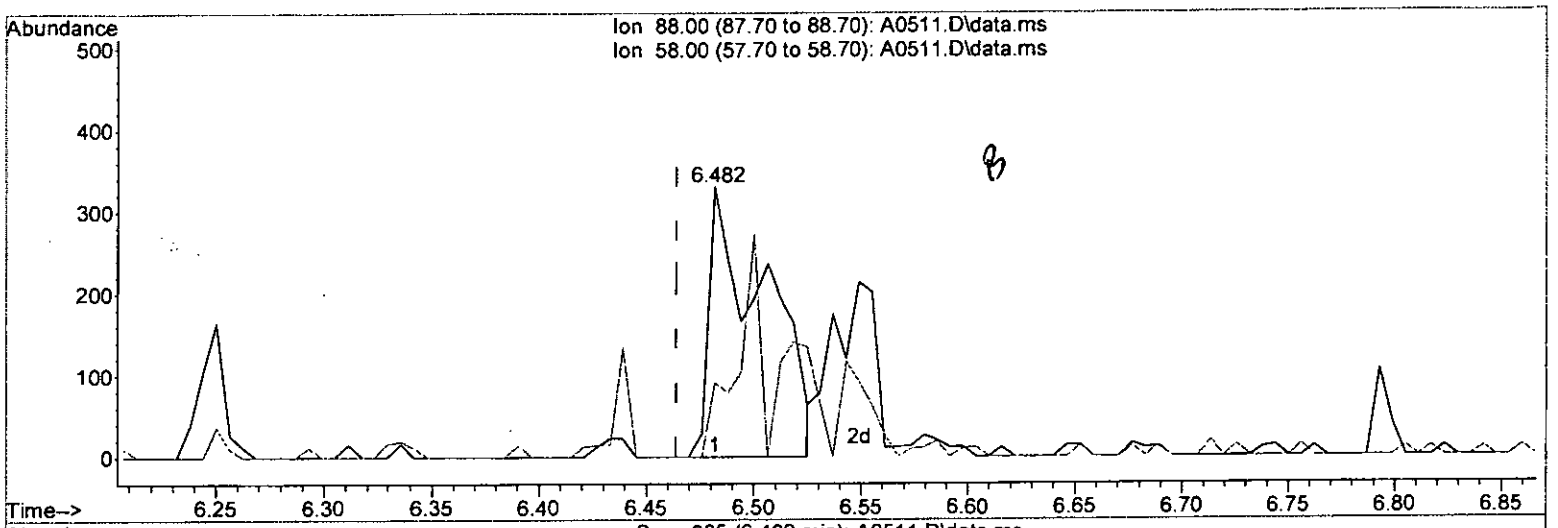
Ion	Exp%	Act%
56.00	100	100
43.00	56.20	49.76
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Mon Jul 21 15:16:37 2014 MSVO10 Page: 1

Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0511.D\data.ms

(58) 1,4-Dioxane

6.482min (+0.018) 11.74 ug/L

response 589

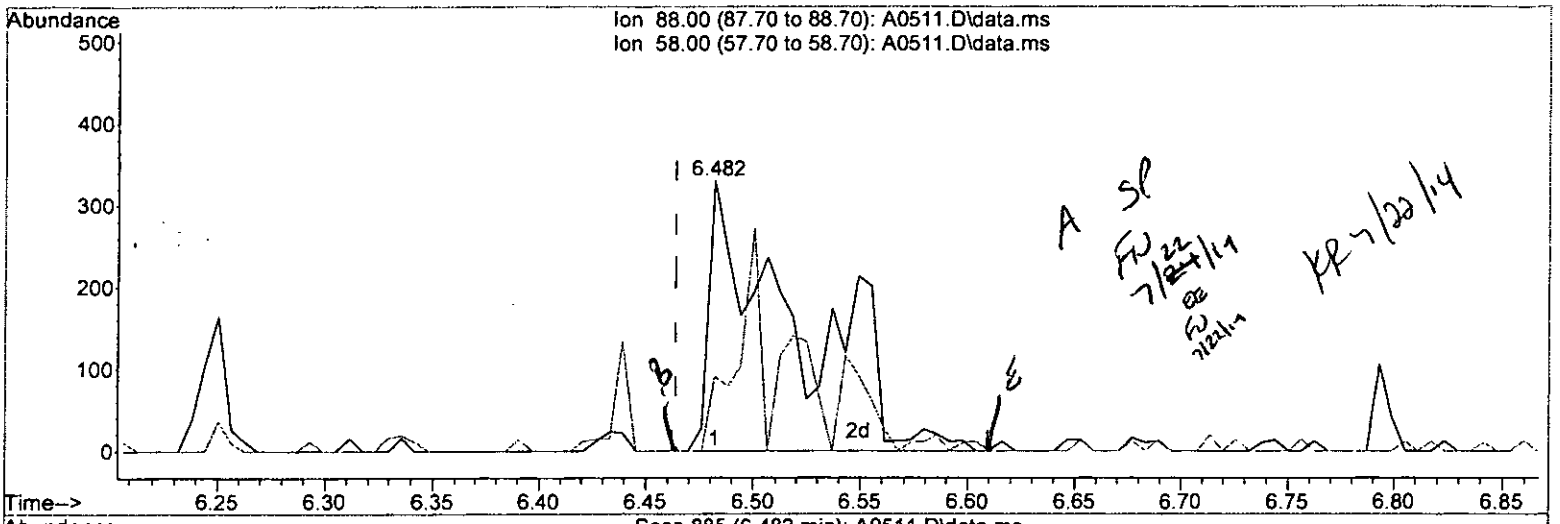
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	27.27#
0.00	0.00	0.00
0.00	0.00	0.00

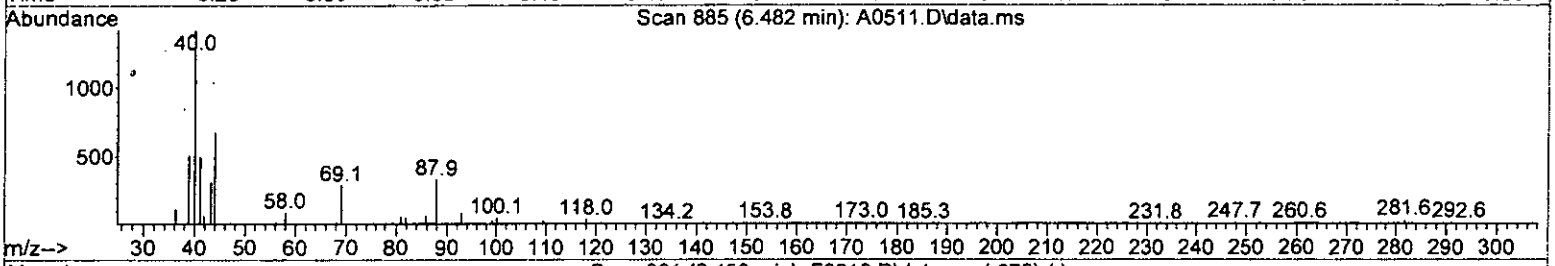
W072114.M Mon Jul 21 15:16:45 2014 MSVO10 Page: 1

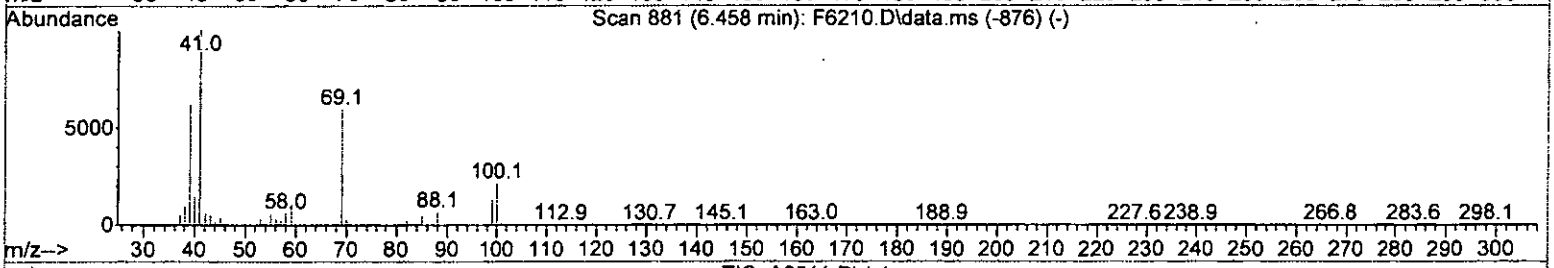
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(58) 1,4-Dioxane

6.482min (+0.018) 18.22 ug/L m

response 914

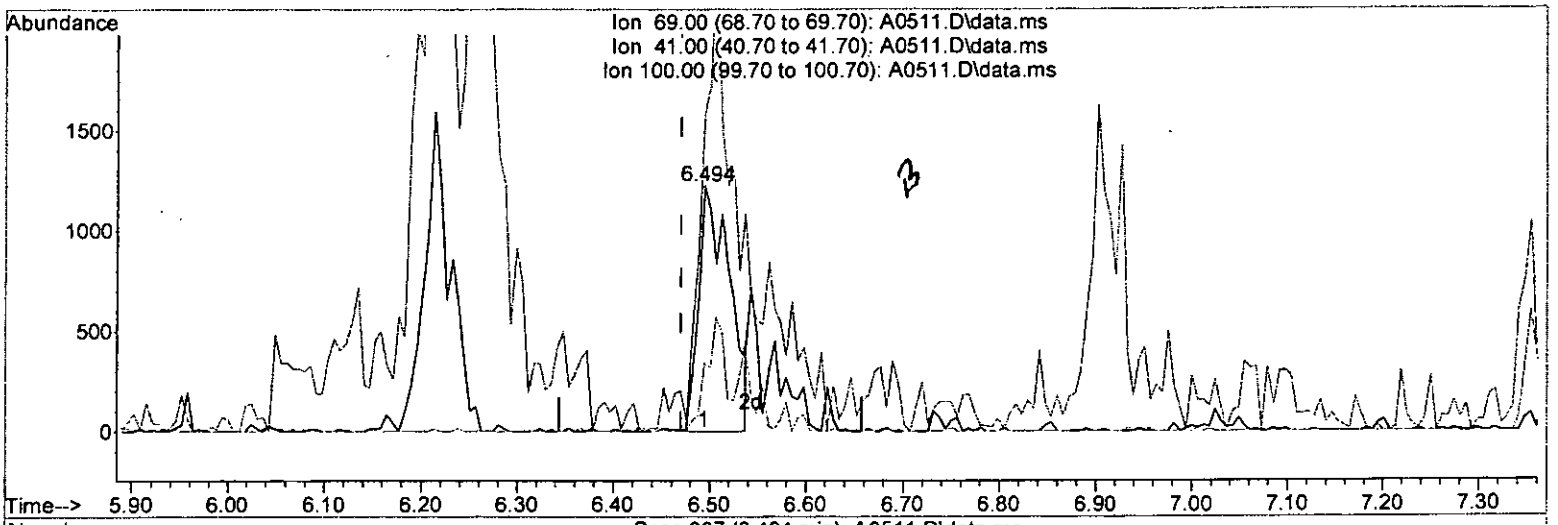
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	27.27#
0.00	0.00	0.00
0.00	0.00	0.00

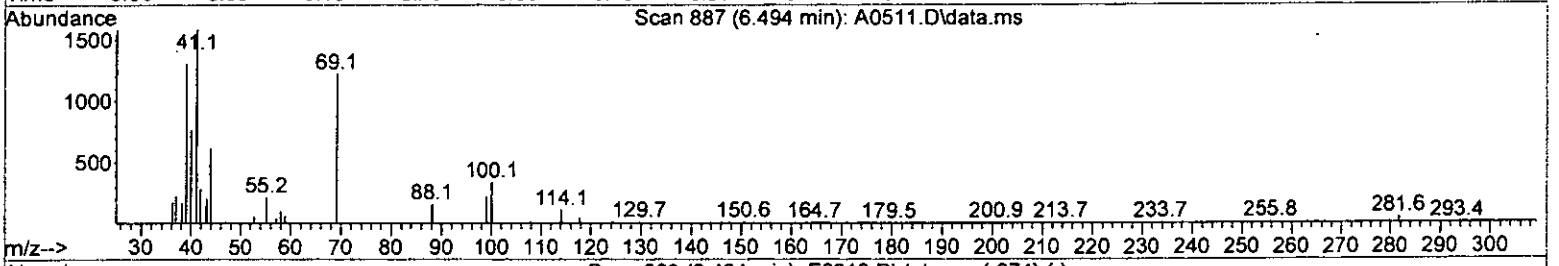
00434

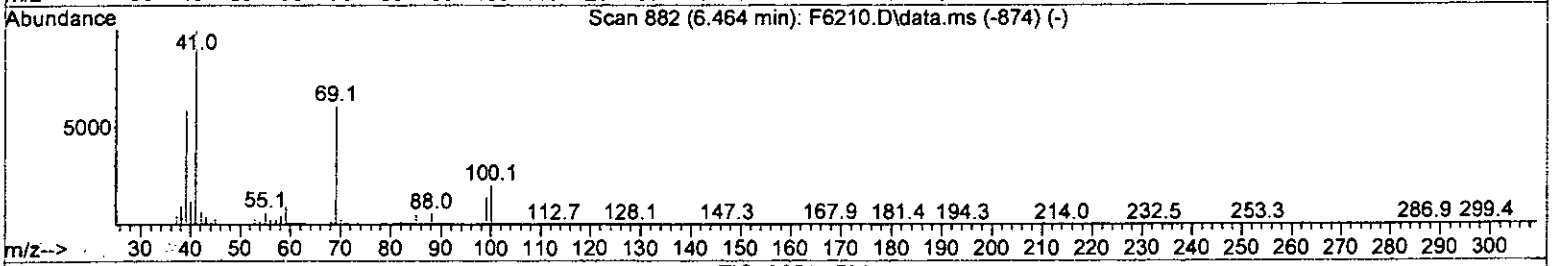
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(59) Methyl Methacrylate

6.494min (+0.024) 0.66 ug/L

response 2719

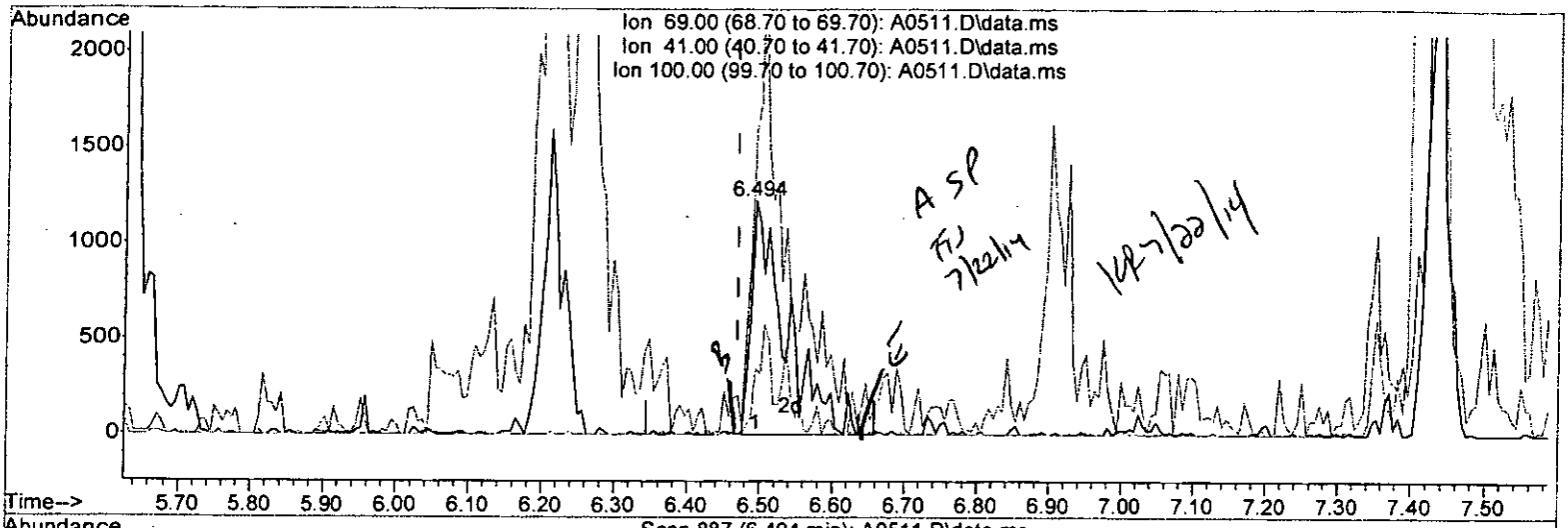
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	129.27
100.00	36.90	28.13
0.00	0.00	0.00

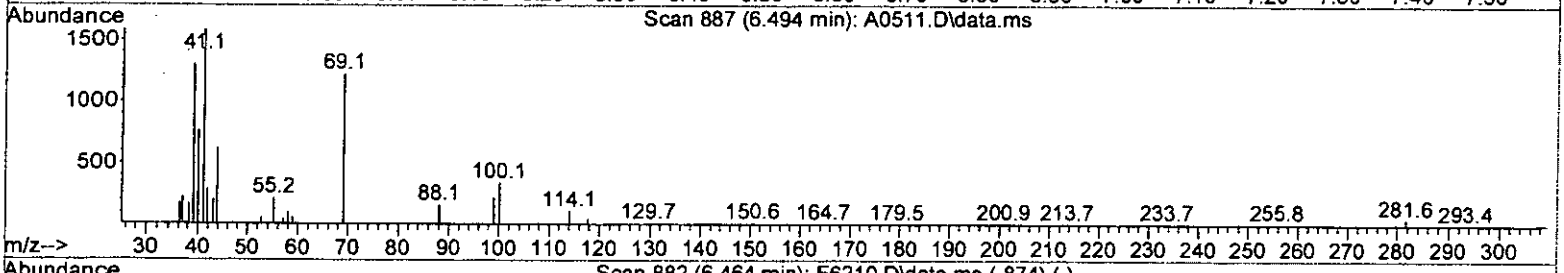
00435

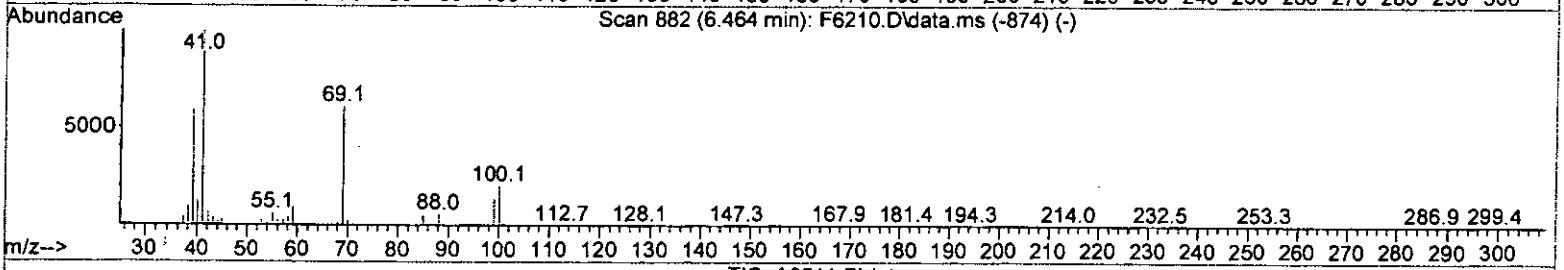
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(59) Methyl Methacrylate

6.494min (+0.024) 0.96 ug/L m

response 3956

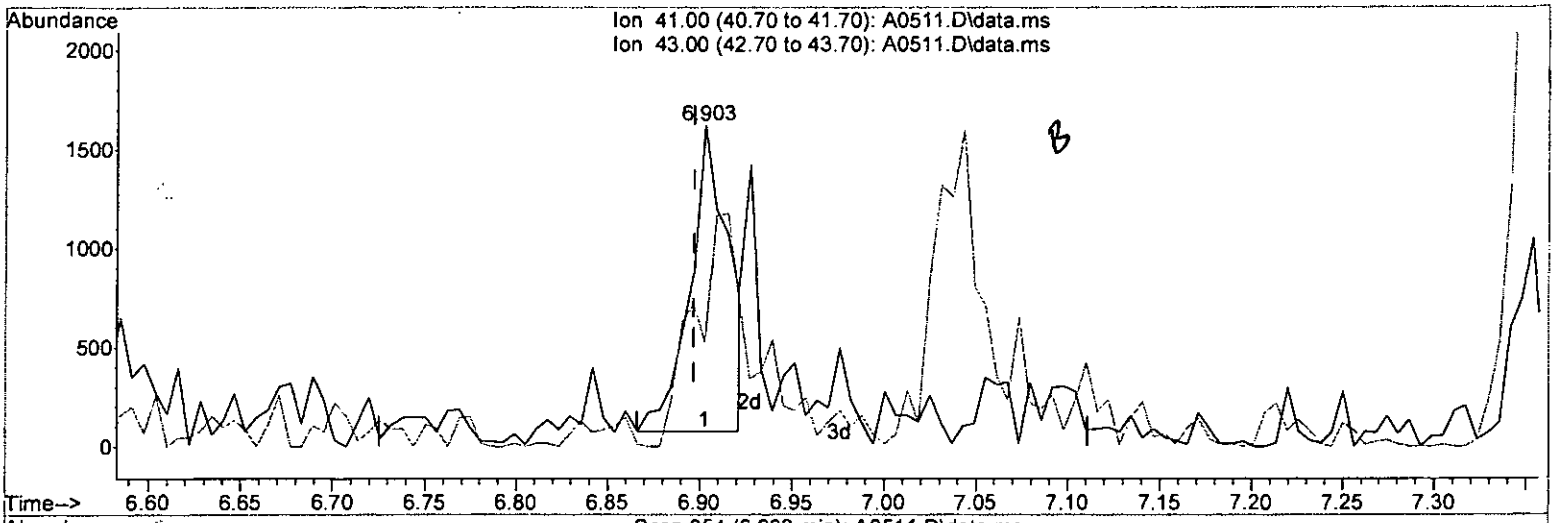
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	129.27
100.00	36.90	28.13
0.00	0.00	0.00

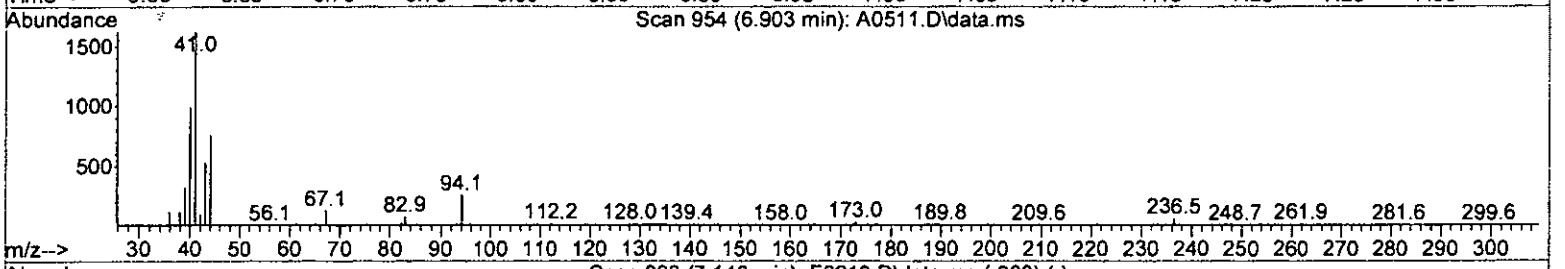
00436

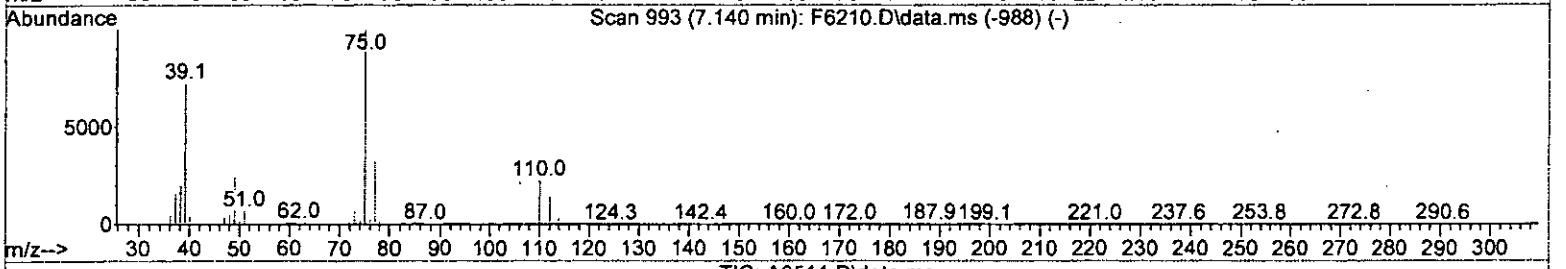
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(61) 2-Nitropropane

6.903min (+0.006) 1.39 ug/L

response 2228

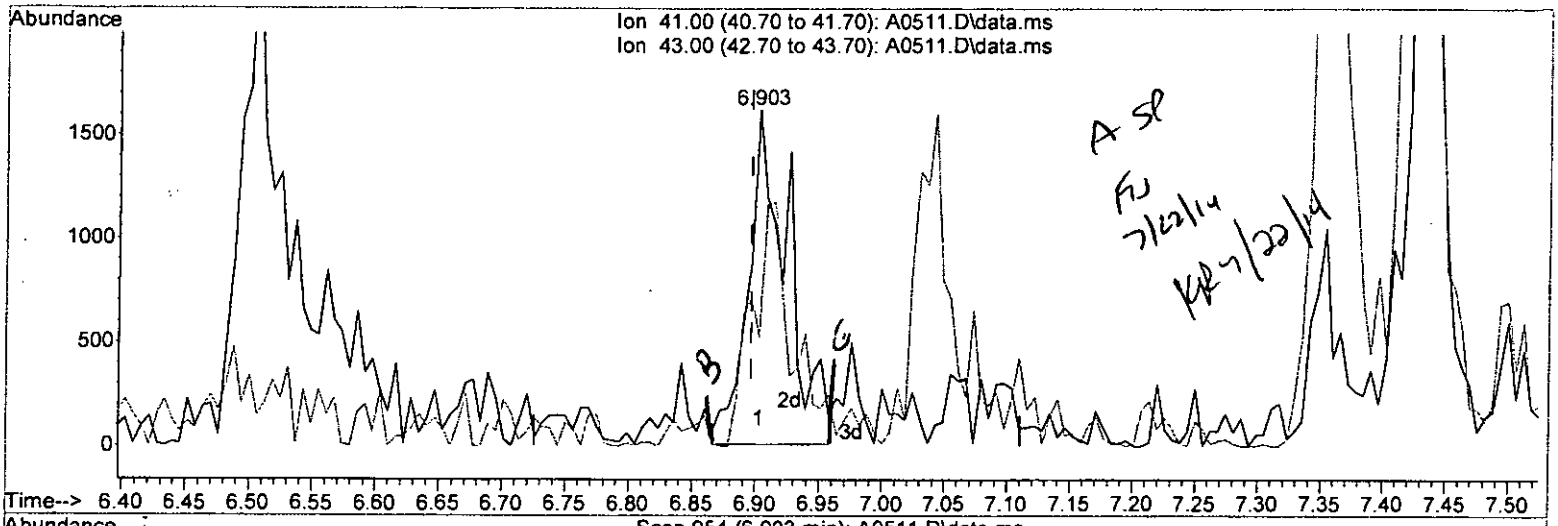
Ion	Exp%	Act%
41.00	100	100
43.00	108.60	32.43#
0.00	0.00	0.00
0.00	0.00	0.00

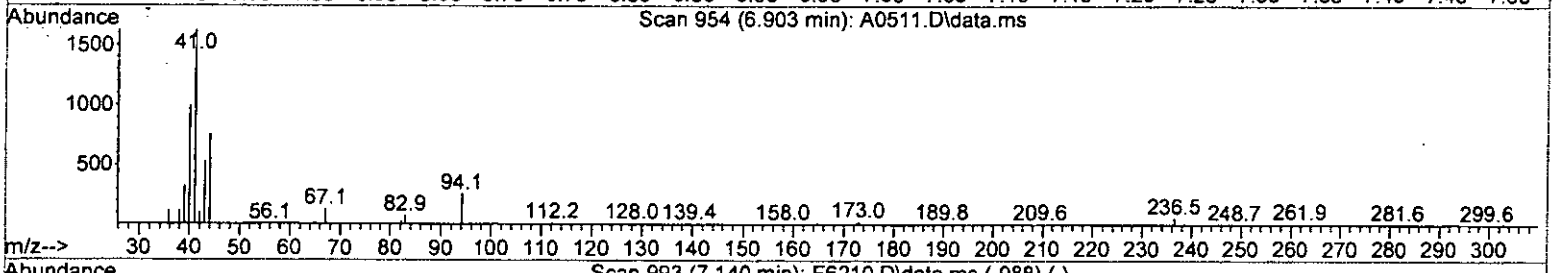
00437

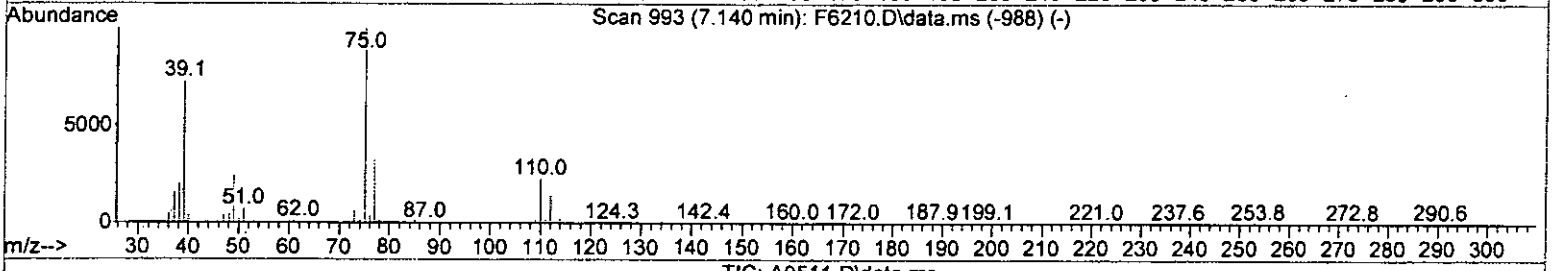
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(61) 2-Nitropropane

6.903min (+0.006) 2.18 ug/L m

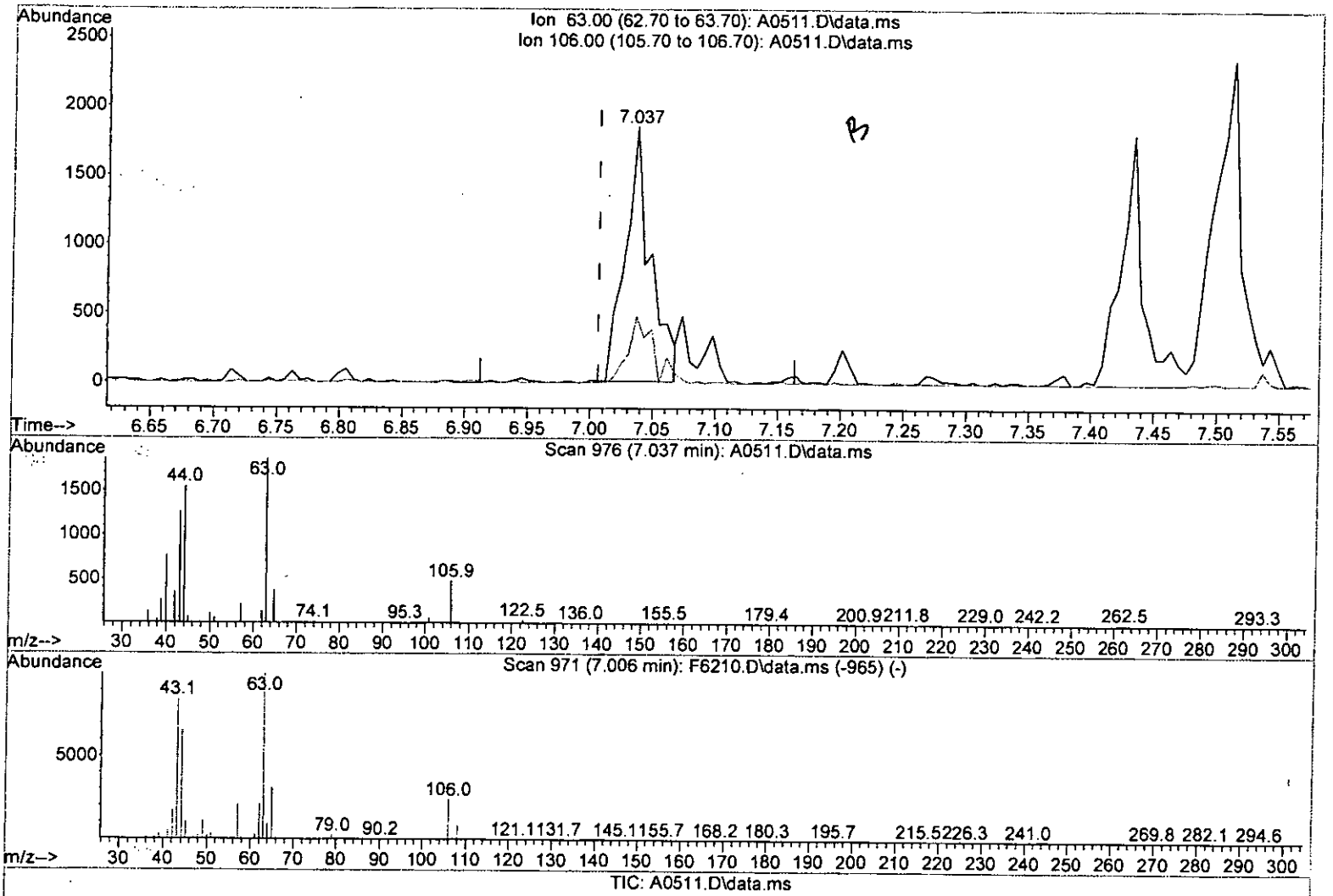
response 3489

Ion	Exp%	Act%
41.00	100	100
43.00	108.60	32.43#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0511.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.037min (+0.030) 0.55 ug/L

response 2602

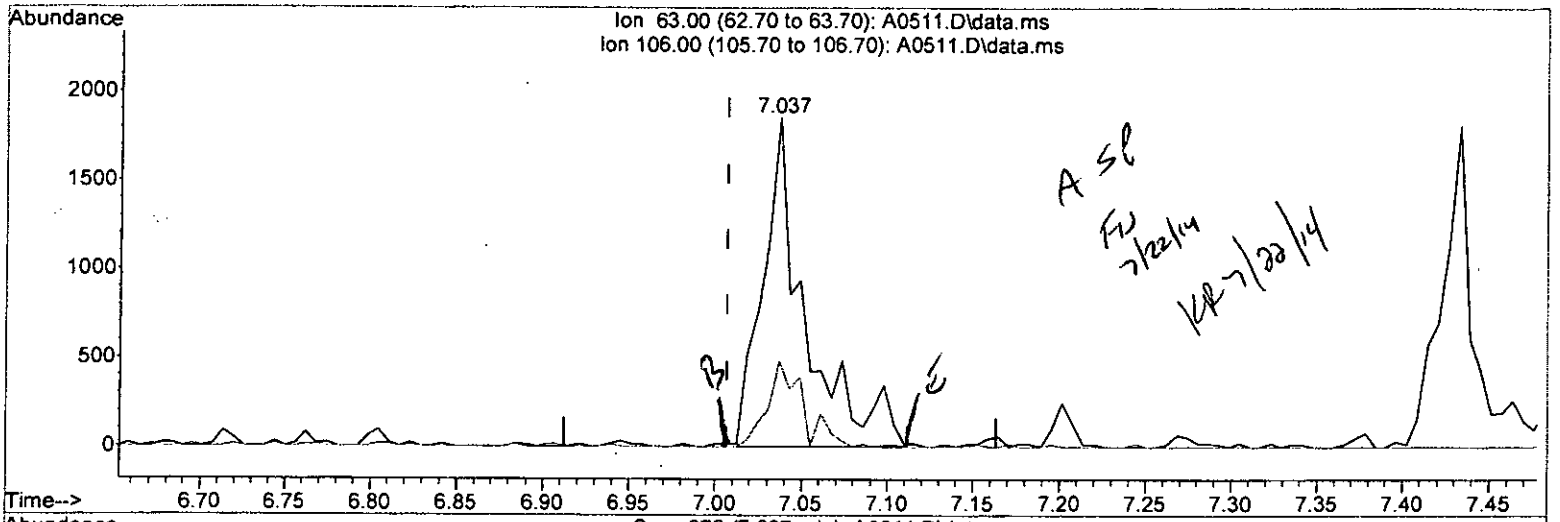
Ion	Exp%	Act%
63.00	100	100
106.00	27.80	25.94
0.00	0.00	0.00
0.00	0.00	0.00

00439

Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0511.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.037min (+0.030) 0.67 ug/L m

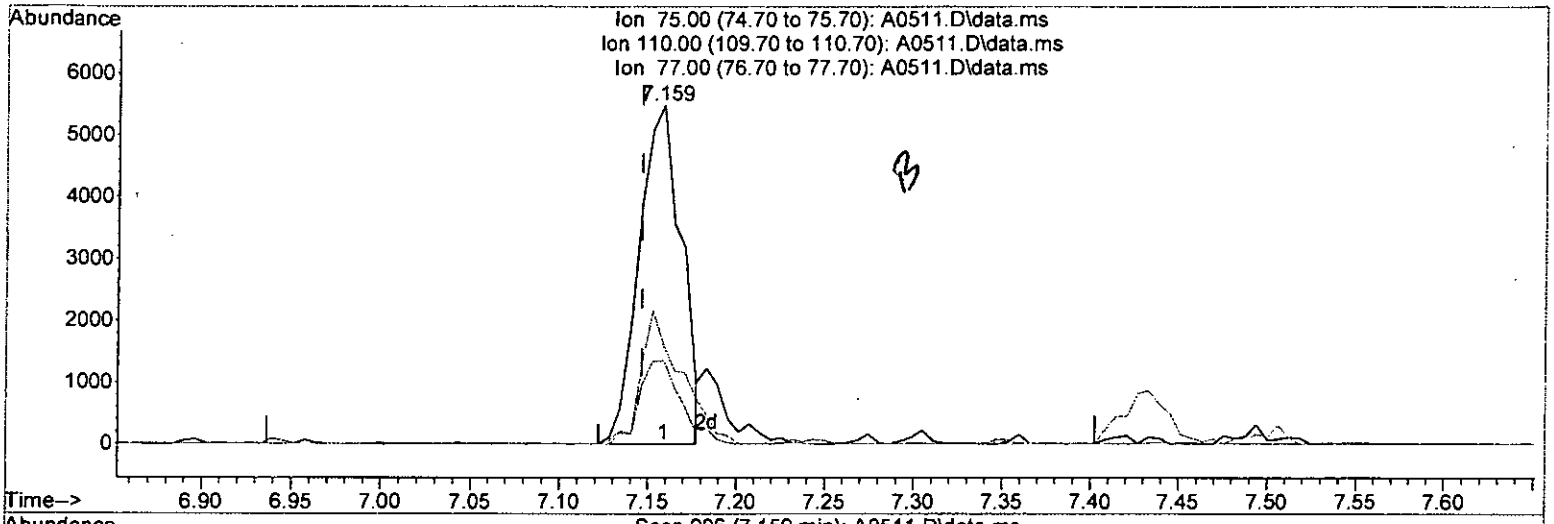
response 3169

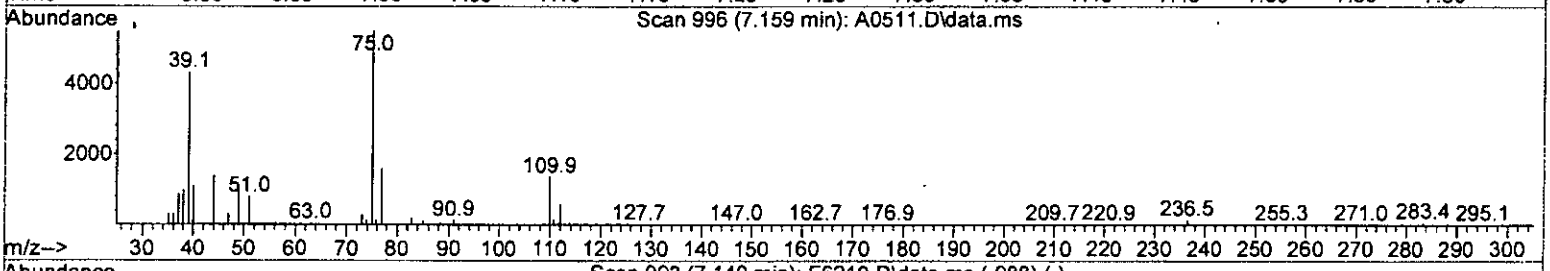
Ion	Exp%	Act%
63.00	100	100
106.00	27.80	25.94
0.00	0.00	0.00
0.00	0.00	0.00

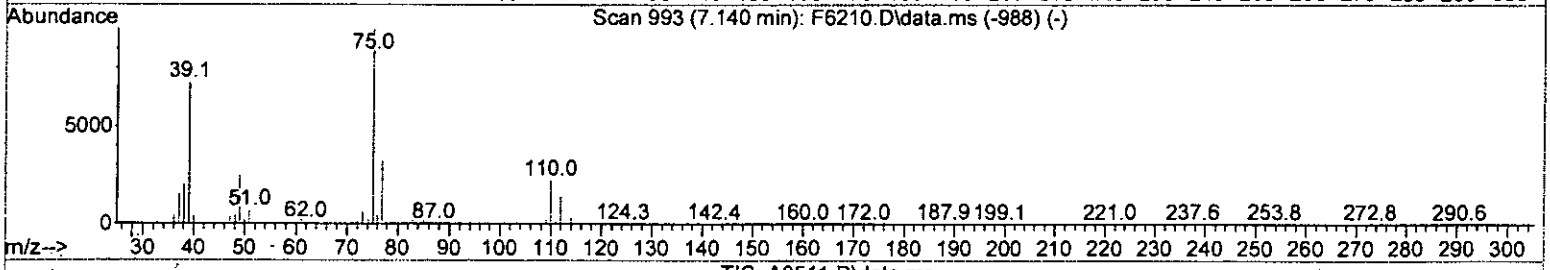
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(63) cis-1,3-Dichloropropene (P)

7.159min (+0.012) 0.67 ug/L

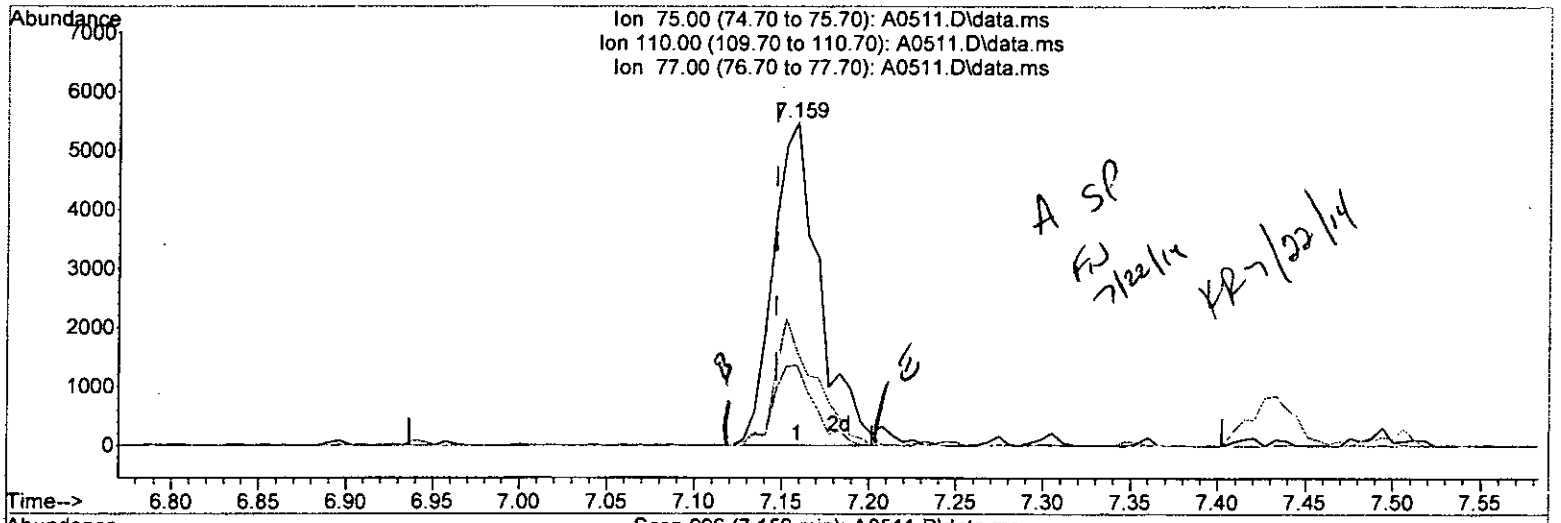
response 9058

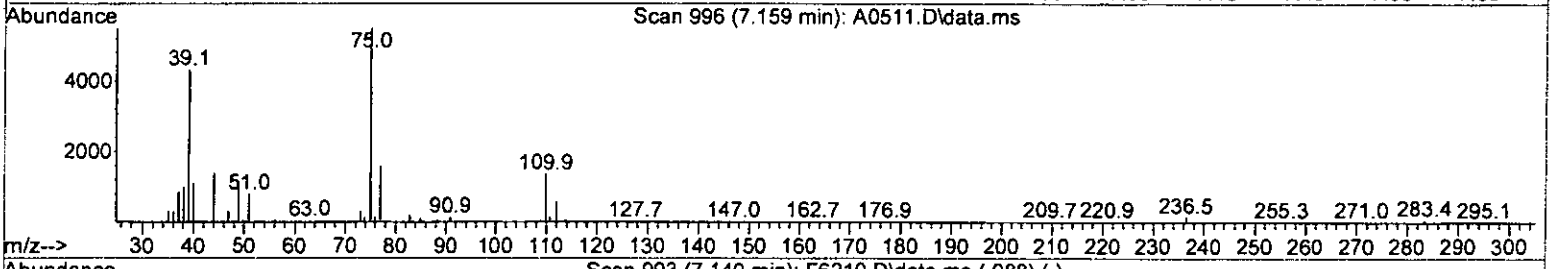
Ion	Exp%	Act%
75.00	100	100
110.00	23.70	27.37
77.00	31.80	28.83
0.00	0.00	0.00

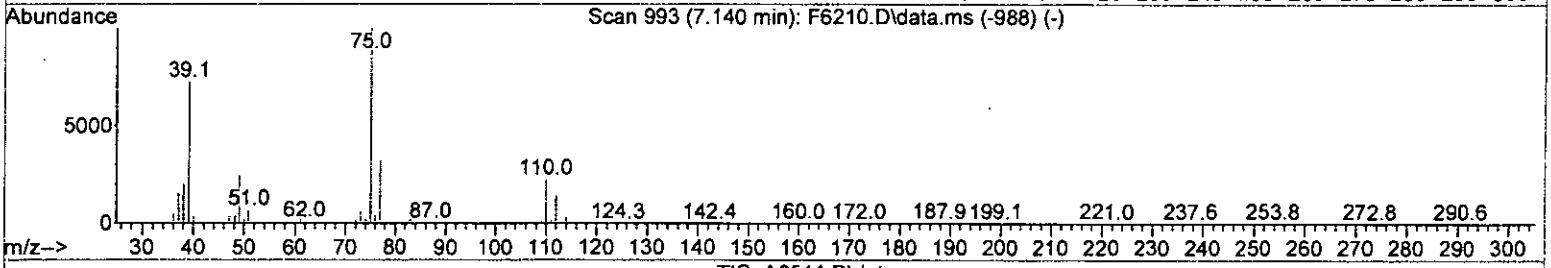
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(63) cis-1,3-Dichloropropene (P)

7.159min (+0.012) 0.74 ug/L m

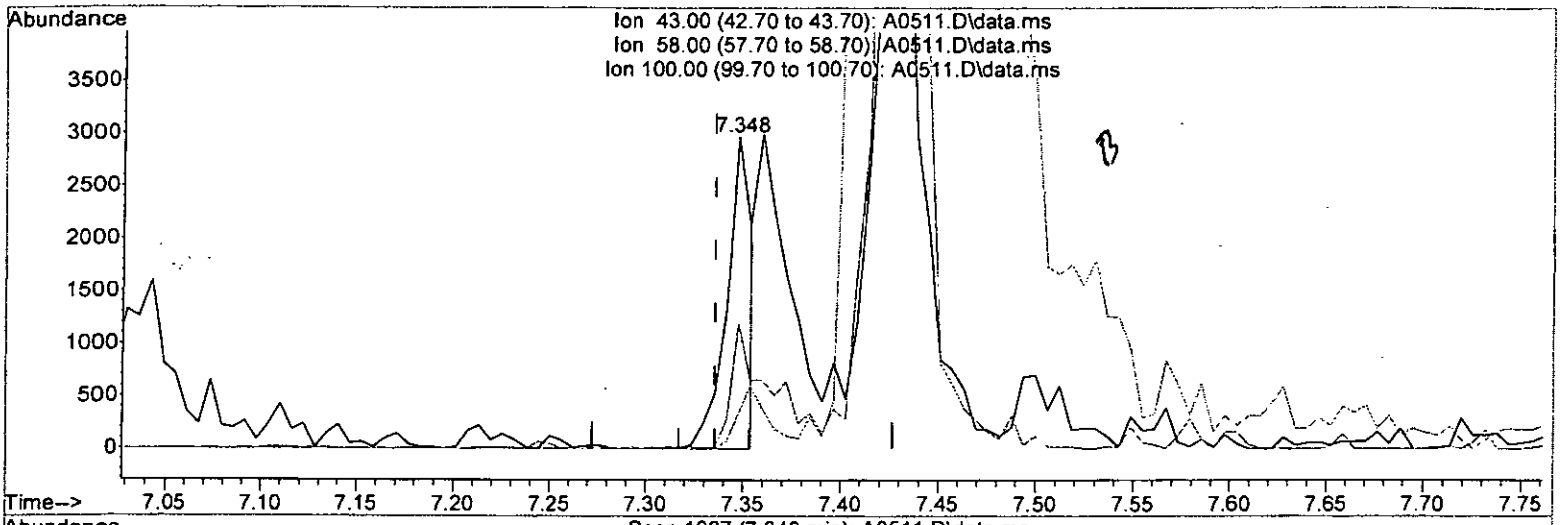
response 10071

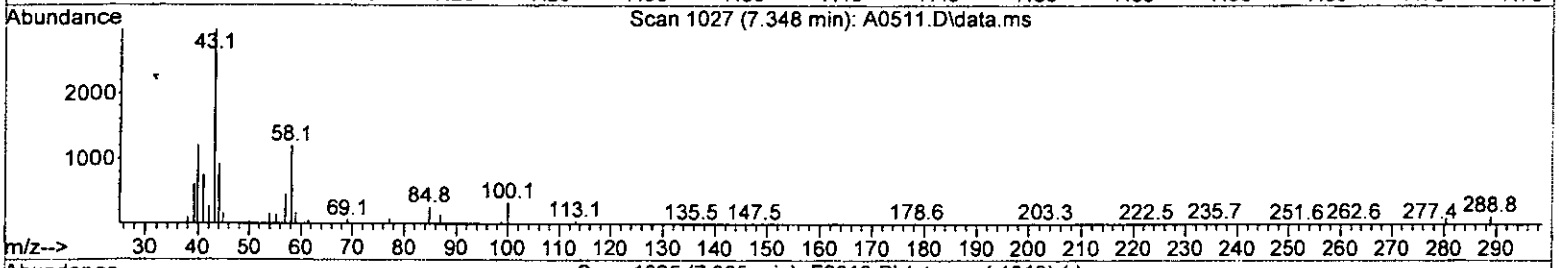
Ion	Exp%	Act%
75.00	100	100
110.00	23.70	24.65
77.00	31.80	28.83
0.00	0.00	0.00

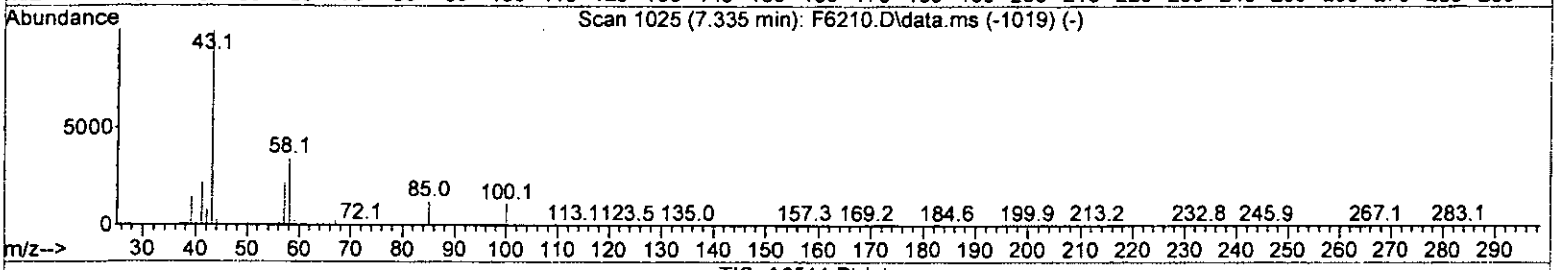
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(64) 4-Methyl-2-pentanone (P)

7.348min (+0.012) 0.39 ug/L

response 2639

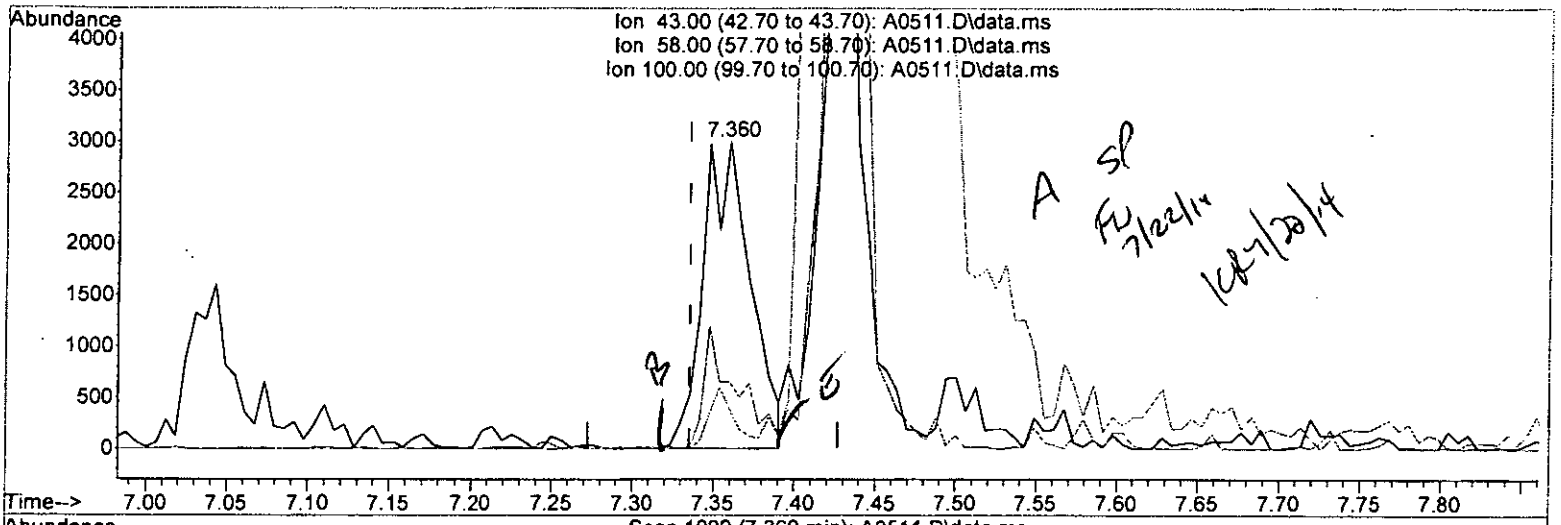
Ion	Exp%	Act%
43.00	100	100
58.00	36.30	40.07
100.00	12.60	11.20
0.00	0.00	0.00

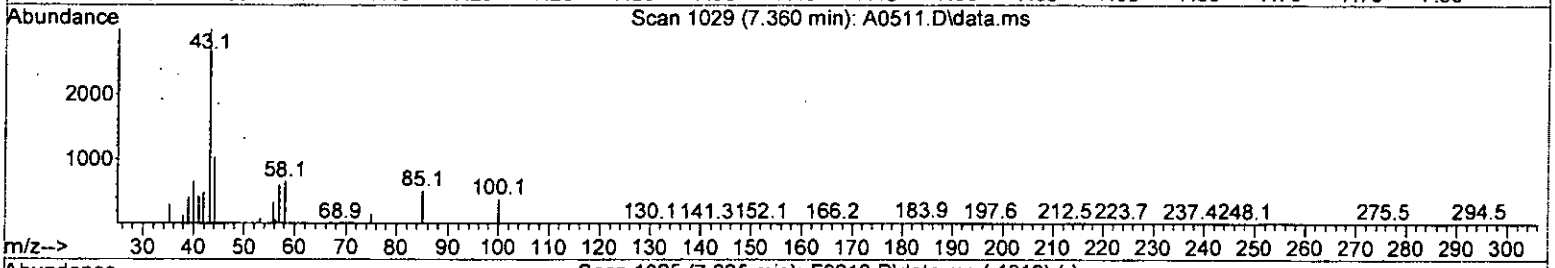
00443

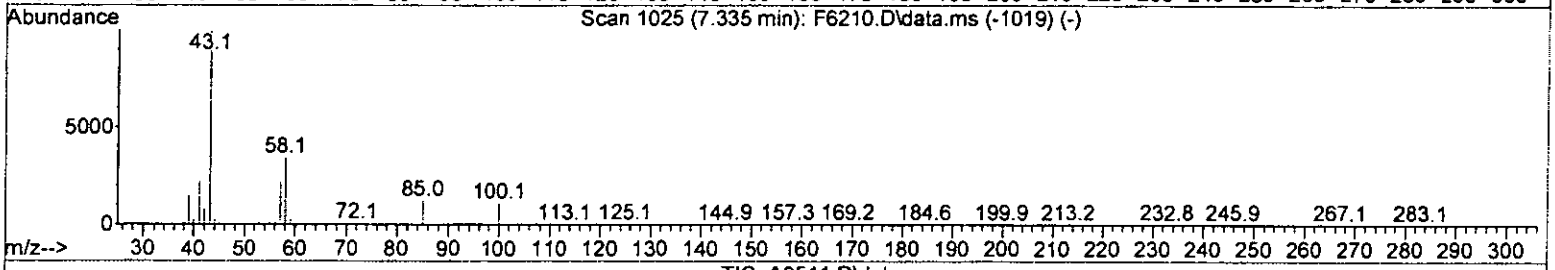
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(64) 4-Methyl-2-pentanone (P)

7.360min (+0.024) 0.88 ug/L m

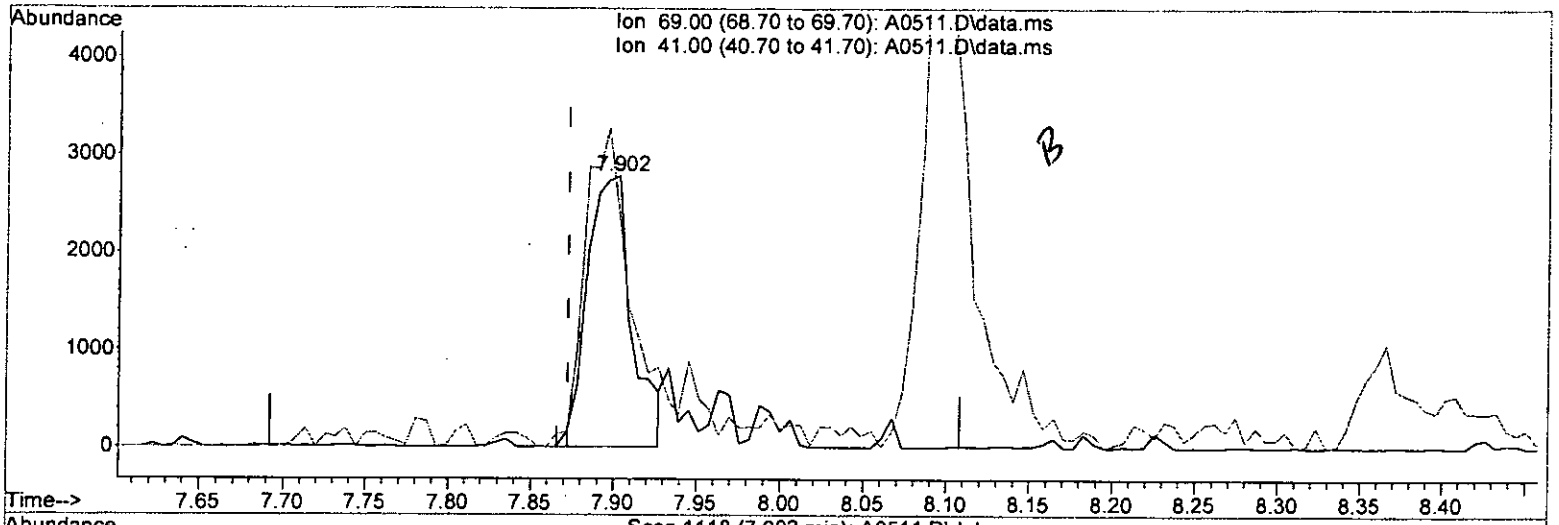
response 6033

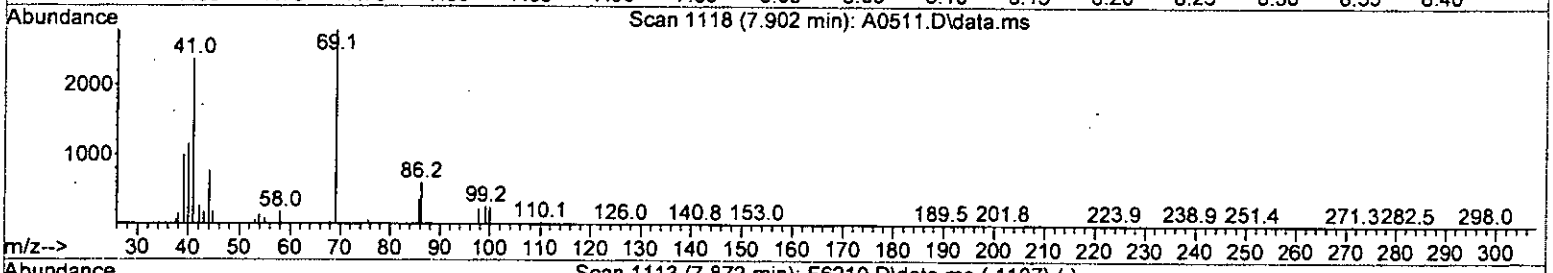
Ion	Exp%	Act%
43.00	100	100
58.00	36.30	21.81
100.00	12.60	12.84
0.00	0.00	0.00

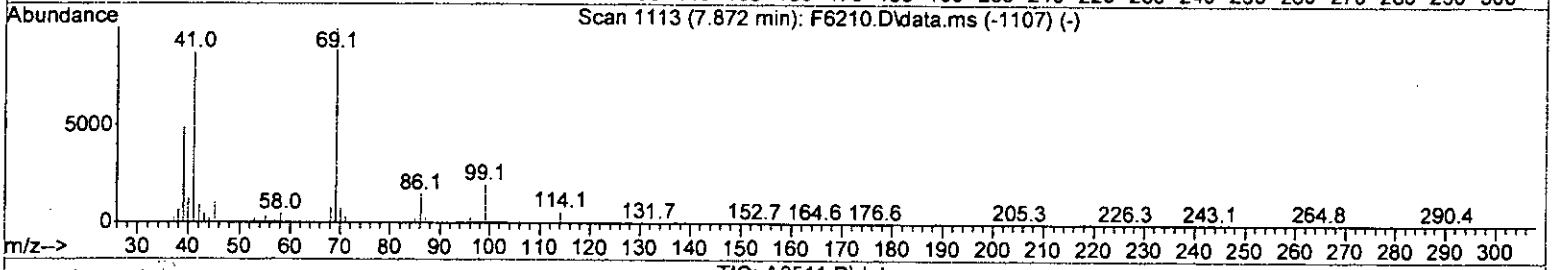
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(68) Ethyl Methacrylate

7.902min (+0.030) 0.60 ug/L

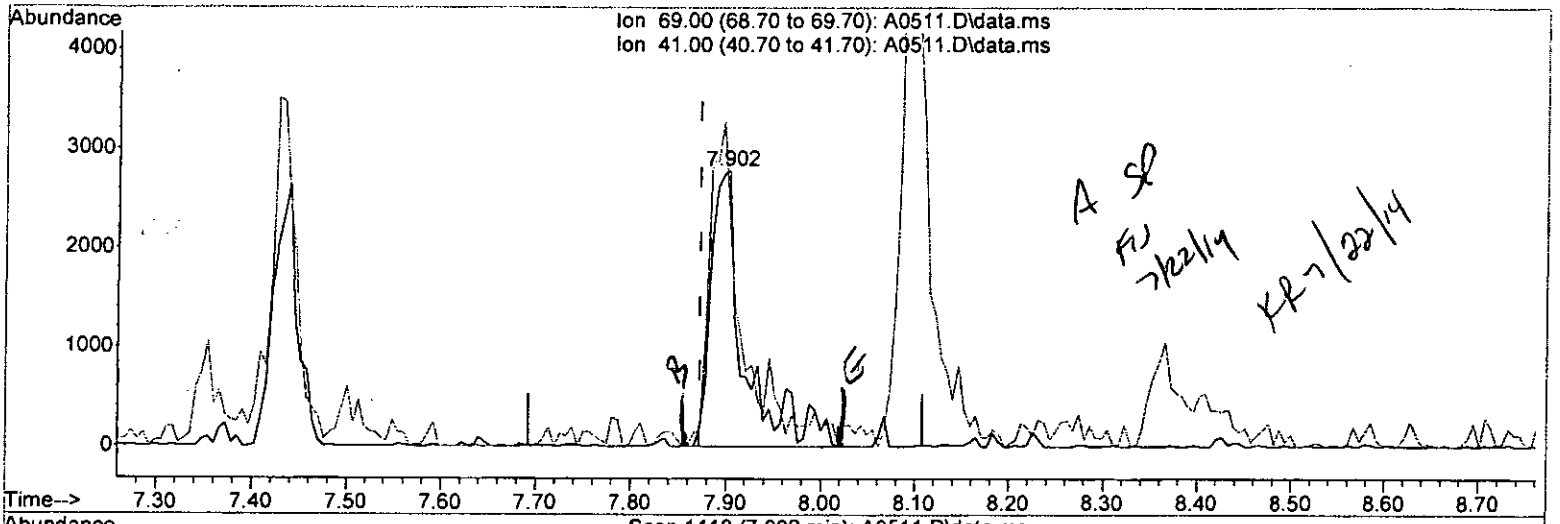
response 5195

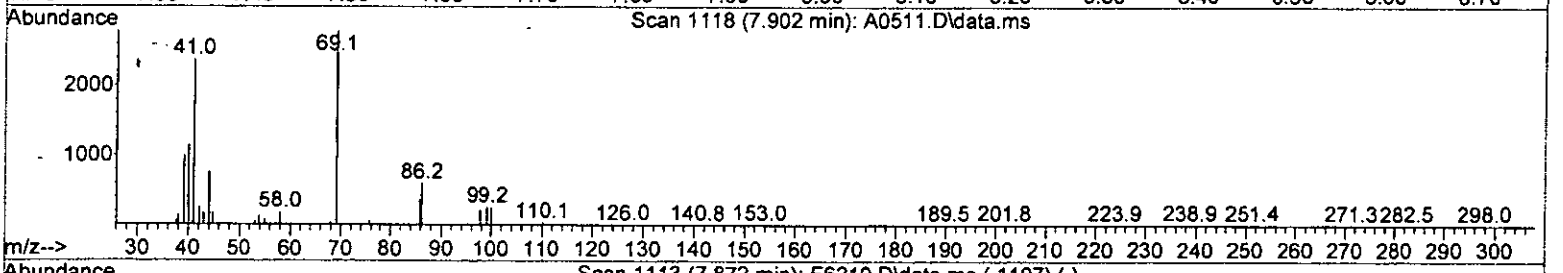
Ion	Exp%	Act%
69.00	100	100
41.00	71.50	85.35
0.00	0.00	0.00
0.00	0.00	0.00

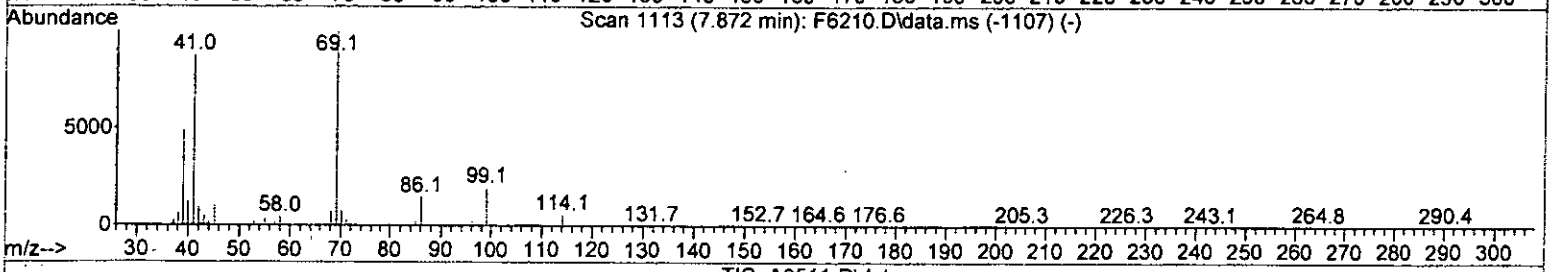
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(68) Ethyl Methacrylate

7.902min (+0.030) 0.79 ug/L m

response 6769

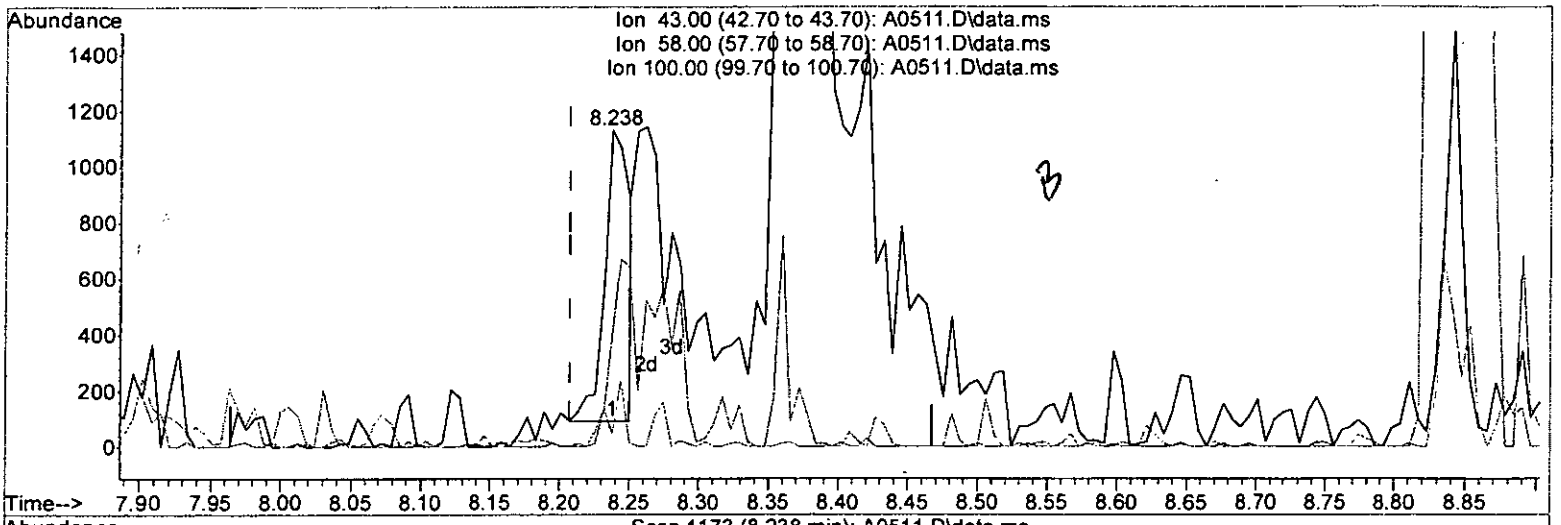
Ion	Exp%	Act%
69.00	100	100
41.00	71.50	85.35
0.00	0.00	0.00
0.00	0.00	0.00

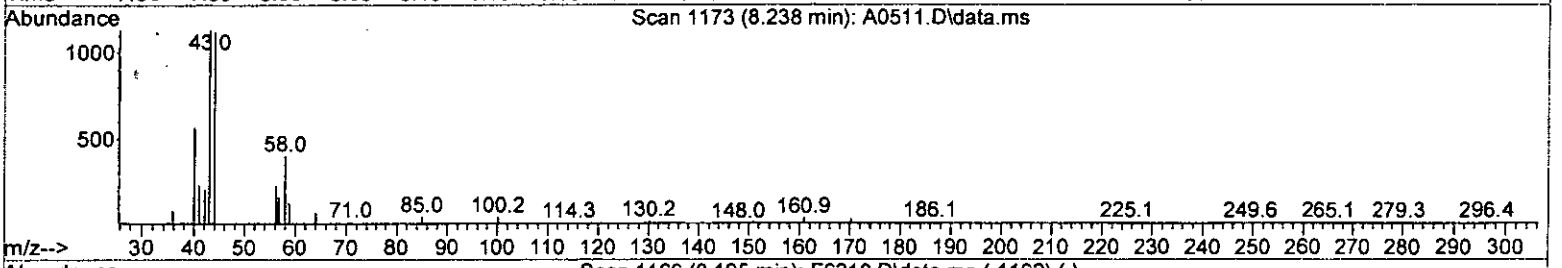
00446

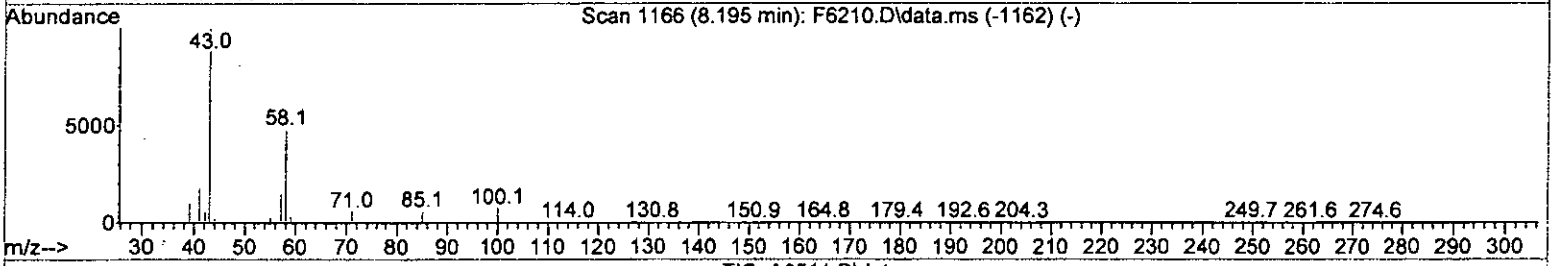
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(73) 2-Hexanone (P)

8.238min (+0.030) 0.26 ug/L

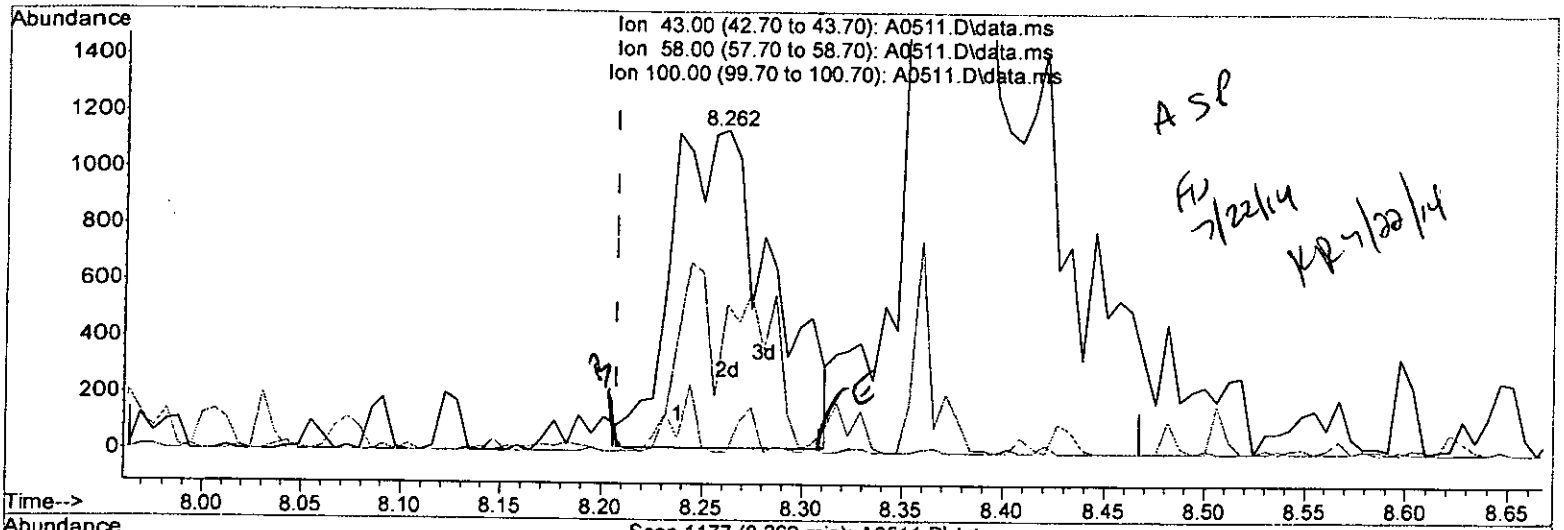
response 1279

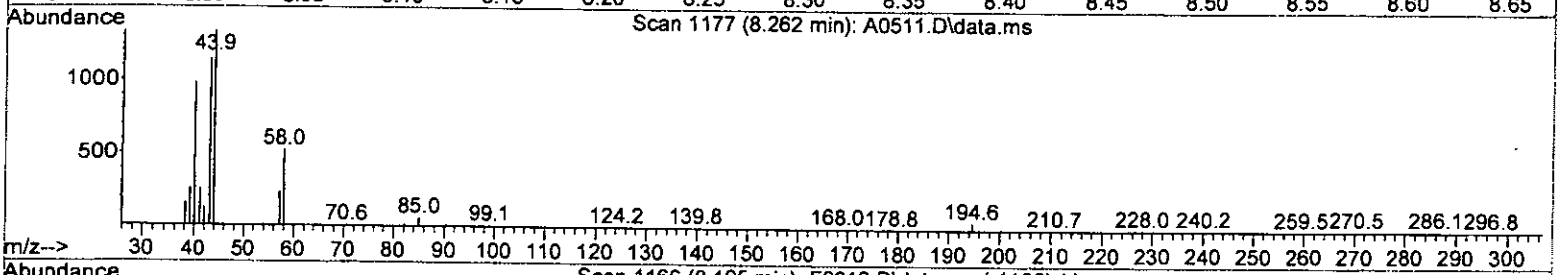
Ion	Exp%	Act%
43.00	100	100
58.00	50.80	35.46
100.00	10.10	4.07
0.00	0.00	0.00

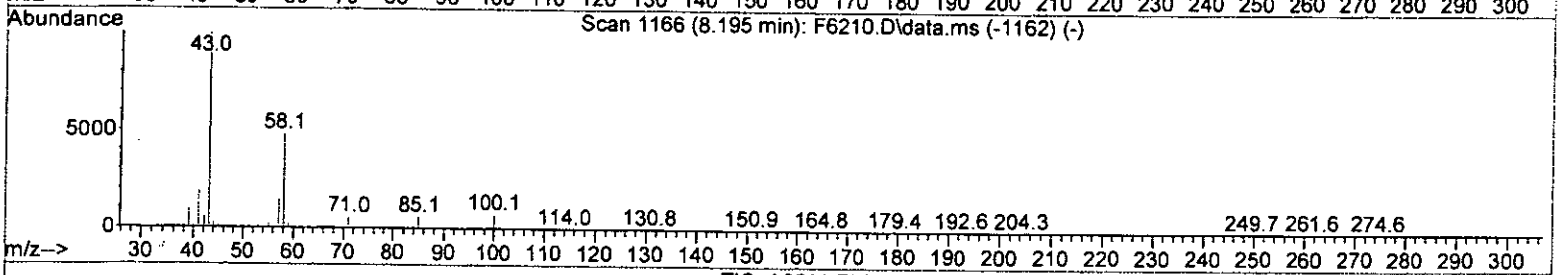
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(73) 2-Hexanone (P)

8.262min (+0.055) 0.78 ug/L m

response 3902

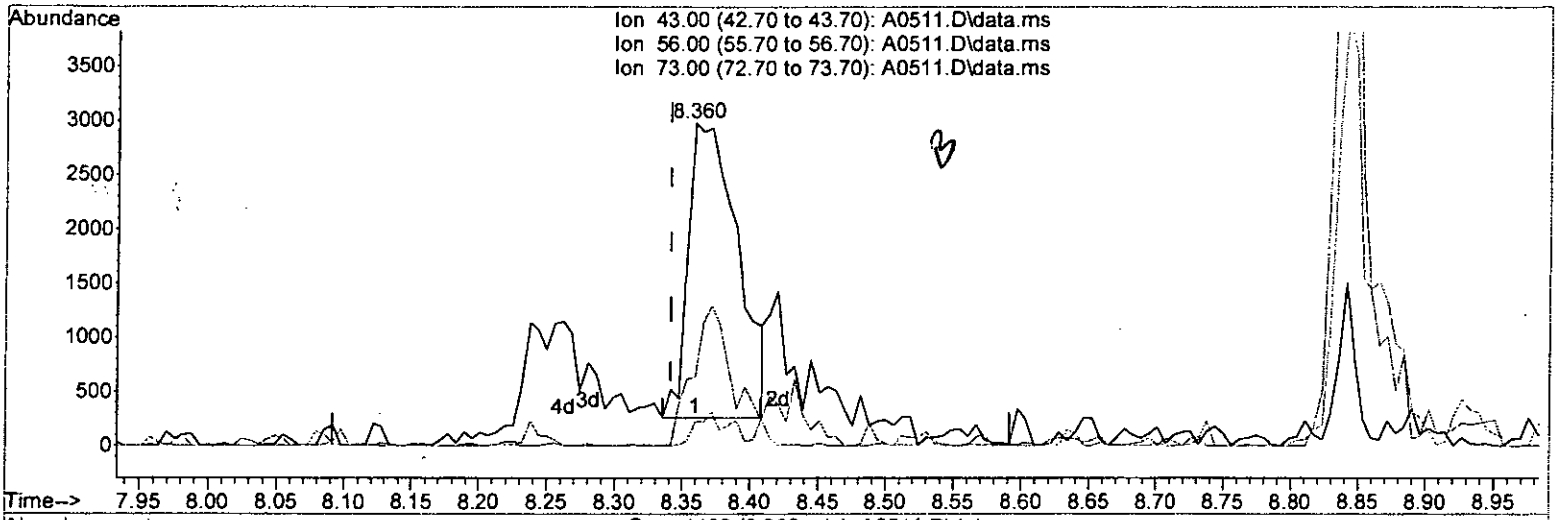
Ion	Exp%	Act%
43.00	100	100
58.00	50.80	45.71
100.00	10.10	0.00
0.00	0.00	0.00

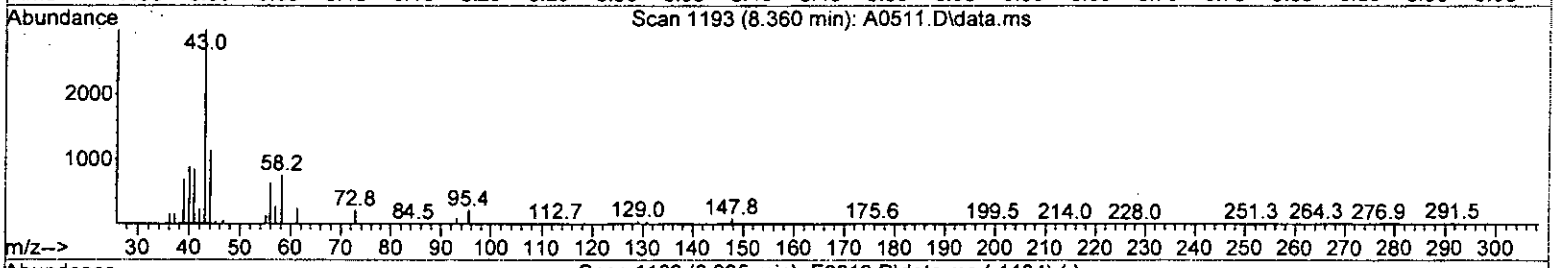
W072114.M Mon Jul 21 15:19:43 2014 MSVO10

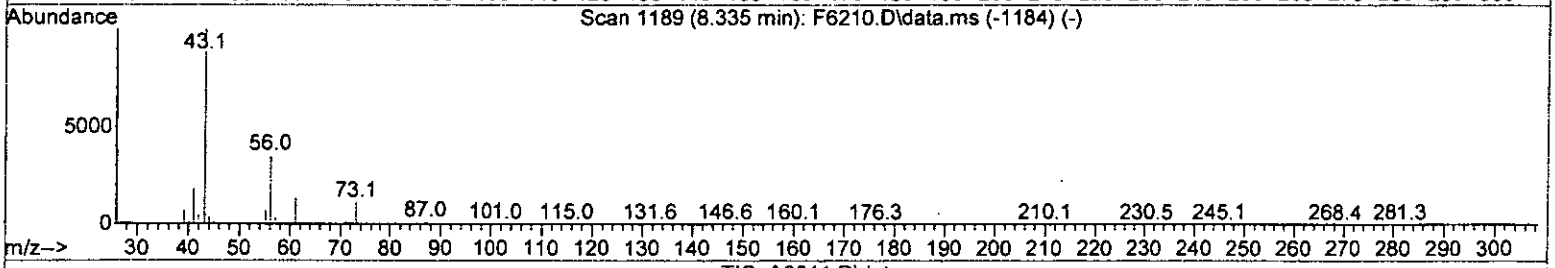
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(76) N-Butyl Acetate

8.360min (+0.018) 0.52 ug/L

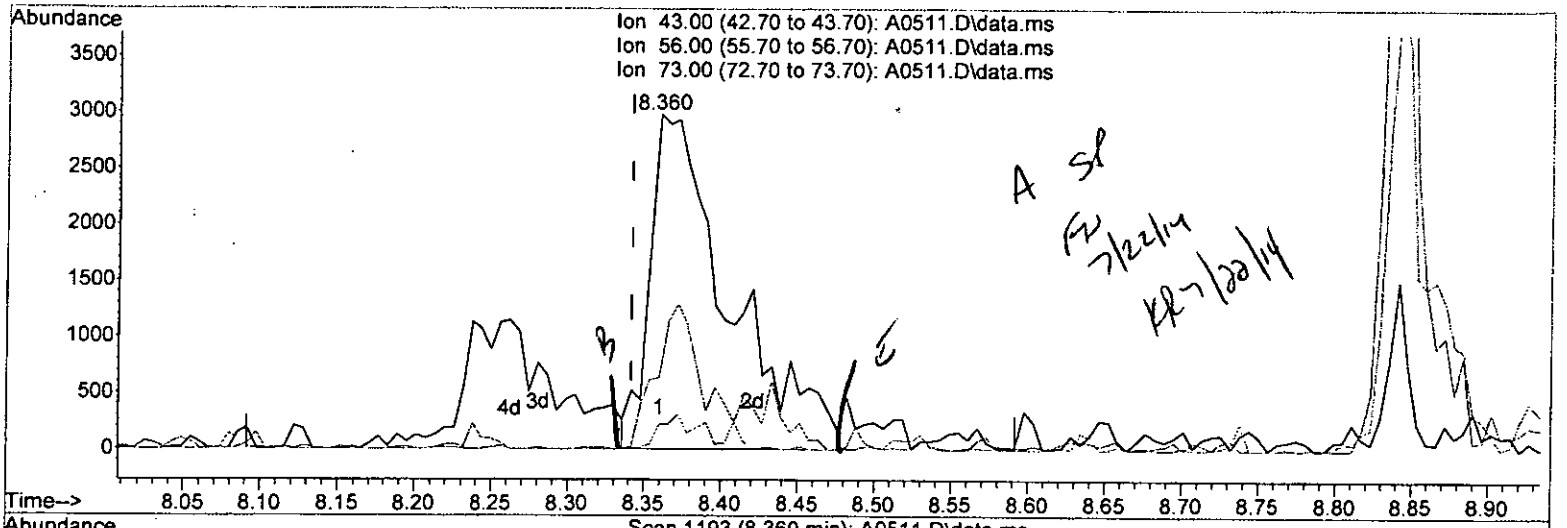
response 6867

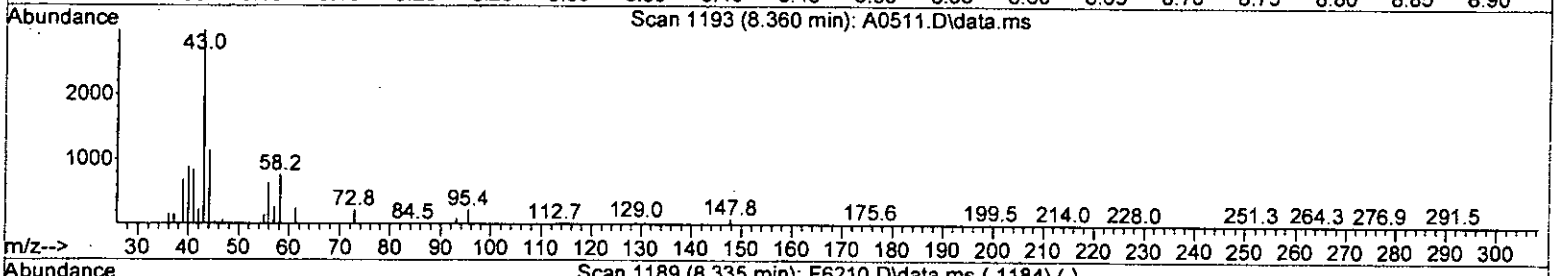
Ion	Exp%	Act%
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56.00	38.80	21.28
73.00	14.00	7.65
0.00	0.00	0.00

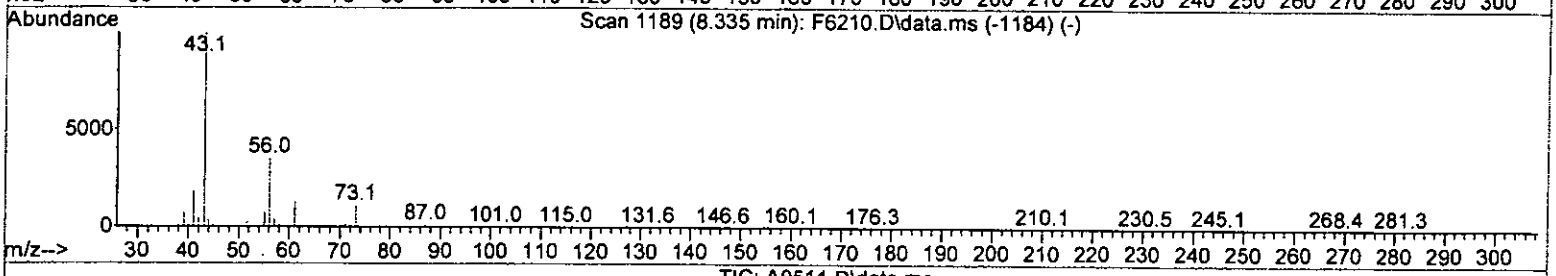
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 12:35:51 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(76) N-Butyl Acetate

8.360min (+0.018) 0.81 ug/L m

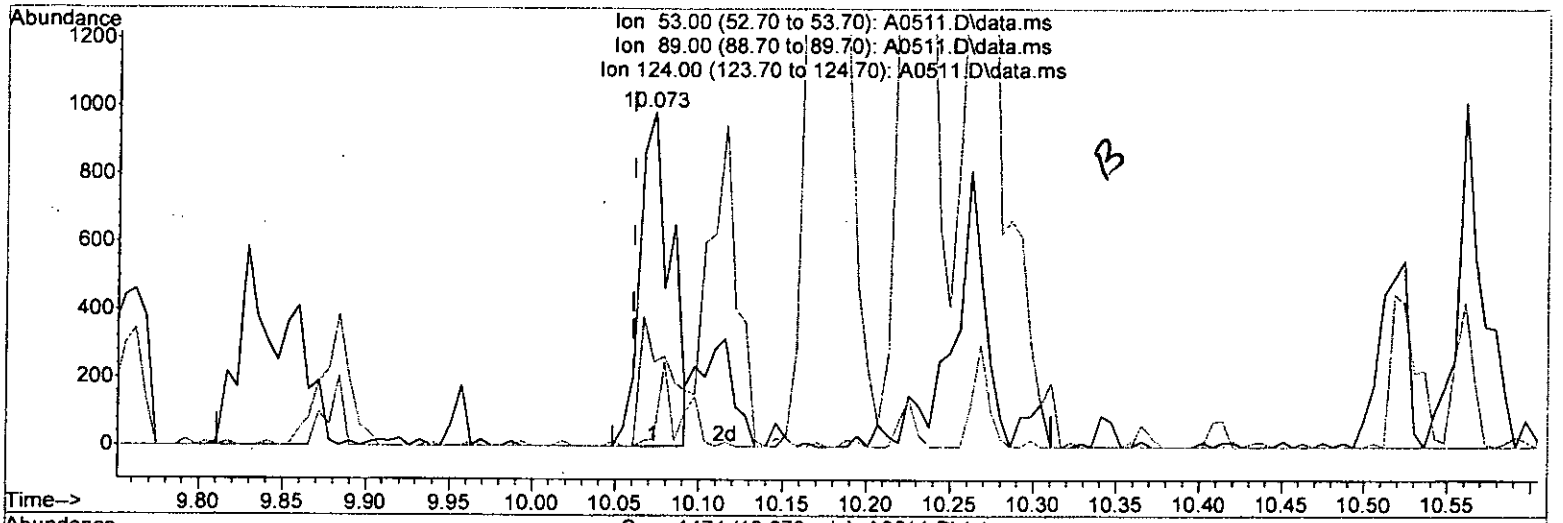
response 10618

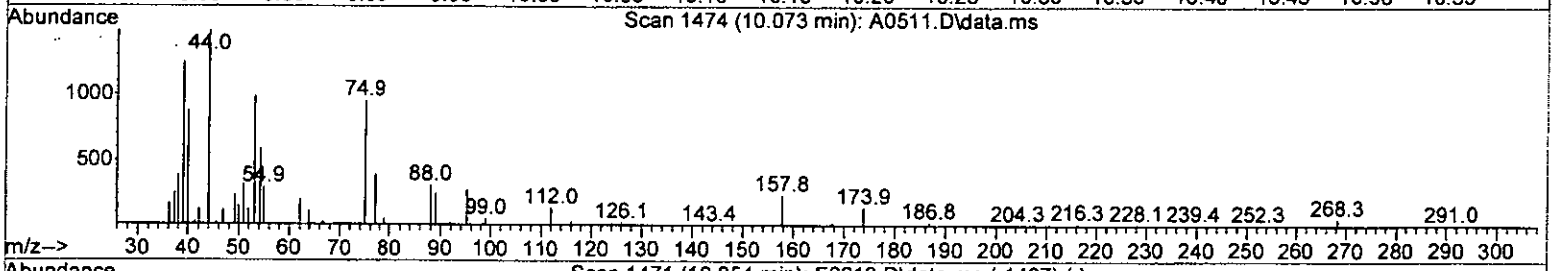
Ion	Exp%	Act%
43.00	100	100
56.00	38.80	21.28
73.00	14.00	7.22
0.00	0.00	0.00

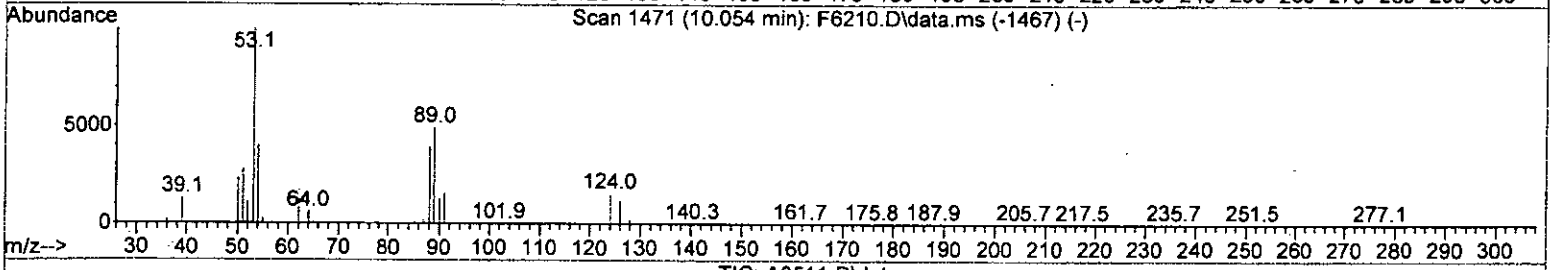
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

10.073min (+0.012) 0.57 ug/L

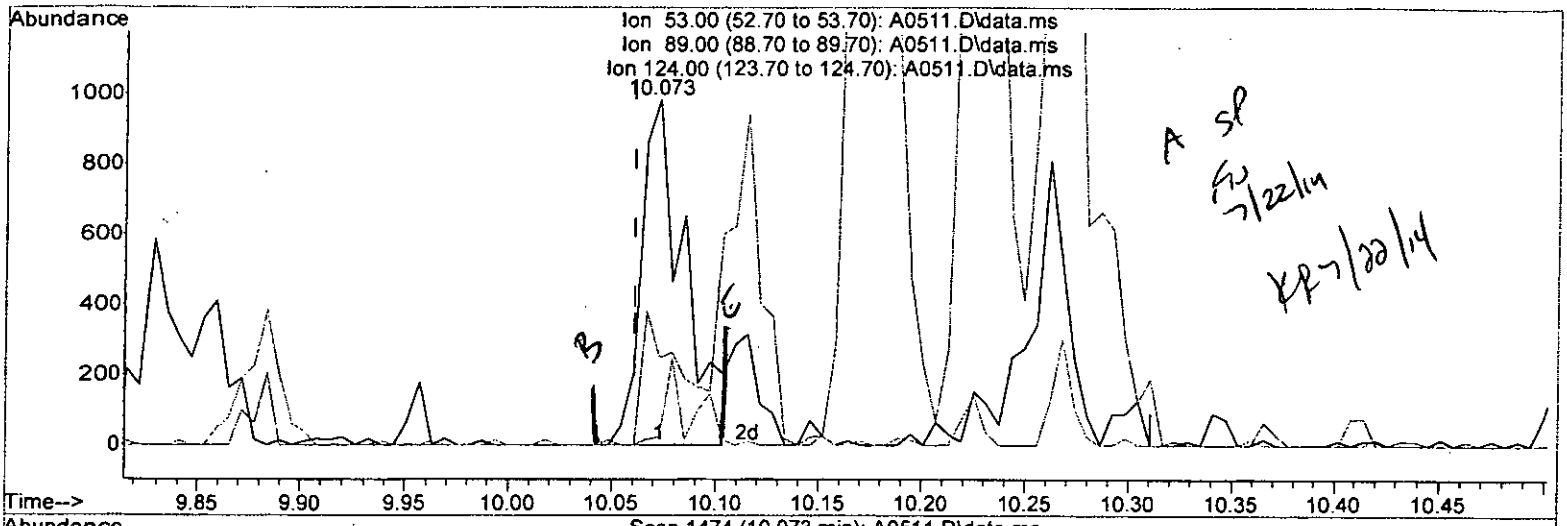
response 1243

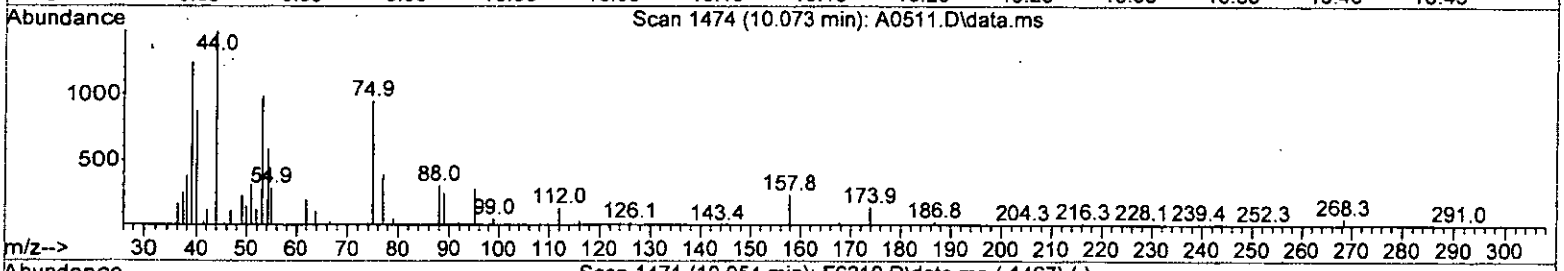
Ion	Exp%	Act%
53.00	100	100
89.00	57.40	25.10#
124.00	20.90	2.24
0.00	0.00	0.00

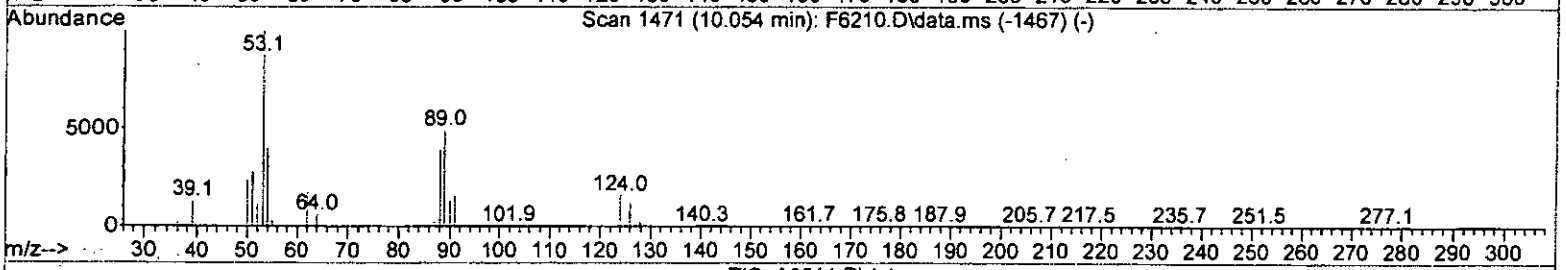
Quantitation Report (Qedit)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:20:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0511.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

10.073min (+0.012) 0.64 ug/L m

response 1403

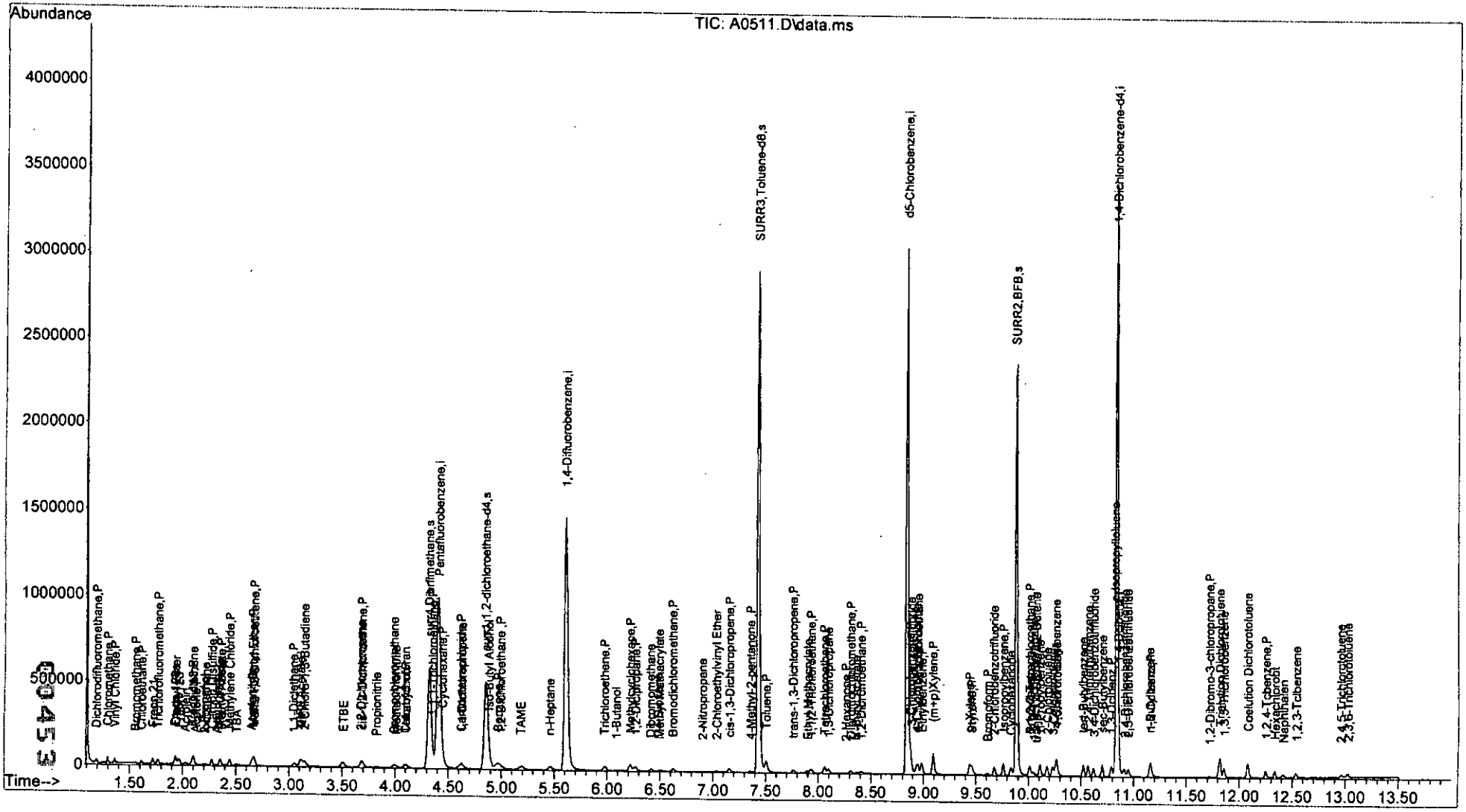
Ion	Exp%	Act%
53.00	100	100
89.00	57.40	25.10#
124.00	20.90	2.24
0.00	0.00	0.00

00452

Quantitation Report (QT Reviewed)

Sample : 1.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0511.D Vial: 4
Acq On : 21 Jul 2014 12:22 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:17:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:52:19 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FJ 7/22/14

Quant Time: Jul 22 13:18:07 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	908244	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1375547	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.842	117	1263990	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	661125	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	451095	55.02	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.04%			
48) surr1,1,2-dichloroetha...	4.854	65	484305	59.61	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 119.22%			
65) SURR3,Toluene-d8	7.427	98	1599431	50.51	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.02%			
70) SURR2,BFB	9.878	95	626389	50.24	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.191	85	17416	2.05	ug/L	96
3) Chloromethane	1.294	50	24600	2.34	ug/L	98
4) Vinyl Chloride	1.361	62	23232	2.10	ug/L	99
5) Bromomethane	1.556	94	5312	1.33	ug/L	99
6) Chloroethane	1.611	64	12409	2.07	ug/L	94
7) Freon 21	1.721	67	34495	2.16	ug/L	96
8) Trichlorofluoromethane	1.770	101	26346	2.22	ug/L	88
9) Diethyl Ether	1.934	59	14090	2.07	ug/L	78
10) Freon 123a	1.928	67	21981	2.14	ug/L	84
11) Freon 123	1.965	83	23441	2.14	ug/L	98
12) Acrolein	2.026	56	10947	10.38	ug/L	90
13) 1,1-Diclethene	2.105	96	13556	2.24	ug/L #	83
14) Freon 113	2.093	101	15674	2.27	ug/L	91
15) Acetone	2.117	43	7286m	3.56	ug/L	
16) 2-Propanol	2.196	45	13018	36.72	ug/L	92
17) Iodomethane	2.209	142	3078	0.49	ug/L	96
18) Carbon Disulfide	2.270	76	55287	2.15	ug/L	97
19) Acetonitrile	2.318	40	3021	10.98	ug/L #	61
20) Allyl Chloride	2.355	76	8053	1.84	ug/L #	72
21) Methyl Acetate	2.361	43	11056	2.52	ug/L	95
22) Methylene Chloride	2.440	84	17616	1.93	ug/L #	78
23) TBA	2.507	59	16689	29.87	ug/L	77
24) Acrylonitrile	2.635	53	26643	11.91	ug/L	83
25) Methyl-t-Butyl Ether	2.660	73	35358	1.84	ug/L	90
26) trans-1,2-Dichloroethene	2.666	96	15477	2.01	ug/L #	87
28) 1,1-Diclethane	3.050	63	36304	2.30	ug/L	95
29) Vinyl Acetate	3.111	86	1626	1.45	ug/L #	25
30) DIPE	3.111	45	79281	2.48	ug/L	81
31) 2-Chloro-1,3-Butadiene	3.141	53	33814	2.22	ug/L	89
32) ETBE	3.501	59	51913	1.91	ug/L	92
33) 2,2-Dichloropropane	3.678	77	20072	1.73	ug/L	96
34) cis-1,2-Dichloroethene	3.690	96	18328	2.10	ug/L	89
35) 2-Butanone	3.769	43	6918m	2.48	ug/L	
36) Propionitrile	3.794	54	6542m	9.07	ug/L	
37) Bromochloromethane	3.983	130	11024	2.15	ug/L	88

00454

Quantitation Report (QT Reviewed)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 22 13:18:07 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) Methacrylonitrile	3.989	67	3701	1.63 ug/L #	45
39) Tetrahydrofuran	4.092	42	4133	2.49 ug/L #	56
40) Chloroform	4.099	83	30272	2.14 ug/L	92
41) 1,1,1-Trichloroethane	4.361	97	24572	1.98 ug/L #	81
42) TAME	5.190	73	33098	1.62 ug/L	91
44) Cyclohexane	4.446	41	26461	2.59 ug/L	100
46) Carbontetrachloride	4.605	121	6629	1.79 ug/L	88
47) 1,1-Dichloropropene	4.617	75	21429	1.93 ug/L	91
49) Benzene	4.964	78	65693	1.85 ug/L	88
50) 1,2-Dichloroethane	4.989	62	22324	1.92 ug/L	78
51) Iso-Butyl Alcohol	4.885	43	9886m	34.27 ug/L	
52) n-Heptane	5.458	43	23196	2.33 ug/L #	79
53) 1-Butanol	6.037	56	7536m	55.80 ug/L	
54) Trichloroethene	5.976	130	18580	1.95 ug/L	90
55) Methylcyclohexane	6.214	55	26465	2.11 ug/L #	64
56) 1,2-Diclpropane	6.263	63	20260	1.99 ug/L	96
57) Dibromomethane	6.409	93	10288	2.21 ug/L #	81
58) 1,4-Dioxane	6.494	88	2344m	47.00 ug/L	
59) Methyl Methacrylate	6.494	69	5744m	1.40 ug/L	
60) Bromodichloromethane	6.622	83	22196	1.99 ug/L	95
61) 2-Nitropropane	6.909	41	5342m	3.36 ug/L	
62) 2-Chloroethylvinyl Ether	7.031	63	6148m	1.31 ug/L	
63) cis-1,3-Dichloropropene	7.153	75	19878	1.48 ug/L	81
64) 4-Methyl-2-pentanone	7.354	43	12562	1.85 ug/L	89
66) Toluene	7.506	91	69335	1.82 ug/L	94
67) trans-1,3-Dichloropropene	7.756	75	15178	1.38 ug/L	86
68) Ethyl Methacrylate	7.884	69	12423m	1.45 ug/L	
69) 1,1,2-Trichloroethane	7.933	97	12160	1.84 ug/L	96
72) Tetrachloroethene	8.061	164	13708	1.75 ug/L	92
73) 2-Hexanone	8.232	43	9725m	1.97 ug/L	
74) 1,3-Dichloropropane	8.092	76	21580	1.85 ug/L #	73
75) Dibromochloromethane	8.305	129	13918	1.67 ug/L	94
76) N-Butyl Acetate	8.354	43	22614m	1.74 ug/L	
77) 1,2-Dibromoethane	8.409	107	12066	1.78 ug/L	83
78) 3-Chlorobenzotrifluoride	8.878	180	24728	1.70 ug/L	97
79) Chlorobenzene	8.872	112	49233	1.88 ug/L	90
80) 4-Chlorobenzotrifluoride	8.933	180	23520	1.75 ug/L	91
81) 1,1,1,2-Tetrachloroethane	8.951	131	15236	1.60 ug/L	97
82) Ethylbenzene	8.982	106	22662	1.67 ug/L	91
83) (m+p)Xylene	9.091	106	58405	3.52 ug/L #	87
84) o-Xylene	9.439	106	27653	1.65 ug/L	95
85) Styrene	9.451	104	45009	1.59 ug/L	97
86) Bromoform	9.604	173	7936	1.59 ug/L	86
87) 2-Chlorobenzotrifluoride	9.671	180	25254	1.75 ug/L	96
88) Isopropylbenzene	9.756	105	72100	1.76 ug/L	94
89) Cyclohexanone	9.829	55	46290	46.86 ug/L	98
90) trans-1,4-Dichloro-2-B...	10.073	53	3103	1.43 ug/L #	76
92) 1,1,2,2-Tetrachloroethane	10.012	83	15484	2.04 ug/L	94
93) Bromobenzene	10.006	156	21091	1.91 ug/L	95
94) 1,2,3-Trichloropropane	10.049	110	4523	2.24 ug/L #	56
95) n-Propylbenzene	10.103	91	81443	1.82 ug/L	96
96) 2-Chlorotoluene	10.171	91	50019	1.82 ug/L	99

Quantitation Report (QT Reviewed)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 22 13:18:07 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

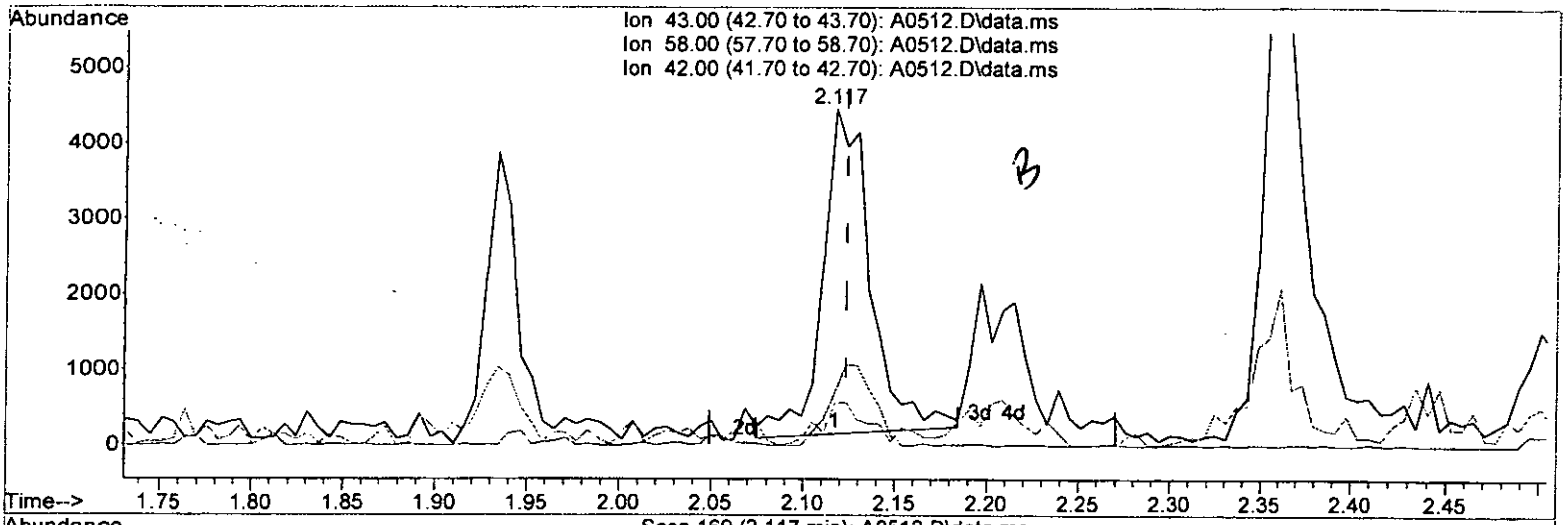
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	3-Chlorotoluene	10.225	91	51783	1.85 ug/L		97
98)	4-Chlorotoluene	10.268	91	62225	1.86 ug/L		93
99)	1,3,5-Trimethylbenzene	10.256	105	58925	1.79 ug/L		98
100)	tert-Butylbenzene	10.518	119	47303	1.73 ug/L		98
101)	1,2,4-Trimethylbenzene	10.561	105	58036	1.74 ug/L		99
102)	3,4-Dichlorobenzotrifl...	10.616	214	17137	1.74 ug/L		98
103)	sec-Butylbenzene	10.701	105	70354	1.87 ug/L		97
104)	p-Isopropyltoluene	10.817	119	59099	1.79 ug/L		98
105)	1,3-Dclbenz	10.786	146	37472	1.84 ug/L		95
106)	1,4-Dclbenz	10.853	146	39414	1.91 ug/L		97
107)	2,4-Dichlorobenzotrifl...	10.908	214	14745	1.67 ug/L		99
108)	2,5-Dichlorobenzotrifl...	10.945	214	19568	1.92 ug/L		85
109)	n-Butylbenzene	11.146	91	48518	1.70 ug/L		95
110)	1,2-Dclbenz	11.158	146	34370	1.84 ug/L		92
111)	1,2-Dibromo-3-chloropr...	11.713	157	1960	1.68 ug/L		84
112)	Trielution Dichlorotol...	11.810	125	84532	5.61 ug/L		95
113)	1,3,5-Trichlorobenzene	11.853	180	24632	1.94 ug/L		98
114)	Coelution Dichlorotoluene	12.073	125	57307	3.74 ug/L		96
115)	1,2,4-Tcbenzene	12.243	180	19368	1.87 ug/L		93
116)	Hexachlorobt	12.335	225	7692	1.55 ug/L		90
117)	Naphthalen	12.396	128	26549	1.68 ug/L		93
118)	1,2,3-Tclbenzene	12.530	180	13663	1.94 ug/L	#	79
119)	2,4,5-Trichlorotoluene	12.950	159	7626	1.98 ug/L		83
120)	2,3,6-Trichlorotoluene	13.018	159	9087	2.38 ug/L		96

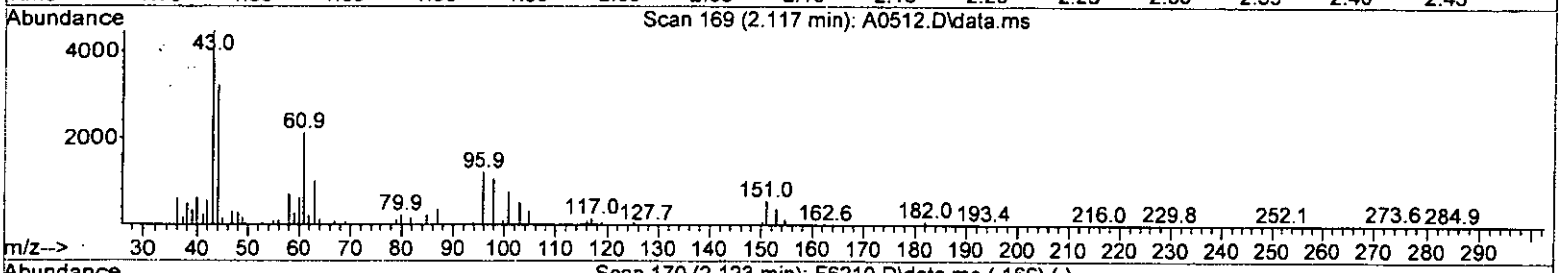
(#) = qualifier out of range (m) = manual integration (+) = signals summed

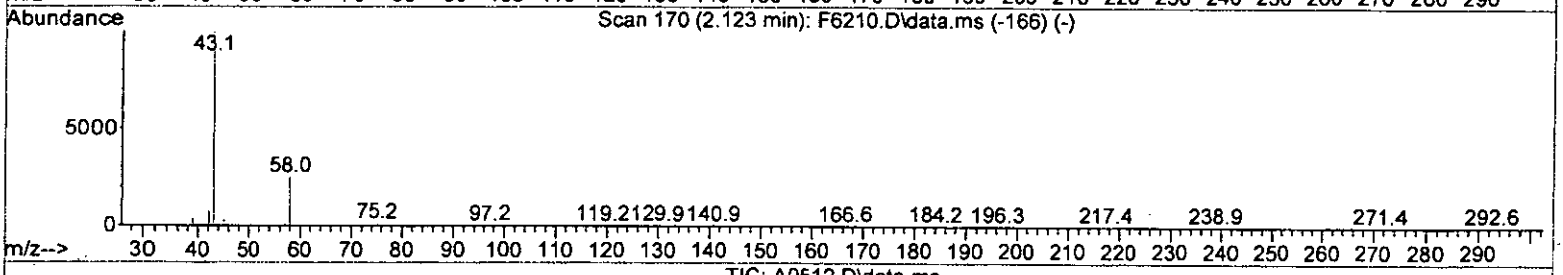
Quantitation Report (Qedit)

```
Sample    : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D      Vial: 5
Acq On    : 21 Jul 2014  12:52 pm
Operator  : F.NAEGLER
InstName  : MSVOA10
Misc      :

Quant Time: Jul 21 16:19:39 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration
```







TIC: A0512.D\data.ms

(15) Acetone (P)

2.117min (-0.006) 3.82 ug/L

response 7819

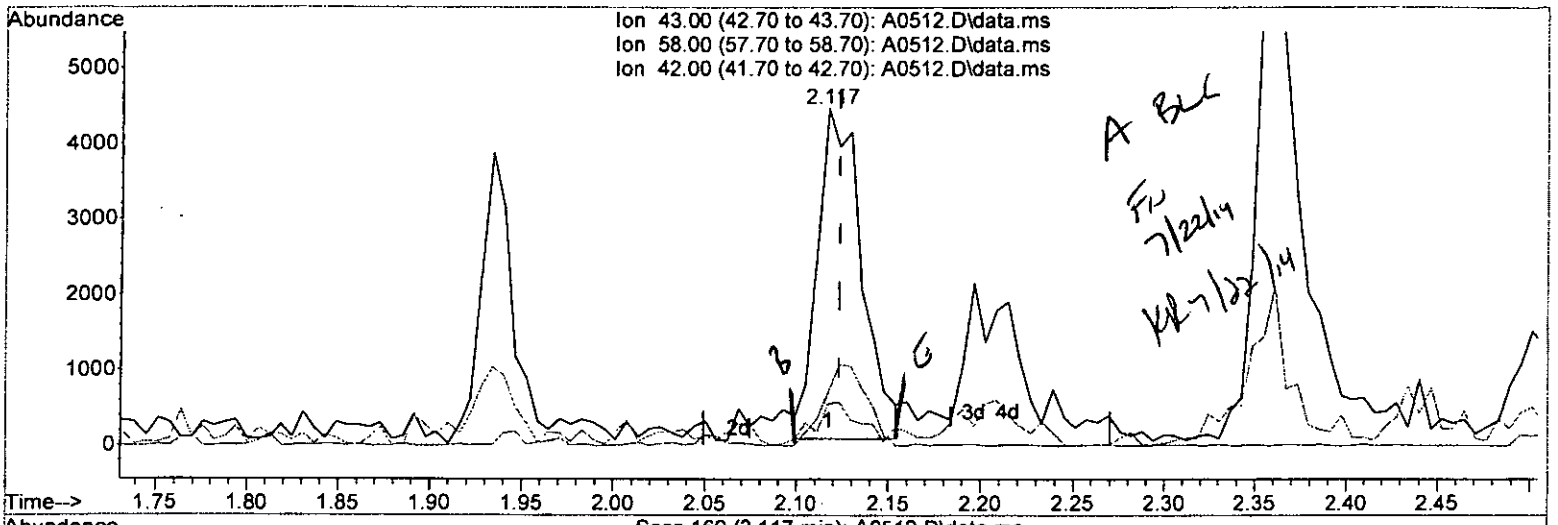
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	15.80
42.00	7.00	12.32
0.00	0.00	0.00

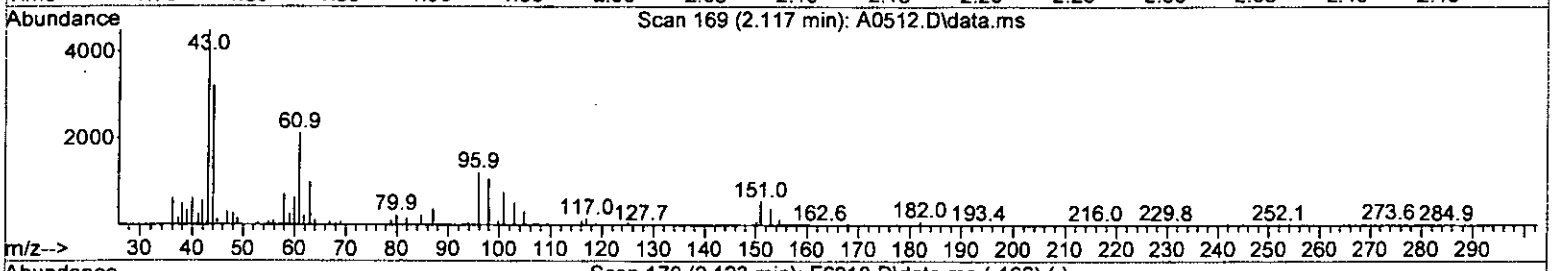
0045?

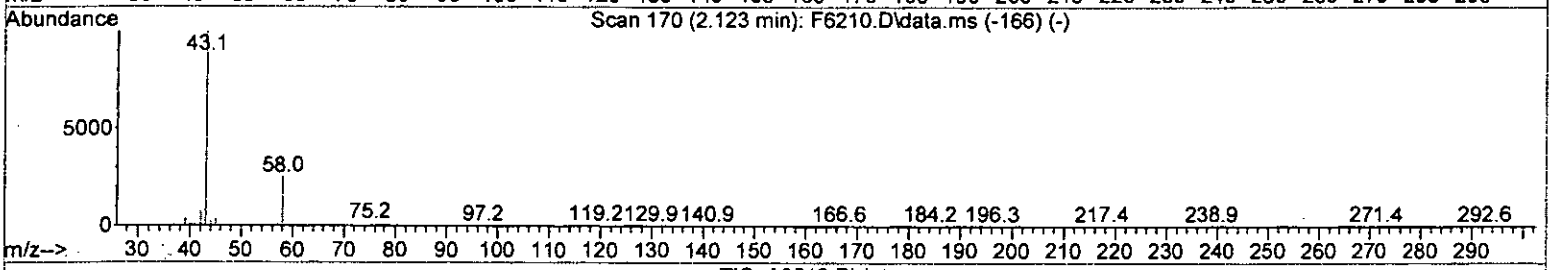
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:19:39 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(15) Acetone (P)

2.117min (-0.006) 3.56 ug/L m

response 7286

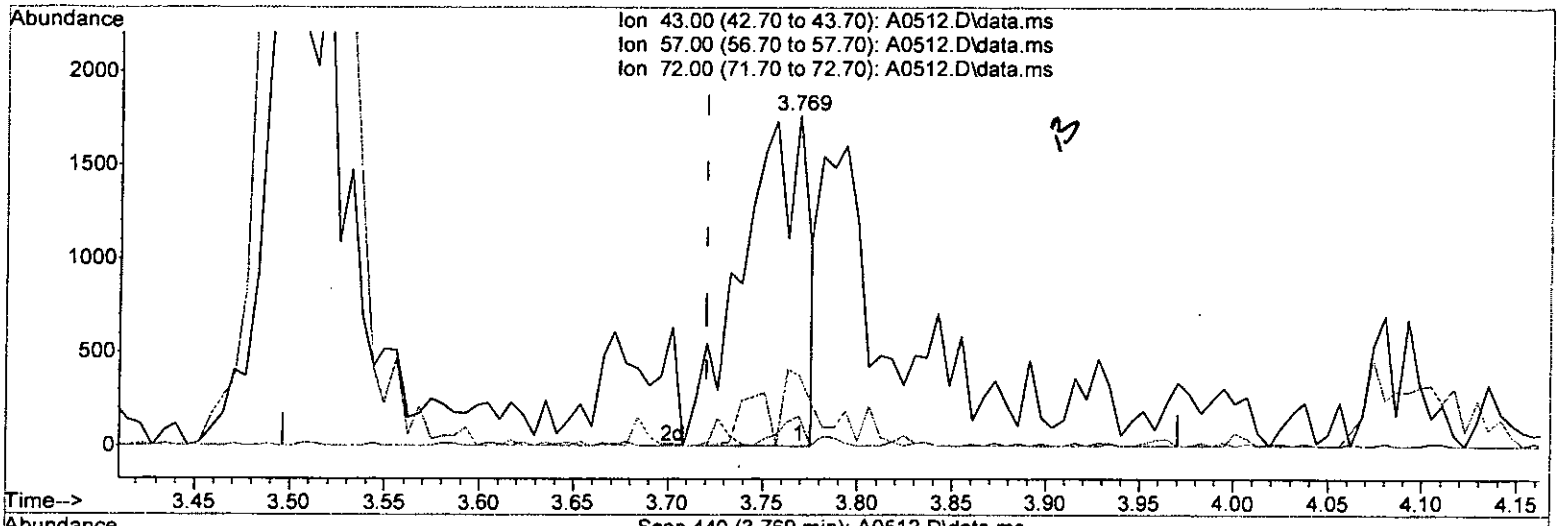
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	15.80
42.00	7.00	12.32
0.00	0.00	0.00

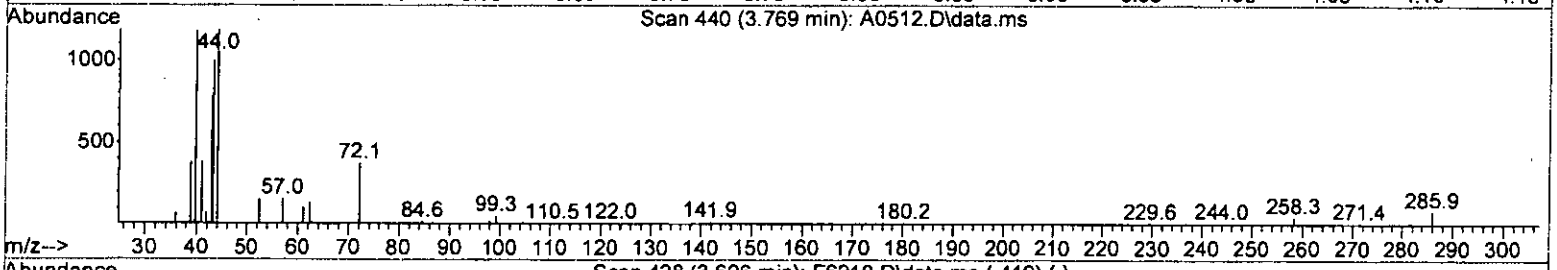
0045 8

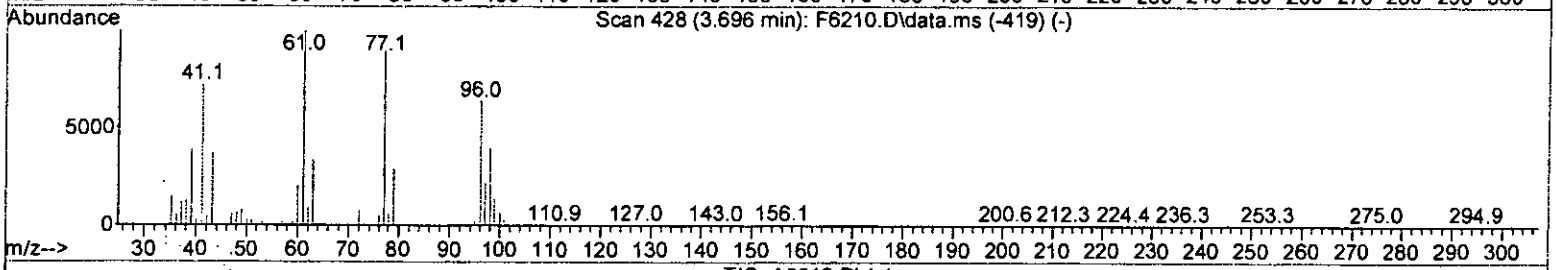
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(35) 2-Butanone (P)

3.769min (+0.049) 1.49 ug/L

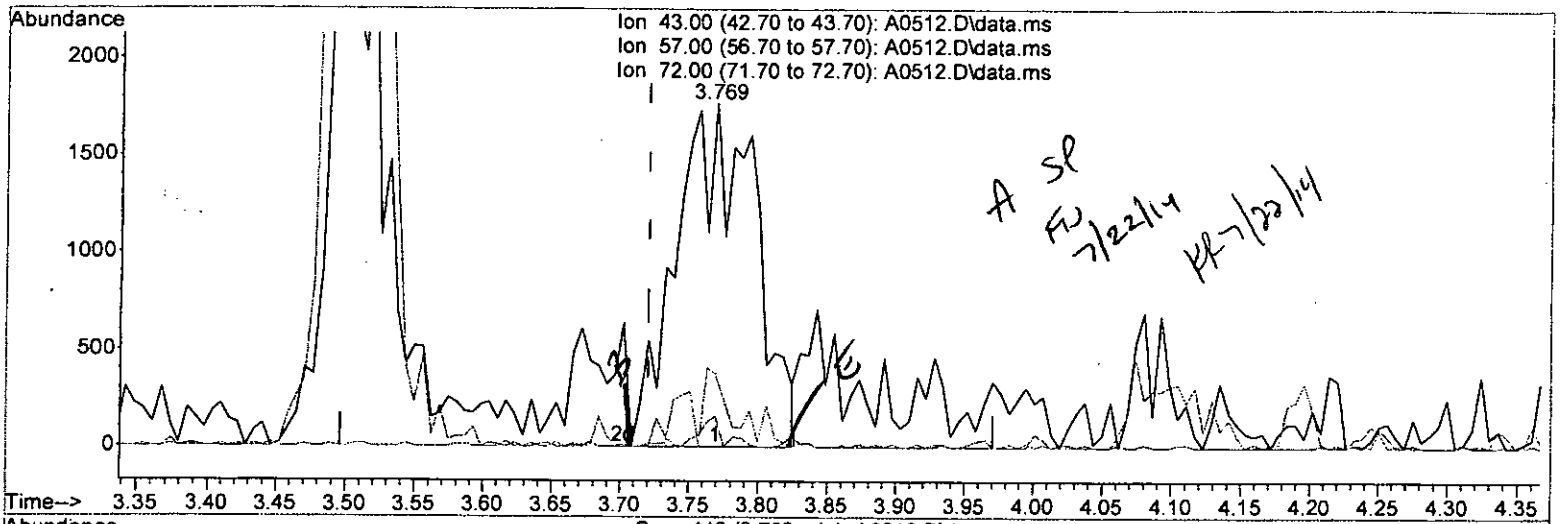
response 4165

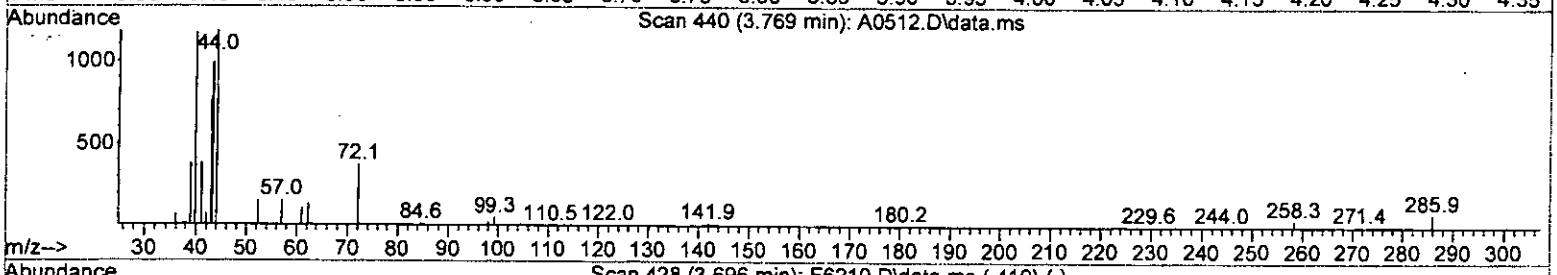
Ion	Exp%	Act%
43.00	100	100
57.00	8.30	8.89
72.00	23.50	21.12
0.00	0.00	0.00

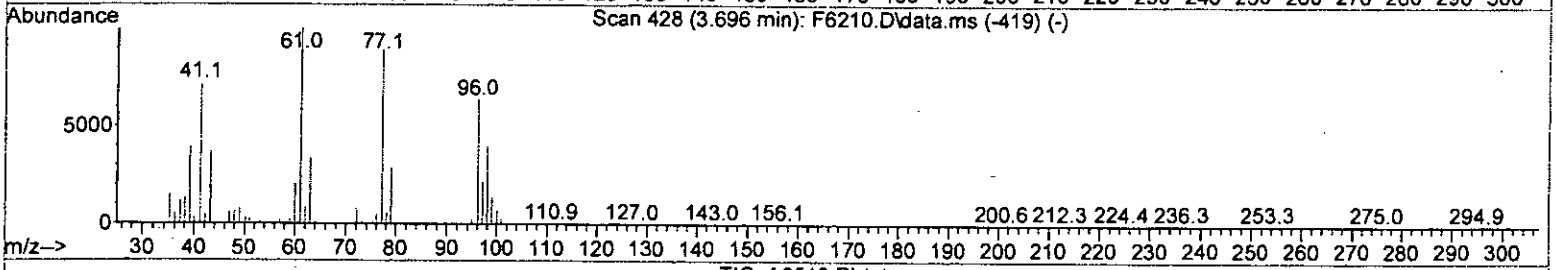
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(35) 2-Butanone (P)

3.769min (+0.049) 2.48 ug/L m

response 6918

Ion	Exp%	Act%
43.00	100	100
57.00	8.30	15.86
72.00	23.50	37.68
0.00	0.00	0.00

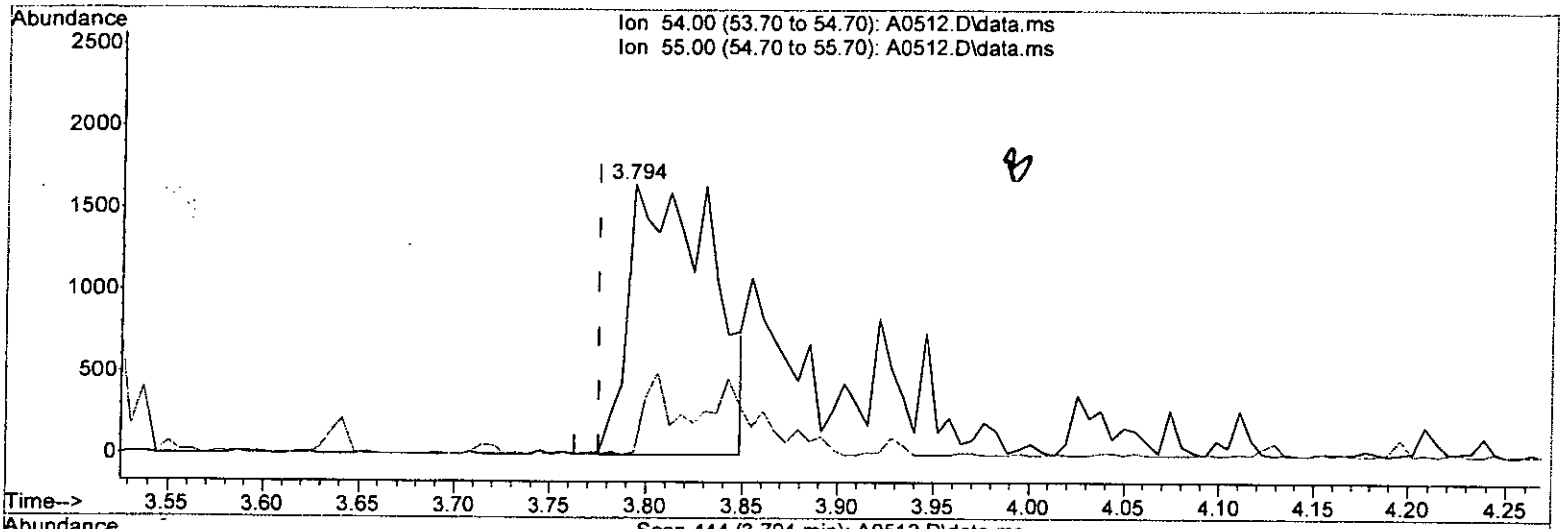
W072114.M Mon Jul 21 15:22:37 2014 MSVO10

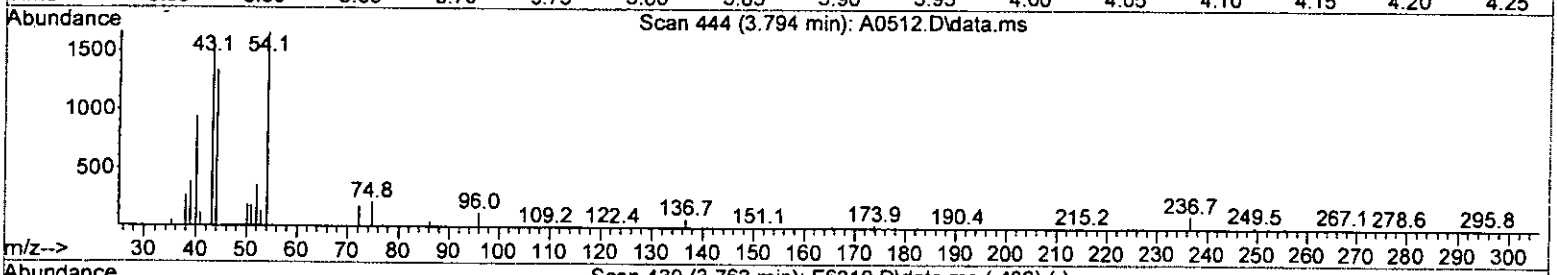
00460

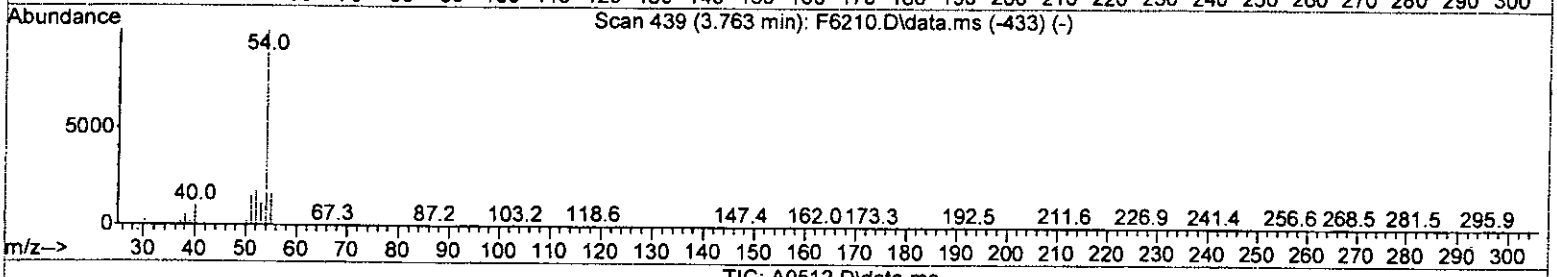
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(36) Propionitrile

3.794min (+0.018) 6.81 ug/L

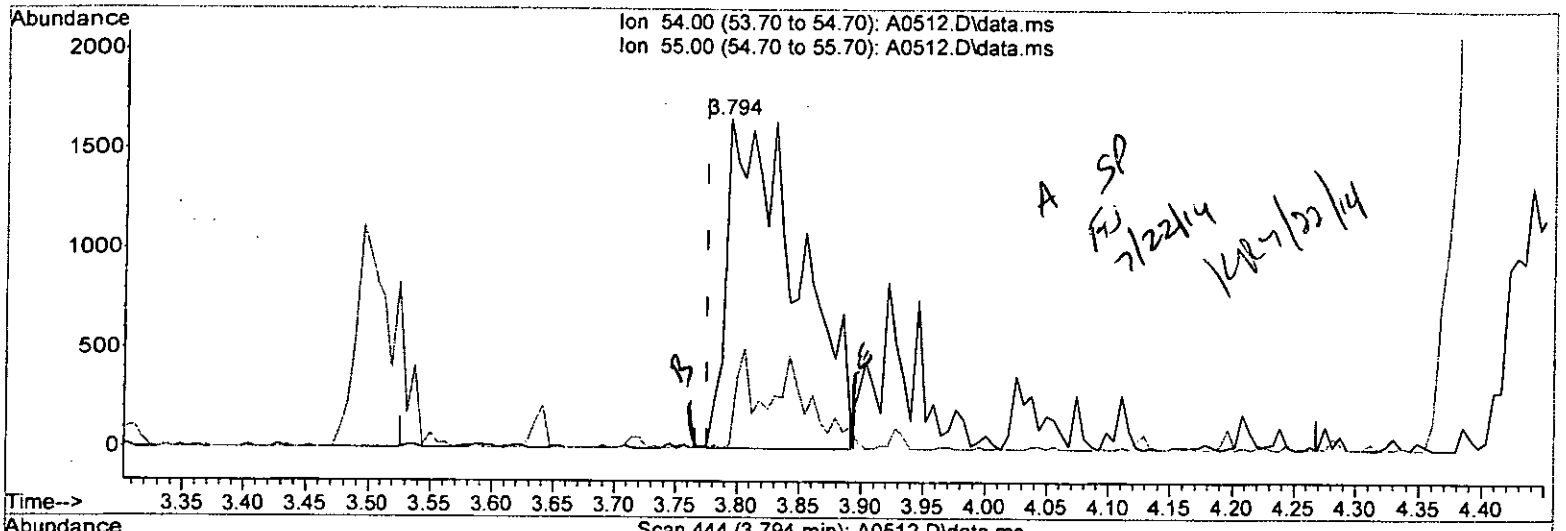
response 4914

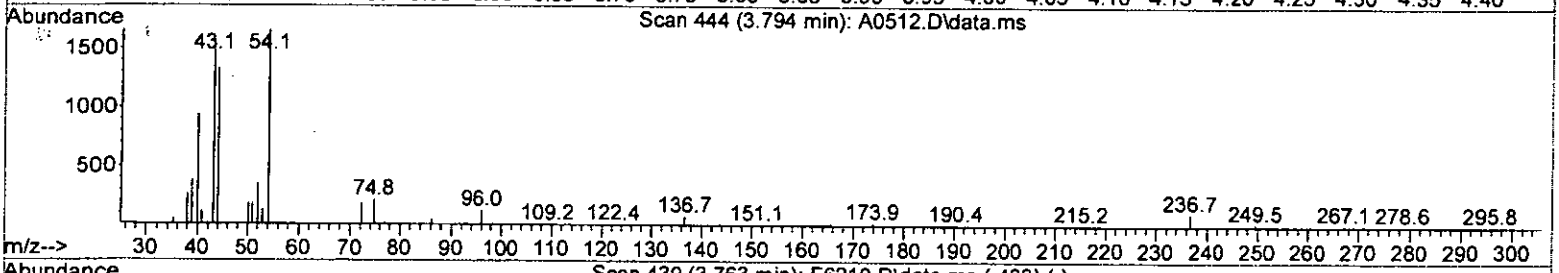
Ion	Exp%	Act%
54.00	100	100
55.00	13.70	1.03
0.00	0.00	0.00
0.00	0.00	0.00

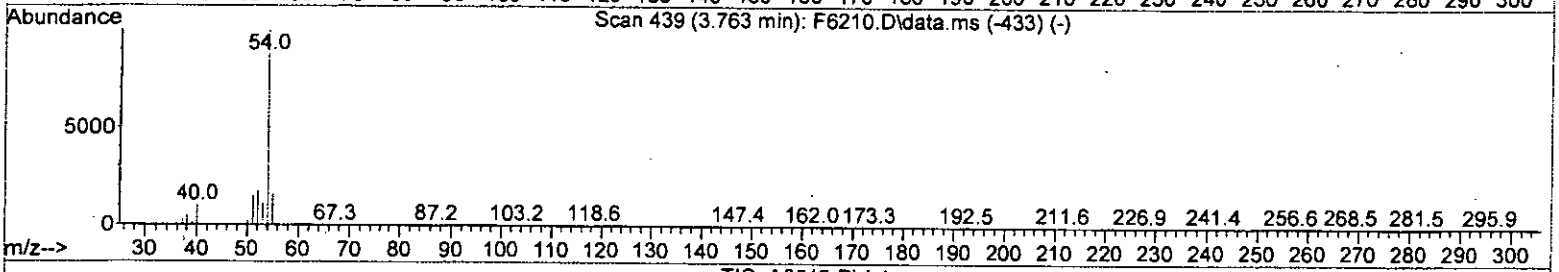
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(36) Propionitrile

3.794min (+0.018) 9.07 ug/L m

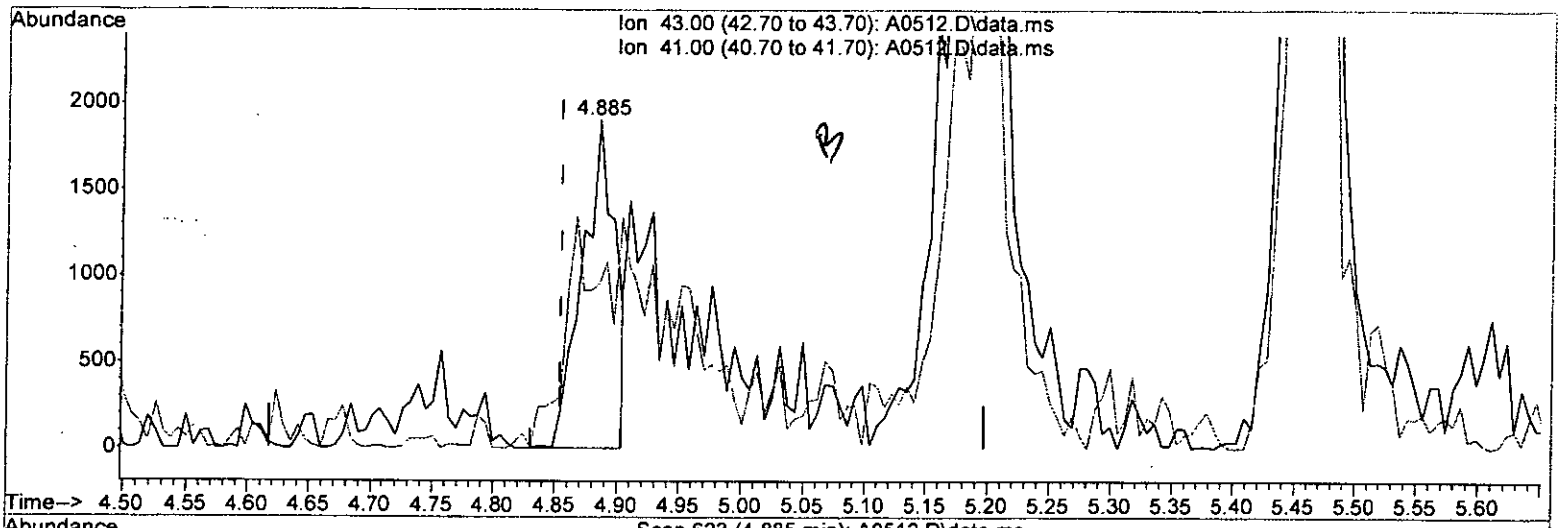
response 6542

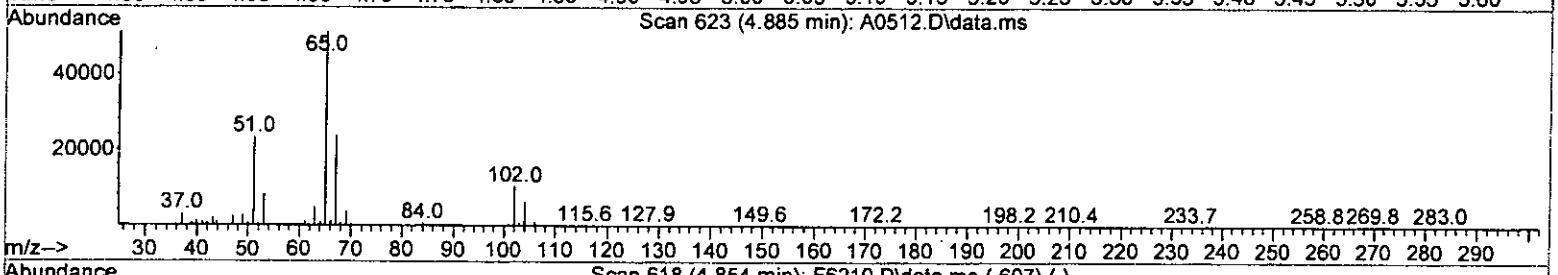
Ion	Exp%	Act%
54.00	100	100
55.00	13.70	1.03
0.00	0.00	0.00
0.00	0.00	0.00

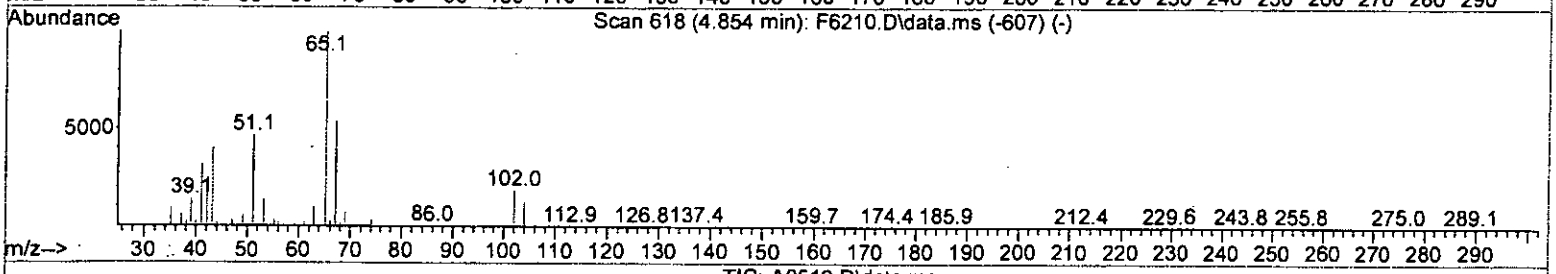
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(51) Iso-Butyl Alcohol

4.885min (+0.031) 12.01 ug/L

response 3466

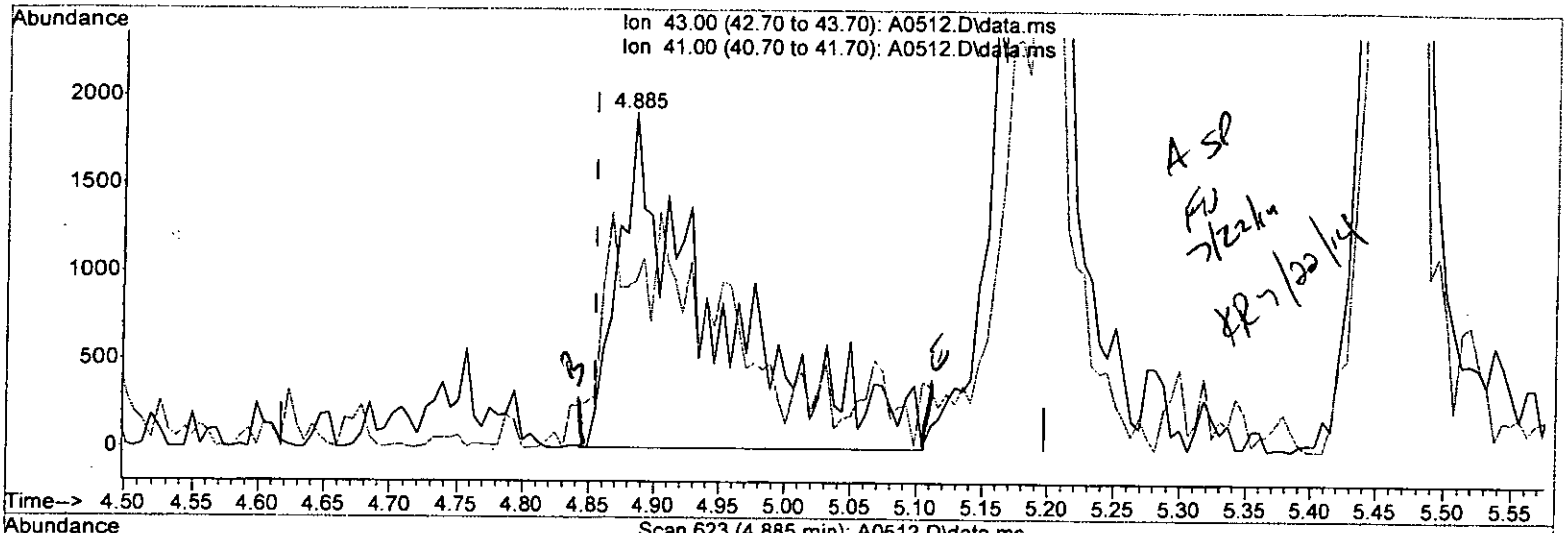
Ion	Exp%	Act%
43.00	100	100
41.00	76.40	49.84#
0.00	0.00	0.00
0.00	0.00	0.00

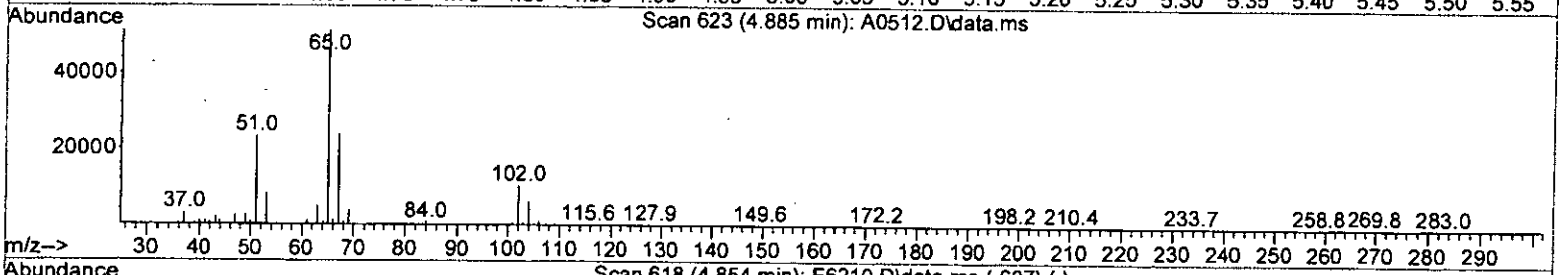
00463

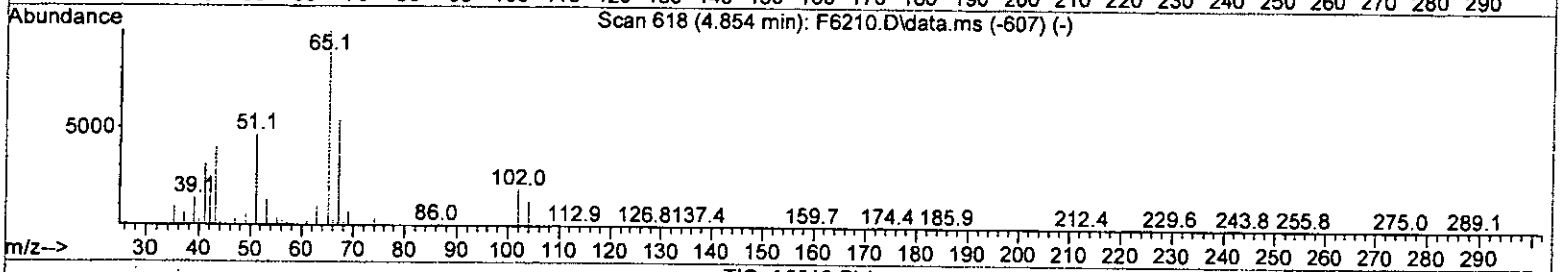
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(51) Iso-Butyl Alcohol

4.885min (+0.031) 34.27 ug/L m

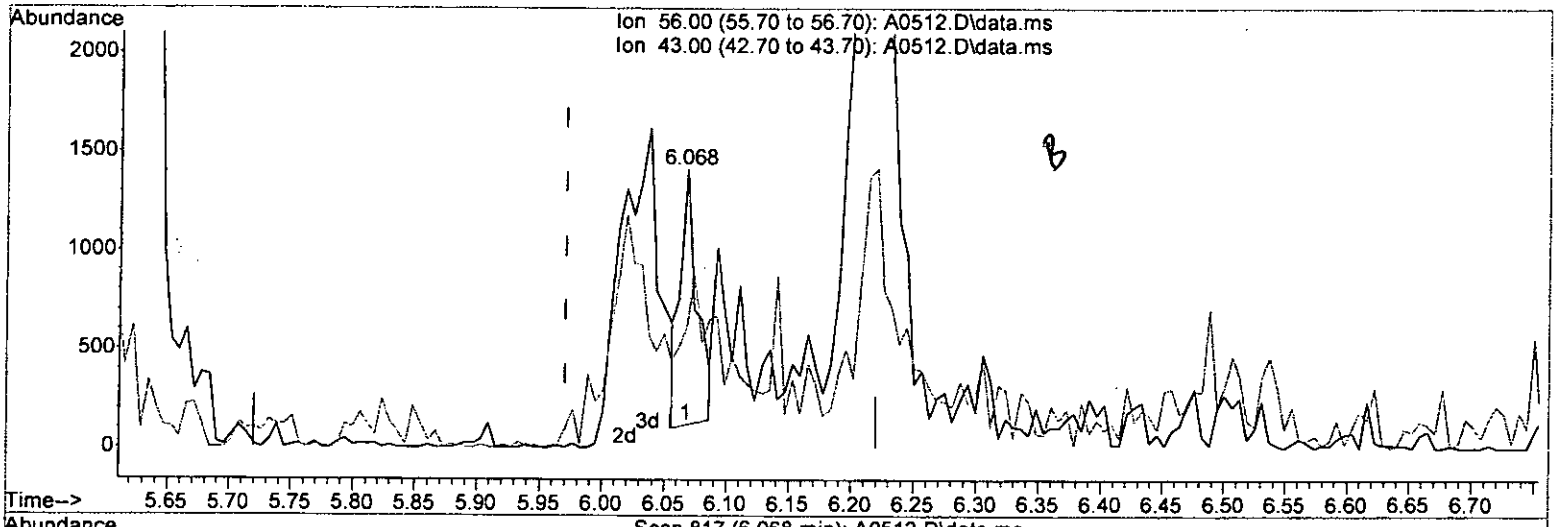
response 9886

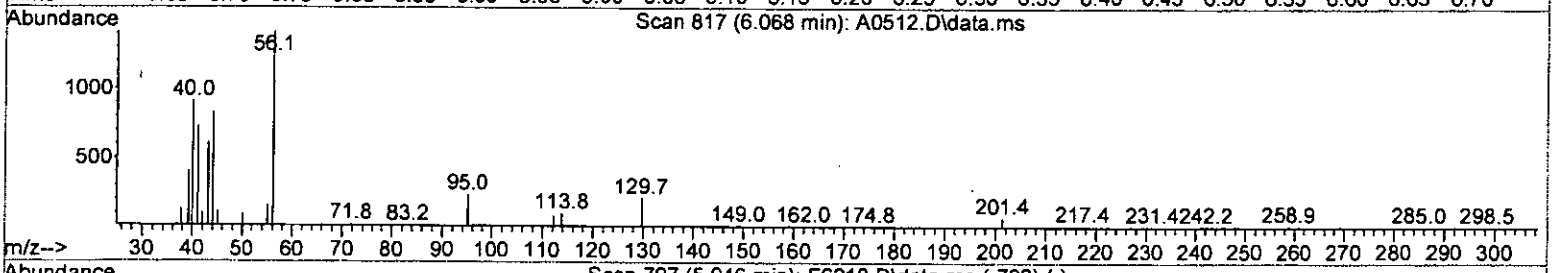
Ion	Exp%	Act%
43.00	100	100
41.00	76.40	49.84#
0.00	0.00	0.00
0.00	0.00	0.00

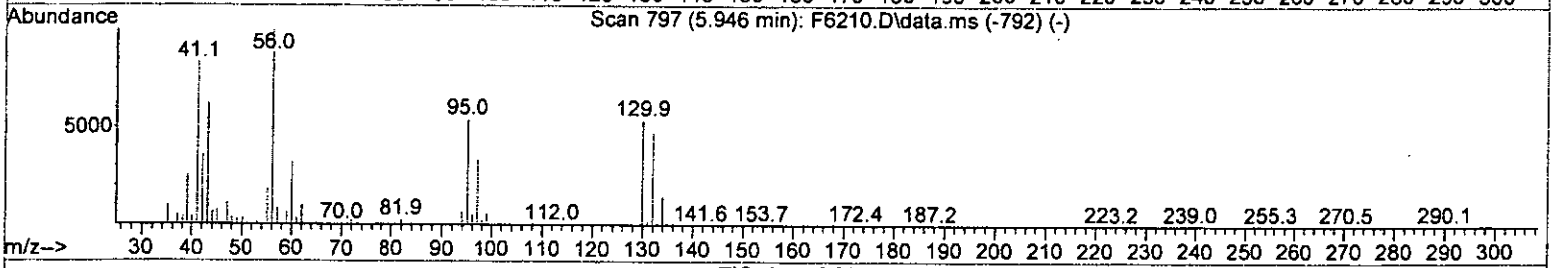
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(53) 1-Butanol

6.068min (+0.098) 8.98 ug/L

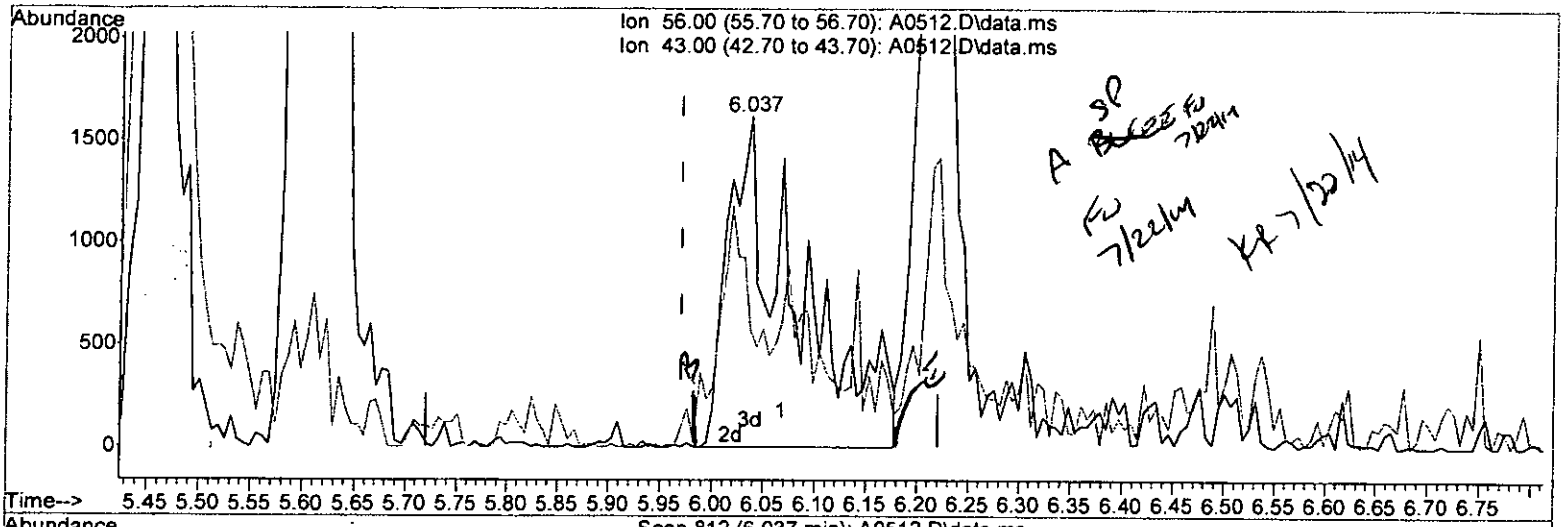
response 1213

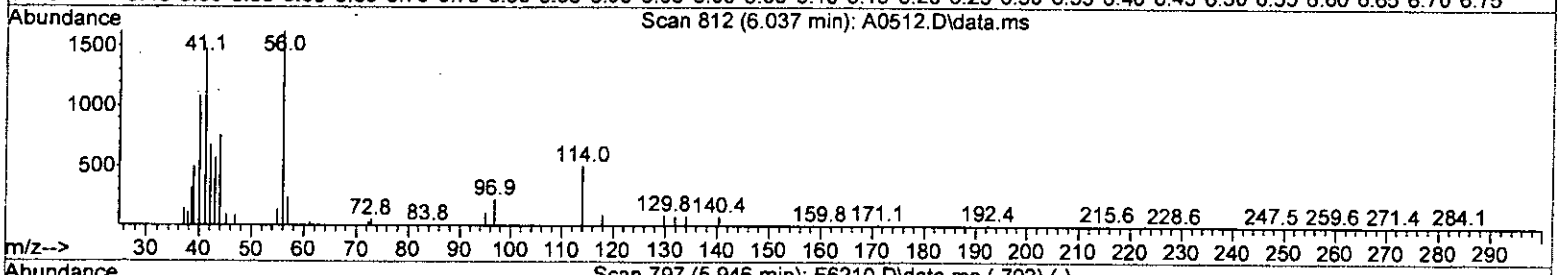
Ion	Exp%	Act%
56.00	100	100
43.00	56.20	43.06
0.00	0.00	0.00
0.00	0.00	0.00

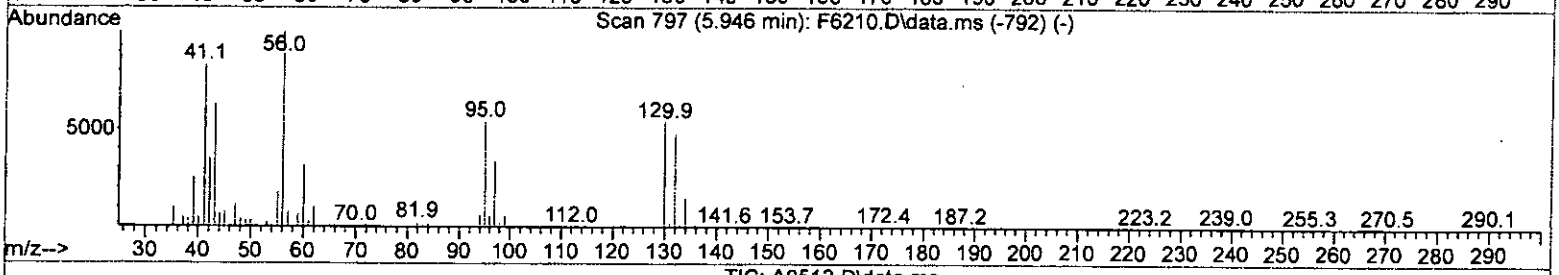
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:27:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(53) 1-Butanol

6.037min (+0.067) 55.80 ug/L m

response 7536

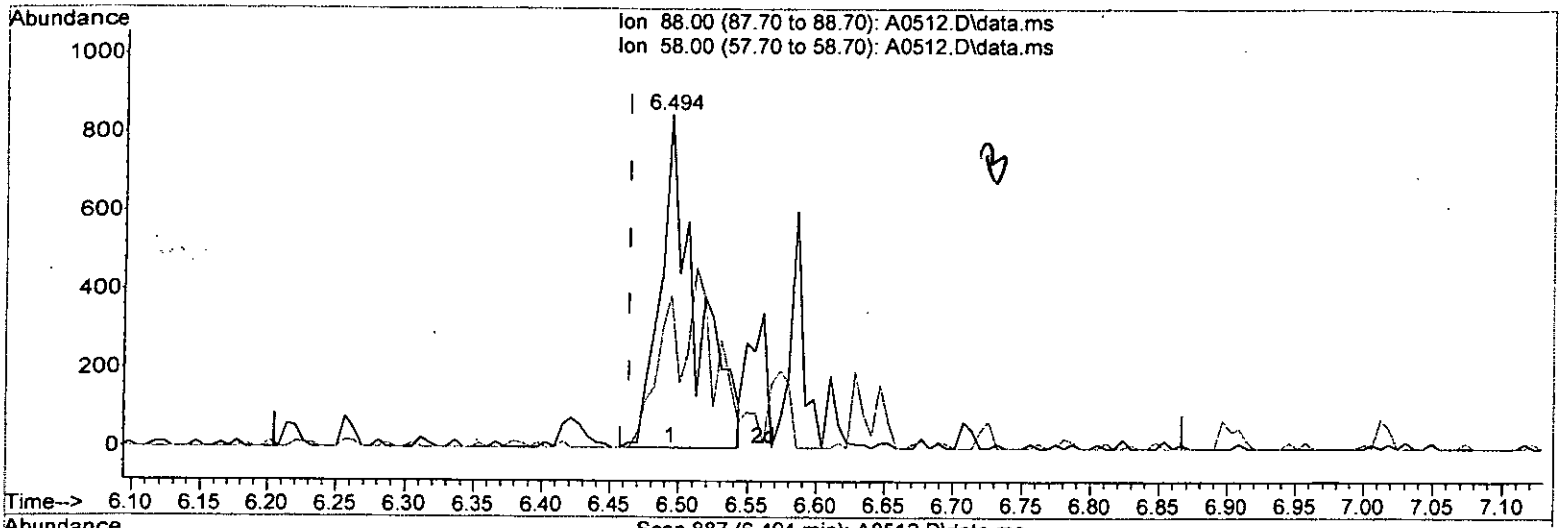
Ion	Exp%	Act%
56.00	100	100
43.00	56.20	35.04#
0.00	0.00	0.00
0.00	0.00	0.00

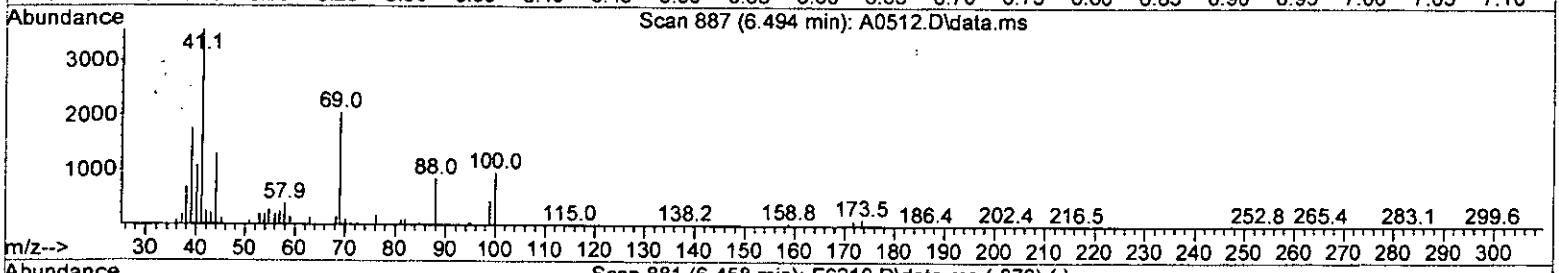
00466

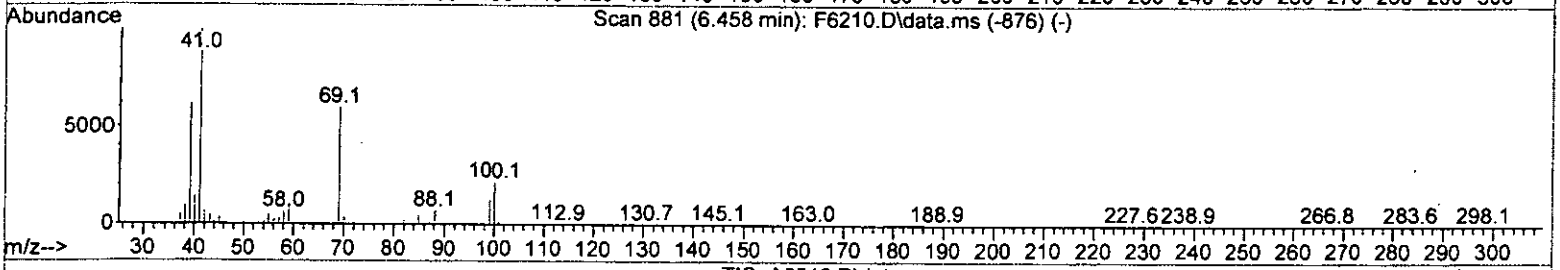
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(58) 1,4-Dioxane

6.494min (+0.031) 30.58 ug/L

response 1525

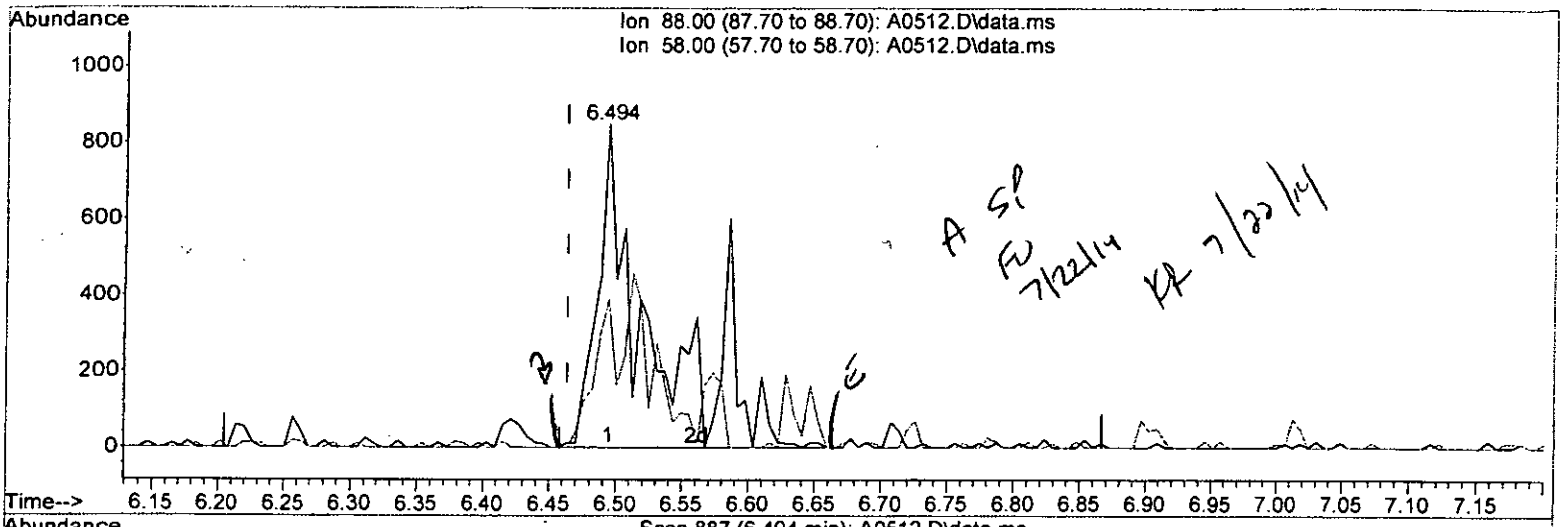
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	45.70#
0.00	0.00	0.00
0.00	0.00	0.00

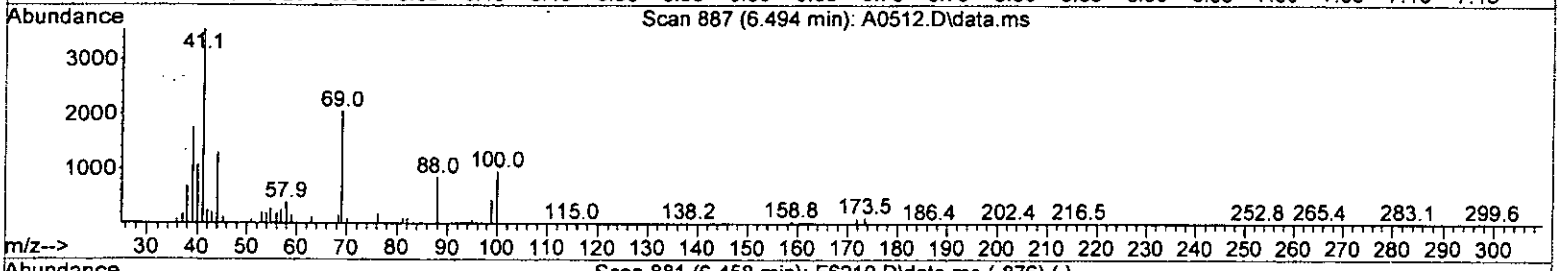
00467

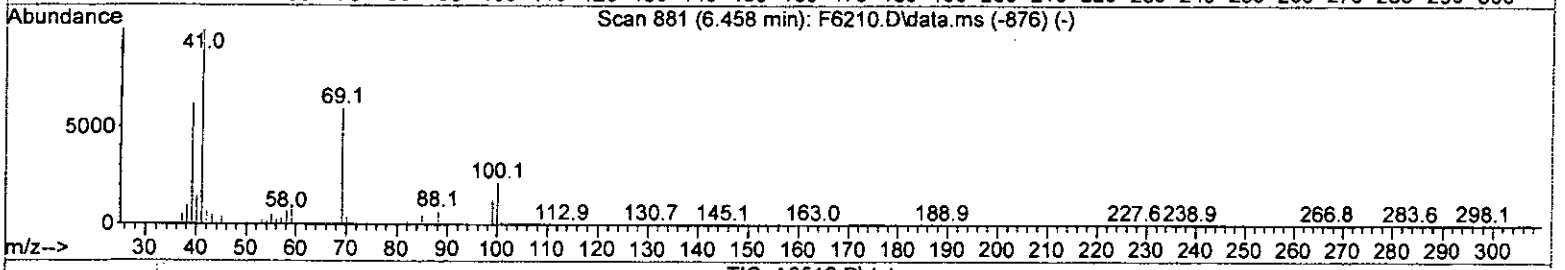
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(58) 1,4-Dioxane

6.494min (+0.031) 47.00 ug/L m

response 2344

Ion	Exp%	Act%
88.00	100	100
58.00	73.00	45.70#
0.00	0.00	0.00
0.00	0.00	0.00

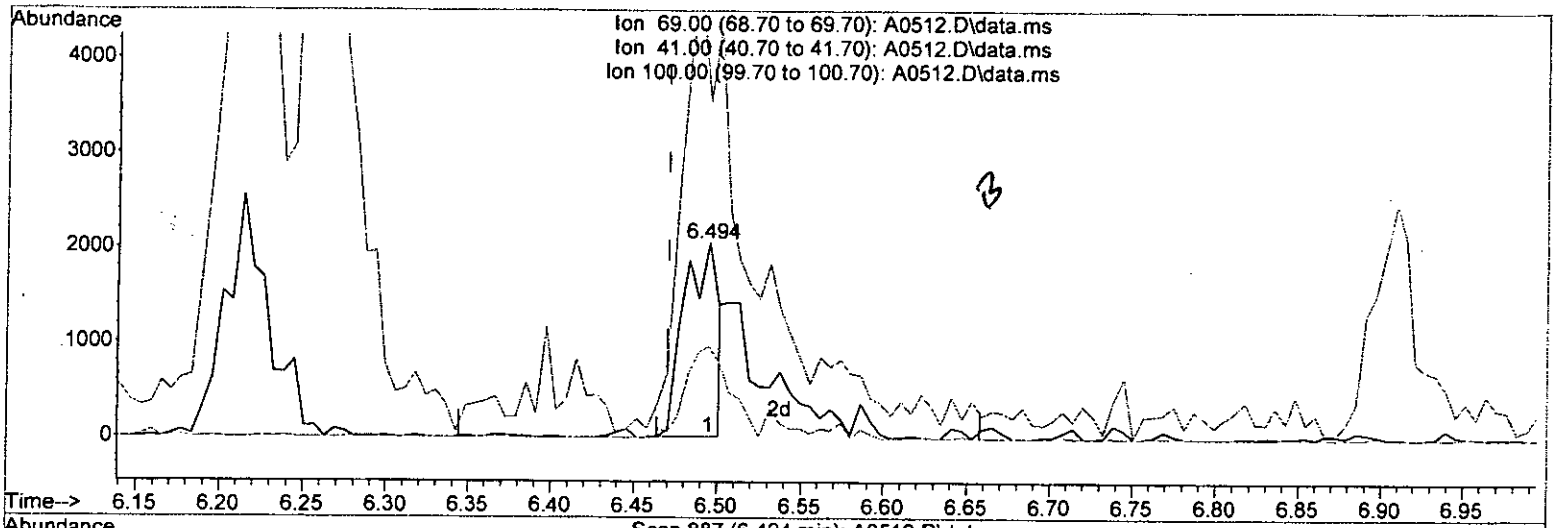
W072114.M Mon Jul 21 15:24:56 2014 MSVO10

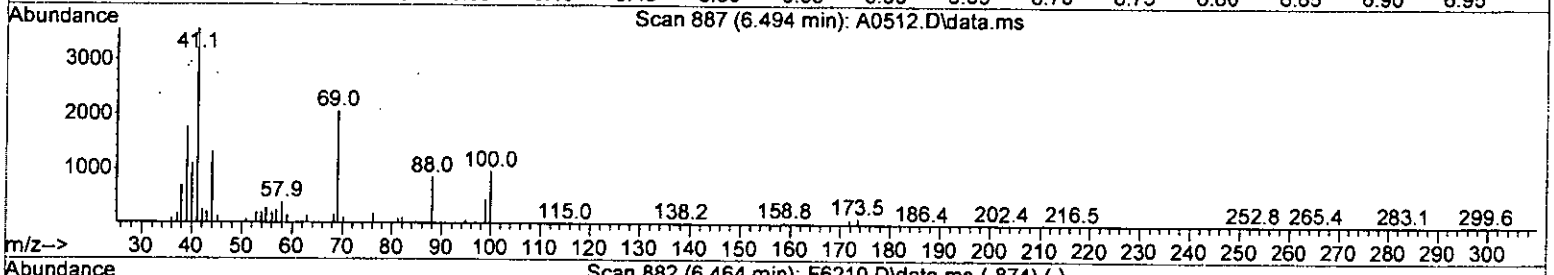
00468

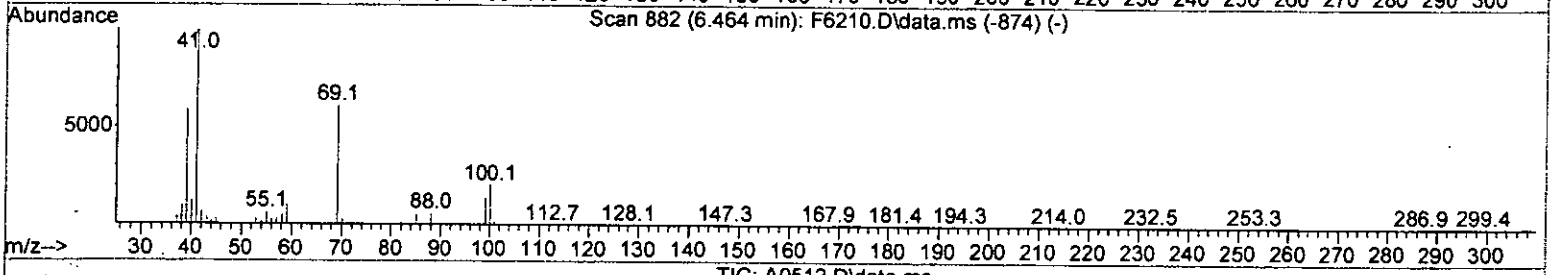
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(59) Methyl Methacrylate

6.494min (+0.025) 0.70 ug/L

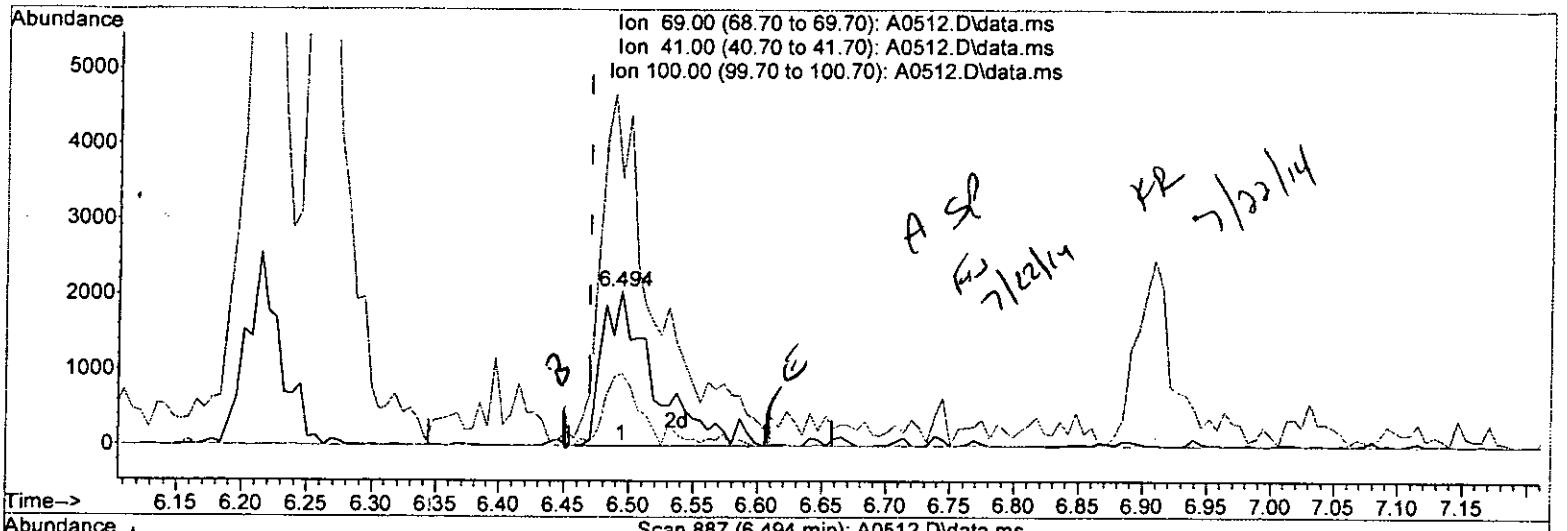
response 2894

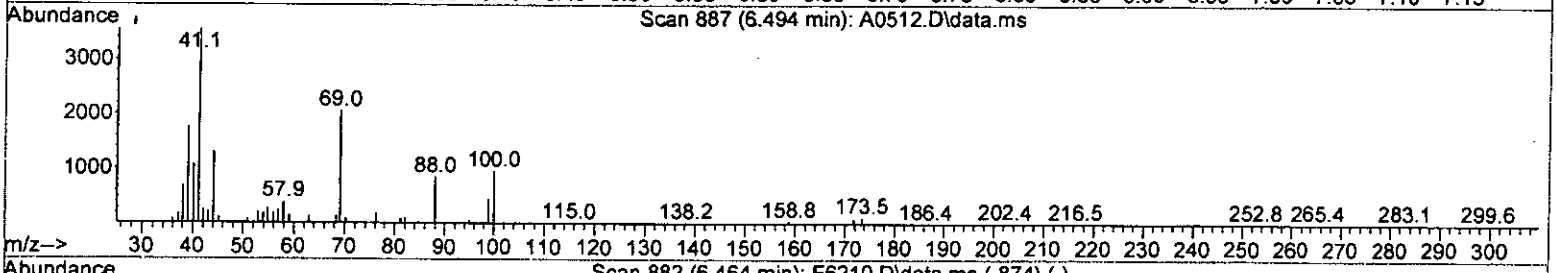
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	172.86#
100.00	36.90	46.64
0.00	0.00	0.00

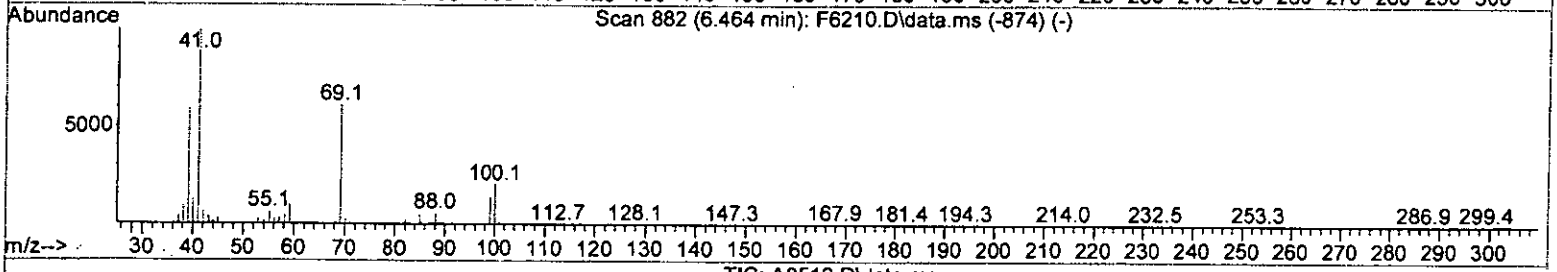
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(59) Methyl Methacrylate

6.494min (+0.025) 1.40 ug/L m

response 5744

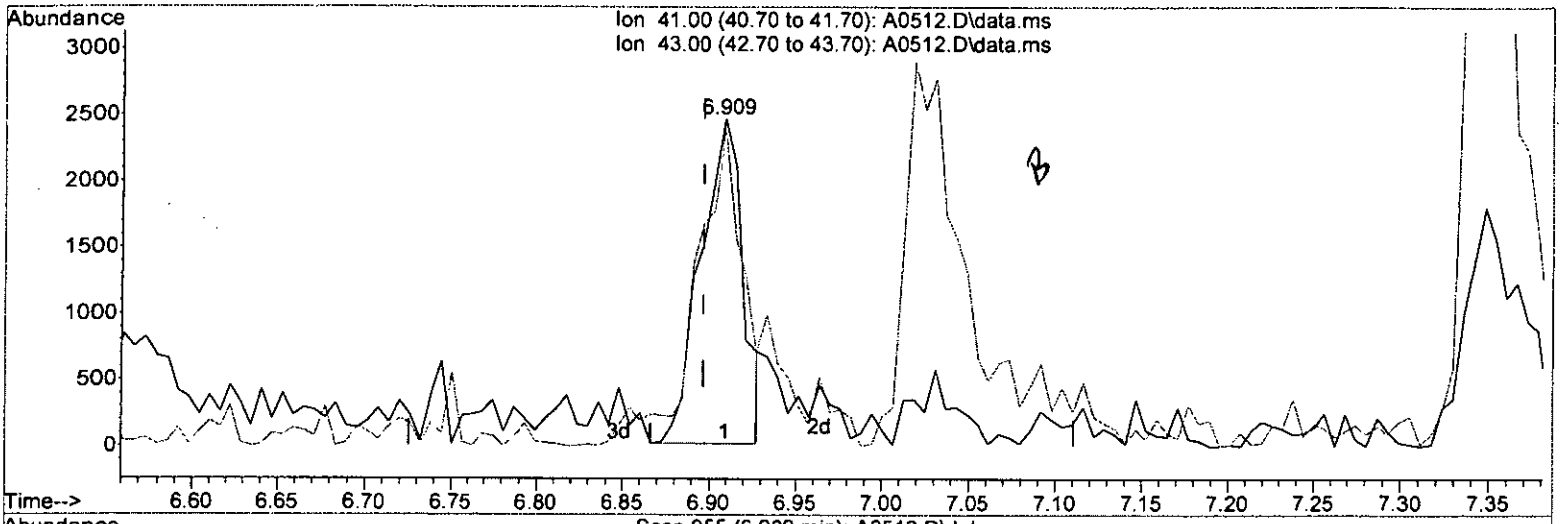
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	172.86#
100.00	36.90	46.64
0.00	0.00	0.00

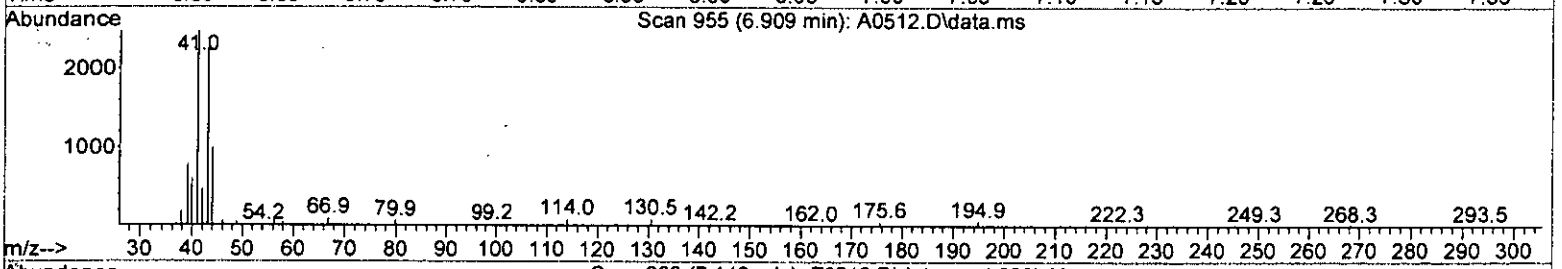
W072114.M Mon Jul 21 15:25:21 2014 MSVO10 Page: 1

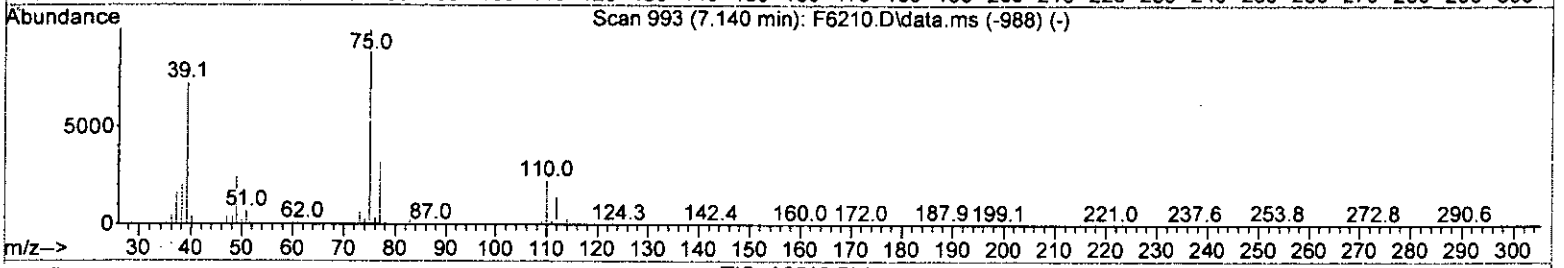
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(61) 2-Nitropropane

6.909min (+0.012) 2.59 ug/L

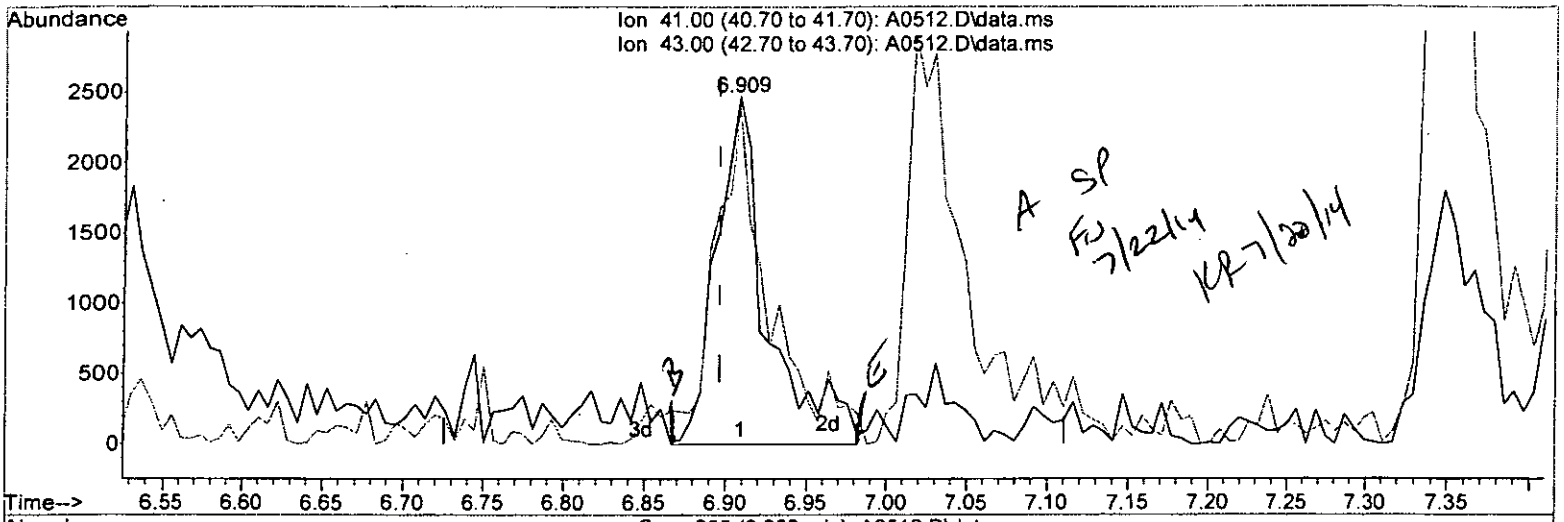
response 4119

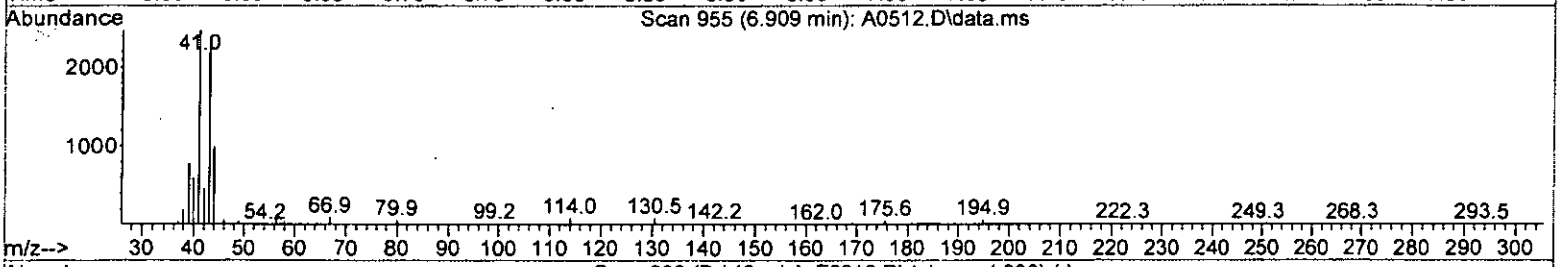
Ion	Exp%	Act%
41.00	100	100
43.00	108.60	96.64
0.00	0.00	0.00
0.00	0.00	0.00

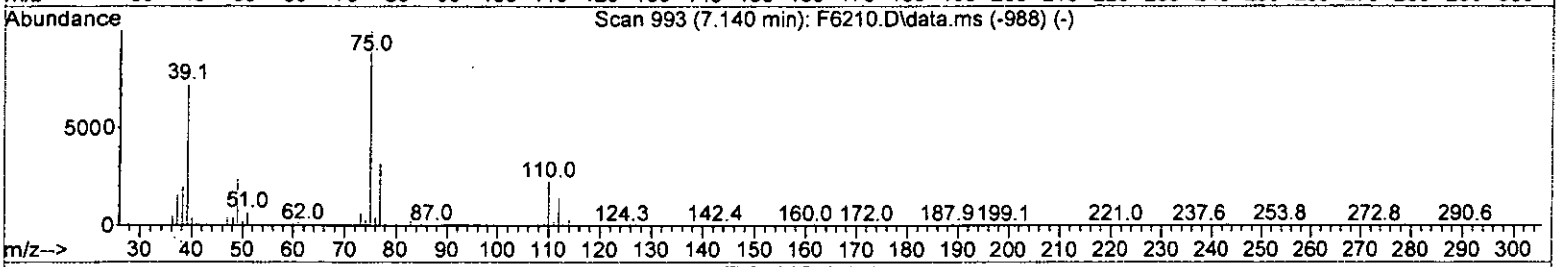
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(61) 2-Nitropropane

6.909min (+0.012) 3.36 ug/L m

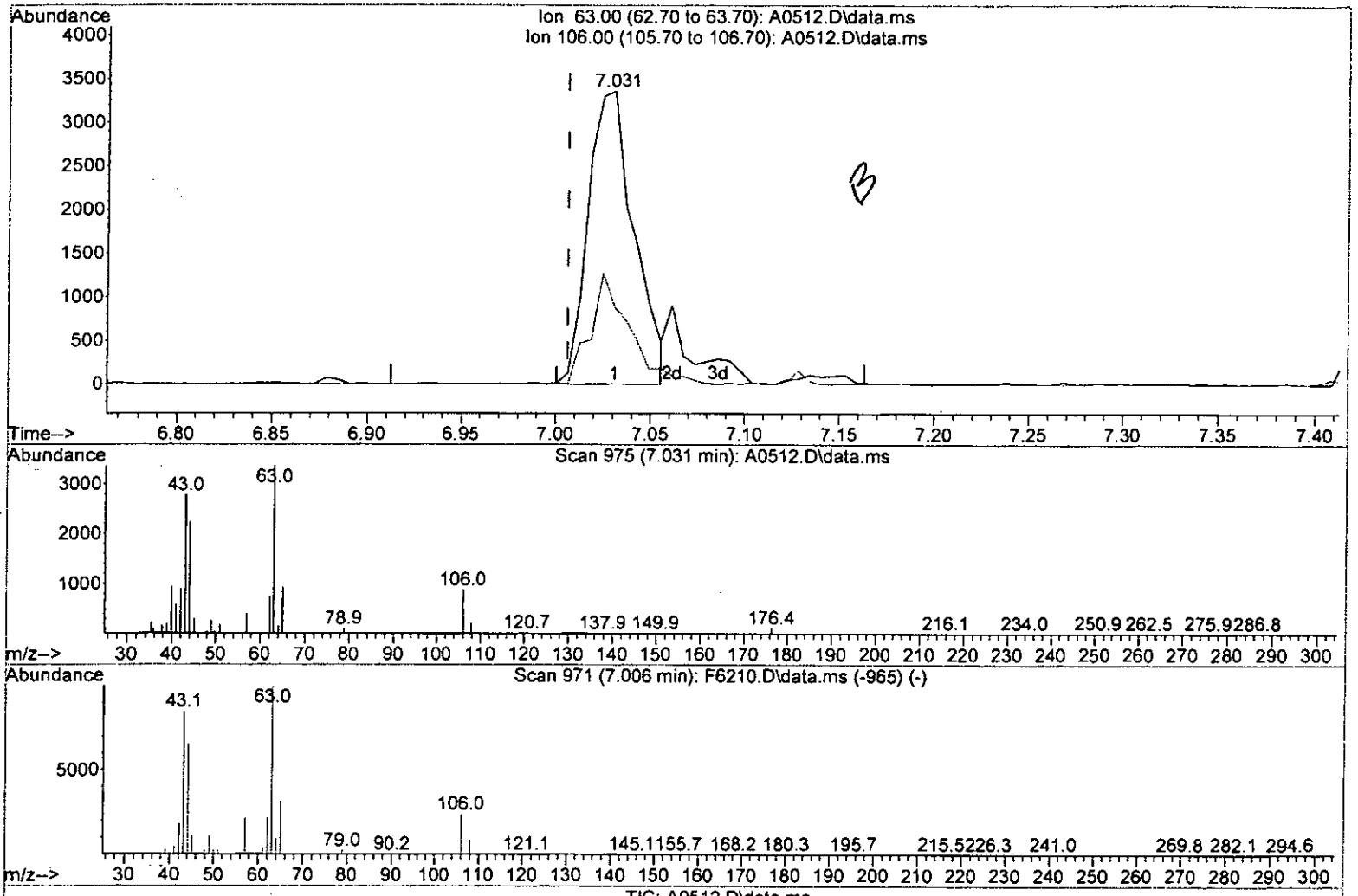
response 5342

Ion	Exp%	Act%
41.00	100	100
43.00	108.60	96.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0512.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.031min (+0.024) 1.20 ug/L

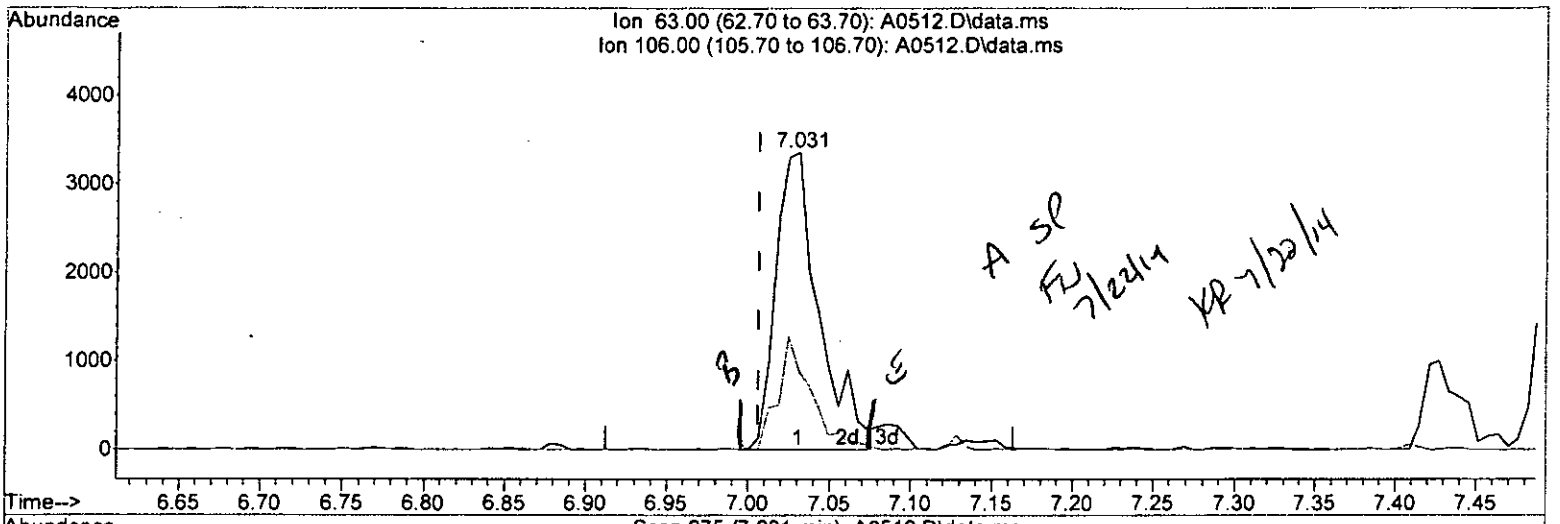
response 5619

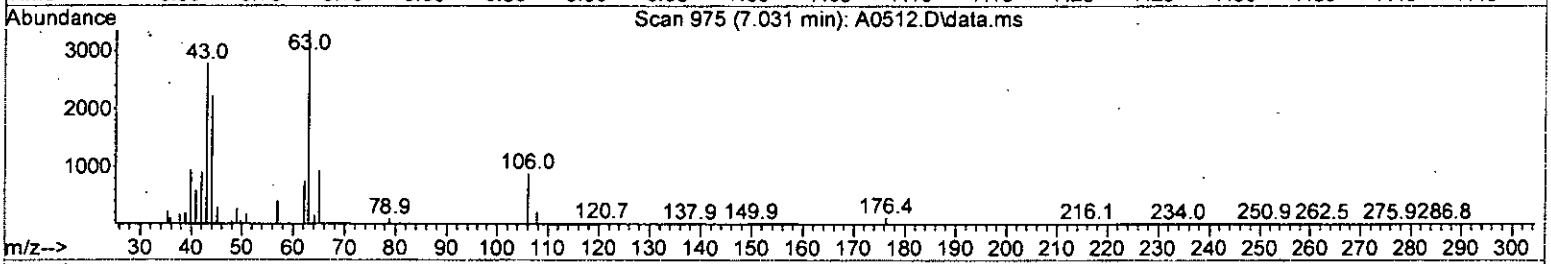
Ion	Exp%	Act%
63.00	100	100
106.00	27.80	26.30
0.00	0.00	0.00
0.00	0.00	0.00

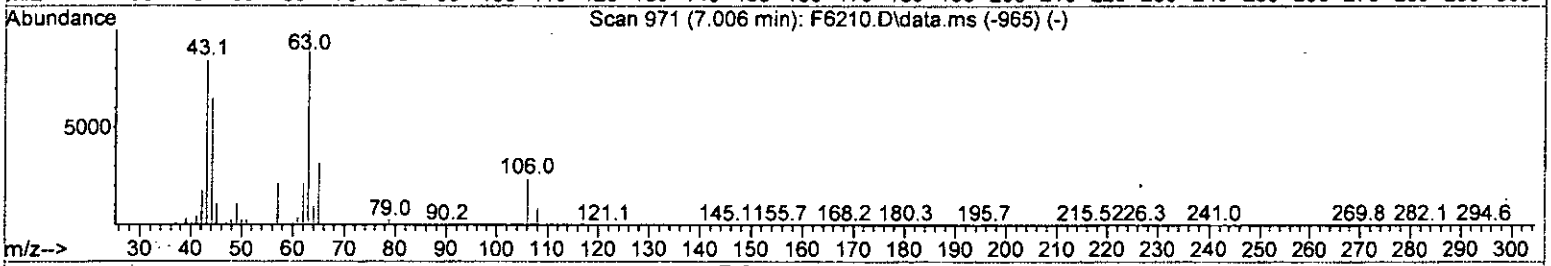
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.031min (+0.024) 1.31 ug/L m

response 6148

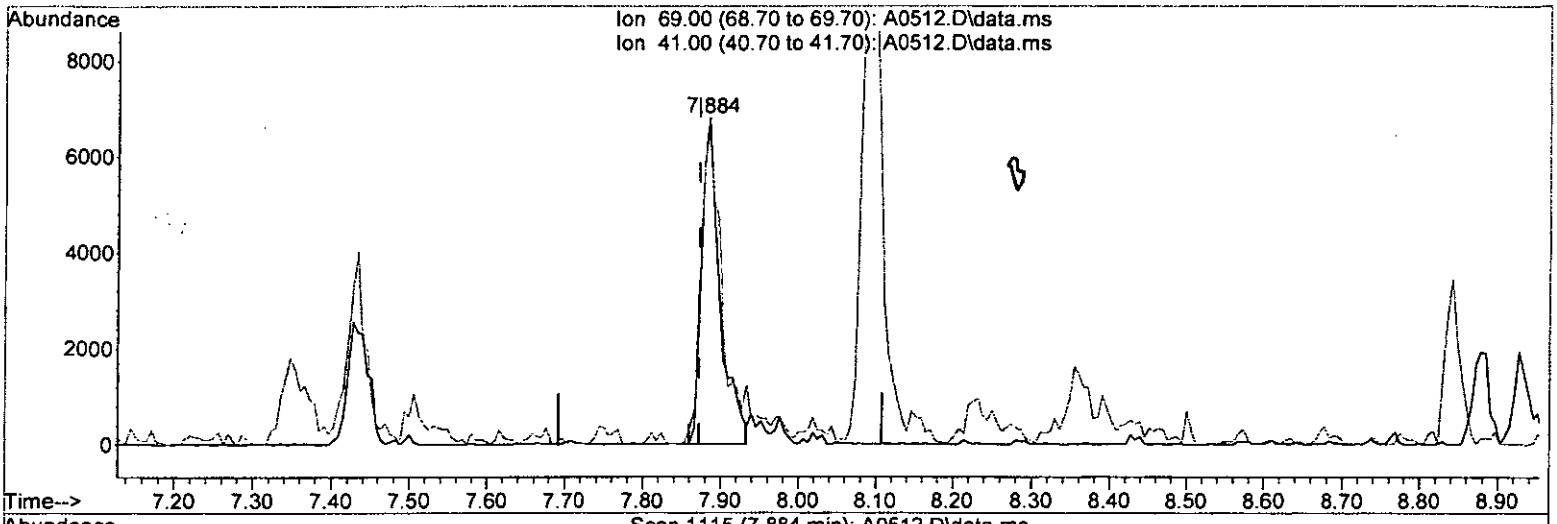
Ion	Exp%	Act%
63.00	100	100
106.00	27.80	26.30
0.00	0.00	0.00
0.00	0.00	0.00

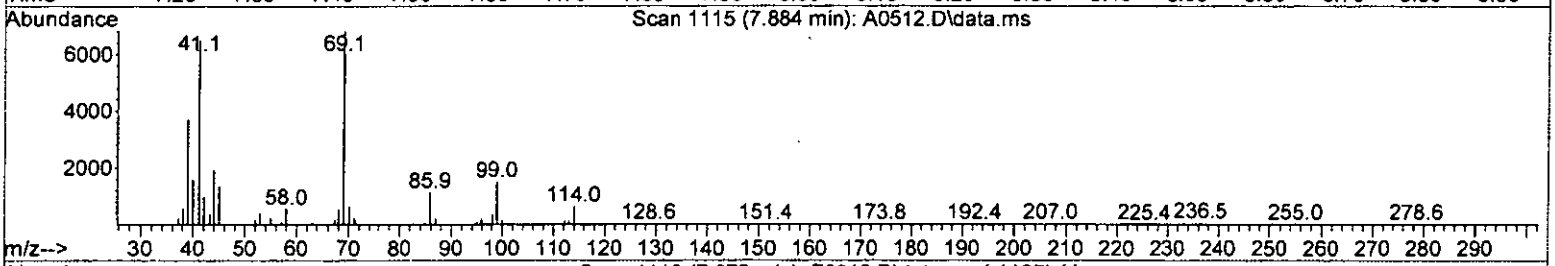
00474

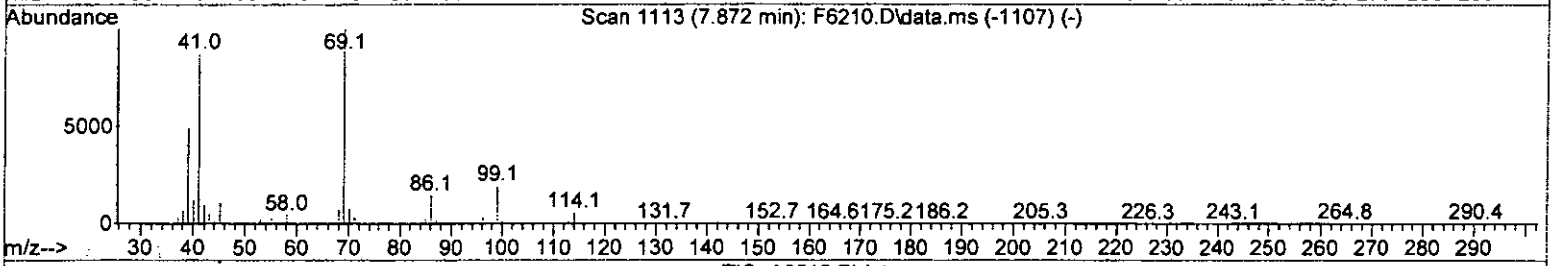
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:27:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(68) Ethyl Methacrylate

7.884min (+0.012) 1.31 ug/L

response 11254

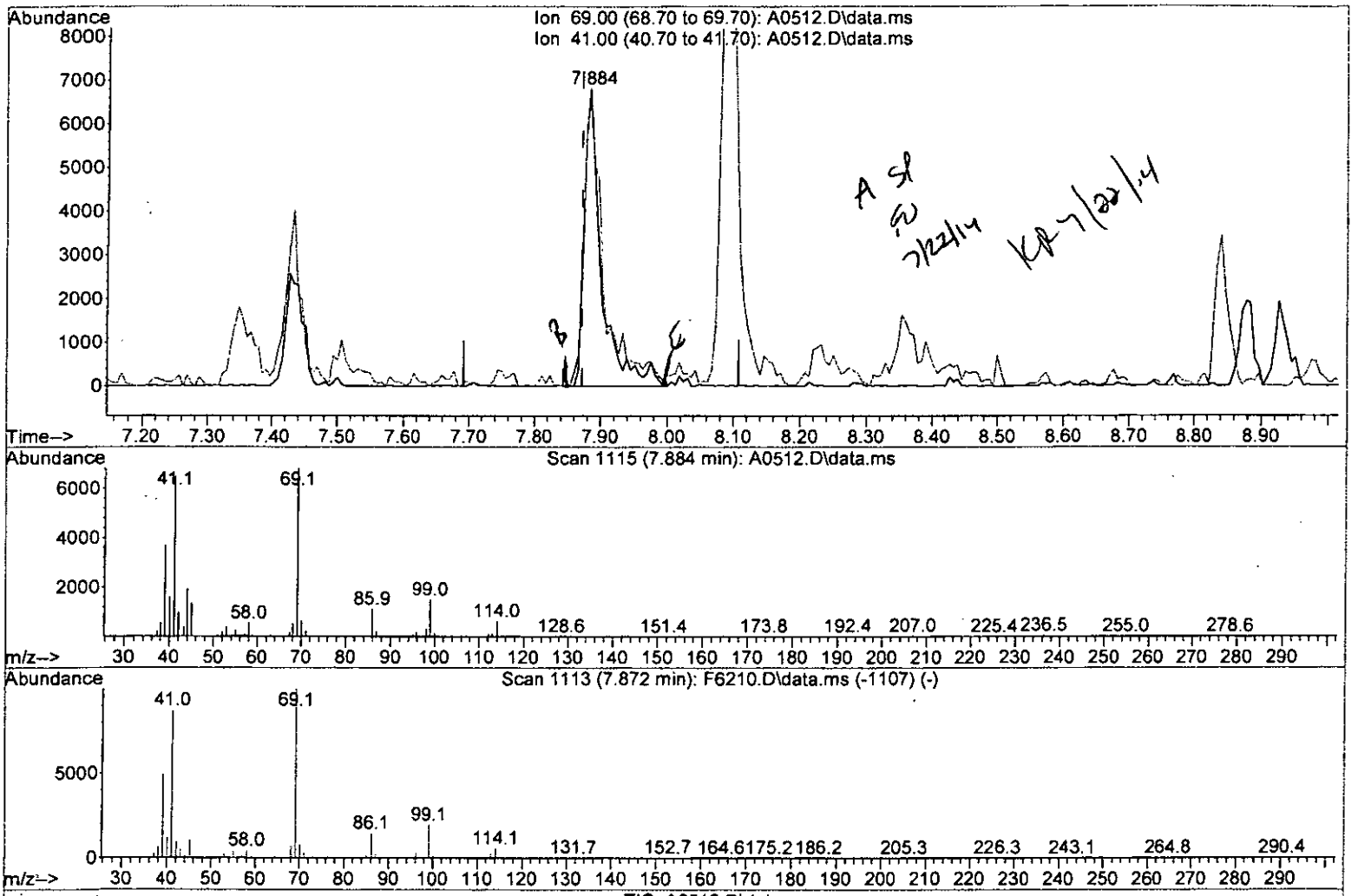
Ion	Exp%	Act%
69.00	100	100
41.00	71.50	95.31#
0.00	0.00	0.00
0.00	0.00	0.00

00475

Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:27:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



(68) Ethyl Methacrylate

7.884min (+0.012) 1.45 ug/L m

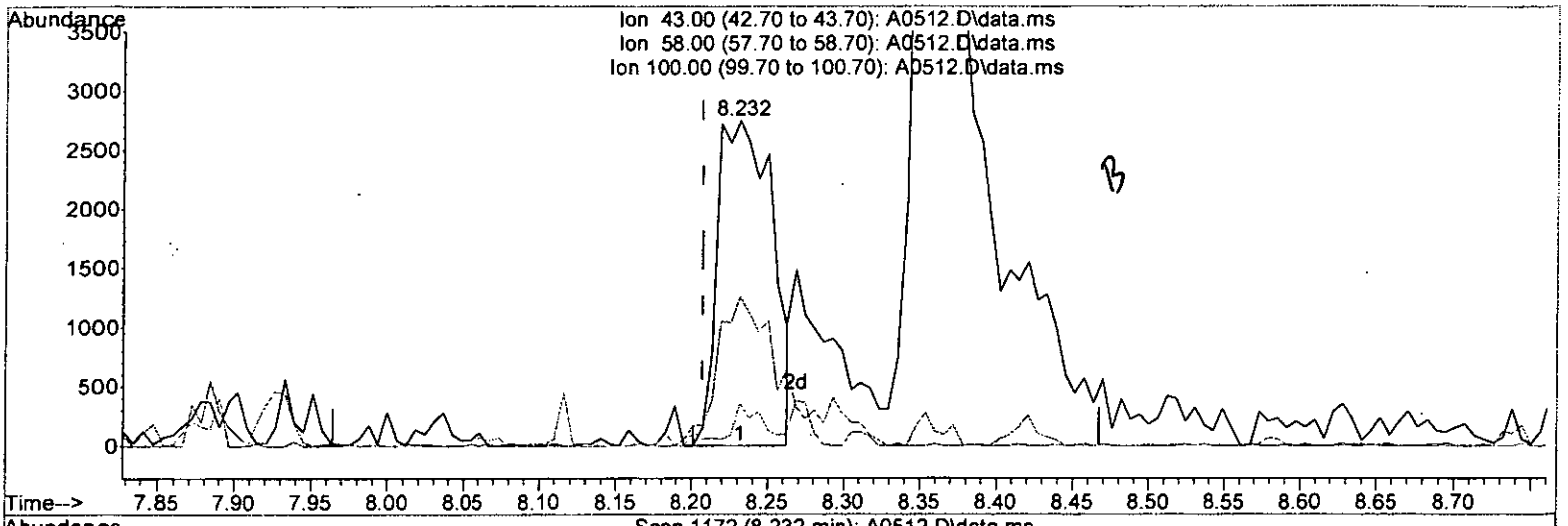
response 12423

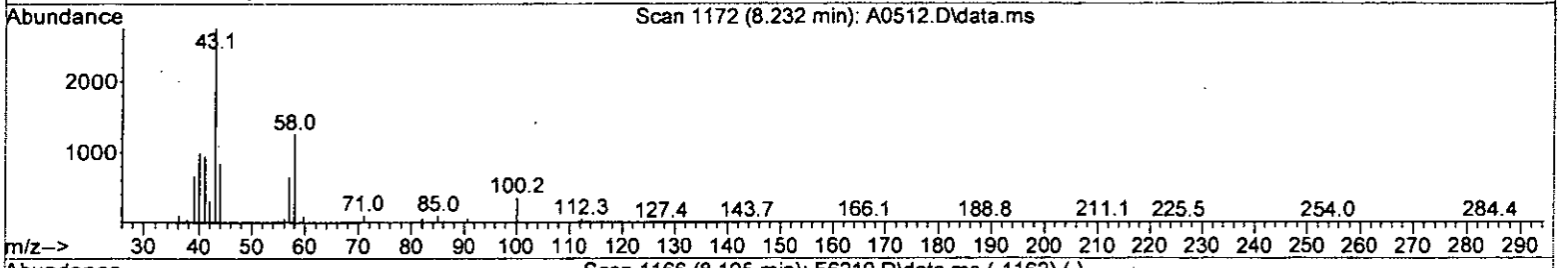
Ion	Exp%	Act%
69.00	100	100
41.00	71.50	95.31#
0.00	0.00	0.00
0.00	0.00	0.00

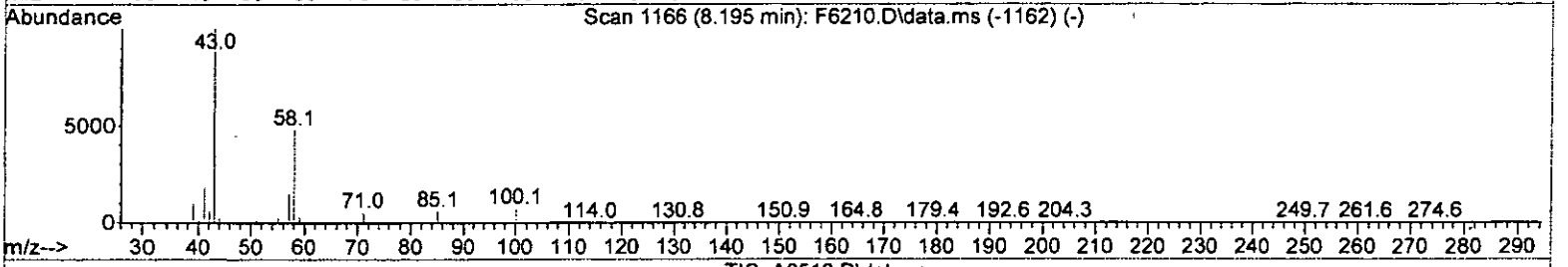
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(73) 2-Hexanone (P)

8.232min (+0.025) 1.38 ug/L

response 6817

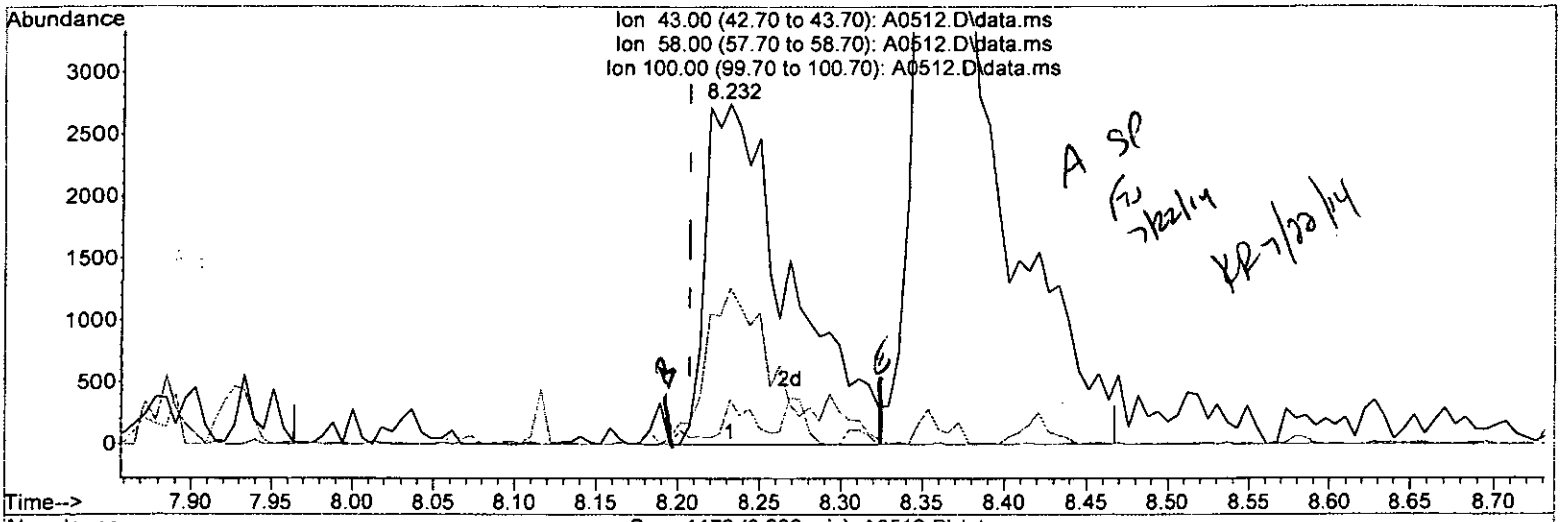
Ion	Exp%	Act%
43.00	100	100
58.00	50.80	45.71
100.00	10.10	13.01
0.00	0.00	0.00

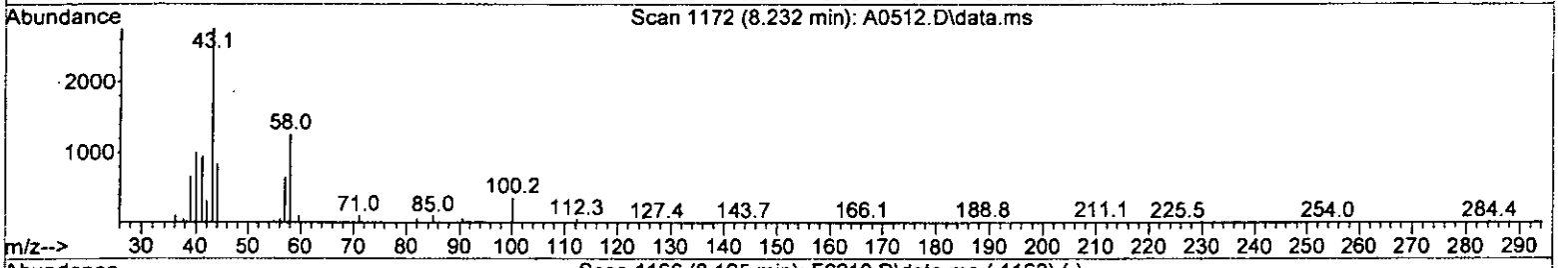
W072114.M Mon Jul 21 15:27:07 2014 MSVO10 Page: 1

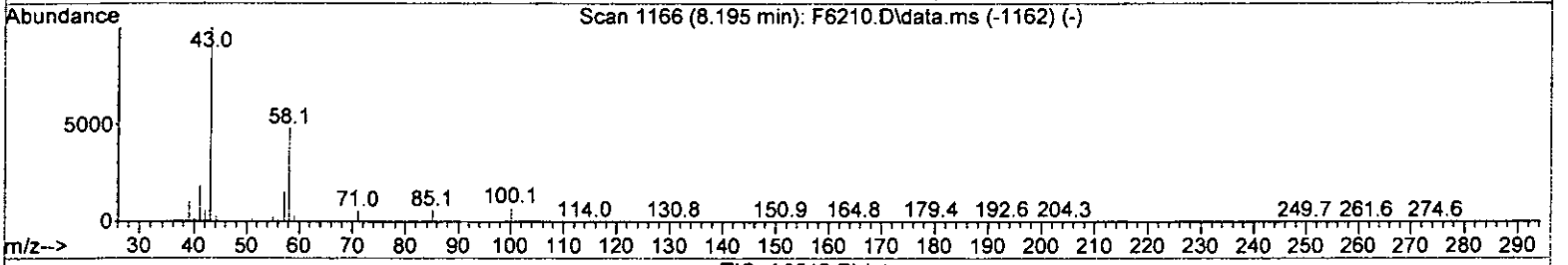
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:06:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(73) 2-Hexanone (P)

8.232min (+0.025) 1.97 ug/L m

response 9725

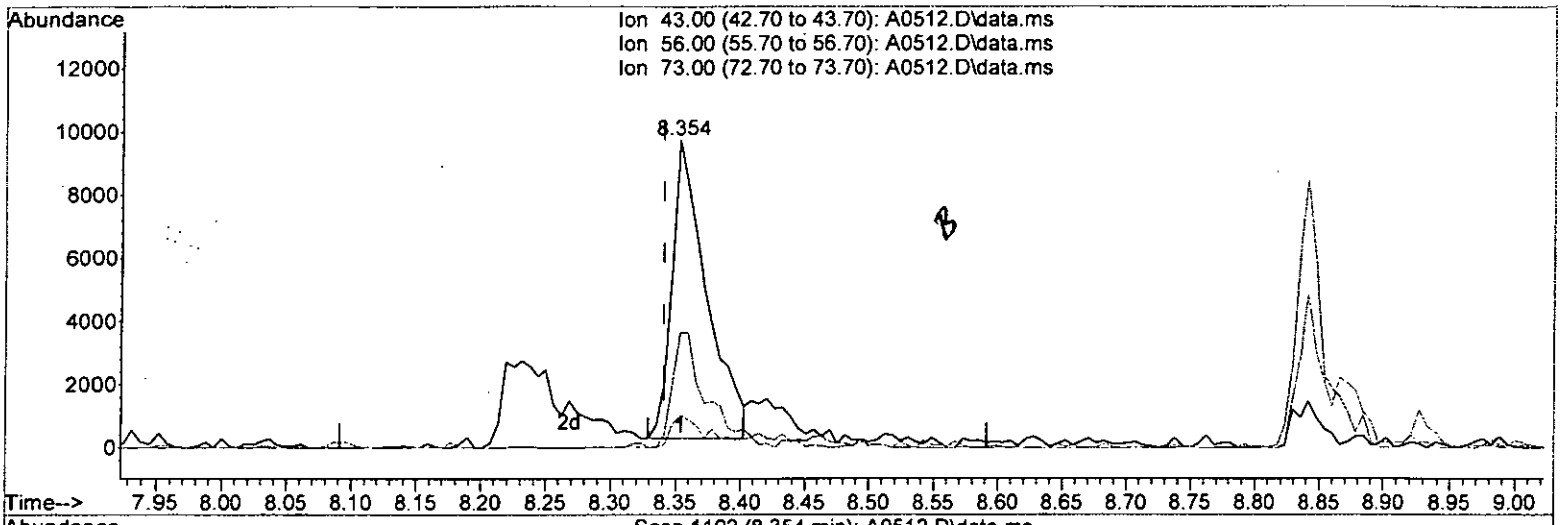
Ion	Exp%	Act%
43.00	100	100
58.00	50.80	45.71
100.00	10.10	13.01
0.00	0.00	0.00

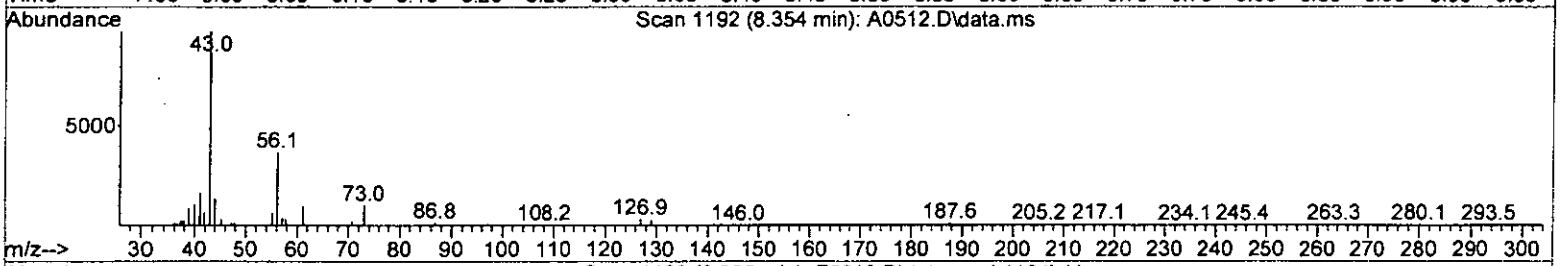
00478

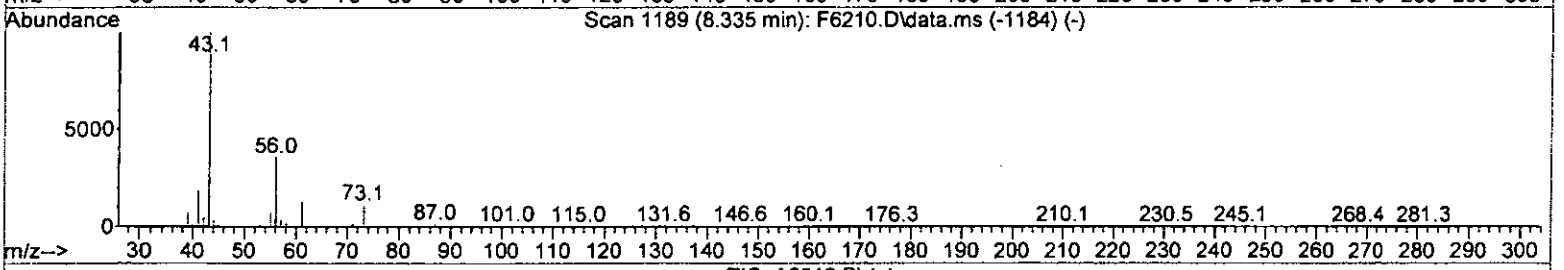
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:27:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(76) N-Butyl Acetate

8.354min (+0.012) 1.33 ug/L

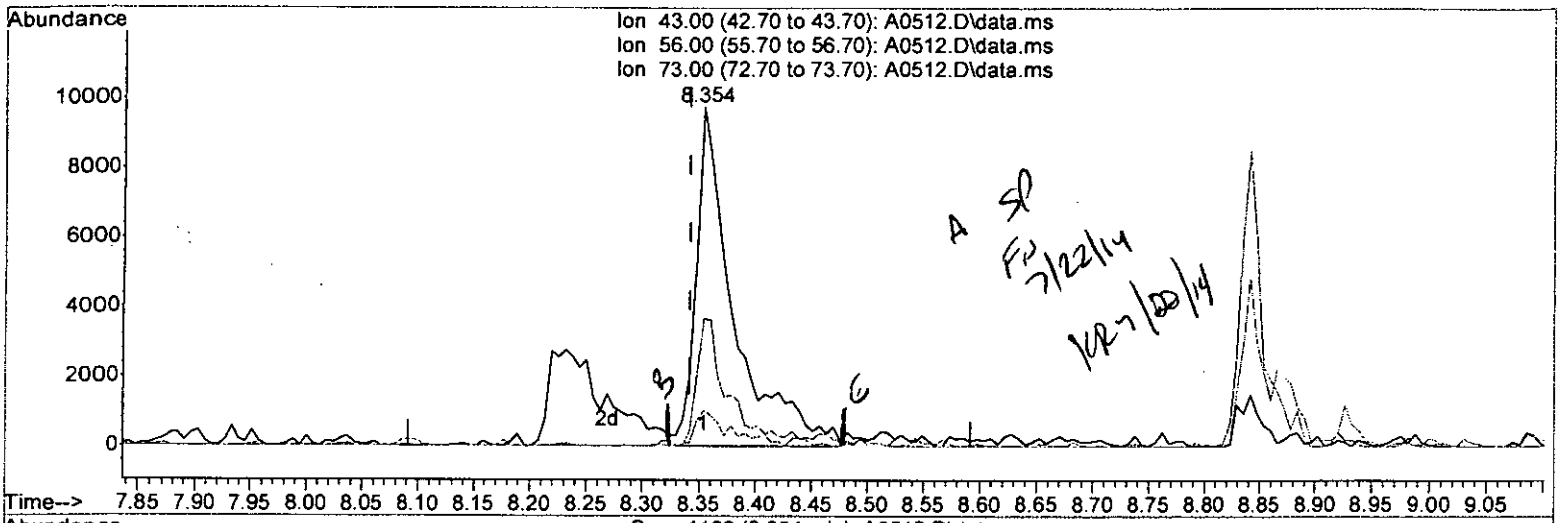
response 17278

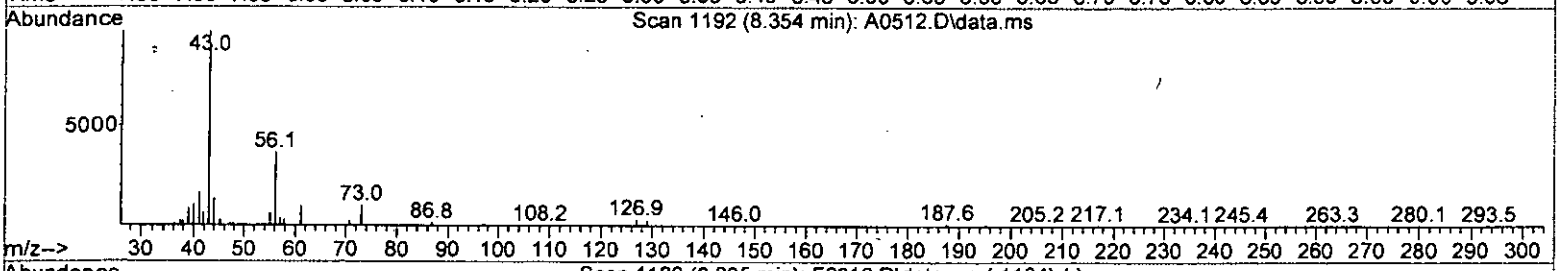
Ion	Exp%	Act%
43.00	100	100
56.00	38.80	37.52
73.00	14.00	10.38
0.00	0.00	0.00

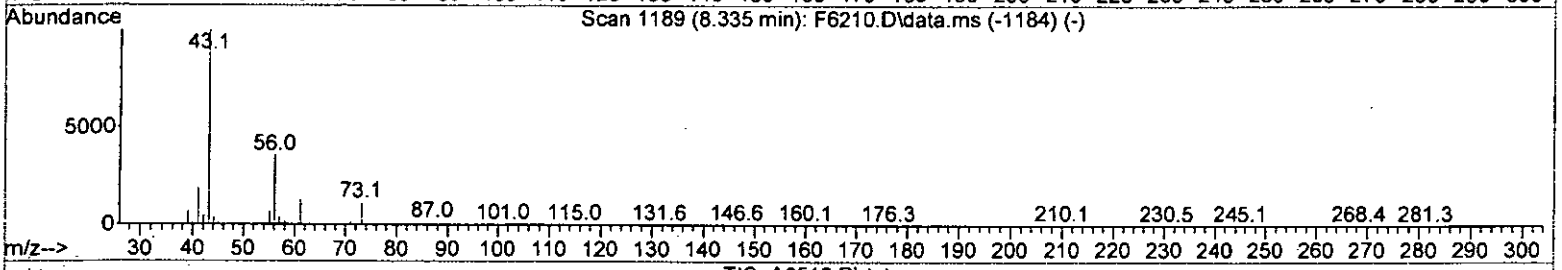
Quantitation Report (Qedit)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:27:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0512.D\data.ms

(76) N-Butyl Acetate

8.354min (+0.012) 1.74 ug/L m

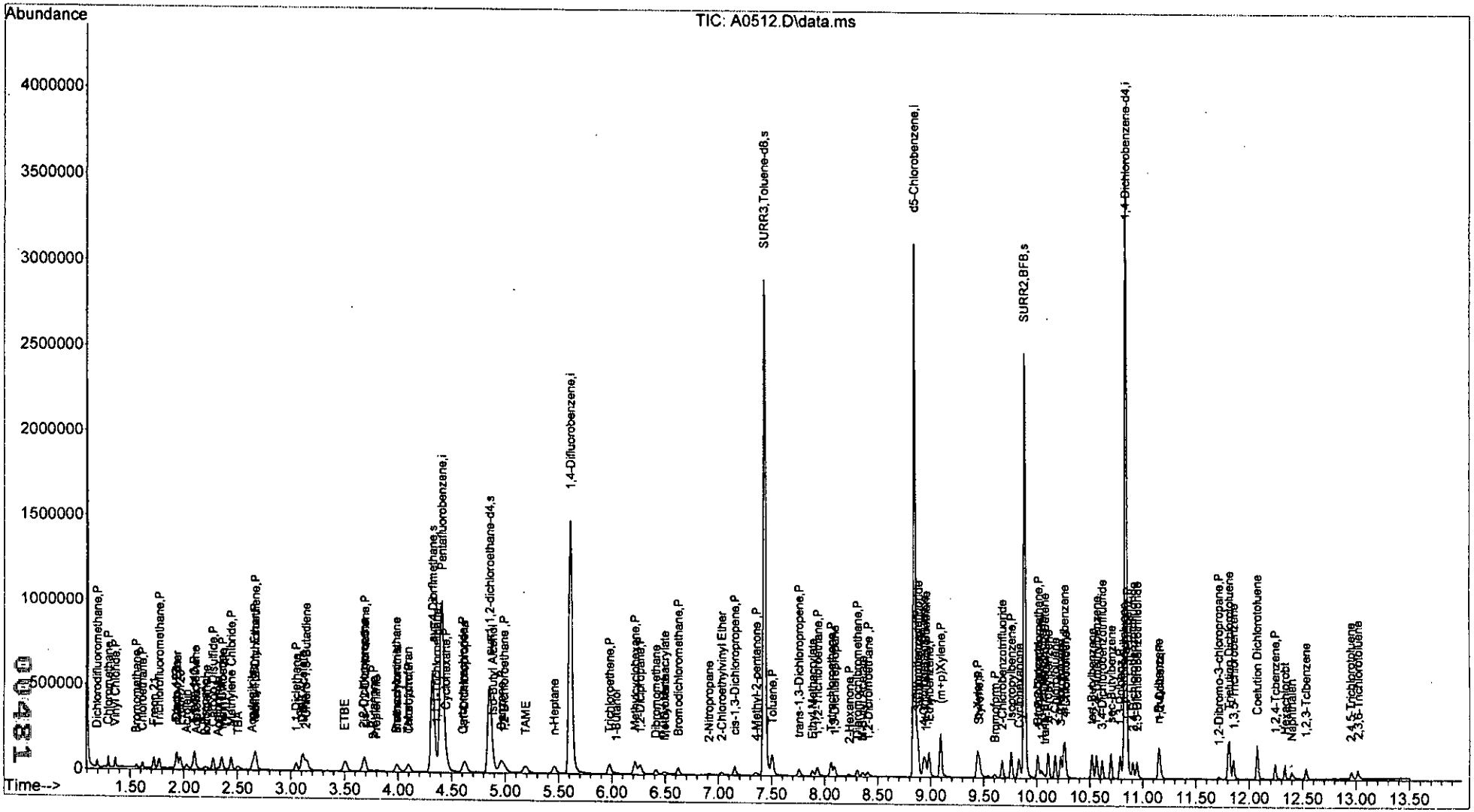
response 22614

Ion	Exp%	Act%
43.00	100	100
56.00	38.80	37.52
73.00	14.00	10.38
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 2.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0512.D Vial: 5
Acq On : 21 Jul 2014 12:52 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:19:39 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:52:28 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FJ 7/22/14

Quant Time: Jul 21 16:22:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	939367	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1413896	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1261317	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	679621	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	534669	63.45	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 126.90%#				
48) surr1,1,2-dichloroetha...	4.854	65	586473	70.22	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 140.44%#				
65) SURR3,Toluene-d8	7.427	98	1875444	57.62	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 115.24%				
70) SURR2,BFB	9.878	95	733005	57.20	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 114.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	43234	4.92	ug/L		94
3) Chloromethane	1.294	50	63934	5.87	ug/L		98
4) Vinyl Chloride	1.361	62	57753	5.06	ug/L		98
5) Bromomethane	1.556	94	14250	3.46	ug/L		99
6) Chloroethane	1.611	64	31388	5.05	ug/L		91
7) Freon 21	1.721	67	86474	5.23	ug/L		96
8) Trichlorofluoromethane	1.770	101	69467	5.66	ug/L		96
9) Diethyl Ether	1.934	59	37507	5.32	ug/L		81
10) Freon 123a	1.928	67	54749	5.14	ug/L		96
11) Freon 123	1.965	83	57017	5.03	ug/L		98
12) Acrolein	2.026	56	27456	25.17	ug/L		98
13) 1,1-Diclethene	2.099	96	33192	5.30	ug/L	#	80
14) Freon 113	2.093	101	42845	6.00	ug/L		98
15) Acetone	2.123	43	14460	6.83	ug/L		87
16) 2-Propanol	2.196	45	33103	90.27	ug/L		99
17) Iodomethane	2.208	142	8708	1.33	ug/L		96
18) Carbon Disulfide	2.269	76	137770	5.17	ug/L		97
19) Acetonitrile	2.318	40	7025	24.69	ug/L		94
20) Allyl Chloride	2.349	76	19796	4.37	ug/L	#	23
21) Methyl Acetate	2.355	43	29135	6.41	ug/L		88
22) Methylene Chloride	2.440	84	42058	4.46	ug/L	#	72
23) TBA	2.501	59	45331	78.45	ug/L	#	57
24) Acrylonitrile	2.635	53	67129	29.01	ug/L		89
25) Methyl-t-Butyl Ether	2.666	73	93912	4.73	ug/L		89
26) trans-1,2-Dichloroethene	2.672	96	43157	5.42	ug/L	#	82
28) 1,1-Diclethane	3.050	63	90103	5.51	ug/L		98
29) Vinyl Acetate	3.092	86	5442	4.70	ug/L	#	68
30) DIPE	3.111	45	208781	6.31	ug/L		89
31) 2-Chloro-1,3-Butadiene	3.141	53	90417	5.75	ug/L		80
32) ETBE	3.501	59	130263	4.63	ug/L		87
33) 2,2-Dichloropropane	3.684	77	51495	4.30	ug/L		95
34) cis-1,2-Dichloroethene	3.684	96	48288	5.35	ug/L	#	84
35) 2-Butanone	3.720	43	17230m	5.97	ug/L		
36) Propionitrile	3.781	54	18579	24.91	ug/L		92
37) Bromochloromethane	3.989	130	29370	5.55	ug/L	#	75

00482

Quantitation Report (QT Reviewed)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:22:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.983	67	10442	4.45	ug/L	#	59
39) Tetrahydrofuran	4.074	42	10478	6.10	ug/L		96
40) Chloroform	4.098	83	77707	5.31	ug/L		94
41) 1,1,1-Trichloroethane	4.361	97	64647	5.04	ug/L		100
42) TAME	5.177	73	87845	4.15	ug/L		88
44) Cyclohexane	4.440	41	62439	5.93	ug/L		95
46) Carbontetrachloride	4.623	121	17531	4.61	ug/L		81
47) 1,1-Dichloropropene	4.623	75	54624	4.78	ug/L		87
49) Benzene	4.958	78	172390	4.72	ug/L		92
50) 1,2-Dichloroethane	4.988	62	61815	5.16	ug/L		95
51) Iso-Butyl Alcohol	4.867	43	22147m	74.68	ug/L		
52) n-Heptane	5.464	43	60613	5.92	ug/L	#	78
53) 1-Butanol	5.988	56	21799m	157.03	ug/L		
54) Trichloroethene	5.970	130	47569	4.85	ug/L		93
55) Methylcyclohexane	6.214	55	66867	5.20	ug/L	#	76
56) 1,2-Diclpropane	6.263	63	50023	4.79	ug/L		94
57) Dibromomethane	6.403	93	24219	5.07	ug/L	#	77
58) 1,4-Dioxane	6.470	88	5819m	113.50	ug/L		
59) Methyl Methacrylate	6.476	69	16483m	3.90	ug/L		
60) Bromodichloromethane	6.616	83	53640	4.68	ug/L		93
61) 2-Nitropropane	6.897	41	10586	6.48	ug/L	#	70
62) 2-Chloroethylvinyl Ether	7.012	63	18586	3.86	ug/L		80
63) cis-1,3-Dichloropropene	7.147	75	52278	3.78	ug/L		96
64) 4-Methyl-2-pentanone	7.342	43	34200	4.91	ug/L		95
66) Toluene	7.500	91	178454	4.55	ug/L		95
67) trans-1,3-Dichloropropene	7.750	75	42275	3.73	ug/L		97
68) Ethyl Methacrylate	7.878	69	33933	3.85	ug/L	#	68
69) 1,1,2-Trichloroethane	7.927	97	30181	4.44	ug/L		86
72) Tetrachloroethene	8.055	164	35723	4.56	ug/L		97
73) 2-Hexanone	8.213	43	25252m	5.12	ug/L		
74) 1,3-Dichloropropane	8.085	76	53265	4.57	ug/L	#	73
75) Dibromochloromethane	8.305	129	37759	4.53	ug/L		95
76) N-Butyl Acetate	8.348	43	50392	3.88	ug/L		86
77) 1,2-Dibromoethane	8.402	107	30690	4.54	ug/L		81
78) 3-Chlorobenzotrifluoride	8.878	180	65383	4.51	ug/L		90
79) Chlorobenzene	8.866	112	123405	4.72	ug/L		97
80) 4-Chlorobenzotrifluoride	8.933	180	59912	4.46	ug/L		97
81) 1,1,1,2-Tetrachloroethane	8.951	131	40420	4.25	ug/L		96
82) Ethylbenzene	8.982	106	59697	4.42	ug/L	#	89
83) (m+p)Xylene	9.091	106	153019	9.25	ug/L		94
84) o-Xylene	9.439	106	72891	4.37	ug/L		92
85) Styrene	9.451	104	117838	4.18	ug/L		96
86) Bromoform	9.597	173	21825	4.37	ug/L		97
87) 2-Chlorobenzotrifluoride	9.670	180	63842	4.45	ug/L		94
88) Isopropylbenzene	9.756	105	181770	4.45	ug/L		99
89) Cyclohexanone	9.829	55	118101	119.82	ug/L		90
90) trans-1,4-Dichloro-2-B...	10.067	53	7977	3.68	ug/L		81
92) 1,1,2,2-Tetrachloroethane	10.012	83	38831	4.97	ug/L		93
93) Bromobenzene	10.006	156	50253	4.43	ug/L		96
94) 1,2,3-Trichloropropane	10.042	110	10484	5.04	ug/L		100
95) n-Propylbenzene	10.103	91	214592	4.65	ug/L		96
96) 2-Chlorotoluene	10.170	91	131888	4.66	ug/L		94

00483

Quantitation Report (QT Reviewed)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:22:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

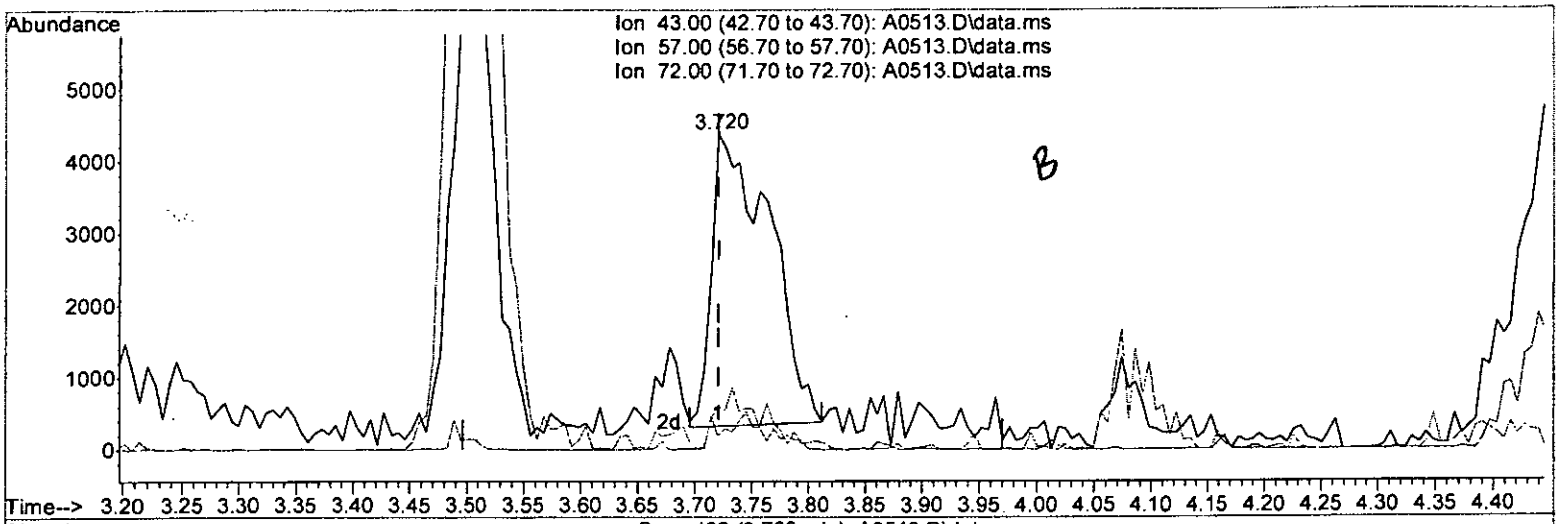
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) 3-Chlorotoluene	10.225	91	137297	4.78	ug/L	92
98) 4-Chlorotoluene	10.262	91	157231	4.58	ug/L	98
99) 1,3,5-Trimethylbenzene	10.256	105	149259	4.41	ug/L	99
100) tert-Butylbenzene	10.518	119	126311	4.49	ug/L	99
101) 1,2,4-Trimethylbenzene	10.561	105	158212	4.62	ug/L	98
102) 3,4-Dichlorobenzotrifl...	10.615	214	46082	4.54	ug/L	90
103) sec-Butylbenzene	10.701	105	177027	4.57	ug/L	98
104) p-Isopropyltoluene	10.817	119	152126	4.49	ug/L	97
105) 1,3-Dclbenz	10.786	146	96336	4.59	ug/L	96
106) 1,4-Dclbenz	10.853	146	101159	4.76	ug/L	91
107) 2,4-Dichlorobenzotrifl...	10.908	214	39687	4.36	ug/L	87
108) 2,5-Dichlorobenzotrifl...	10.945	214	43525	4.16	ug/L	92
109) n-Butylbenzene	11.146	91	130533	4.45	ug/L	96
110) 1,2-Dclbenz	11.152	146	92437	4.82	ug/L	94
111) 1,2-Dibromo-3-chloropr...	11.707	157	5151	4.28	ug/L	80
112) Trielution Dichlorotol...	11.810	125	226082	14.59	ug/L	96
113) 1,3,5-Trichlorobenzene	11.847	180	62858	4.82	ug/L	94
114) Coelution Dichlorotoluene	12.072	125	158359	10.06	ug/L	96
115) 1,2,4-Tcbenzene	12.237	180	50274	4.73	ug/L	100
116) Hexachlorobt	12.335	225	21093	4.14	ug/L	95
117) Naphthalen	12.389	128	81684	5.02	ug/L	98
118) 1,2,3-Tclbenzene	12.524	180	34792	4.81	ug/L	98
119) 2,4,5-Trichlorotoluene	12.950	159	22009	5.55	ug/L	92
120) 2,3,6-Trichlorotoluene	13.011	159	21134	5.37	ug/L	94

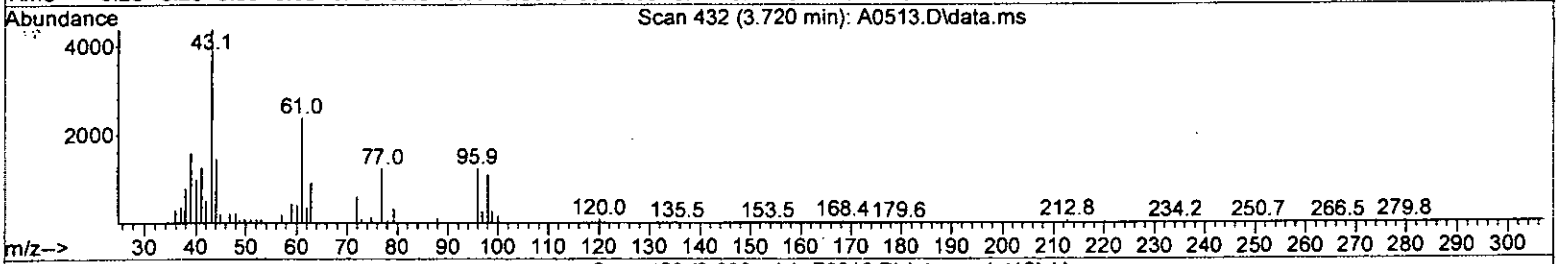
(#) = qualifier out of range (m) = manual integration (+) = signals summed

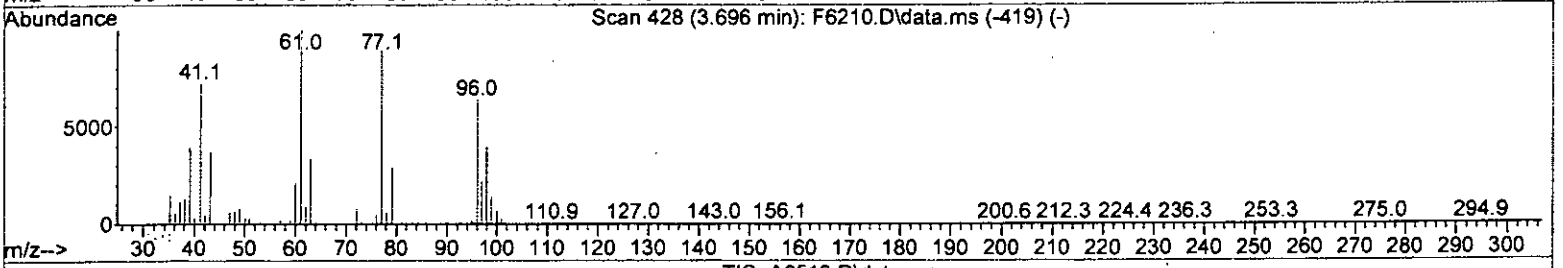
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:32:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(35) 2-Butanone (P)

3.720min (-0.000) 4.97 ug/L

response 14346

Ion	Exp%	Act%
43.00	100	100
57.00	8.30	4.27
72.00	23.50	13.74
0.00	0.00	0.00

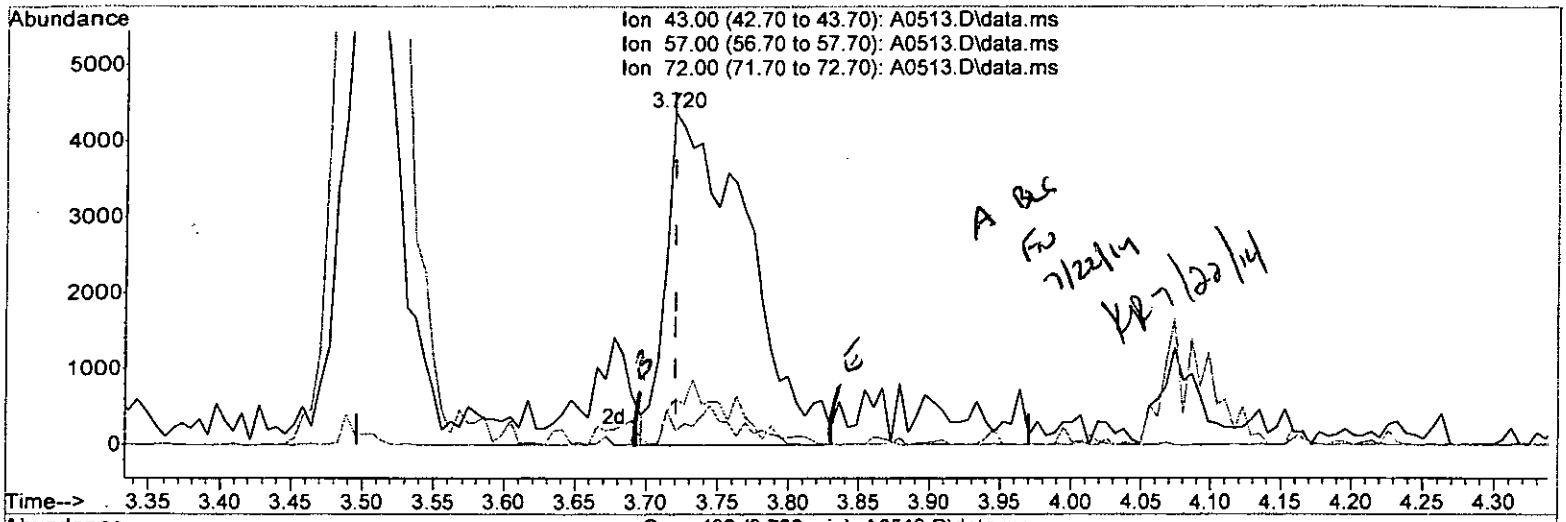
W072114.M Mon Jul 21 16:20:23 2014 MSVO10

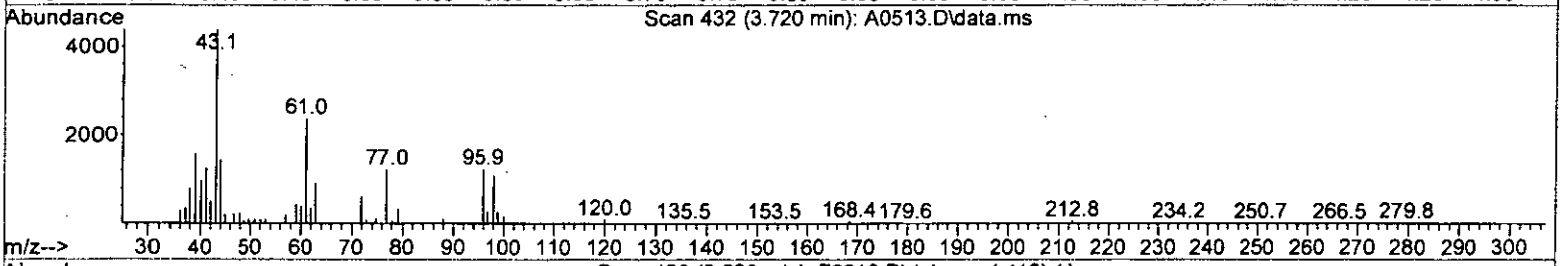
00485

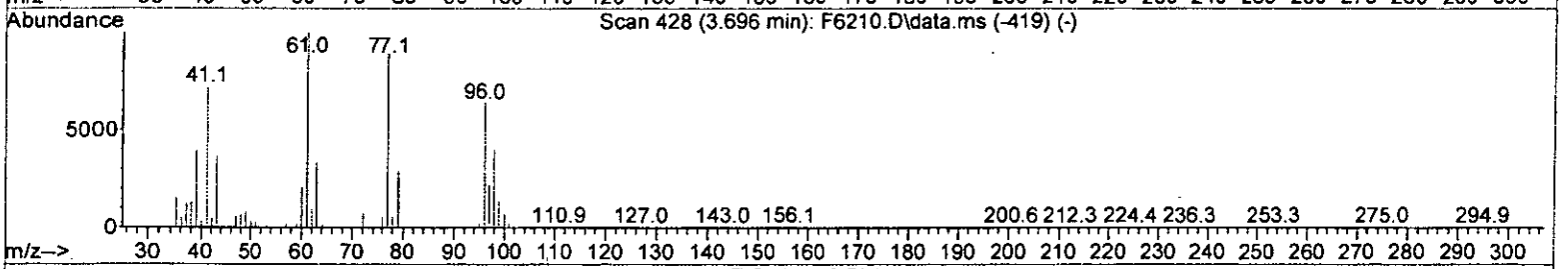
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:32:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(35) 2-Butanone (P)

3.720min (-0.000) 5.97 ug/L m

response 17230

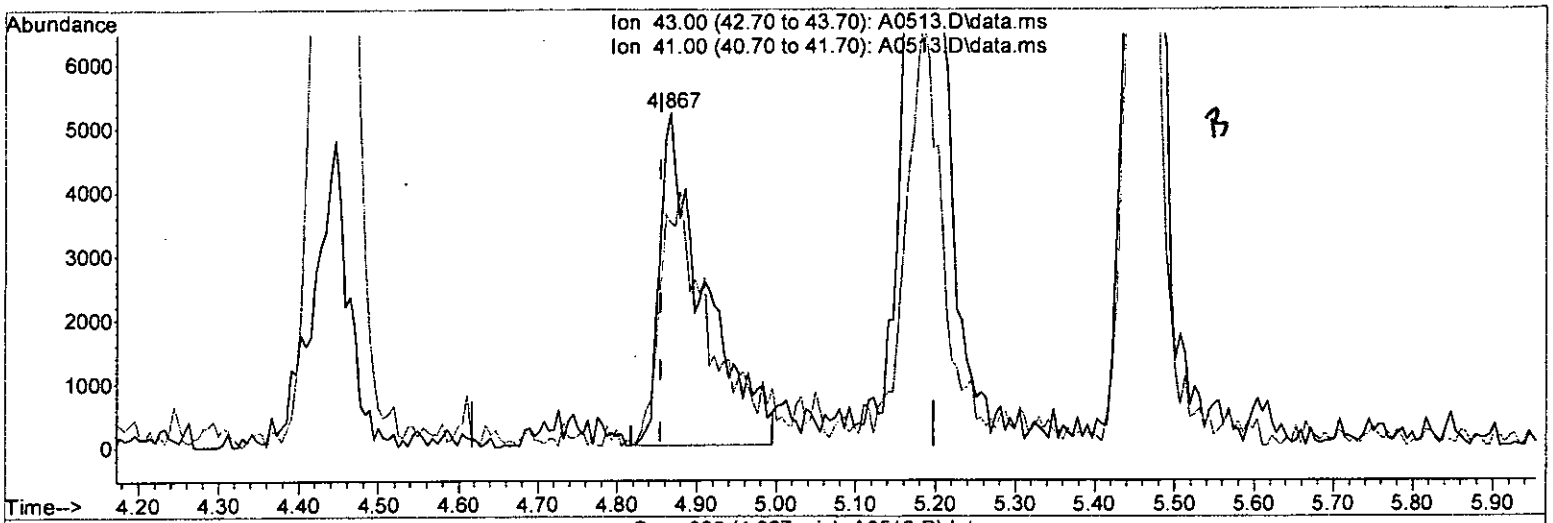
Ion	Exp%	Act%
43.00	100	100
57.00	8.30	4.27
72.00	23.50	13.74
0.00	0.00	0.00

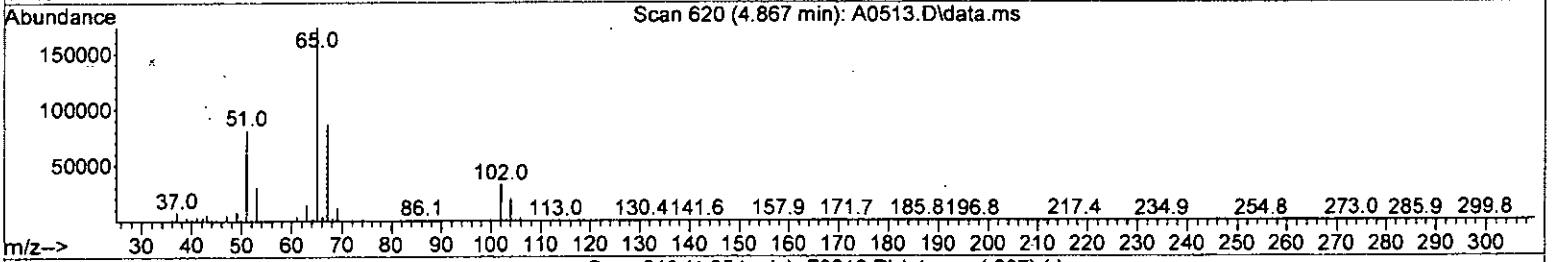
W072114.M Mon Jul 21 16:20:35 2014 MSVO10

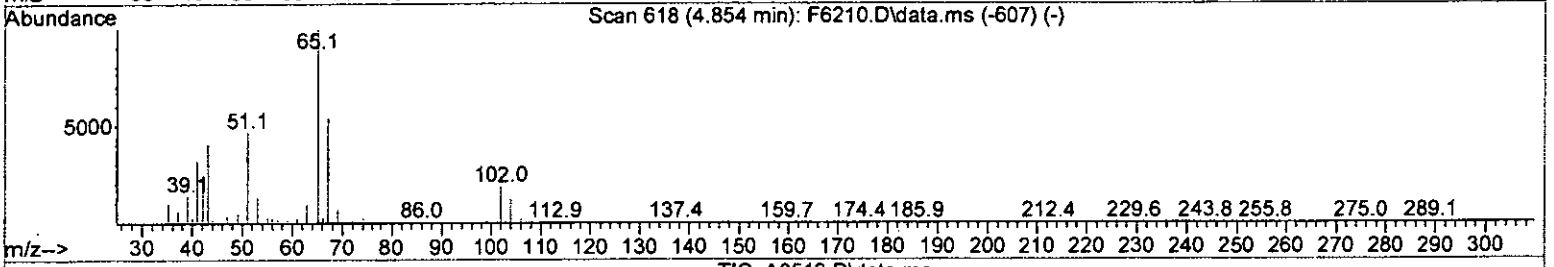
Quantitation Report (Qedit)

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Sample    : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D      Vial: 6
Acq On    : 21 Jul 2014    1:23 pm
Operator  : F.NAEGLER
InstName  : MSVOA10
Misc      :

Quant Time: Jul 21 15:32:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration
```







TIC: A0513.D\data.ms

(51) Iso-Butyl Alcohol

4.867min (+0.012) 67.91 ug/L

response 20139

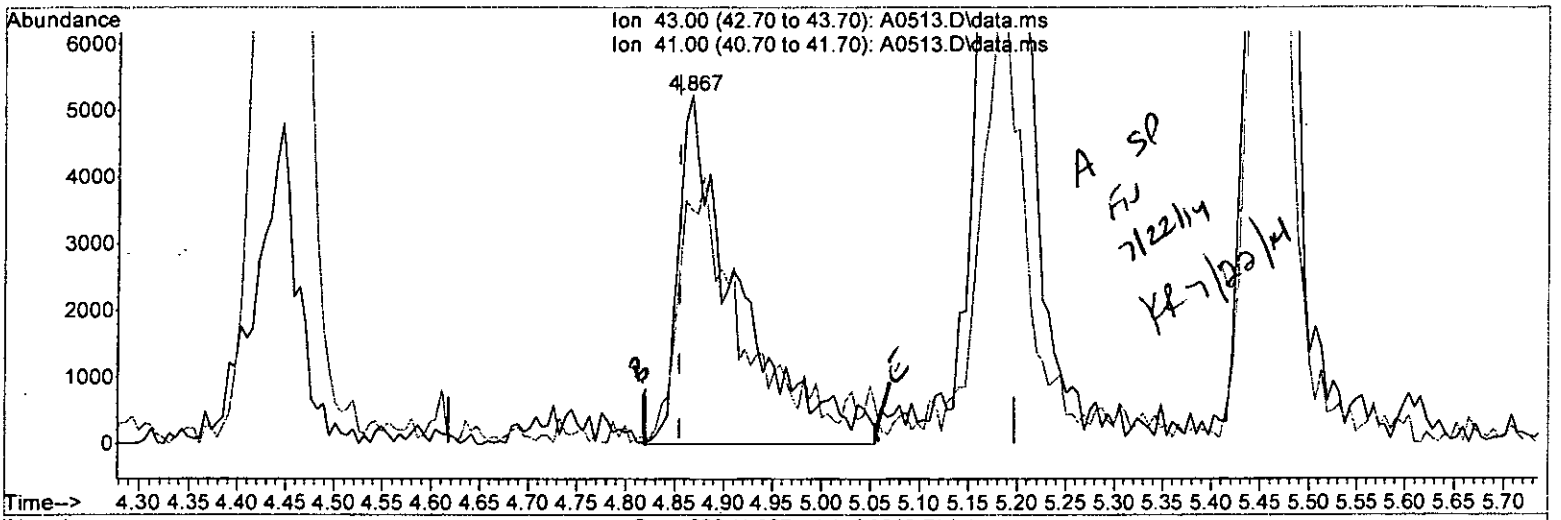
Ion	Exp%	Act%
43.00	100	100
41.00	76.40	66.92
0.00	0.00	0.00
0.00	0.00	0.00

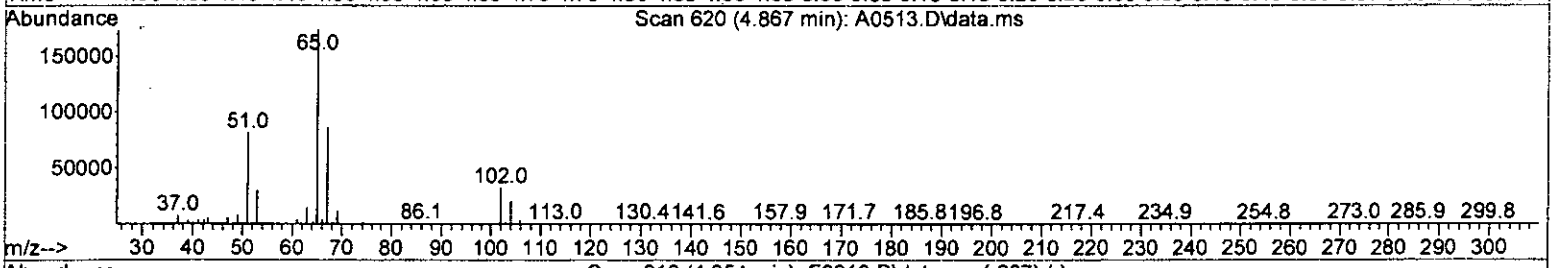
W072114.M Mon Jul 21 16:21:01 2014 MSVO10

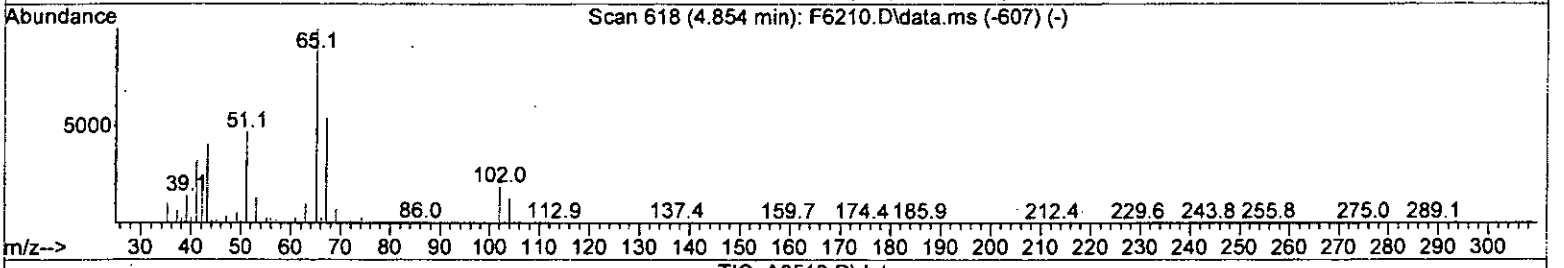
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:32:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(51) Iso-Butyl Alcohol

4.867min (+0.012) 74.68 ug/L m

response 22147

Ion	Exp%	Act%
43.00	100	100
41.00	76.40	66.92
0.00	0.00	0.00
0.00	0.00	0.00

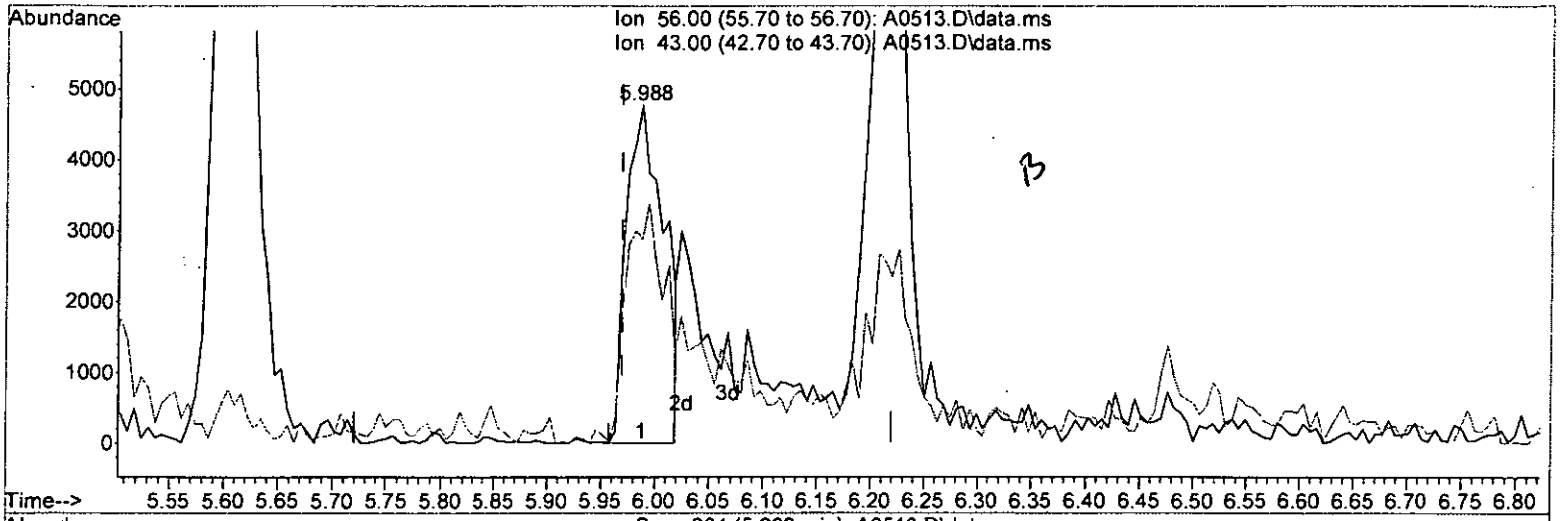
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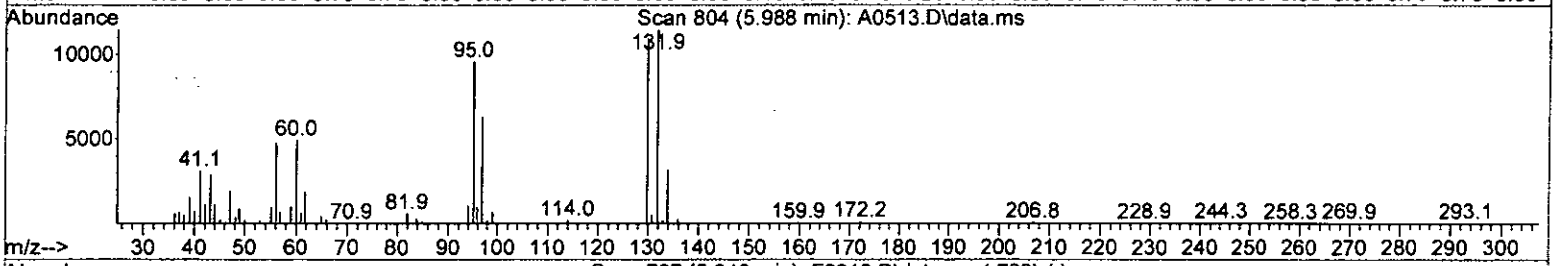
00488

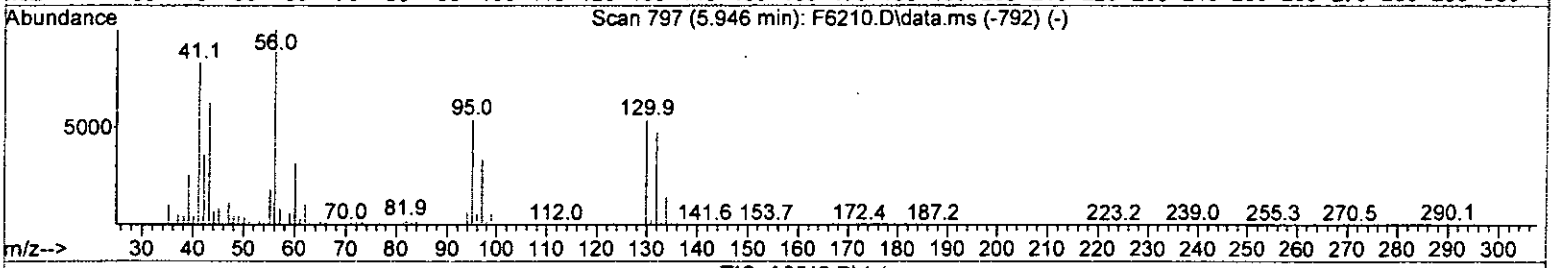
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:36:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(53) 1-Butanol

5.988min (+0.018) 82.76 ug/L

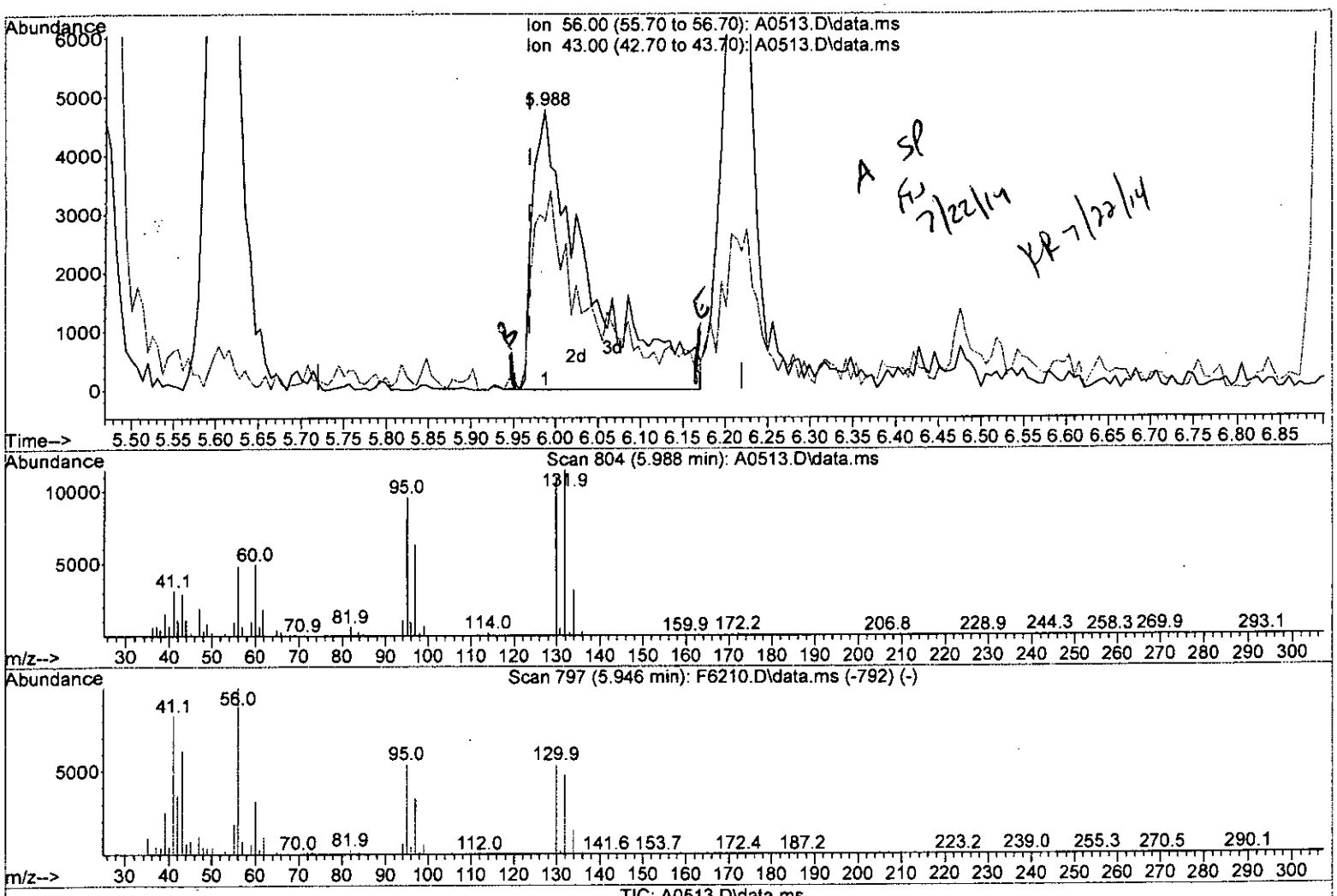
response 11488

Ion	Exp%	Act%
56.00	100	100
43.00	56.20	60.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:32:14 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0513.D\data.ms

(53) 1-Butanol

5.988min (+0.018) 157.03 ug/L m

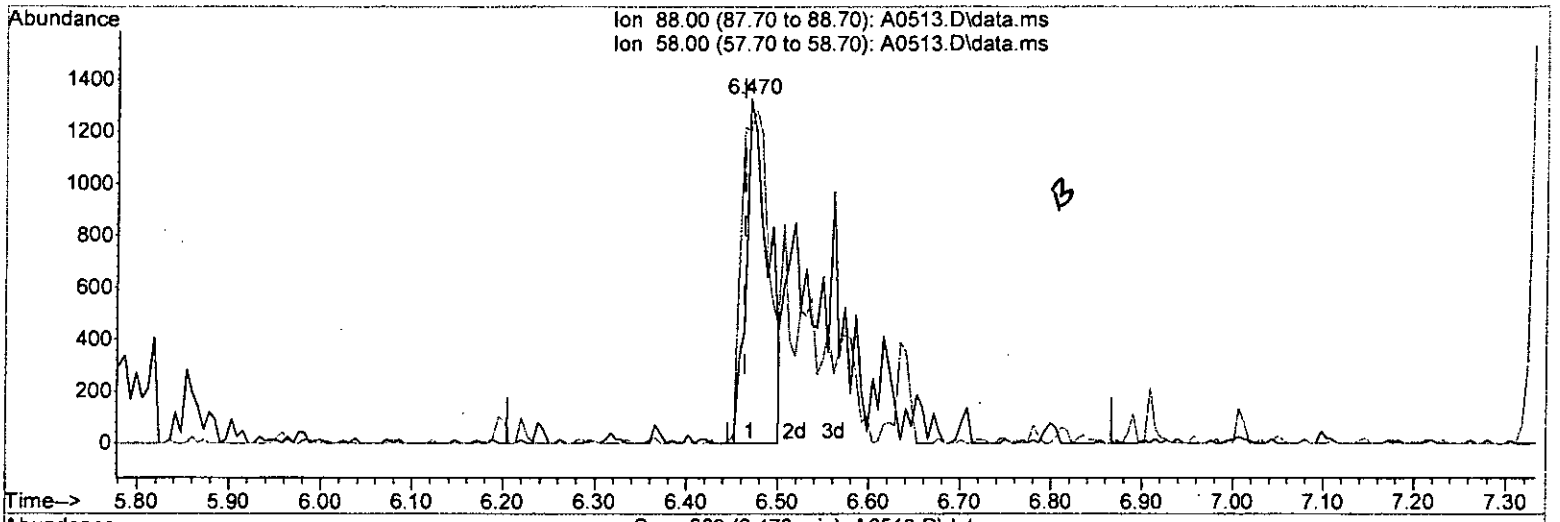
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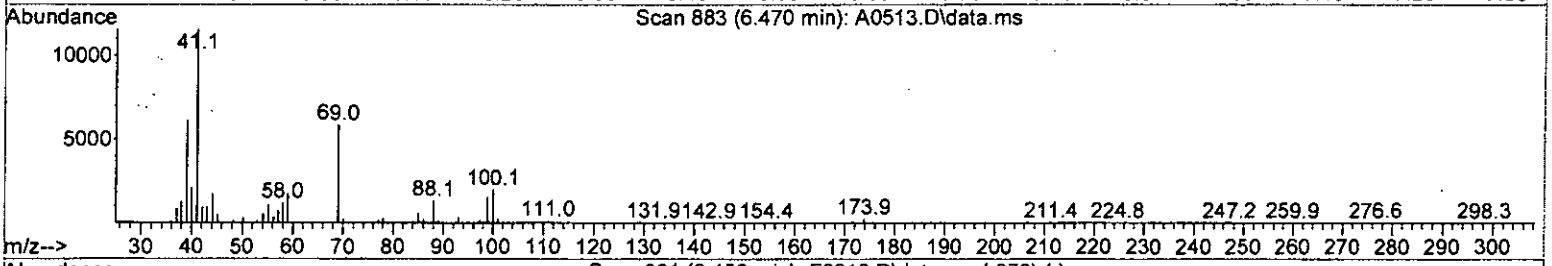
Ion	Exp%	Act%
56.00	100	100
43.00	56.20	60.17
0.00	0.00	0.00
0.00	0.00	0.00

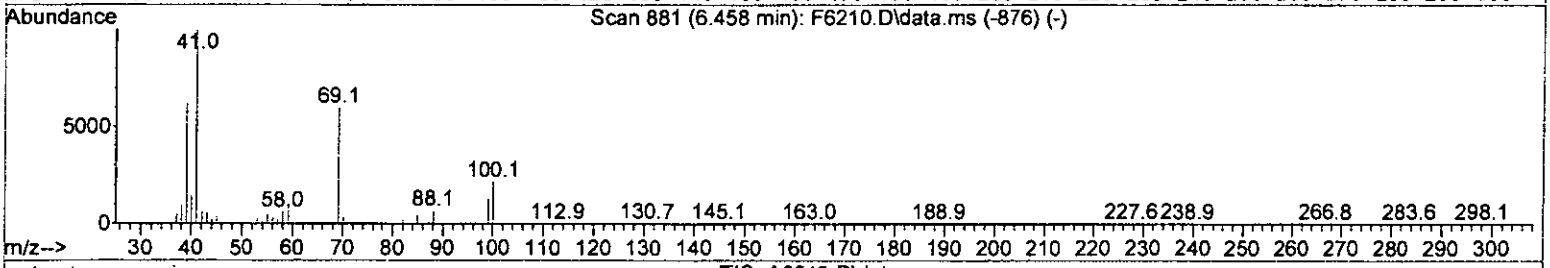
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:36:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(58) 1,4-Dioxane

6.470min (+0.006) 42.99 ug/L

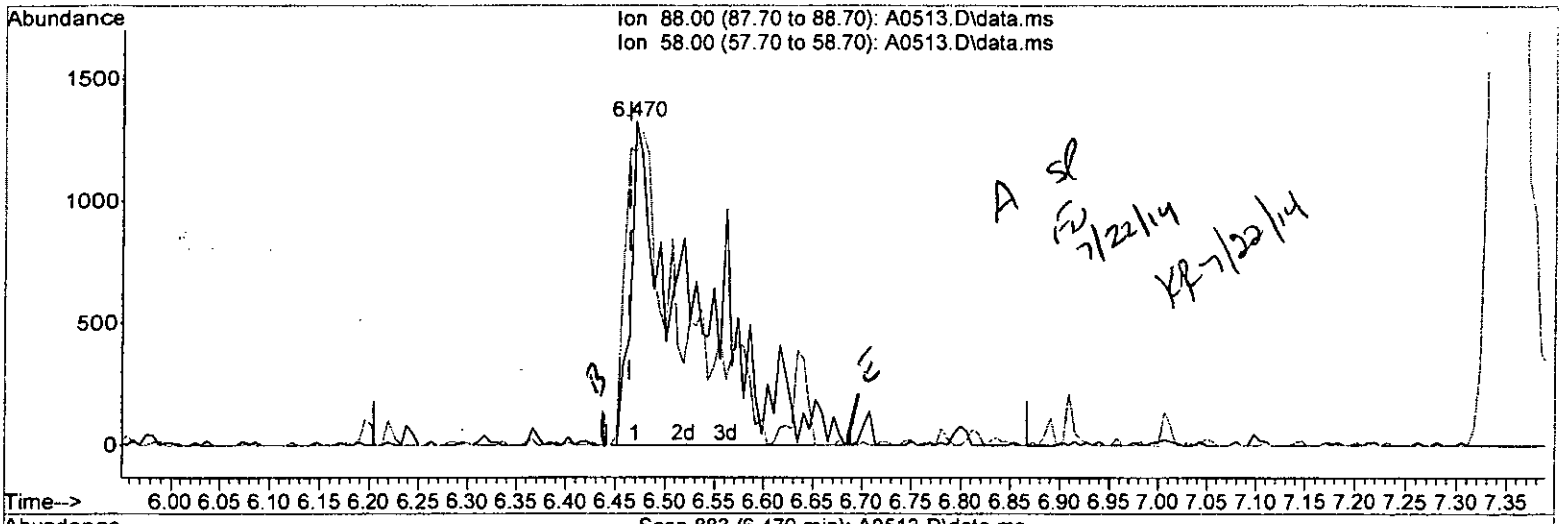
response 2204

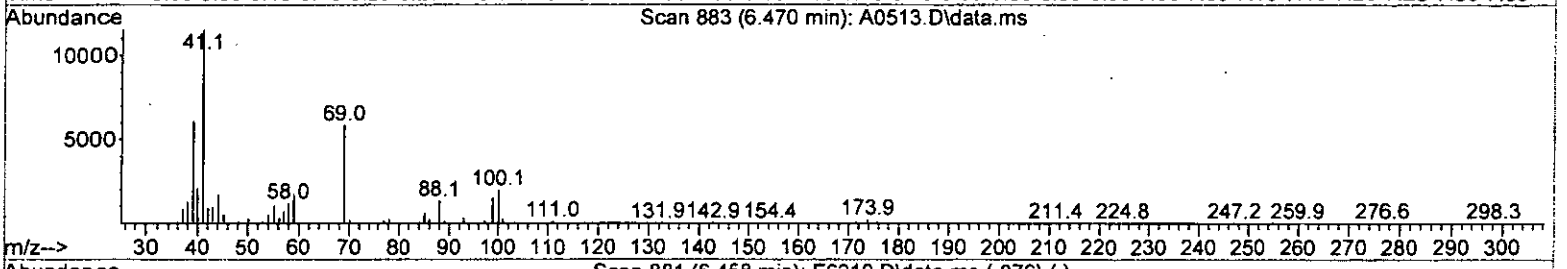
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	90.42
0.00	0.00	0.00
0.00	0.00	0.00

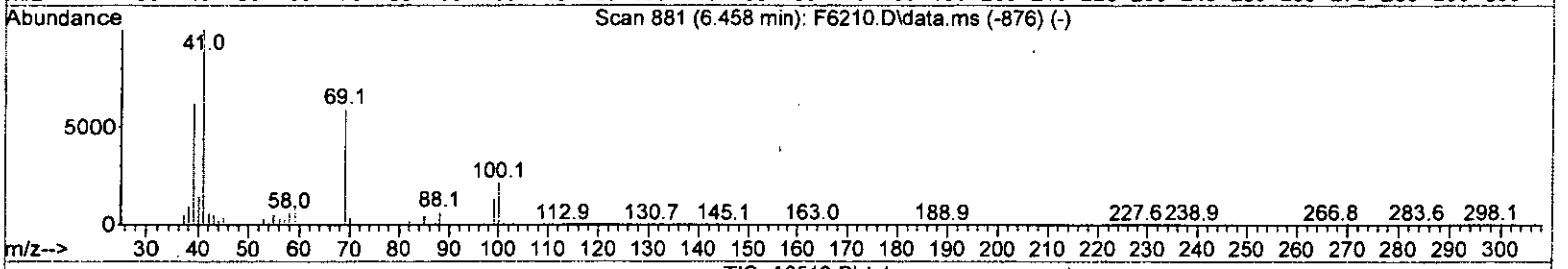
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:36:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(58) 1,4-Dioxane

6.470min (+0.006) 113.50 ug/L m

response 5819

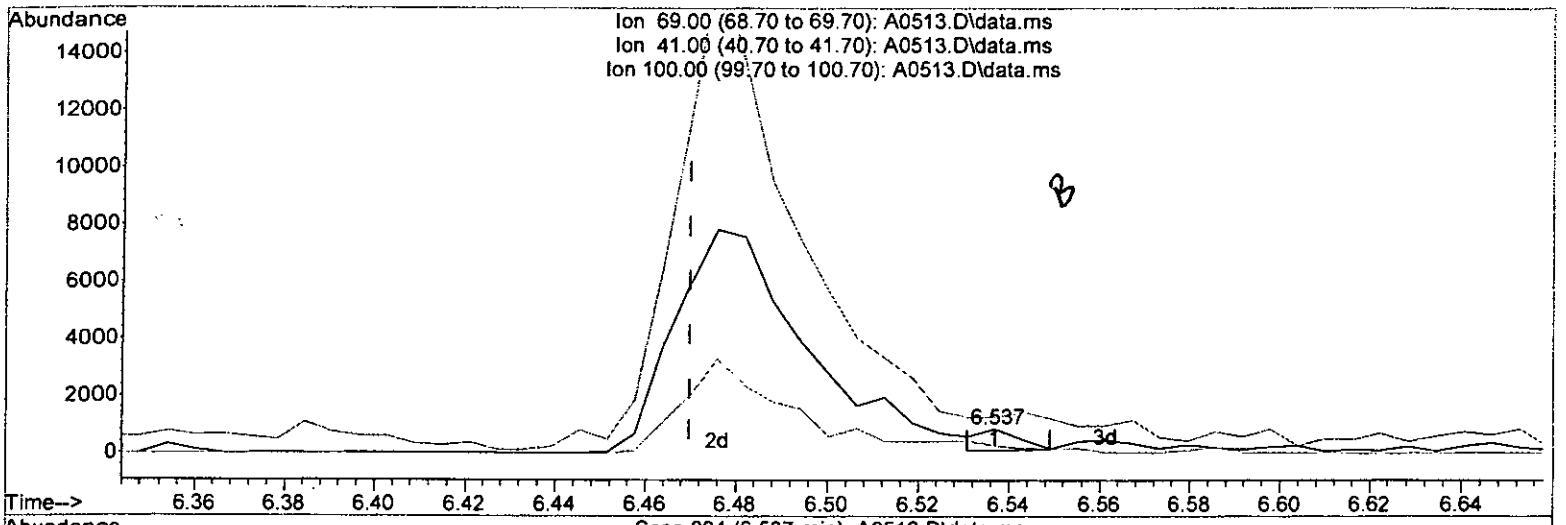
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	90.42
0.00	0.00	0.00
0.00	0.00	0.00

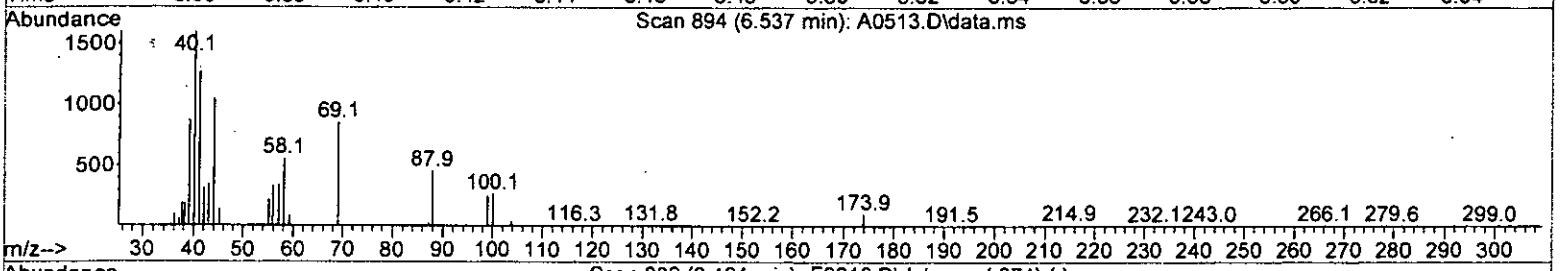
00492

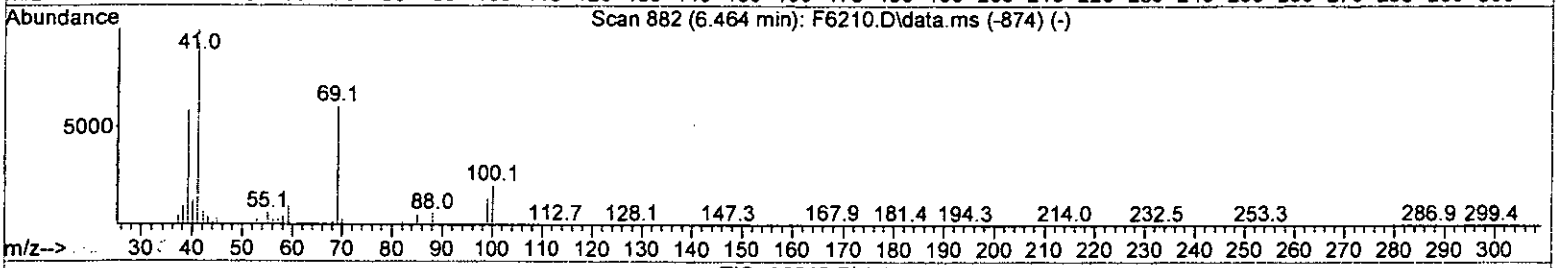
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:36:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(59) Methyl Methacrylate

6.537min (+0.067) 0.10 ug/L

response 423

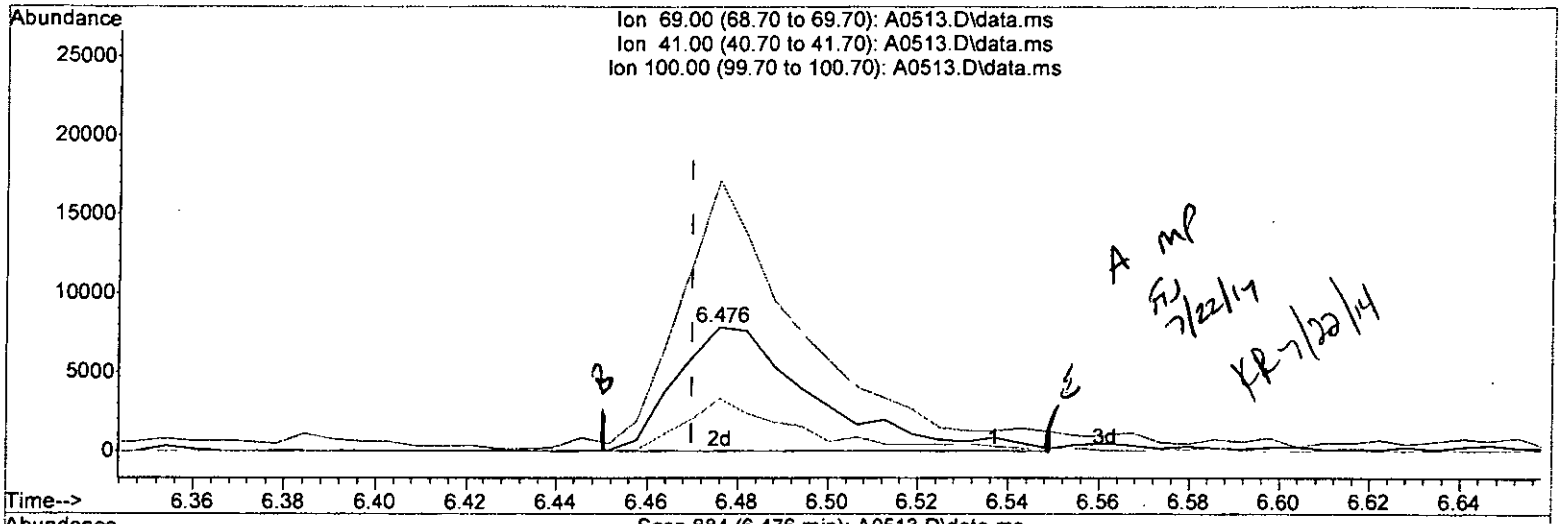
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	148.83
100.00	36.90	31.57
0.00	0.00	0.00

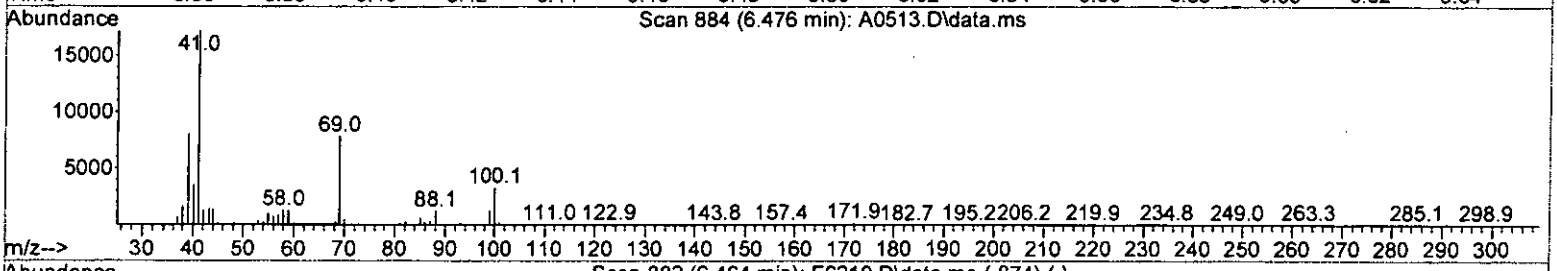
00493

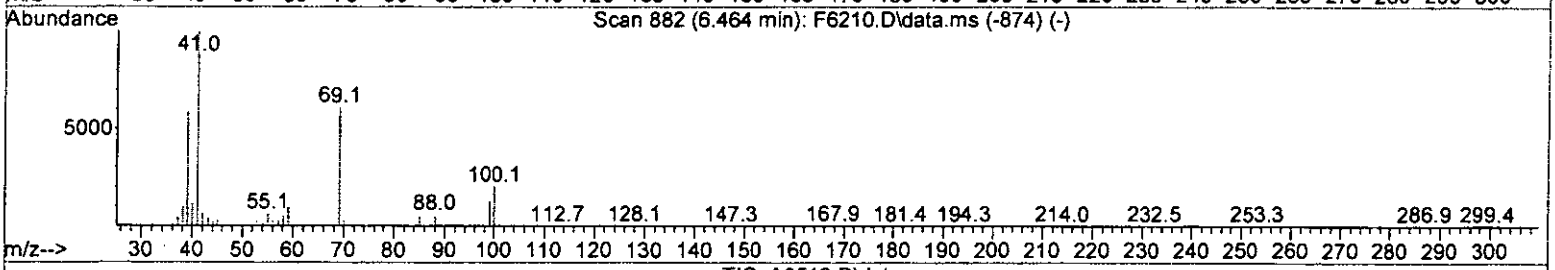
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:36:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(59) Methyl Methacrylate

6.476min (+0.006) 3.90 ug/L m

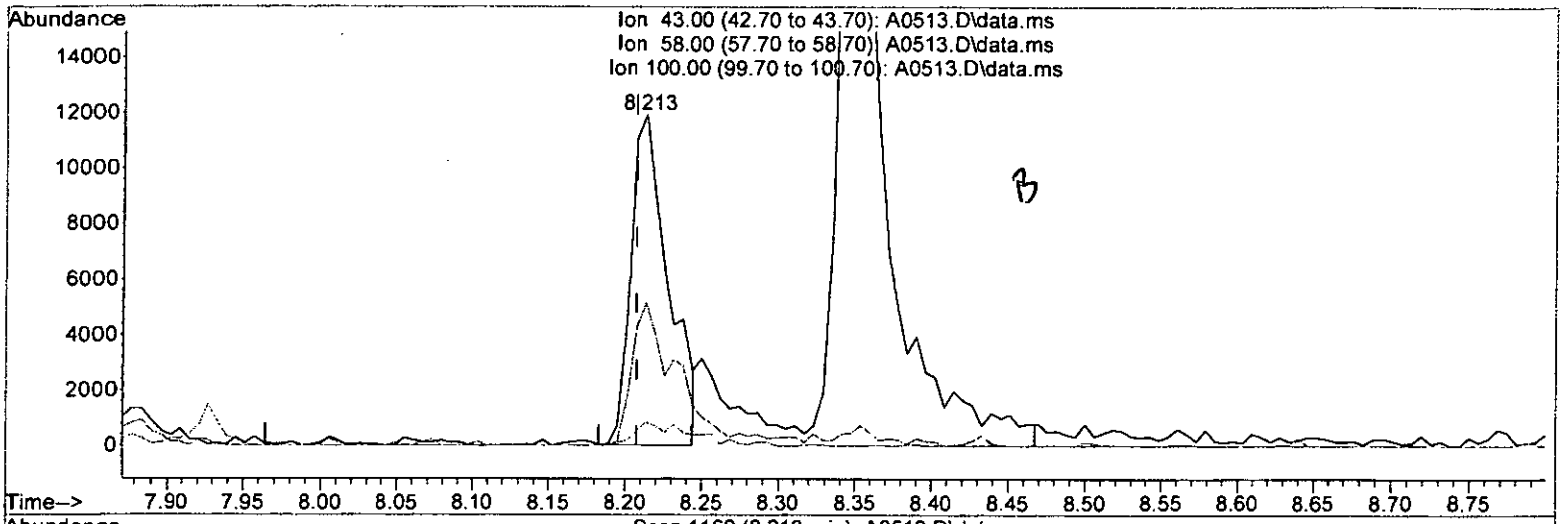
response 16483

Ion	Exp%	Act%
69.00	100	100
41.00	128.90	218.93#
100.00	36.90	42.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:36:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0513.D\data.ms

(73) 2-Hexanone (P)

8.213min (+0.006) 4.06 ug/L

response 20043

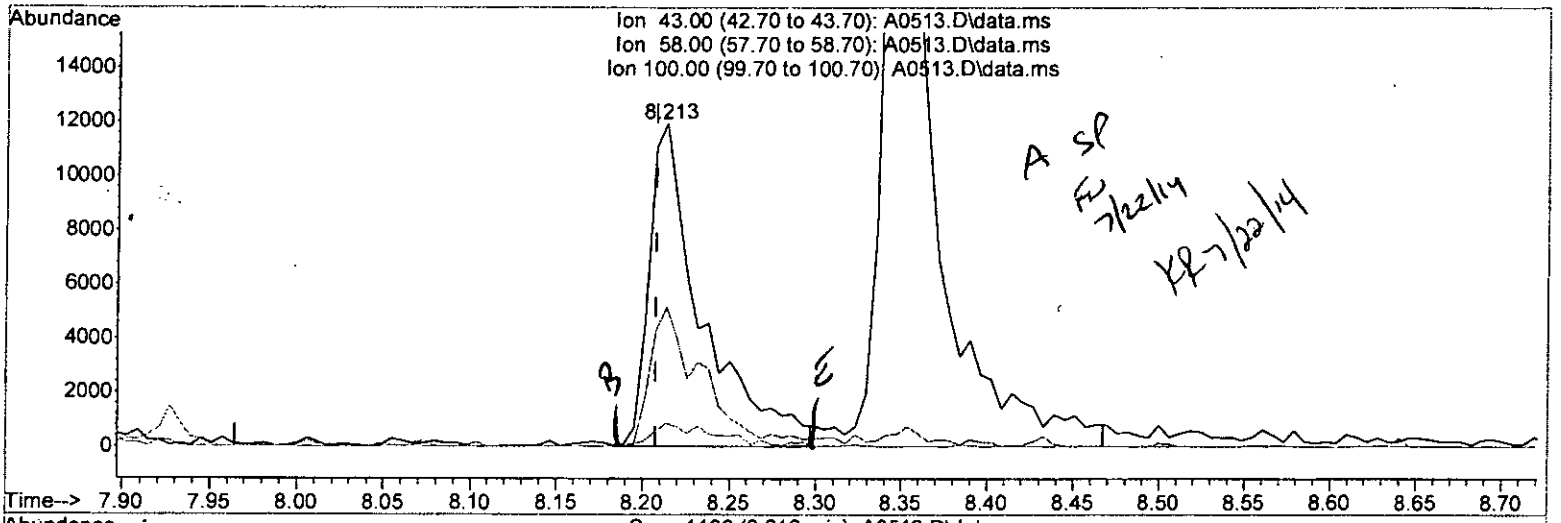
Ion	Exp%	Act%
43.00	100	100
58.00	50.80	43.02
100.00	10.10	7.05
0.00	0.00	0.00

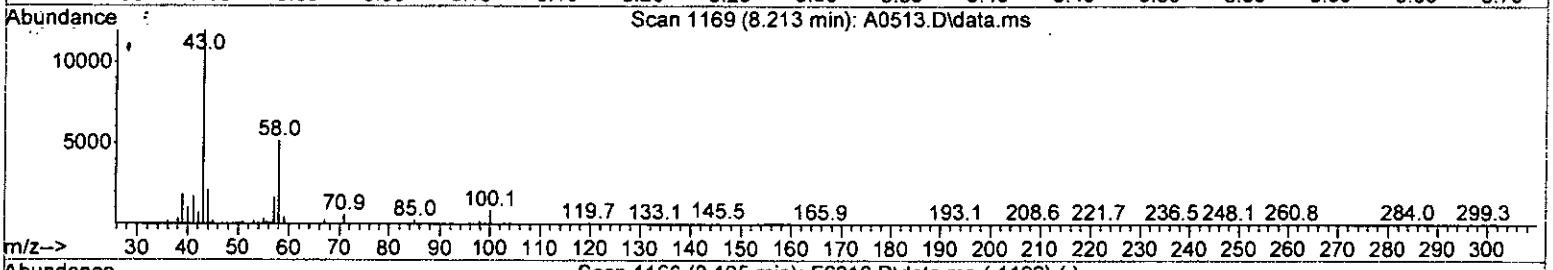
00495

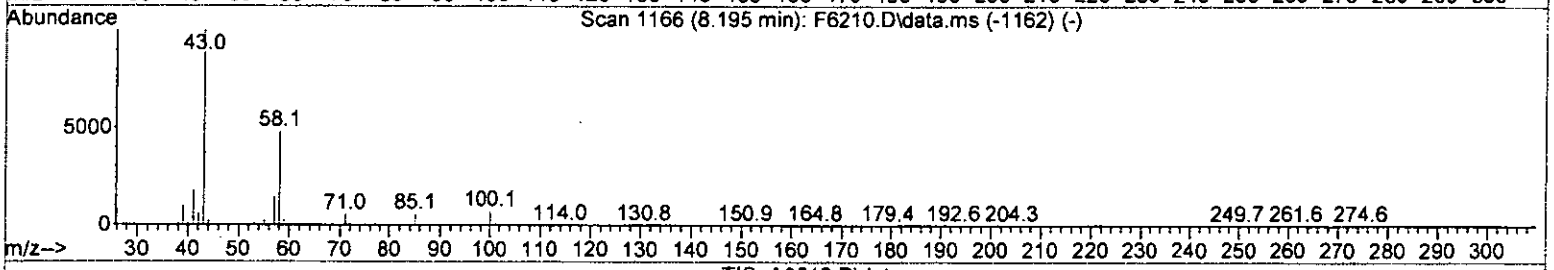
Quantitation Report (Qedit)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 13:36:27 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0513.D\data.ms

(73) 2-Hexanone (P)

8.213min (+0.006) 5.12 ug/L m

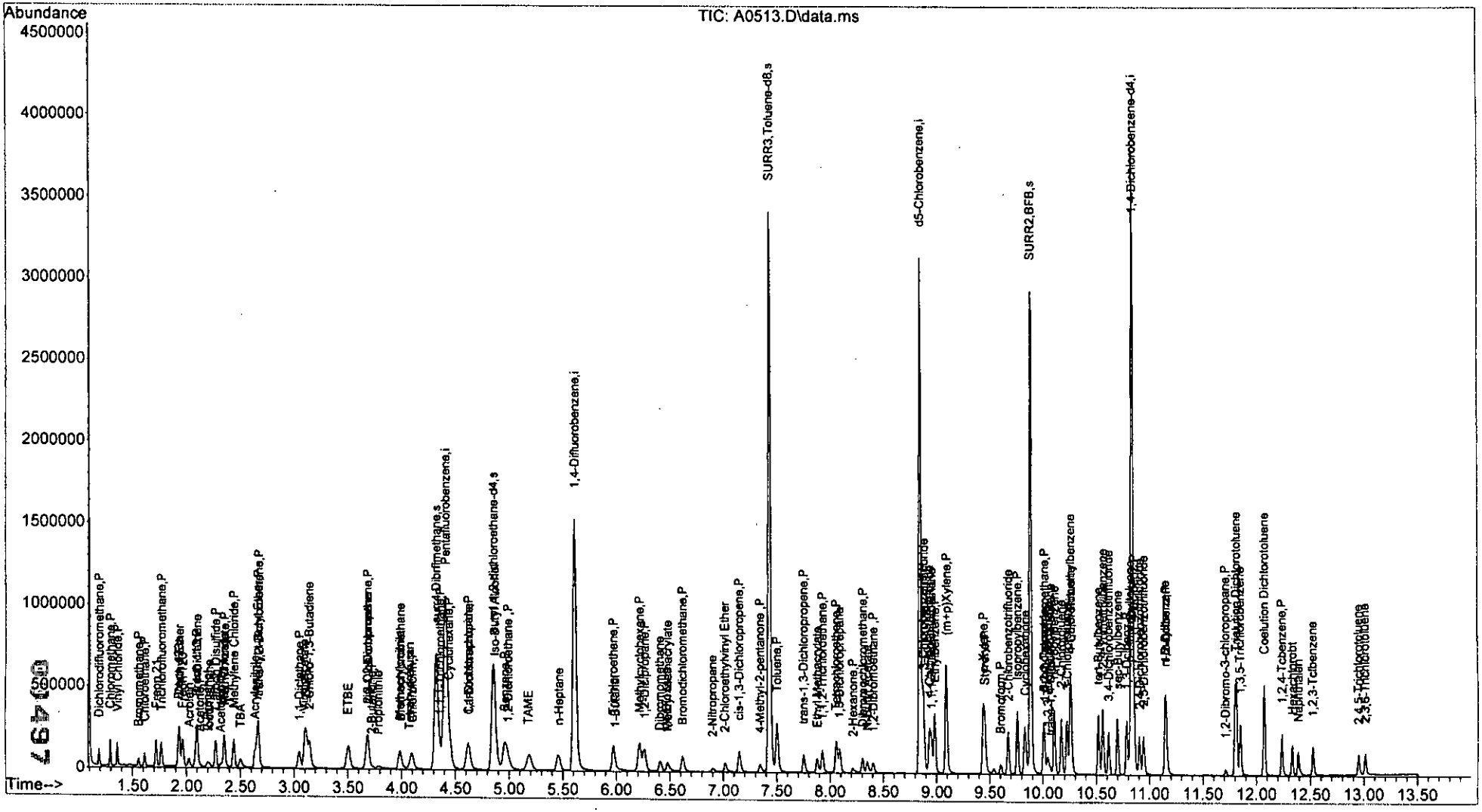
response 25252

Ion	Exp%	Act%
43.00	100	100
58.00	50.80	43.02
100.00	10.10	7.05
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 5.0 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0513.D Vial: 6
Acq On : 21 Jul 2014 1:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:22:02 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:52:37 2014 MSVO10 Page: 4

Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FV 7/22/14

Quant Time: Jul 21 15:34:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	921376	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1385793	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1266668	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	685970	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	631137	76.42	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 152.84%#				
48) surr1,1,2-dichloroetha...	4.854	65	677471	82.76	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 165.52%#				
65) SURR3,Toluene-d8	7.427	98	2211126	69.31	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 138.62%#				
70) SURR2,BFB	9.878	95	870086	69.28	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 138.56%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	104190	12.09	ug/L		94
3) Chloromethane	1.294	50	141375	13.24	ug/L		98
4) Vinyl Chloride	1.361	62	118631	10.59	ug/L		99
5) Bromomethane	1.556	94	34536	8.54	ug/L		95
6) Chloroethane	1.611	64	62253	10.22	ug/L		88
7) Freon 21	1.721	67	170036	10.48	ug/L		99
8) Trichlorofluoromethane	1.770	101	129293	10.75	ug/L		99
9) Diethyl Ether	1.934	59	73589	10.65	ug/L	#	78
10) Freon 123a	1.928	67	103181	9.88	ug/L		91
11) Freon 123	1.965	83	104630	9.41	ug/L		98
12) Acrolein	2.026	56	52503	49.07	ug/L		97
13) 1,1-Diclethene	2.099	96	58707	9.56	ug/L	#	77
14) Freon 113	2.093	101	72170	10.30	ug/L		93
15) Acetone	2.123	43	30164	14.52	ug/L		99
16) 2-Propanol	2.196	45	81516	226.63	ug/L		96
17) Iodomethane	2.215	142	28095	4.37	ug/L		96
18) Carbon Disulfide	2.270	76	259118	9.91	ug/L		99
19) Acetonitrile	2.324	40	16761	60.07	ug/L		89
20) Allyl Chloride	2.349	76	39299	8.85	ug/L	#	7
21) Methyl Acetate	2.355	43	59297	13.31	ug/L		89
22) Methylene Chloride	2.440	84	82135	8.88	ug/L	#	77
23) TBA	2.501	59	97257	171.60	ug/L		65
24) Acrylonitrile	2.635	53	135423	59.67	ug/L		100
25) Methyl-t-Butyl Ether	2.660	73	183659	9.43	ug/L		90
26) trans-1,2-Dichloroethene	2.666	96	84655	10.85	ug/L	#	86
28) 1,1-Diclethane	3.050	63	175839	10.96	ug/L		100
29) Vinyl Acetate	3.093	86	10752	9.46	ug/L	#	1
30) DIPE	3.111	45	441073	13.58	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.147	53	168015	10.89	ug/L		86
32) ETBE	3.501	59	286967	10.39	ug/L		89
33) 2,2-Dichloropropane	3.684	77	98220	8.36	ug/L		99
34) cis-1,2-Dichloroethene	3.678	96	93822	10.61	ug/L	#	84
35) 2-Butanone	3.714	43	37066	13.09	ug/L		86
36) Propionitrile	3.775	54	40883	55.89	ug/L		98
37) Bromochloromethane	3.983	130	56348	10.86	ug/L	#	74

00498

Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:34:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.977	67	19845	8.63	ug/L	#	31
39) Tetrahydrofuran	4.062	42	19308	11.45	ug/L	#	61
40) Chloroform	4.098	83	155755	10.86	ug/L		94
41) 1,1,1-Trichloroethane	4.355	97	120740	9.59	ug/L		88
42) TAME	5.184	73	192278	9.26	ug/L		88
44) Cyclohexane	4.440	41	114753	11.13	ug/L		87
46) Carbontetrachloride	4.611	121	32688	8.77	ug/L		89
47) 1,1-Dichloropropene	4.617	75	101099	9.02	ug/L		92
49) Benzene	4.958	78	345251	9.65	ug/L		88
50) 1,2-Dichloroethane	4.989	62	119098	10.15	ug/L		90
51) Iso-Butyl Alcohol	4.867	43	48616	167.26	ug/L		90
52) n-Heptane	5.452	43	113284	11.30	ug/L	#	78
53) 1-Butanol	5.964	56	52550m	386.23	ug/L		
54) Trichloroethene	5.970	130	91084	9.48	ug/L		91
55) Methylcyclohexane	6.214	55	115416	9.15	ug/L	#	72
56) 1,2-Diclpropane	6.257	63	96996	9.48	ug/L		98
57) Dibromomethane	6.403	93	46430	9.91	ug/L		93
58) 1,4-Dioxane	6.464	88	12384m	246.46	ug/L		
59) Methyl Methacrylate	6.470	69	35127	8.49	ug/L	#	65
60) Bromodichloromethane	6.616	83	106974	9.51	ug/L		95
61) 2-Nitropropane	6.897	41	23618	14.76	ug/L		85
62) 2-Chloroethylvinyl Ether	7.013	63	38653	8.19	ug/L		91
63) cis-1,3-Dichloropropene	7.147	75	113333	8.35	ug/L		97
64) 4-Methyl-2-pentanone	7.342	43	69717	10.21	ug/L		90
66) Toluene	7.500	91	347224	9.03	ug/L		99
67) trans-1,3-Dichloropropene	7.750	75	85906	7.74	ug/L		94
68) Ethyl Methacrylate	7.872	69	68722	7.96	ug/L	#	57
69) 1,1,2-Trichloroethane	7.927	97	63051	9.46	ug/L		91
72) Tetrachloroethene	8.055	164	68499	8.71	ug/L		94
73) 2-Hexanone	8.207	43	46361	9.36	ug/L		98
74) 1,3-Dichloropropane	8.085	76	106963	9.14	ug/L	#	78
75) Dibromochloromethane	8.305	129	73000	8.72	ug/L		97
76) N-Butyl Acetate	8.342	43	117501	9.02	ug/L		90
77) 1,2-Dibromoethane	8.402	107	58425	8.60	ug/L		88
78) 3-Chlorobenzotrifluoride	8.878	180	123086	8.45	ug/L		93
79) Chlorobenzene	8.866	112	239952	9.14	ug/L		99
80) 4-Chlorobenzotrifluoride	8.927	180	116985	8.68	ug/L		97
81) 1,1,1,2-Tetrachloroethane	8.945	131	85303	8.92	ug/L		97
82) Ethylbenzene	8.982	106	120391	8.88	ug/L	#	87
83) (m+p)Xylene	9.085	106	299073	18.01	ug/L		97
84) o-Xylene	9.433	106	145762	8.69	ug/L		96
85) Styrene	9.451	104	245705	8.67	ug/L		96
86) Bromoform	9.597	173	42572	8.49	ug/L		90
87) 2-Chlorobenzotrifluoride	9.671	180	129130	8.95	ug/L		89
88) Isopropylbenzene	9.756	105	353731	8.62	ug/L		98
89) Cyclohexanone	9.823	55	253052	255.64	ug/L		88
90) trans-1,4-Dichloro-2-B...	10.061	53	16823	7.72	ug/L	#	70
92) 1,1,2,2-Tetrachloroethane	10.012	83	76869	9.74	ug/L		98
93) Bromobenzene	10.006	156	101855	8.90	ug/L		95
94) 1,2,3-Trichloropropane	10.042	110	19707	9.39	ug/L	#	90
95) n-Propylbenzene	10.103	91	430055	9.24	ug/L		99
96) 2-Chlorotoluene	10.170	91	266087	9.31	ug/L		94

Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:34:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

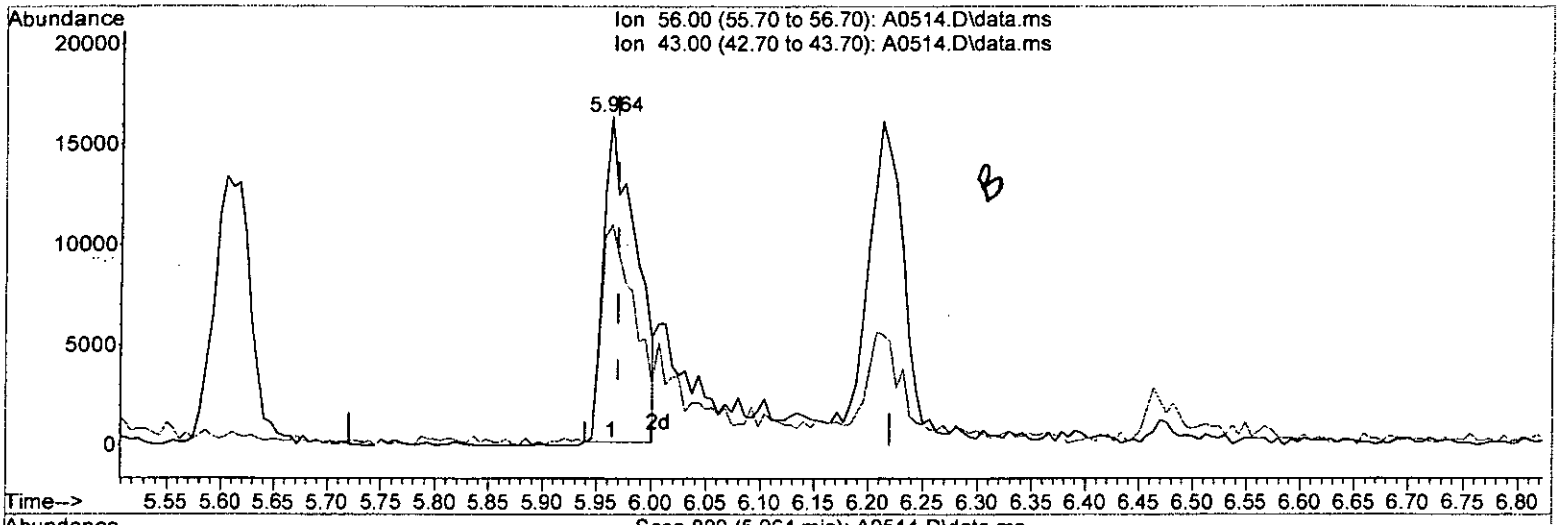
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	3-Chlorotoluene	10.219	91	294016	10.15	ug/L		97
98)	4-Chlorotoluene	10.262	91	304788	8.80	ug/L		93
99)	1,3,5-Trimethylbenzene	10.256	105	302748	8.86	ug/L		96
100)	tert-Butylbenzene	10.518	119	247046	8.70	ug/L		97
101)	1,2,4-Trimethylbenzene	10.561	105	316834	9.17	ug/L		99
102)	3,4-Dichlorobenzotrifl...	10.615	214	87518	8.54	ug/L		100
103)	sec-Butylbenzene	10.701	105	351518	8.98	ug/L		98
104)	p-Isopropyltoluene	10.817	119	313952	9.17	ug/L		98
105)	1,3-Dclbenz	10.786	146	197860	9.35	ug/L		97
106)	1,4-Dclbenz	10.853	146	203572	9.49	ug/L		96
107)	2,4-Dichlorobenzotrifl...	10.902	214	81472	8.87	ug/L		93
108)	2,5-Dichlorobenzotrifl...	10.945	214	91215	8.64	ug/L		95
109)	n-Butylbenzene	11.146	91	266276	9.00	ug/L		97
110)	1,2-Dclbenz	11.152	146	184491	9.53	ug/L		98
111)	1,2-Dibromo-3-chloropr...	11.707	157	10748	8.86	ug/L	#	82
112)	Trielution Dichlorotol...	11.804	125	482469	30.84	ug/L		97
113)	1,3,5-Trichlorobenzene	11.847	180	130979	9.96	ug/L		99
114)	Coelution Dichlorotoluene	12.066	125	343281	21.61	ug/L		95
115)	1,2,4-Tcbenzene	12.237	180	105016	9.79	ug/L		96
116)	Hexachlorobt	12.335	225	41434	8.06	ug/L		97
117)	Naphthalen	12.383	128	176873	10.76	ug/L		100
118)	1,2,3-Tclbenzene	12.524	180	78405	10.75	ug/L		97
119)	2,4,5-Trichlorotoluene	12.944	159	49008	12.24	ug/L		94
120)	2,3,6-Trichlorotoluene	13.011	159	49047	12.36	ug/L		97

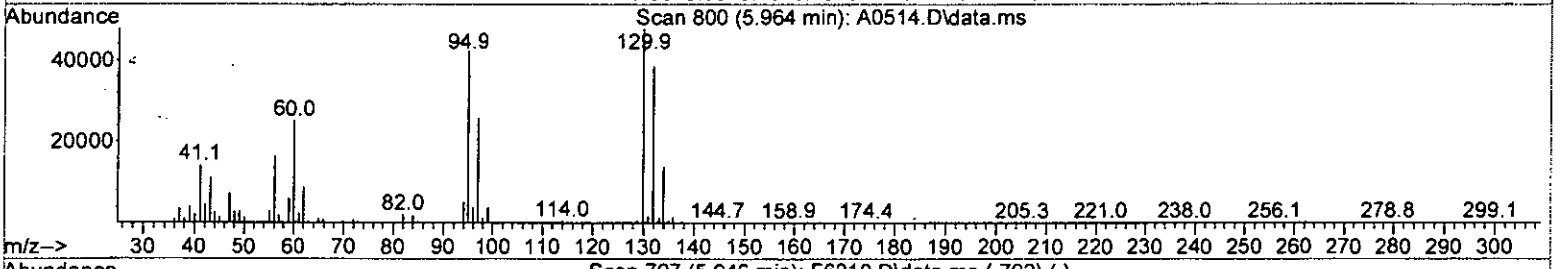
(#) = qualifier out of range (m) = manual integration (+) = signals summed

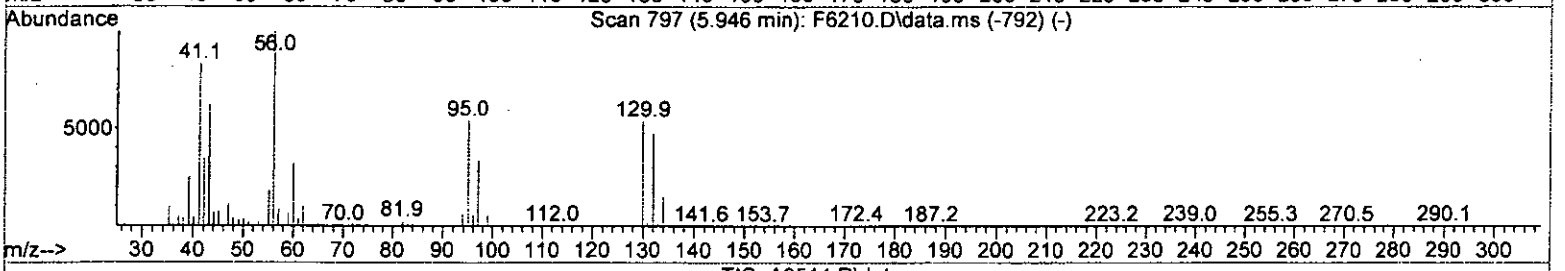
Quantitation Report (Qedit)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:06:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0514.D\data.ms

(53) 1-Butanol

5.964min (-0.006) 246.99 ug/L

response 33606

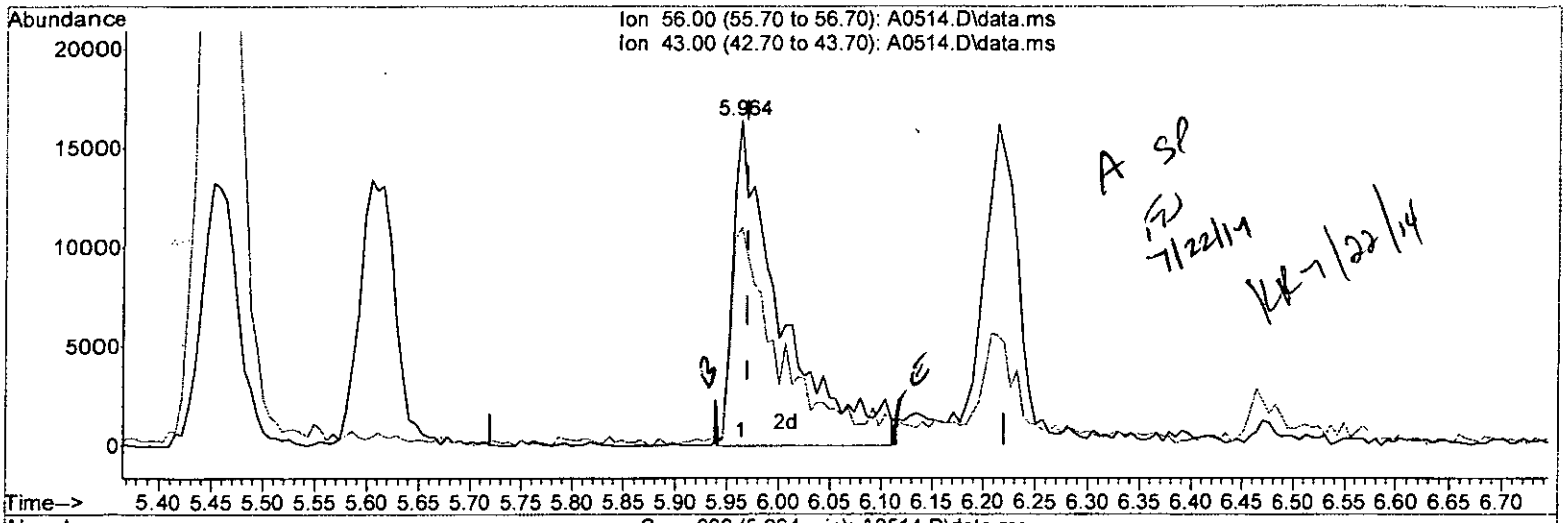
Ion	Exp%	Act%
56.00	100	100
43.00	56.20	67.05
0.00	0.00	0.00
0.00	0.00	0.00

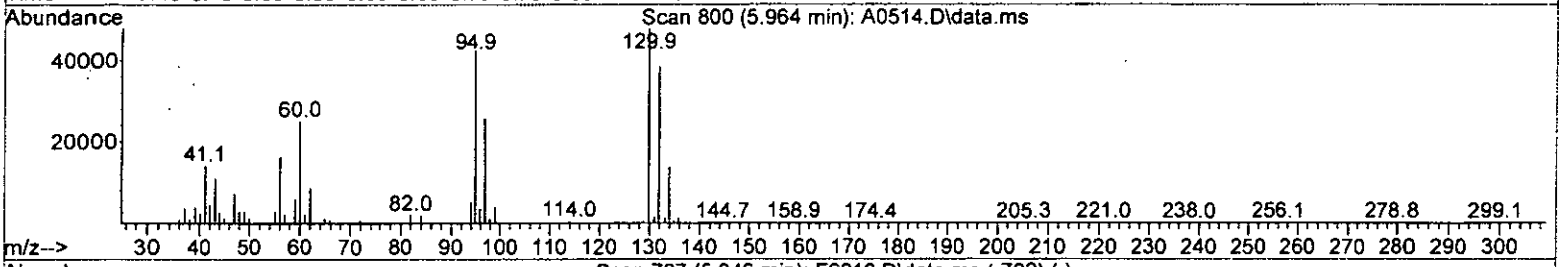
W072114.M Mon Jul 21 15:33:43 2014 MSVO10 Page: 1

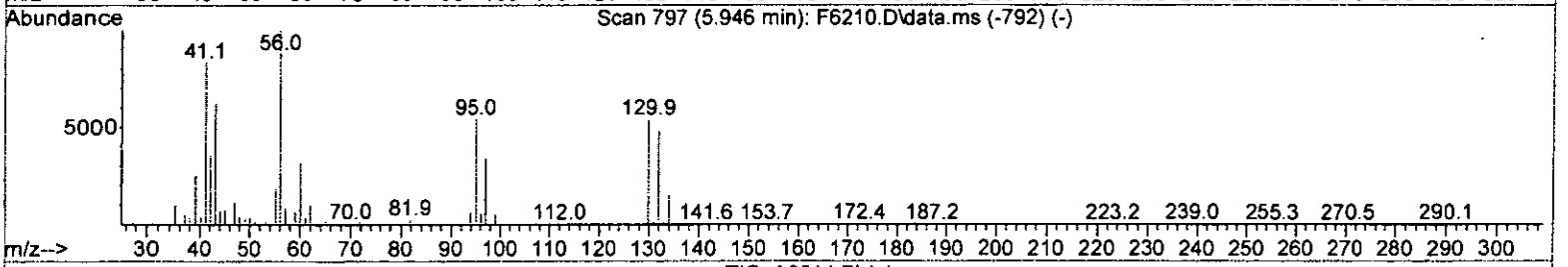
Quantitation Report (Qedit)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:06:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0514.D\data.ms

(53) 1-Butanol

5.964min (-0.006) 386.23 ug/L m

response 52550

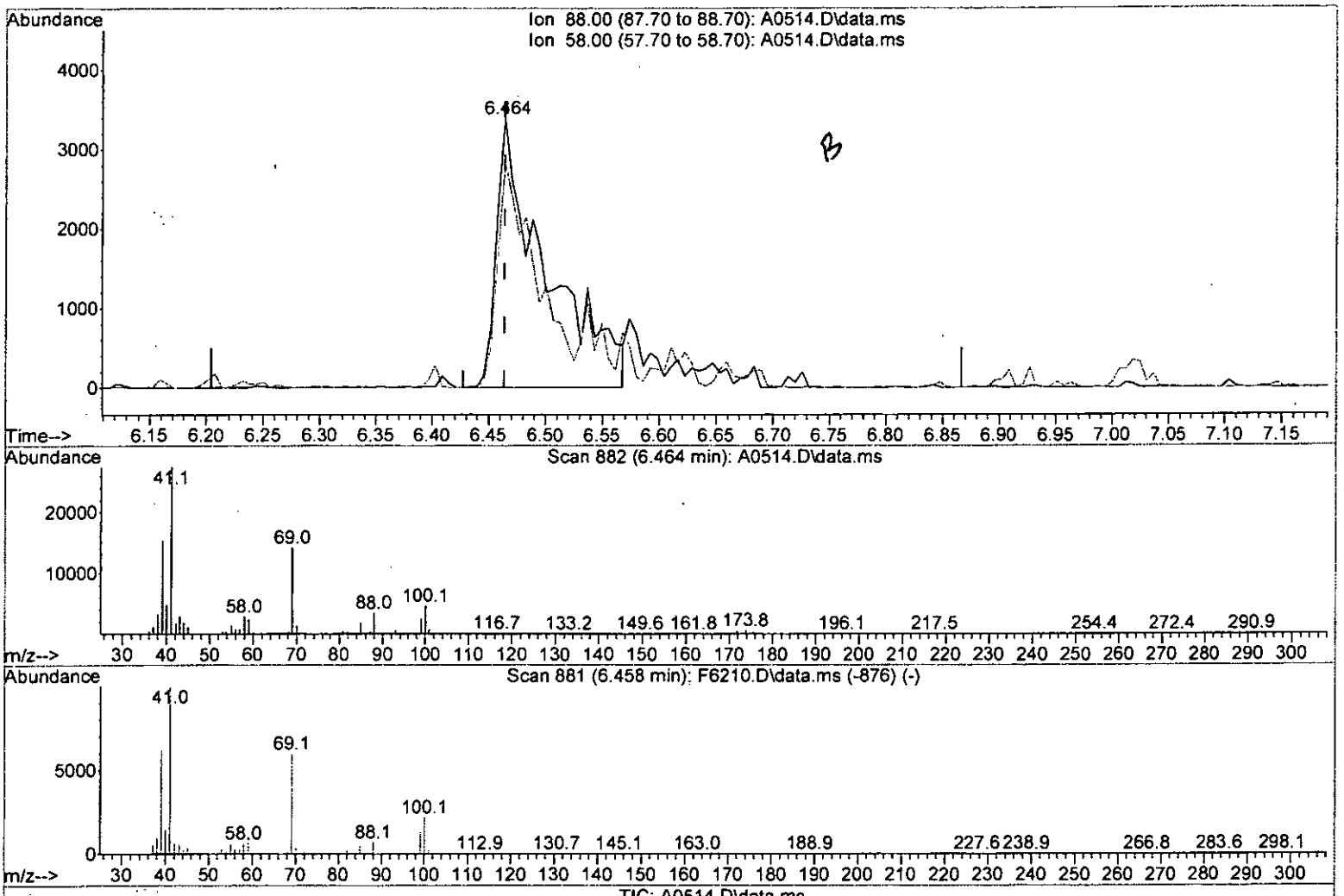
Ion	Exp%	Act%
56.00	100	100
43.00	56.20	67.05
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Mon Jul 21 15:33:56 2014 MSVO10

Quantitation Report (Qedit)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:06:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0514.D\data.ms

(58) 1,4-Dioxane

6.464min (+0.000) 203.67 ug/L

response 10234

Ion	Exp%	Act%
88.00	100	100
58.00	73.00	83.66
0.00	0.00	0.00
0.00	0.00	0.00

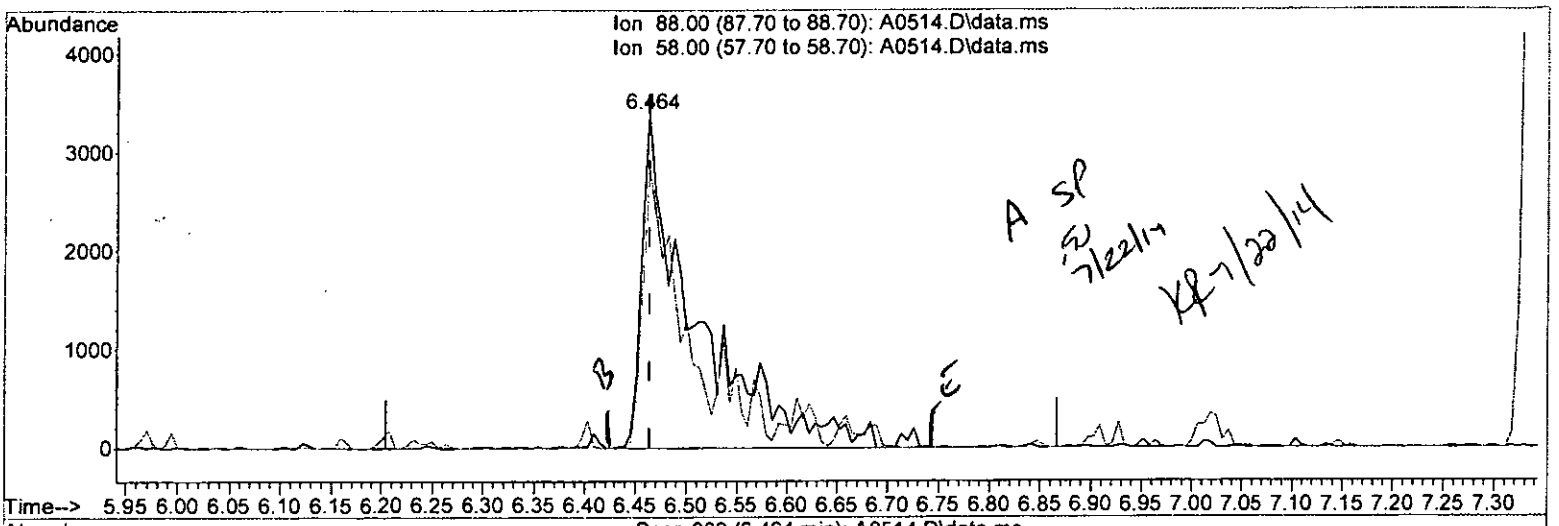
W072114.M Mon Jul 21 15:34:08 2014 MSVO10

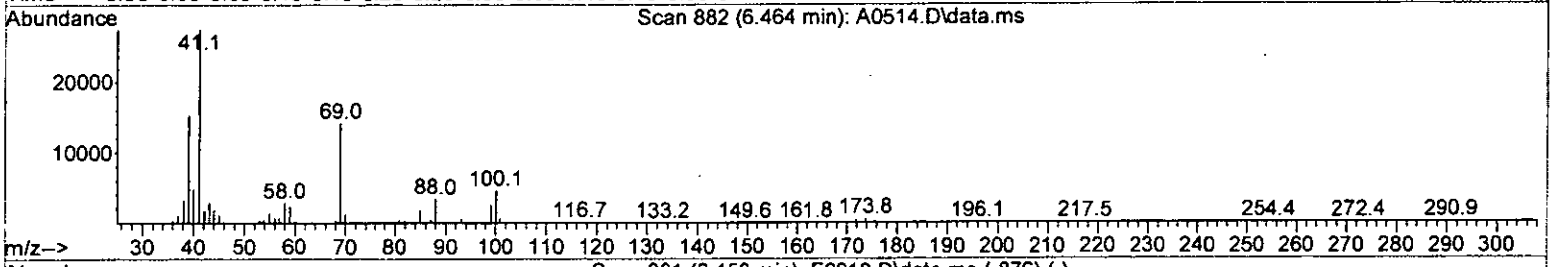
00503

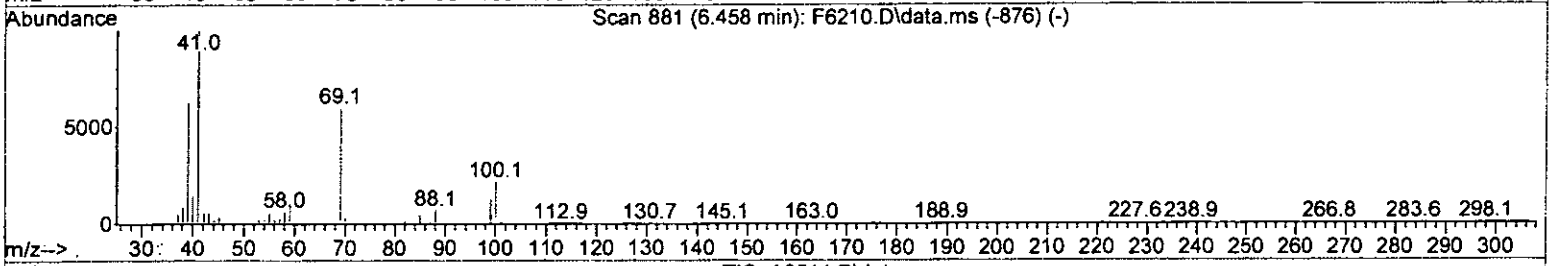
Quantitation Report (Qedit)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:06:48 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0514.D\data.ms

(58) 1,4-Dioxane

6.464min (+0.000) 246.46 ug/L m

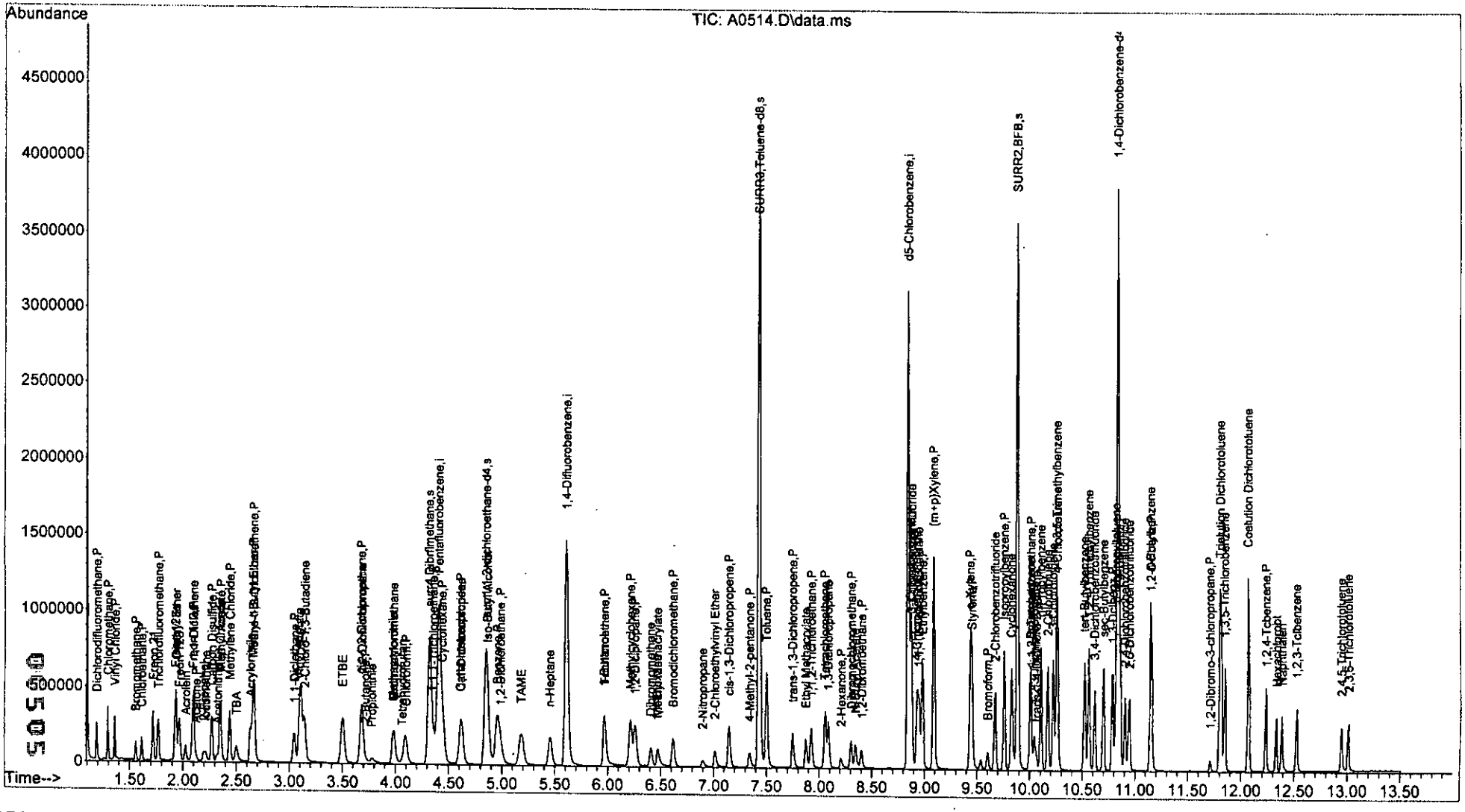
response 12384

Ion	Exp%	Act%
88.00	100	100
58.00	73.00	83.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 10 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0514.D Vial: 7
Acq On : 21 Jul 2014 1:53 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:34:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:52:50 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:10 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

FW 7/22/14

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	949160	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1398556	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1270603	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	701453	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	454971	54.58	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.16%				
48) surr1,1,2-dichloroetha...	4.854	65	477641	57.82	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 115.64%				
65) SURR3,Toluene-d8	7.427	98	1621400	50.36	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.72%				
70) SURR2,BFB	9.878	95	630157	49.72	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	545182	61.41	ug/L		97
3) Chloromethane	1.294	50	701881	63.81	ug/L		100
4) Vinyl Chloride	1.361	62	624729	54.13	ug/L		99
5) Bromomethane	1.556	94	193829	46.51	ug/L		98
6) Chloroethane	1.611	64	315747	50.30	ug/L		93
7) Freon 21	1.721	67	893319	53.43	ug/L		99
8) Trichlorofluoromethane	1.770	101	701988	56.65	ug/L		99
9) Diethyl Ether	1.934	59	356589	50.08	ug/L	#	80
10) Freon 123a	1.928	67	579067	53.82	ug/L		91
11) Freon 123	1.965	83	591348	51.61	ug/L		98
12) Acrolein	2.026	56	287632	260.96	ug/L		100
13) 1,1-Diclethene	2.099	96	314561	49.73	ug/L	#	77
14) Freon 113	2.093	101	401072	55.58	ug/L		99
15) Acetone	2.123	43	130151	60.81	ug/L		94
16) 2-Propanol	2.196	45	423594	1143.17	ug/L		98
17) Iodomethane	2.215	142	303620	45.84	ug/L		100
18) Carbon Disulfide	2.269	76	1385880	51.47	ug/L		98
19) Acetonitrile	2.318	40	75724	263.45	ug/L		94
20) Allyl Chloride	2.349	76	220579	48.20	ug/L	#	27
21) Methyl Acetate	2.355	43	308066	67.13	ug/L		87
22) Methylene Chloride	2.440	84	412593	43.29	ug/L	#	73
23) TBA	2.501	59	509556	872.76	ug/L		68
24) Acrylonitrile	2.629	53	672980	287.84	ug/L		100
25) Methyl-t-Butyl Ether	2.660	73	958922	47.78	ug/L		90
26) trans-1,2-Dichloroethene	2.666	96	419320m	52.16	ug/L		
28) 1,1-Diclethane	3.044	63	890219	53.87	ug/L		95
29) Vinyl Acetate	3.092	86	56045	47.88	ug/L	#	1
30) DIPE	3.105	45	2169226	64.85	ug/L		92
31) 2-Chloro-1,3-Butadiene	3.141	53	920805	57.91	ug/L		81
32) ETBE	3.501	59	1410811	49.59	ug/L		92
33) 2,2-Dichloropropane	3.678	77	570611	47.14	ug/L		96
34) cis-1,2-Dichloroethene	3.678	96	462521	50.75	ug/L	#	77
35) 2-Butanone	3.696	43	208936	71.60	ug/L		90
36) Propionitrile	3.769	54	231929	307.78	ug/L		95
37) Bromochloromethane	3.983	130	275977	51.62	ug/L	#	78

00506

Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:10 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.970	67	112594	47.52	ug/L	#	40
39) Tetrahydrofuran	4.056	42	108322	62.38	ug/L		72
40) Chloroform	4.092	83	746181	50.51	ug/L		92
41) 1,1,1-Trichloroethane	4.361	97	636305	49.06	ug/L		94
42) TAME	5.184	73	981058	45.85	ug/L		89
44) Cyclohexane	4.446	41	652292	62.68	ug/L		92
46) Carbontetrachloride	4.617	121	173149	46.04	ug/L		98
47) 1,1-Dichloropropene	4.617	75	533535	47.17	ug/L		99
49) Benzene	4.958	78	1706240	47.27	ug/L		90
50) 1,2-Dichloroethane	4.988	62	588037	49.65	ug/L		92
51) Iso-Butyl Alcohol	4.860	43	287576	980.36	ug/L		99
52) n-Heptane	5.458	43	675415	66.73	ug/L		82
53) 1-Butanol	5.946	56	308102	2243.80	ug/L		85
54) Trichloroethene	5.970	130	464772	47.94	ug/L		97
55) Methylcyclohexane	6.214	55	692960	54.44	ug/L	#	77
56) 1,2-Diclpropane	6.257	63	497491	48.16	ug/L		97
57) Dibromomethane	6.403	93	231776	49.04	ug/L		95
58) 1,4-Dioxane	6.458	88	55119m	1086.93	ug/L		
59) Methyl Methacrylate	6.464	69	187676	44.94	ug/L	#	49
60) Bromodichloromethane	6.616	83	542774	47.83	ug/L		97
61) 2-Nitropropane	6.897	41	129763	80.33	ug/L		92
62) 2-Chloroethylvinyl Ether	7.006	63	232844	48.91	ug/L		92
63) cis-1,3-Dichloropropene	7.147	75	615269	44.94	ug/L		99
64) 4-Methyl-2-pentanone	7.336	43	393405	57.07	ug/L		91
66) Toluene	7.500	91	1776654	45.79	ug/L		99
67) trans-1,3-Dichloropropene	7.750	75	487933	43.54	ug/L		95
68) Ethyl Methacrylate	7.872	69	388954	44.64	ug/L	#	64
69) 1,1,2-Trichloroethane	7.927	97	311576	46.30	ug/L		97
72) Tetrachloroethene	8.055	164	362185	45.91	ug/L		93
73) 2-Hexanone	8.195	43	289001	58.15	ug/L		85
74) 1,3-Dichloropropane	8.085	76	543624m	46.30	ug/L		
75) Dibromochloromethane	8.299	129	404866	48.21	ug/L		98
76) N-Butyl Acetate	8.335	43	671394	51.37	ug/L		91
77) 1,2-Dibromoethane	8.396	107	318006	46.65	ug/L		97
78) 3-Chlorobenzotrifluoride	8.878	180	707477	48.41	ug/L		97
79) Chlorobenzene	8.866	112	1203777	45.69	ug/L		96
80) 4-Chlorobenzotrifluoride	8.927	180	646387	47.78	ug/L		96
81) 1,1,1,2-Tetrachloroethane	8.945	131	438317	45.71	ug/L		97
82) Ethylbenzene	8.976	106	616548	45.32	ug/L		96
83) (m+p)Xylene	9.085	106	1536086	92.21	ug/L		99
84) o-Xylene	9.433	106	768843	45.71	ug/L		94
85) Styrene	9.445	104	1299709	45.75	ug/L		97
86) Bromoform	9.597	173	227367	45.21	ug/L		99
87) 2-Chlorobenzotrifluoride	9.670	180	695435	48.07	ug/L		95
88) Isopropylbenzene	9.756	105	1923423	46.72	ug/L		99
89) Cyclohexanone	9.823	55	1284304	1293.43	ug/L		94
90) trans-1,4-Dichloro-2-B...	10.061	53	103183	47.20	ug/L		84
92) 1,1,2,2-Tetrachloroethane	10.012	83	372312	46.14	ug/L		96
93) Bromobenzene	10.000	156	515276	44.02	ug/L		96
94) 1,2,3-Trichloropropane	10.042	110	99478	46.36	ug/L		98
95) n-Propylbenzene	10.103	91	2298713	48.30	ug/L		99
96) 2-Chlorotoluene	10.170	91	1355725	46.38	ug/L		94

Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:10 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration

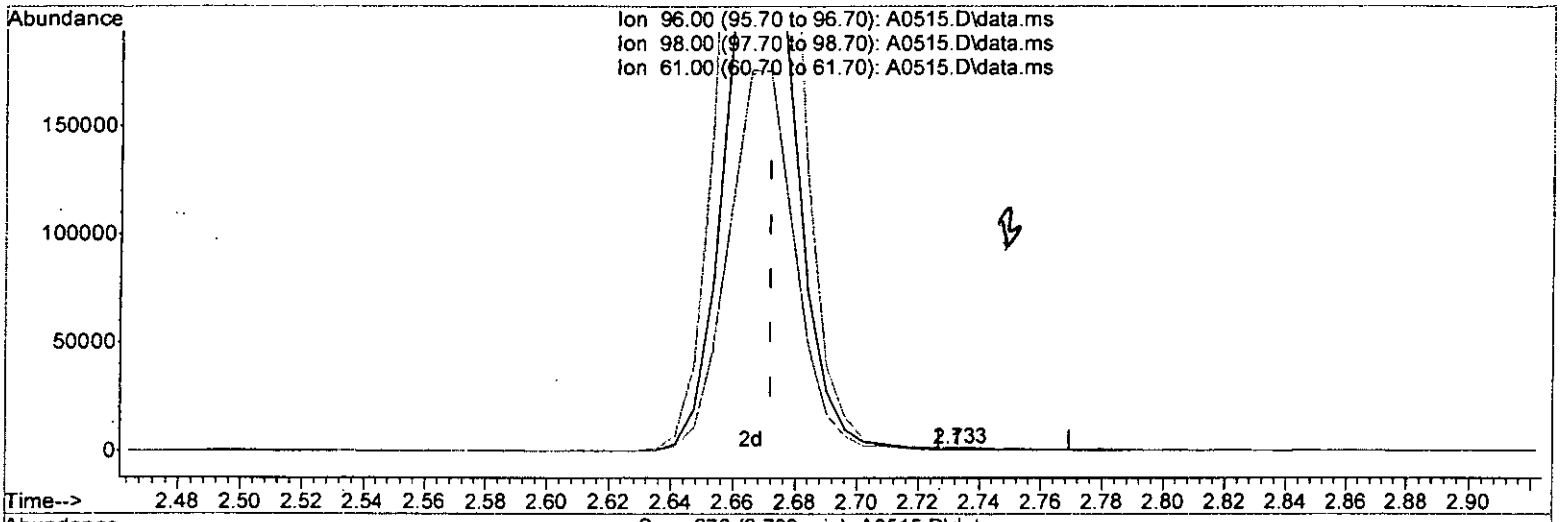
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.219	91	1476462	49.85	ug/L	96
98)	4-Chlorotoluene	10.262	91	1595818	45.07	ug/L	91
99)	1,3,5-Trimethylbenzene	10.250	105	1631363	46.68	ug/L	97
100)	tert-Butylbenzene	10.518	119	1373703	47.32	ug/L	100
101)	1,2,4-Trimethylbenzene	10.561	105	1666349	47.16	ug/L	96
102)	3,4-Dichlorobenzotrifl...	10.615	214	492586	47.03	ug/L	96
103)	sec-Butylbenzene	10.701	105	1959431	48.97	ug/L	98
104)	p-Isopropyltoluene	10.817	119	1715812	49.03	ug/L	97
105)	1,3-Dclbenz	10.780	146	1017540	47.00	ug/L	98
106)	1,4-Dclbenz	10.853	146	1037790	47.32	ug/L	98
107)	2,4-Dichlorobenzotrifl...	10.902	214	450439	47.96	ug/L	98
108)	2,5-Dichlorobenzotrifl...	10.945	214	510594	47.29	ug/L	98
109)	n-Butylbenzene	11.140	91	1484071	49.07	ug/L	99
110)	1,2-Dclbenz	11.152	146	944412	47.73	ug/L	98
111)	1,2-Dibromo-3-chloropr...	11.707	157	63391	51.08	ug/L	95
112)	Trielution Dichlorotol...	11.798	125	2617606	163.65	ug/L	90
113)	1,3,5-Trichlorobenzene	11.847	180	704265	52.35	ug/L	94
114)	Coelution Dichlorotoluene	12.066	125	1819179	111.99	ug/L	96
115)	1,2,4-Tcbenzene	12.231	180	551250	50.24	ug/L	93
116)	Hexachlorobt	12.329	225	223256	42.47	ug/L	99
117)	Naphthalen	12.377	128	1016613	60.48	ug/L	99
118)	1,2,3-Tclbenzene	12.517	180	420593	56.38	ug/L	99
119)	2,4,5-Trichlorotoluene	12.944	159	276281	67.45	ug/L	96
120)	2,3,6-Trichlorotoluene	13.005	159	259500	63.93	ug/L	99

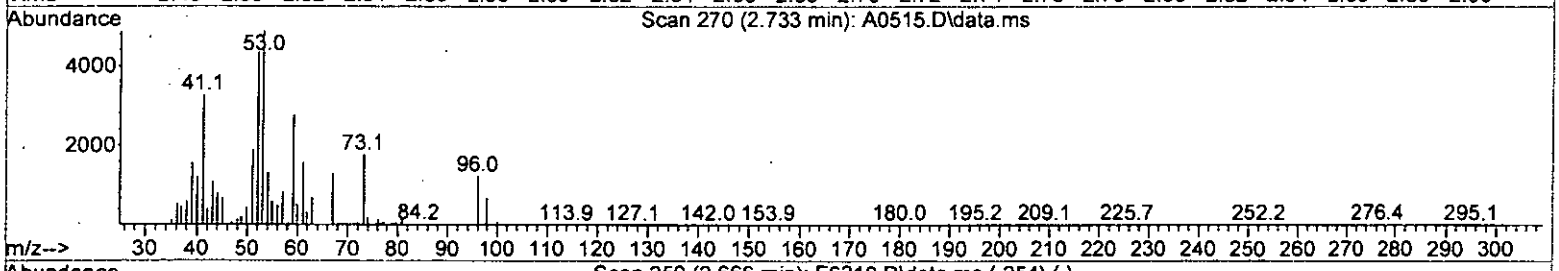
(#) = qualifier out of range (m) = manual integration (+) = signals summed

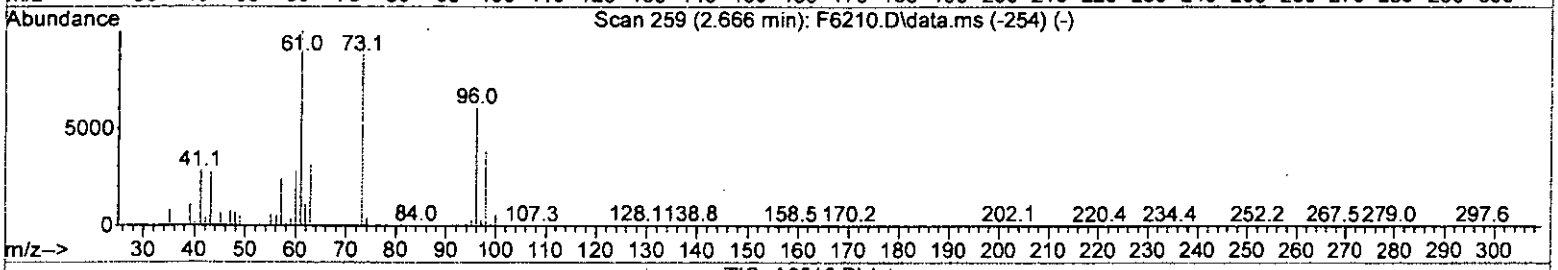
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:37:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0515.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.733min (+0.061) 0.15 ug/L

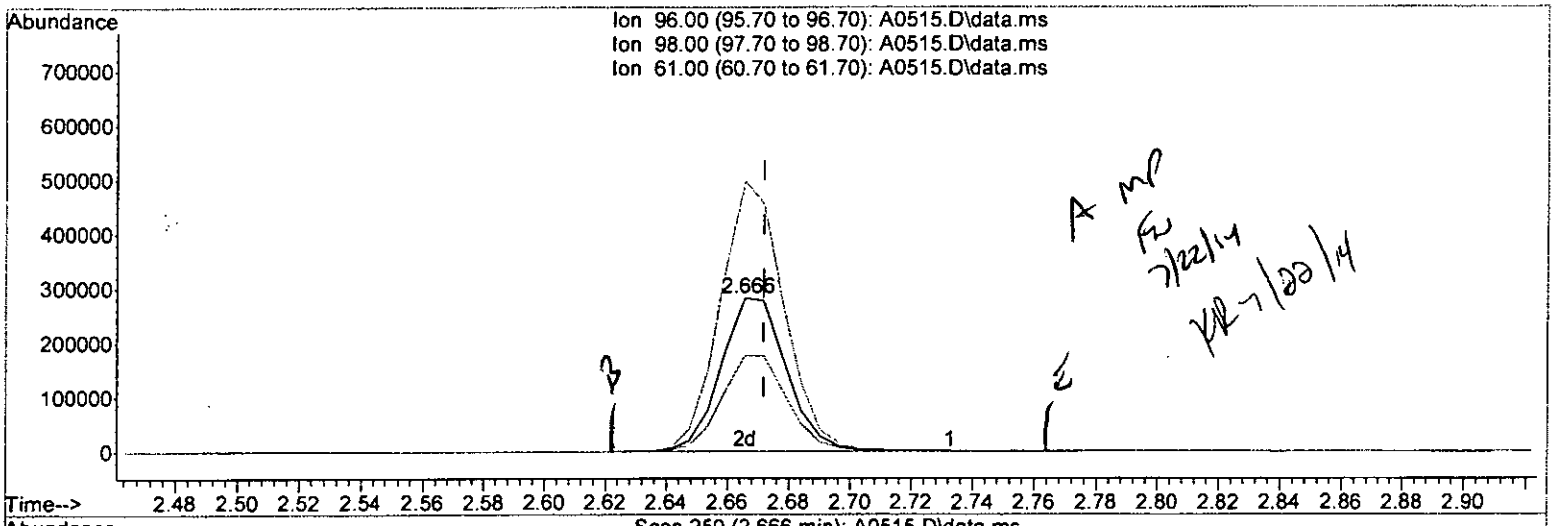
response 1179

Ion	Exp%	Act%
96.00	100	100
98.00	64.00	54.69
61.00	144.30	126.13
0.00	0.00	0.00

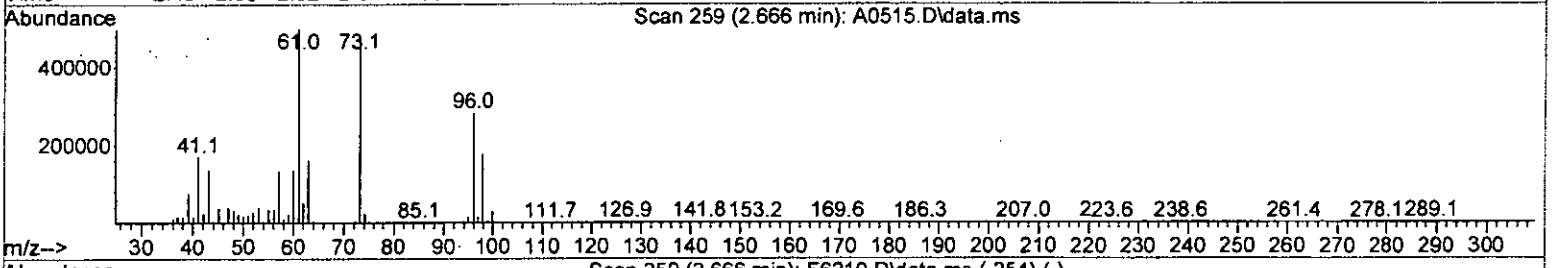
Quantitation Report (Qedit)

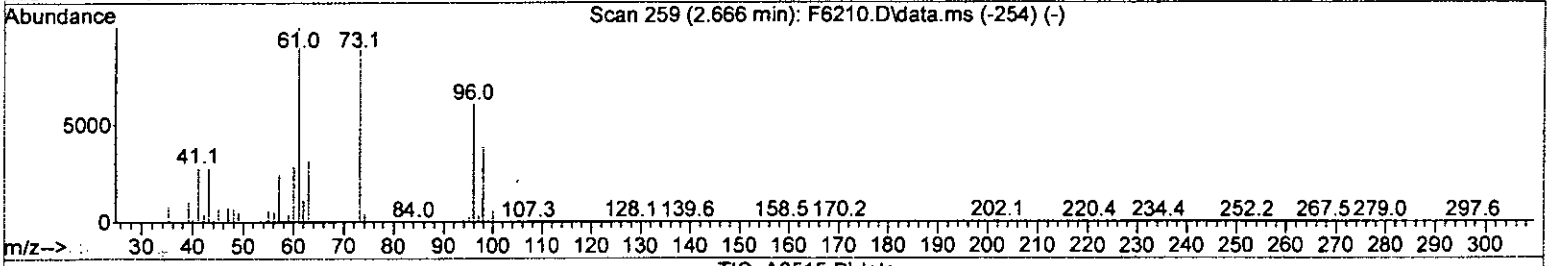
Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:37:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



A MP 7/22/14 KP 7/23/14





TIC: A0515.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.666min (-0.006) 52.16 ug/L m

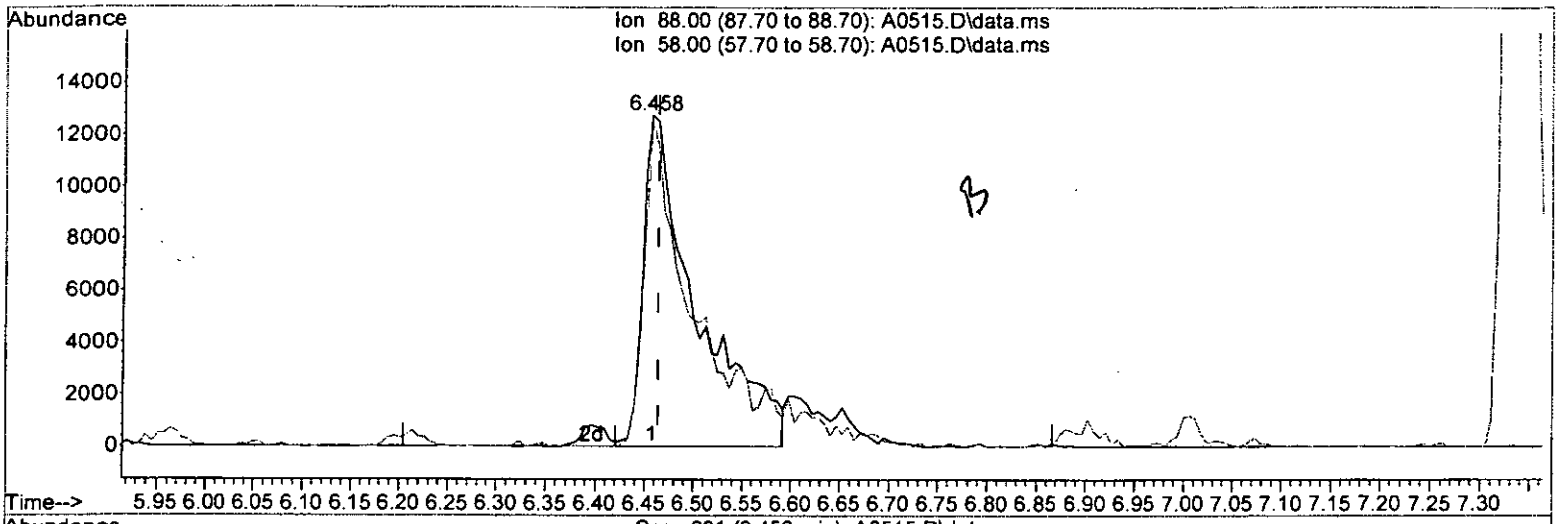
response 419320

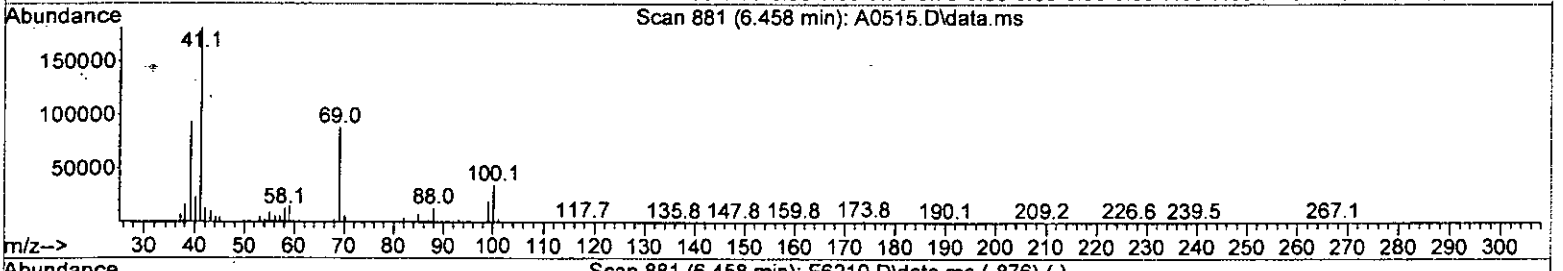
Ion	Exp%	Act%
96.00	100	100
98.00	64.00	62.55
61.00	144.30	176.87#
0.00	0.00	0.00

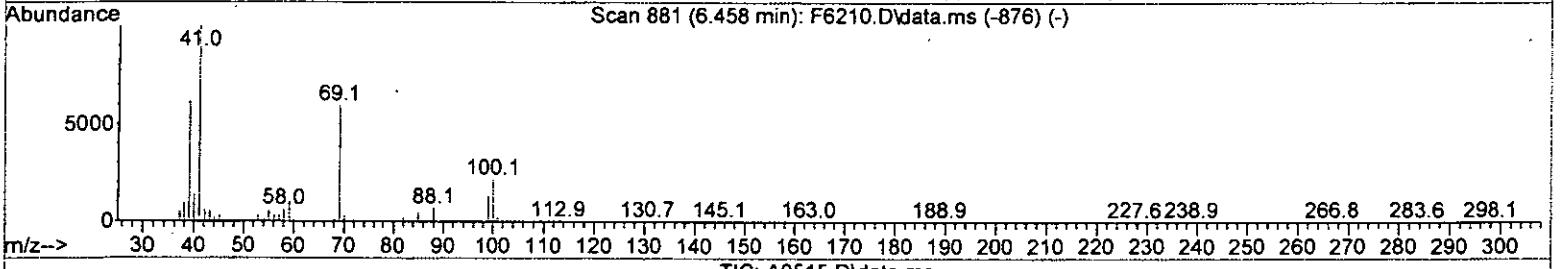
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:37:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0515.D\data.ms

(58) 1,4-Dioxane

6.458min (-0.006) 949.18 ug/L

response 48134

Ion	Exp%	Act%
88.00	100	100
58.00	73.00	97.42#
0.00	0.00	0.00
0.00	0.00	0.00

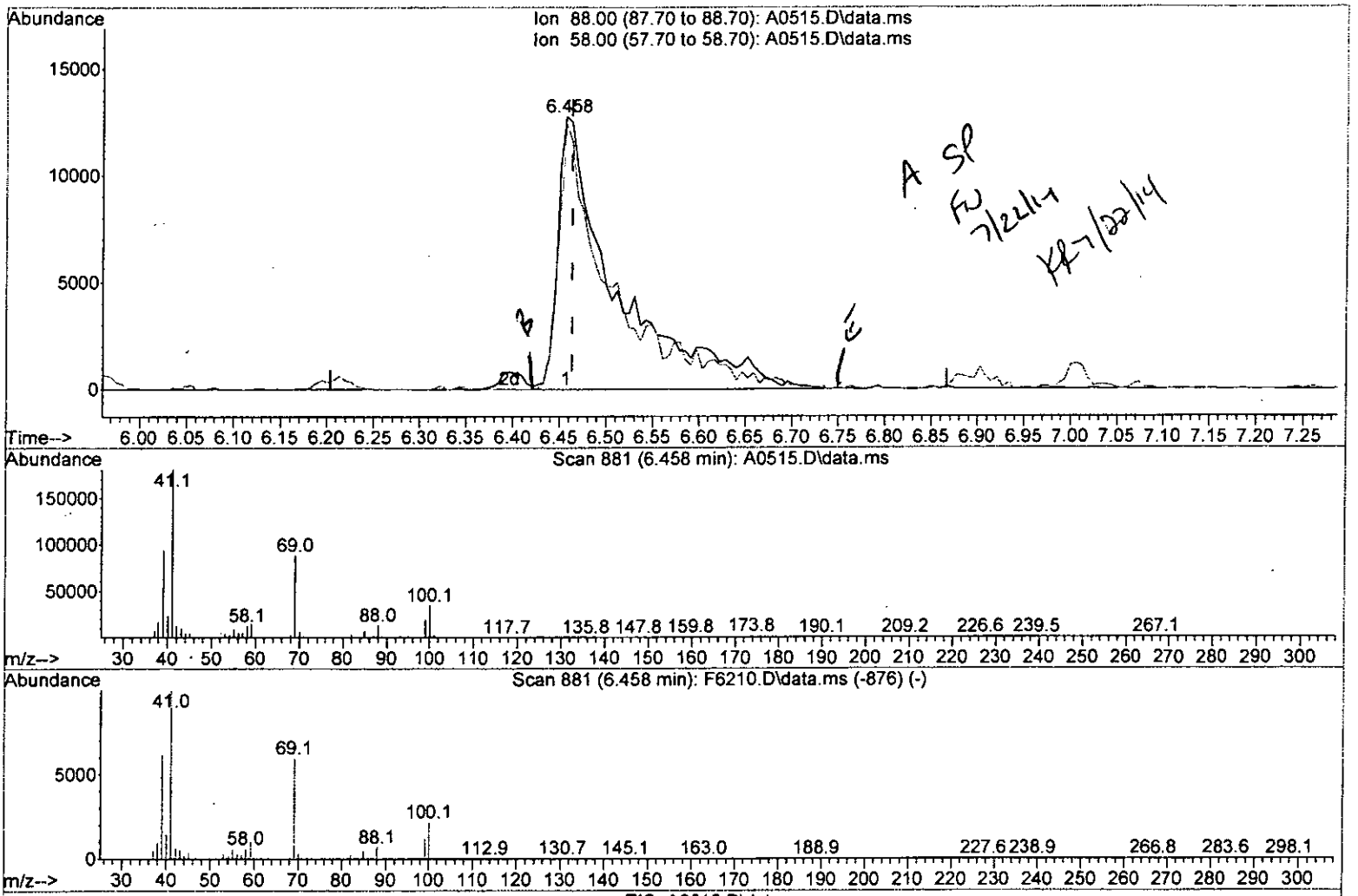
W072114.M Mon Jul 21 15:36:39 2014 MSVO10

00511

Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:37:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



TIC: A0515.D\data.ms

(58) 1,4-Dioxane

6.458min (-0.006) 1086.93 ug/L m

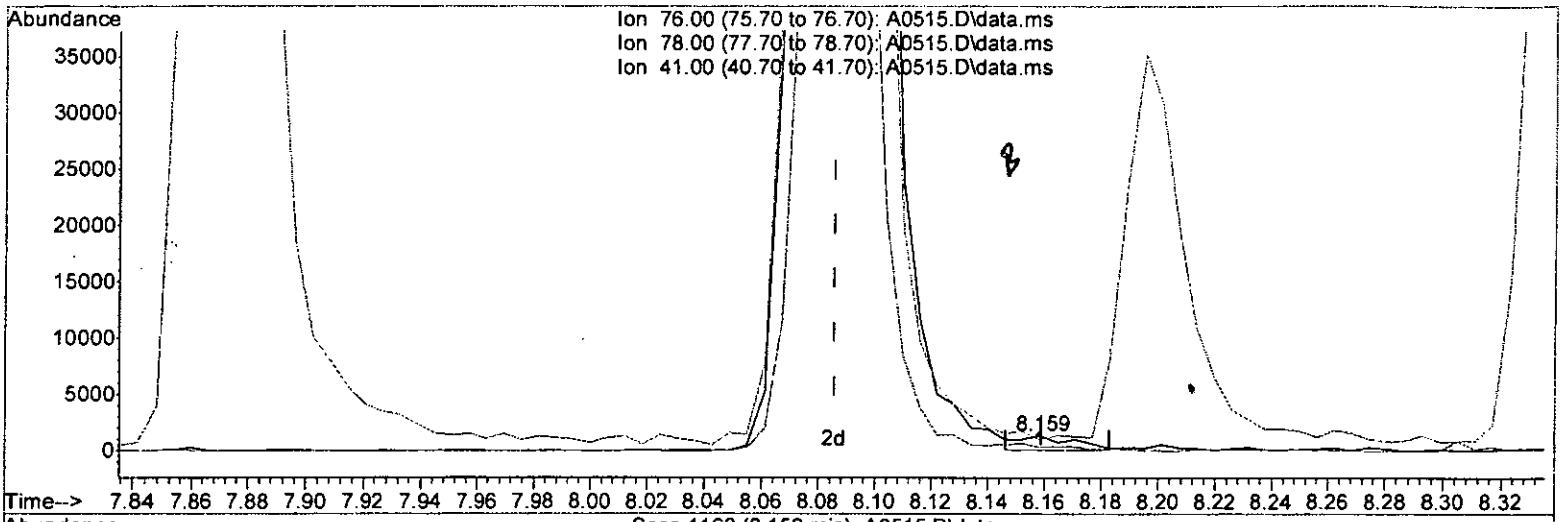
response 55119

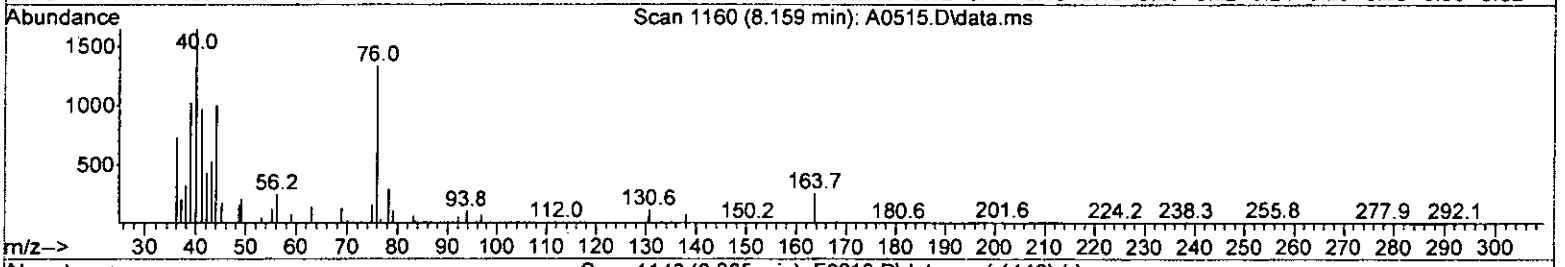
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	97.42#
0.00	0.00	0.00
0.00	0.00	0.00

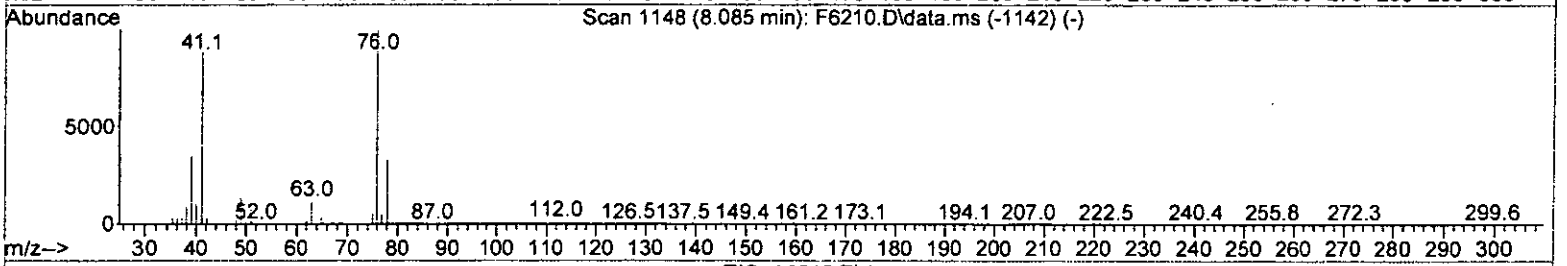
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:37:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0515.D\data.ms

(74) 1,3-Dichloropropane

8.159min (+0.073) 0.14 ug/L

response 1656

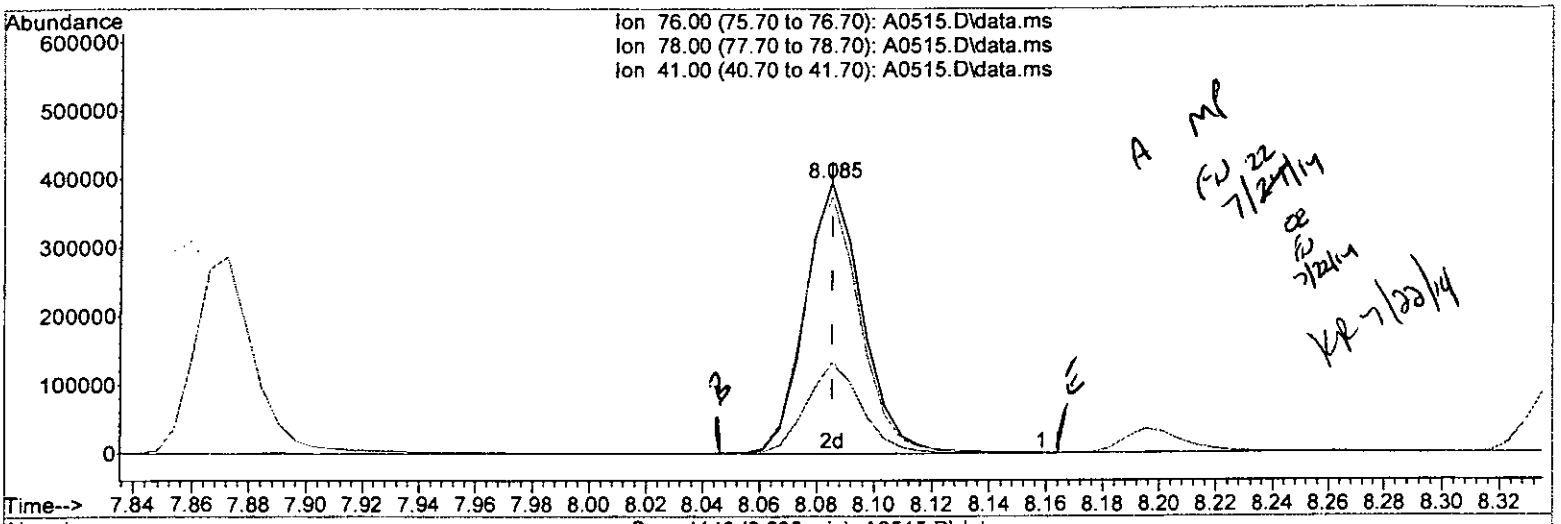
Ion	Exp%	Act%
76.00	100	100
78.00	31.70	21.85
41.00	66.30	72.45
0.00	0.00	0.00

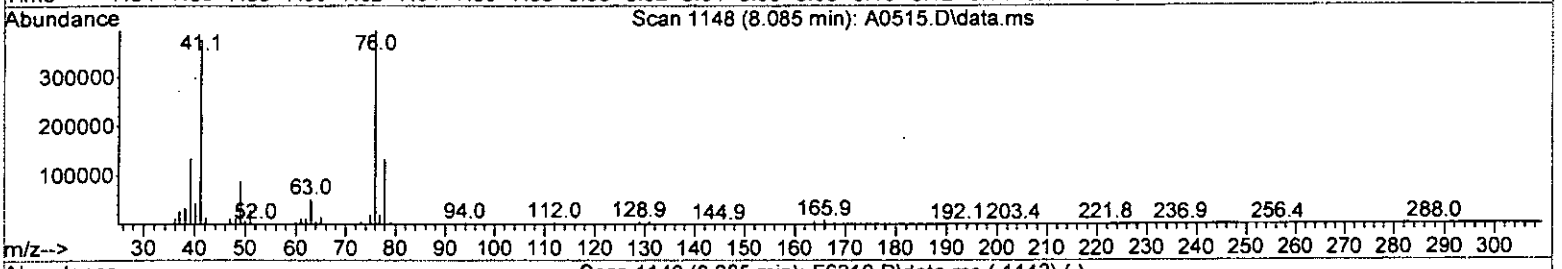
00513

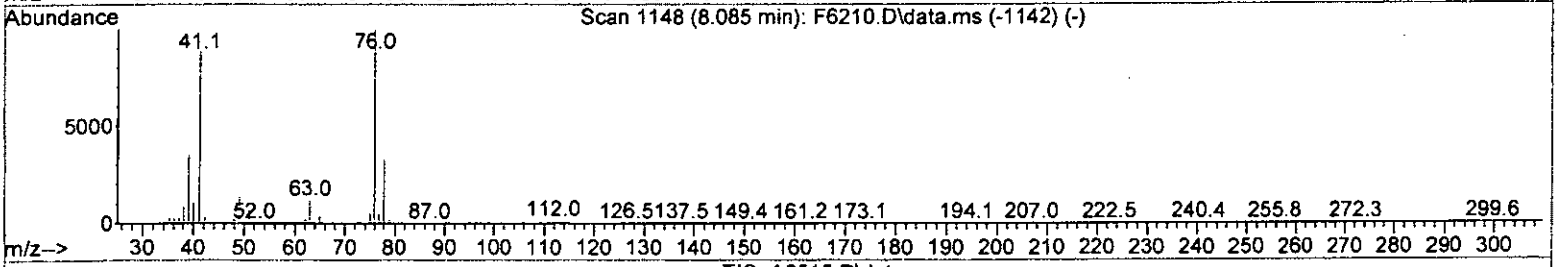
Quantitation Report (Qedit)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 14:37:05 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration







TIC: A0515.D\data.ms

(74) 1,3-Dichloropropane

8.085min (-0.000) 46.30 ug/L m

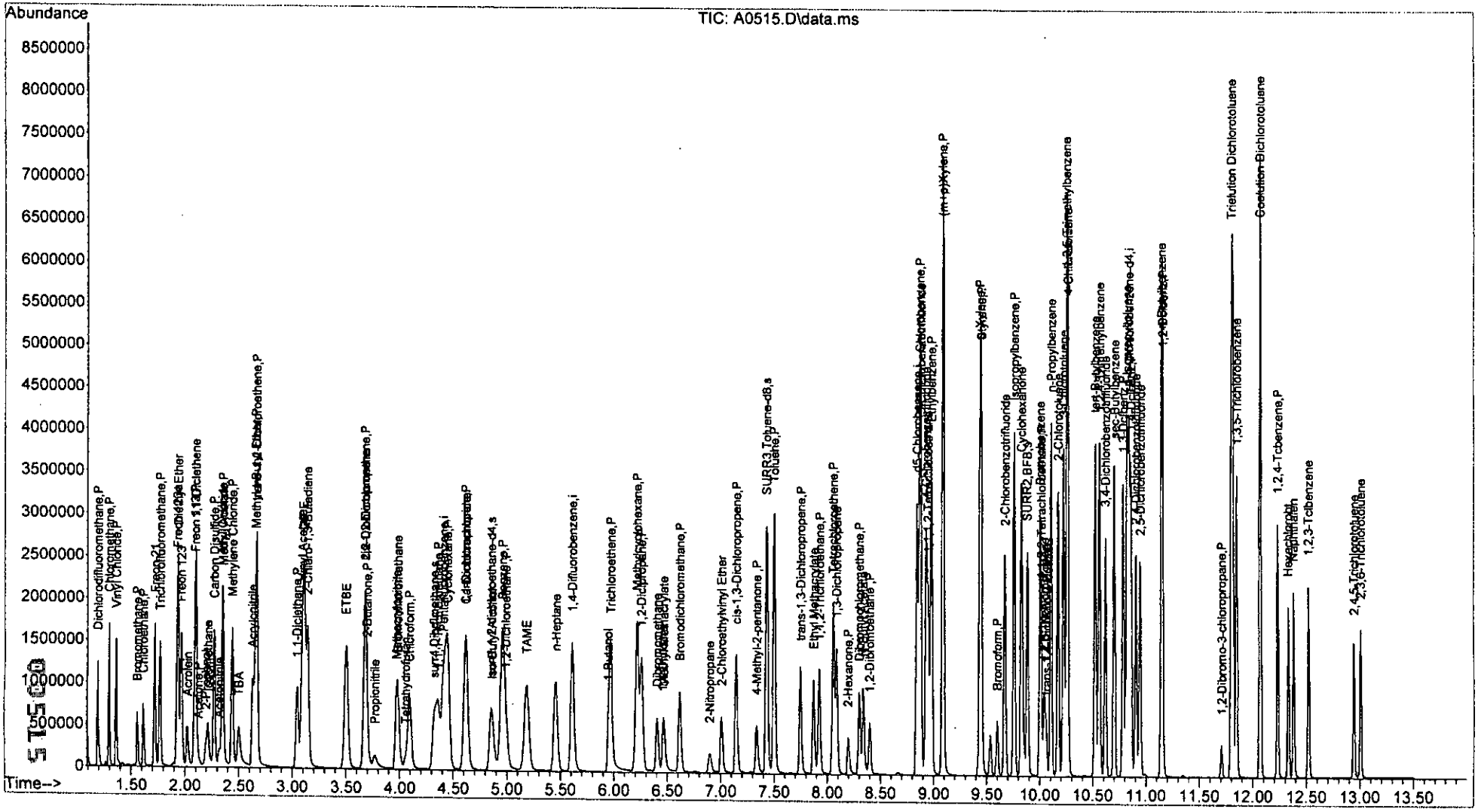
response 543624

Ion	Exp%	Act%
76.00	100	100
78.00	31.70	33.49
41.00	66.30	95.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 50 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0515.D Vial: 8
Acq On : 21 Jul 2014 2:23 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:10 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 10:57:04 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:53:01 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : 100 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0516.D Vial: 9
Acq On : 21 Jul 2014 2:54 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:07:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:07:03 2014
Response via : Initial Calibration

FJ 7/22/14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	1003324	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1461897	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1326464	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	731081	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	950301	173.58	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 347.16%#			
48) surr1,1,2-dichloroetha...	4.854	65	989224	114.56	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 229.12%#			
65) SURR3,Toluene-d8	7.427	98	3311847	98.42	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 196.84%#			
70) SURR2,BFB	9.878	95	1322803	99.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 199.68%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.190	85	1181955	125.95	ug/L	96
3) Chloromethane	1.294	50	1483867	127.62	ug/L	98
4) Vinyl Chloride	1.361	62	1357590	111.28	ug/L	97
5) Bromomethane	1.556	94	480548	109.09	ug/L	99
6) Chloroethane	1.611	64	666054	100.38	ug/L	94
7) Freon 21	1.721	67	1767840	100.04	ug/L	97
8) Trichlorofluoromethane	1.770	101	1524824	116.40	ug/L	99
9) Diethyl Ether	1.934	59	748105	99.40	ug/L	81
10) Freon 123a	1.928	67	1138311	100.09	ug/L	94
11) Freon 123	1.965	83	1178826	97.33	ug/L	98
12) Acrolein	2.019	56	590183	506.54	ug/L	95
13) 1,1-Diclethene	2.099	96	700982	104.85	ug/L #	82
14) Freon 113	2.093	101	889388	116.60	ug/L	99
15) Acetone	2.117	43	254735	112.59	ug/L	96
16) 2-Propanol	2.196	45	875214	2234.47	ug/L	96
17) Iodomethane	2.215	142	992094	141.69	ug/L	100
18) Carbon Disulfide	2.269	76	2947100	103.54	ug/L	100
19) Acetonitrile	2.318	40	168928	555.98	ug/L	99
20) Allyl Chloride	2.349	76	484787	100.21	ug/L #	36
21) Methyl Acetate	2.355	43	604659	124.64	ug/L	89
22) Methylene Chloride	2.440	84	884487	87.79	ug/L #	78
23) TBA	2.501	59	1092571	1770.31	ug/L	80
24) Acrylonitrile	2.629	53	1419211	574.25	ug/L	96
25) Methyl-t-Butyl Ether	2.660	73	2073959	97.76	ug/L	90
26) trans-1,2-Dichloroethene	2.666	96	905498	106.56	ug/L #	83
28) 1,1-Diclethane	3.044	63	1903812	108.99	ug/L	98
29) Vinyl Acetate	3.086	86	131689	106.43	ug/L #	45
30) DIPE	3.105	45	4429902	125.28	ug/L	94
31) 2-Chloro-1,3-Butadiene	3.141	53	1969989	117.21	ug/L	83
32) ETBE	3.501	59	2976321	98.96	ug/L	91
33) 2,2-Dichloropropane	3.684	77	1288819	100.72	ug/L	98
34) cis-1,2-Dichloroethene	3.678	96	991164	102.89	ug/L #	75
35) 2-Butanone	3.696	43	410469	133.07	ug/L	89
36) Propionitrile	3.763	54	469239	589.08	ug/L	89
37) Bromochloromethane	3.983	130	580032	102.63	ug/L #	80

00516

Quantitation Report (QT Reviewed)

Sample : 100 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0516.D Vial: 9
Acq On : 21 Jul 2014 2:54 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:07:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:07:03 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.964	67	243819	97.35	ug/L	#	44
39) Tetrahydrofuran	4.056	42	225768	122.99	ug/L		74
40) Chloroform	4.092	83	1607663	102.95	ug/L		93
41) 1,1,1-Trichloroethane	4.360	97	1412570	103.03	ug/L		94
42) TAME	5.184	73	2074906	91.74	ug/L		90
44) Cyclohexane	4.446	41	1281670	117.82	ug/L		90
46) Carbontetrachloride	4.617	121	402990	102.51	ug/L		91
47) 1,1-Dichloropropene	4.617	75	1190936	100.74	ug/L		99
49) Benzene	4.952	78	3701767	98.11	ug/L		91
50) 1,2-Dichloroethane	4.988	62	1248188	100.81	ug/L		94
51) Iso-Butyl Alcohol	4.848	43	635882	2073.84	ug/L		97
52) n-Heptane	5.452	43	1449514	137.01	ug/L		82
53) 1-Butanol	5.946	56	698177	4864.28	ug/L		86
54) Trichloroethene	5.964	130	1027820	101.42	ug/L		96
55) Methylcyclohexane	6.214	55	1395178	104.86	ug/L	#	80
56) 1,2-Diclpropane	6.256	63	1074490	99.52	ug/L		100
57) Dibromomethane	6.403	93	497593	100.72	ug/L		98
58) 1,4-Dioxane	6.458	88	112988	2131.54	ug/L		77
59) Methyl Methacrylate	6.464	69	413172	94.65	ug/L	#	61
60) Bromodichloromethane	6.616	83	1186157	100.00	ug/L		98
61) 2-Nitropropane	6.890	41	293666	173.91	ug/L		94
62) 2-Chloroethylvinyl Ether	7.006	63	512039	102.89	ug/L		92
63) cis-1,3-Dichloropropene	7.140	75	1369756	95.71	ug/L		99
64) 4-Methyl-2-pentanone	7.336	43	831641	115.41	ug/L		93
66) Toluene	7.500	91	3866771	95.34	ug/L		99
67) trans-1,3-Dichloropropene	7.744	75	1120753	95.68	ug/L		97
68) Ethyl Methacrylate	7.872	69	868062	95.31	ug/L	#	62
69) 1,1,2-Trichloroethane	7.921	97	675419	96.02	ug/L		99
72) Tetrachloroethene	8.055	164	804106	97.64	ug/L		96
73) 2-Hexanone	8.195	43	593948	114.48	ug/L		94
74) 1,3-Dichloropropane	8.085	76	1151644	93.95	ug/L	#	77
75) Dibromochloromethane	8.299	129	898909	102.54	ug/L		98
76) N-Butyl Acetate	8.335	43	1386271	101.60	ug/L		92
77) 1,2-Dibromoethane	8.396	107	683507	96.05	ug/L		95
78) 3-Chlorobenzotrifluoride	8.878	180	1506496	98.75	ug/L		96
79) Chlorobenzene	8.866	112	2644424	96.14	ug/L		98
80) 4-Chlorobenzotrifluoride	8.927	180	1378153	97.59	ug/L		95
81) 1,1,1,2-Tetrachloroethane	8.945	131	987238	98.61	ug/L		98
82) Ethylbenzene	8.982	106	1381893	97.29	ug/L	#	90
83) (m+p)Xylene	9.085	106	3447083	198.21	ug/L		91
84) o-Xylene	9.433	106	1676553	95.47	ug/L		92
85) Styrene	9.445	104	2905894	97.97	ug/L		99
86) Bromoform	9.597	173	517868	98.65	ug/L		99
87) 2-Chlorobenzotrifluoride	9.670	180	1475162	97.67	ug/L		95
88) Isopropylbenzene	9.756	105	4316620	100.43	ug/L		100
89) Cyclohexanone	9.823	55	2599915	2508.12	ug/L		94
90) trans-1,4-Dichloro-2-B...	10.061	53	230169	100.85	ug/L		95
92) 1,1,2,2-Tetrachloroethane	10.012	83	807754	96.05	ug/L		97
93) Bromobenzene	10.000	156	1135765	93.09	ug/L		99
94) 1,2,3-Trichloropropane	10.042	110	215252	96.25	ug/L		94
95) n-Propylbenzene	10.103	91	5016897	101.15	ug/L		99
96) 2-Chlorotoluene	10.170	91	3006883	98.69	ug/L		93

00517

Quantitation Report (QT Reviewed)

Sample : 100 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0516.D Vial: 9
Acq On : 21 Jul 2014 2:54 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:07:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:07:03 2014
Response via : Initial Calibration

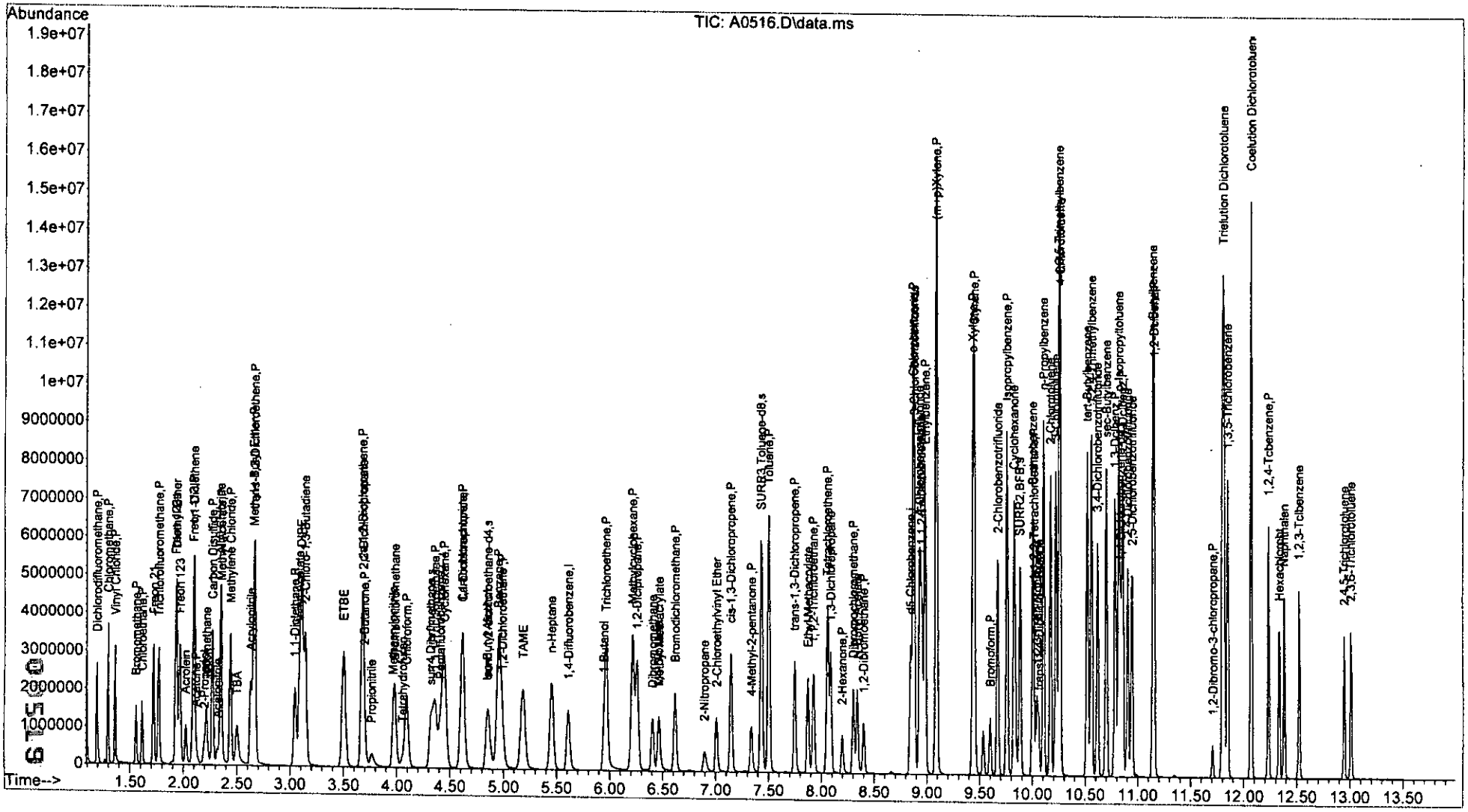
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	3-Chlorotoluene	10.219	91	3120274	101.07 ug/L	96
98)	4-Chlorotoluene	10.262	91	3557954	96.42 ug/L	91
99)	1,3,5-Trimethylbenzene	10.250	105	3627138	99.59 ug/L	97
100)	tert-Butylbenzene	10.518	119	3037197	100.39 ug/L	100
101)	1,2,4-Trimethylbenzene	10.560	105	3663264	99.48 ug/L	95
102)	3,4-Dichlorobenzotrifl...	10.615	214	1054354	96.58 ug/L	97
103)	sec-Butylbenzene	10.701	105	4281932	102.67 ug/L	97
104)	p-Isopropyltoluene	10.817	119	3789549	103.89 ug/L	97
105)	1,3-Dclbenz	10.780	146	2233047	98.97 ug/L	99
106)	1,4-Dclbenz	10.853	146	2236383	97.85 ug/L	98
107)	2,4-Dichlorobenzotrifl...	10.902	214	936160	95.64 ug/L	99
108)	2,5-Dichlorobenzotrifl...	10.945	214	1076850	95.69 ug/L	98
109)	n-Butylbenzene	11.140	91	3233837	102.59 ug/L	99
110)	1,2-Dclbenz	11.152	146	2040191	98.93 ug/L	99
111)	1,2-Dibromo-3-chloropr...	11.707	157	142822	110.42 ug/L	94
112)	Trielution Dichlorotol...	11.804	125	5413820	324.75 ug/L	95
113)	1,3,5-Trichlorobenzene	11.847	180	1443714	102.97 ug/L	97
114)	Coelution Dichlorotoluene	12.066	125	3746451	221.29 ug/L	96
115)	1,2,4-Tcbenzene	12.231	180	1180455	103.23 ug/L	97
116)	Hexachlorobt	12.335	225	467533	85.34 ug/L	98
117)	Naphthalen	12.377	128	2179772	124.42 ug/L	98
118)	1,2,3-Tclbenzene	12.517	180	888845	114.32 ug/L	98
119)	2,4,5-Trichlorotoluene	12.944	159	577481	135.28 ug/L	98
120)	2,3,6-Trichlorotoluene	13.005	159	543206	128.41 ug/L	96

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

Quantitation Report (QT Reviewed)

Sample : 100 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0516.D Vial: 9
Acq On : 21 Jul 2014 2:54 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:07:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:07:03 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:53:11 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : 150 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0517.D Vial: 10
Acq On : 21 Jul 2014 3:24 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:52 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration

FJ 7/22/14

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	1000347	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1449804	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1355583	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	763740	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	1127768	207.72	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 415.44%#				
48) surr1,1,2-dichloroetha...	4.854	65	1182408	218.47	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 436.94%#				
65) SURR3,Toluene-d8	7.427	98	4010198	190.82	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 381.64%#				
70) SURR2,BFB	9.878	95	1617321	195.46	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 390.92%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	1745672	186.58	ug/L		97
3) Chloromethane	1.294	50	2172696	187.42	ug/L		98
4) Vinyl Chloride	1.361	62	2014643	165.63	ug/L		98
5) Bromomethane	1.556	94	749393	170.62	ug/L		99
6) Chloroethane	1.611	64	980779	148.26	ug/L		96
7) Freon 21	1.721	67	2733469	155.14	ug/L		98
8) Trichlorofluoromethane	1.770	101	2273309	174.06	ug/L		99
9) Diethyl Ether	1.934	59	1137898	151.64	ug/L		81
10) Freon 123a	1.928	67	1730057	152.57	ug/L		96
11) Freon 123	1.965	83	1817198	150.49	ug/L		99
12) Acrolein	2.020	56	892129	767.98	ug/L		95
13) 1,1-Diclethene	2.099	96	1076195	161.45	ug/L	#	82
14) Freon 113	2.093	101	1339413	176.13	ug/L		99
15) Acetone	2.123	43	436269	193.40	ug/L		96
16) 2-Propanol	2.196	45	1425602	3650.48	ug/L		92
17) Iodomethane	2.215	142	1618465	231.84	ug/L		99
18) Carbon Disulfide	2.269	76	4362093	153.70	ug/L		100
19) Acetonitrile	2.318	40	267302	882.37	ug/L		94
20) Allyl Chloride	2.349	76	708296	146.85	ug/L	#	44
21) Methyl Acetate	2.355	43	900393	186.16	ug/L		89
22) Methylene Chloride	2.440	84	1320013	131.40	ug/L	#	78
23) TBA	2.501	59	1871165	3040.90	ug/L		84
24) Acrylonitrile	2.629	53	2120253	860.46	ug/L		97
25) Methyl-t-Butyl Ether	2.660	73	3157239	149.27	ug/L		90
26) trans-1,2-Dichloroethene	2.666	96	1363562	160.94	ug/L	#	83
28) 1,1-Diclethane	3.044	63	2825563	162.23	ug/L		98
29) Vinyl Acetate	3.086	86	188099	152.48	ug/L	#	39
30) DIPE	3.105	45	6531249	185.25	ug/L		96
31) 2-Chloro-1,3-Butadiene	3.141	53	2910350	173.68	ug/L		85
32) ETBE	3.501	59	4558222	152.01	ug/L		92
33) 2,2-Dichloropropane	3.684	77	2012651	157.76	ug/L		98
34) cis-1,2-Dichloroethene	3.678	96	1503050	156.49	ug/L	#	80
35) 2-Butanone	3.696	43	622044	202.27	ug/L		89
36) Propionitrile	3.763	54	751044	945.66	ug/L		94
37) Bromochloromethane	3.983	130	863926	153.32	ug/L	#	82

Quantitation Report (QT Reviewed)

Sample : 150 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0517.D Vial: 10
Acq On : 21 Jul 2014 3:24 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:52 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.964	67	368489	147.56	ug/L	#	46
39) Tetrahydrofuran	4.056	42	347147	189.68	ug/L		74
40) Chloroform	4.092	83	2423513	155.65	ug/L		93
41) 1,1,1-Trichloroethane	4.361	97	2126300	155.55	ug/L		97
42) TAME	5.184	73	3221737	142.87	ug/L		91
44) Cyclohexane	4.446	41	1951463	180.89	ug/L		89
46) Carbontetrachloride	4.617	121	617794	158.47	ug/L		89
47) 1,1-Dichloropropene	4.617	75	1777604	151.61	ug/L		99
49) Benzene	4.958	78	5562553	148.66	ug/L		92
50) 1,2-Dichloroethane	4.988	62	1867153	152.06	ug/L		93
51) Iso-Butyl Alcohol	4.854	43	1058766	3481.81	ug/L		97
52) n-Heptane	5.452	43	2210564	210.69	ug/L		81
53) 1-Butanol	5.946	56	1187594	8343.12	ug/L		91
54) Trichloroethene	5.964	130	1574175	156.63	ug/L		97
55) Methylcyclohexane	6.214	55	2151246	163.03	ug/L	#	80
56) 1,2-Diclpropane	6.257	63	1620374	151.33	ug/L		99
57) Dibromomethane	6.403	93	743108	151.67	ug/L		99
58) 1,4-Dioxane	6.458	88	187140	3559.88	ug/L		90
59) Methyl Methacrylate	6.464	69	650239	150.20	ug/L	#	61
60) Bromodichloromethane	6.616	83	1794305	152.54	ug/L		97
61) 2-Nitropropane	6.891	41	459531	274.41	ug/L		89
62) 2-Chloroethylvinyl Ether	7.006	63	771518	156.32	ug/L		92
63) cis-1,3-Dichloropropene	7.140	75	2107430	148.48	ug/L		98
64) 4-Methyl-2-pentanone	7.336	43	1268560	177.51	ug/L		94
66) Toluene	7.500	91	5820810	144.72	ug/L		99
67) trans-1,3-Dichloropropene	7.744	75	1741960	149.96	ug/L		96
68) Ethyl Methacrylate	7.872	69	1371387	151.82	ug/L	#	62
69) 1,1,2-Trichloroethane	7.921	97	1031454	147.86	ug/L		99
72) Tetrachloroethene	8.055	164	1229639	146.10	ug/L		96
73) 2-Hexanone	8.195	43	929552	175.32	ug/L		94
74) 1,3-Dichloropropane	8.085	76	1760875	140.56	ug/L	#	78
75) Dibromochloromethane	8.299	129	1407445	157.09	ug/L		99
76) N-Butyl Acetate	8.335	43	2199150	157.71	ug/L		92
77) 1,2-Dibromoethane	8.396	107	1048829	144.21	ug/L		95
78) 3-Chlorobenzotrifluoride	8.878	180	2372523	152.18	ug/L		96
79) Chlorobenzene	8.866	112	4055903	144.29	ug/L		98
80) 4-Chlorobenzotrifluoride	8.927	180	2184071	151.34	ug/L		98
81) 1,1,1,2-Tetrachloroethane	8.945	131	1539883	150.51	ug/L		98
82) Ethylbenzene	8.975	106	2132265	146.90	ug/L	#	88
83) (m+p)Xylene	9.085	106	5265837	296.28	ug/L	#	84
84) o-Xylene	9.433	106	2593956	144.54	ug/L		90
85) Styrene	9.445	104	4491313	148.17	ug/L		98
86) Bromoform	9.597	173	833083	155.28	ug/L		97
87) 2-Chlorobenzotrifluoride	9.670	180	2351812	152.36	ug/L		93
88) Isopropylbenzene	9.756	105	6470678	147.31	ug/L		97
89) Cyclohexanone	9.823	55	4162395	3929.19	ug/L		93
90) trans-1,4-Dichloro-2-B...	10.055	53	375916	161.18	ug/L		92
92) 1,1,2,2-Tetrachloroethane	10.012	83	1264392	143.92	ug/L		95
93) Bromobenzene	10.000	156	1734010	136.05	ug/L		98
94) 1,2,3-Trichloropropane	10.042	110	328638	140.67	ug/L		95
95) n-Propylbenzene	10.103	91	7430211	143.40	ug/L		95
96) 2-Chlorotoluene	10.170	91	4601794	144.58	ug/L		94

Quantitation Report (QT Reviewed)

Sample : 150 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0517.D Vial: 10
Acq On : 21 Jul 2014 3:24 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:52 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration

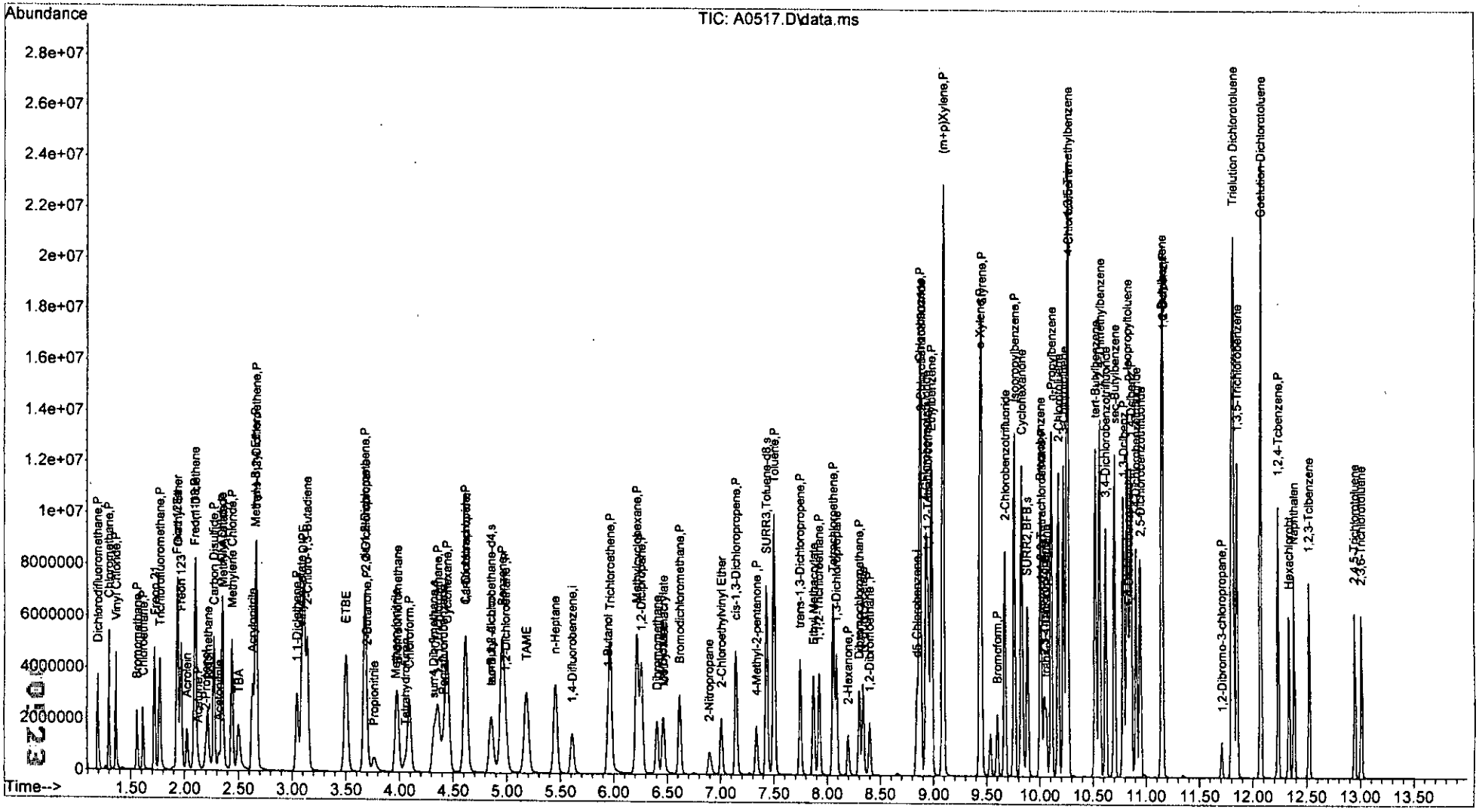
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.219	91	4828281	149.71	ug/L	96
98)	4-Chlorotoluene	10.262	91	5456530	141.54	ug/L	91
99)	1,3,5-Trimethylbenzene	10.256	105	5579327	146.64	ug/L	94
100)	tert-Butylbenzene	10.518	119	4716808	149.24	ug/L	99
101)	1,2,4-Trimethylbenzene	10.561	105	5632121	146.40	ug/L	94
102)	3,4-Dichlorobenzotrifl...	10.615	214	1695916	148.71	ug/L	96
103)	sec-Butylbenzene	10.701	105	6554663	150.44	ug/L	96
104)	p-Isopropyltoluene	10.817	119	5795450	152.09	ug/L	97
105)	1,3-Dclbenz	10.786	146	3489696	148.05	ug/L	97
106)	1,4-Dclbenz	10.853	146	3534225	148.02	ug/L	99
107)	2,4-Dichlorobenzotrifl...	10.902	214	1520576	148.71	ug/L	99
108)	2,5-Dichlorobenzotrifl...	10.945	214	1744734	148.41	ug/L	99
109)	n-Butylbenzene	11.140	91	5072249	154.03	ug/L	97
110)	1,2-Dclbenz	11.152	146	3232792	150.06	ug/L	100
111)	1,2-Dibromo-3-chloropr...	11.707	157	232875	172.34	ug/L	94
112)	Trielution Dichlorotol...	11.804	125	8560582	491.54	ug/L	96
113)	1,3,5-Trichlorobenzene	11.847	180	2334357	159.37	ug/L	96
114)	Coelution Dichlorotoluene	12.066	125	5802655	328.09	ug/L	99
115)	1,2,4-Tcbenzene	12.231	180	1902657	159.28	ug/L	97
116)	Hexachlorobt	12.335	225	762510	133.24	ug/L	98
117)	Naphthalen	12.377	128	3531985	192.98	ug/L	99
118)	1,2,3-Tclbenzene	12.517	180	1459914	179.73	ug/L	98
119)	2,4,5-Trichlorotoluene	12.944	159	984355	220.73	ug/L	96
120)	2,3,6-Trichlorotoluene	13.005	159	923964	209.07	ug/L	98

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

Quantitation Report (QT Reviewed)

Sample : 150 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0517.D Vial: 10
Acq On : 21 Jul 2014 3:24 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 15:37:52 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:53:26 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : 200 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0518.D Vial: 11
Acq On : 21 Jul 2014 3:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

FJ 7/22/14

Quant Time: Jul 21 16:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	1056657	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1542031	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1411689	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	775885	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	1438694	249.14	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 498.28%#				
48) surr1,1,2-dichloroetha...	4.854	65	1470598	255.46	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 510.92%#				
65) SURR3,Toluene-d8	7.433	98	5060528	226.40	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 452.80%#				
70) SURR2,BFB	9.878	95	1949995	221.57	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 443.14%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	2326323	235.39	ug/L		97
3) Chloromethane	1.294	50	2944213	240.44	ug/L		95
4) Vinyl Chloride	1.361	62	2724597	212.06	ug/L		99
5) Bromomethane	1.556	94	1094599	235.94	ug/L		100
6) Chloroethane	1.611	64	1323737	189.44	ug/L		96
7) Freon 21	1.721	67	3748282	201.40	ug/L		99
8) Trichlorofluoromethane	1.770	101	3071129	222.61	ug/L		99
9) Diethyl Ether	1.934	59	1539316	194.20	ug/L		81
10) Freon 123a	1.928	67	2372088	198.05	ug/L		95
11) Freon 123	1.965	83	2528356	198.23	ug/L		97
12) Acrolein	2.020	56	1224493	997.91	ug/L		96
13) 1,1-Diclethene	2.099	96	1440857	204.63	ug/L	#	85
14) Freon 113	2.093	101	1785623	222.29	ug/L		98
15) Acetone	2.123	43	583966	245.08	ug/L		96
16) 2-Propanol	2.196	45	1973379	4783.86	ug/L		94
17) Iodomethane	2.215	142	2240414	303.82	ug/L		99
18) Carbon Disulfide	2.270	76	5928370	197.76	ug/L		99
19) Acetonitrile	2.318	40	344806	1077.55	ug/L		96
20) Allyl Chloride	2.349	76	936059	183.73	ug/L	#	39
21) Methyl Acetate	2.355	43	1267543	248.10	ug/L		89
22) Methylene Chloride	2.440	84	1816683	171.21	ug/L	#	79
23) TBA	2.501	59	2618887	4029.25	ug/L		86
24) Acrylonitrile	2.629	53	2916963	1120.70	ug/L		96
25) Methyl-t-Butyl Ether	2.660	73	4384490	196.25	ug/L		90
26) trans-1,2-Dichloroethene	2.666	96	1858859	207.71	ug/L	#	83
28) 1,1-Diclethane	3.050	63	3897348	211.85	ug/L		99
29) Vinyl Acetate	3.086	86	264182	202.74	ug/L	#	52
30) DIPE	3.111	45	8883421	238.54	ug/L		90
31) 2-Chloro-1,3-Butadiene	3.141	53	4013826	226.77	ug/L		86
32) ETBE	3.501	59	6390766	201.77	ug/L		92
33) 2,2-Dichloropropane	3.678	77	2781992	206.44	ug/L		99
34) cis-1,2-Dichloroethene	3.678	96	2077959	204.82	ug/L	#	83
35) 2-Butanone	3.696	43	835984	257.35	ug/L		90
36) Propionitrile	3.763	54	1029573	1227.28	ug/L		93
37) Bromochloromethane	3.983	130	1197093	201.12	ug/L	#	84

00524

Quantitation Report (QT Reviewed)

Sample : 200 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0518.D Vial: 11
Acq On : 21 Jul 2014 3:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) Methacrylonitrile	3.970	67	522821	198.20 ug/L #	64
39) Tetrahydrofuran	4.056	42	482095	249.38 ug/L	77
40) Chloroform	4.092	83	3351600	203.79 ug/L	95
41) 1,1,1-Trichloroethane	4.361	97	2939998	203.61 ug/L	98
42) TAME	5.184	73	4535844	190.42 ug/L	92
44) Cyclohexane	4.446	41	2704168	235.67 ug/L	89
46) Carbontetrachloride	4.617	121	848608	204.65 ug/L	91
47) 1,1-Dichloropropene	4.617	75	2440084	195.67 ug/L	99
49) Benzene	4.958	78	7670644	192.73 ug/L	93
50) 1,2-Dichloroethane	4.989	62	2546669	195.00 ug/L	93
51) Iso-Butyl Alcohol	4.854	43	1489735	4606.07 ug/L	93
52) n-Heptane	5.452	43	2969236	266.07 ug/L	83
53) 1-Butanol	5.952	56	1762065	11638.54 ug/L	85
54) Trichloroethene	5.964	130	2175018	203.48 ug/L	97
55) Methylcyclohexane	6.214	55	2990525	213.08 ug/L #	81
56) 1,2-Diclpropane	6.257	63	2248319	197.42 ug/L	99
57) Dibromomethane	6.403	93	1033700	198.37 ug/L	97
58) 1,4-Dioxane	6.464	88	257788	4610.50 ug/L	87
59) Methyl Methacrylate	6.458	69	897094	194.83 ug/L #	61
60) Bromodichloromethane	6.616	83	2490675	199.07 ug/L	97
61) 2-Nitropropane	6.891	41	647409	363.48 ug/L	91
62) 2-Chloroethylvinyl Ether	7.006	63	1082107	206.13 ug/L	92
63) cis-1,3-Dichloropropene	7.147	75	2939297	194.71 ug/L	99
64) 4-Methyl-2-pentanone	7.336	43	1763669	232.03 ug/L	96
66) Toluene	7.500	91	7886383	184.35 ug/L	96
67) trans-1,3-Dichloropropene	7.744	75	2451320	198.40 ug/L	96
68) Ethyl Methacrylate	7.872	69	1911846	199.00 ug/L #	64
69) 1,1,2-Trichloroethane	7.927	97	1423574	191.86 ug/L	98
72) Tetrachloroethene	8.055	164	1676937	191.32 ug/L	95
73) 2-Hexanone	8.195	43	1264116	228.95 ug/L	94
74) 1,3-Dichloropropane	8.085	76	2399551	183.93 ug/L #	77
75) Dibromochloromethane	8.299	129	1960903	210.17 ug/L	99
76) N-Butyl Acetate	8.335	43	3003263	206.82 ug/L	92
77) 1,2-Dibromoethane	8.396	107	1437206	189.76 ug/L	96
78) 3-Chlorobenzotrifluoride	8.878	180	3226988	198.76 ug/L	95
79) Chlorobenzene	8.866	112	5461177	186.56 ug/L	99
80) 4-Chlorobenzotrifluoride	8.933	180	2962526	197.12 ug/L	99
81) 1,1,1,2-Tetrachloroethane	8.951	131	2110323	198.07 ug/L	98
82) Ethylbenzene	8.982	106	2886377	190.95 ug/L #	75
83) (m+p)Xylene	9.091	106	6860660	370.67 ug/L #	73
84) o-Xylene	9.433	106	3466224	185.46 ug/L #	86
85) Styrene	9.445	104	5922556	187.62 ug/L	97
86) Bromoform	9.597	173	1141834	204.38 ug/L	98
87) 2-Chlorobenzotrifluoride	9.671	180	3133633	194.94 ug/L	92
88) Isopropylbenzene	9.756	105	8335124	182.22 ug/L	96
89) Cyclohexanone	9.823	55	5364205	4862.41 ug/L	94
90) trans-1,4-Dichloro-2-B...	10.061	53	521497	214.71 ug/L	98
92) 1,1,2,2-Tetrachloroethane	10.012	83	1673056	187.45 ug/L	97
93) Bromobenzene	10.000	156	2347383	181.29 ug/L	99
94) 1,2,3-Trichloropropane	10.042	110	458212	193.06 ug/L	95
95) n-Propylbenzene	10.103	91	9306016	176.80 ug/L	91
96) 2-Chlorotoluene	10.170	91	6041163	186.84 ug/L	92

Quantitation Report (QT Reviewed)

Sample : 200 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0518.D Vial: 11
Acq On : 21 Jul 2014 3:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration

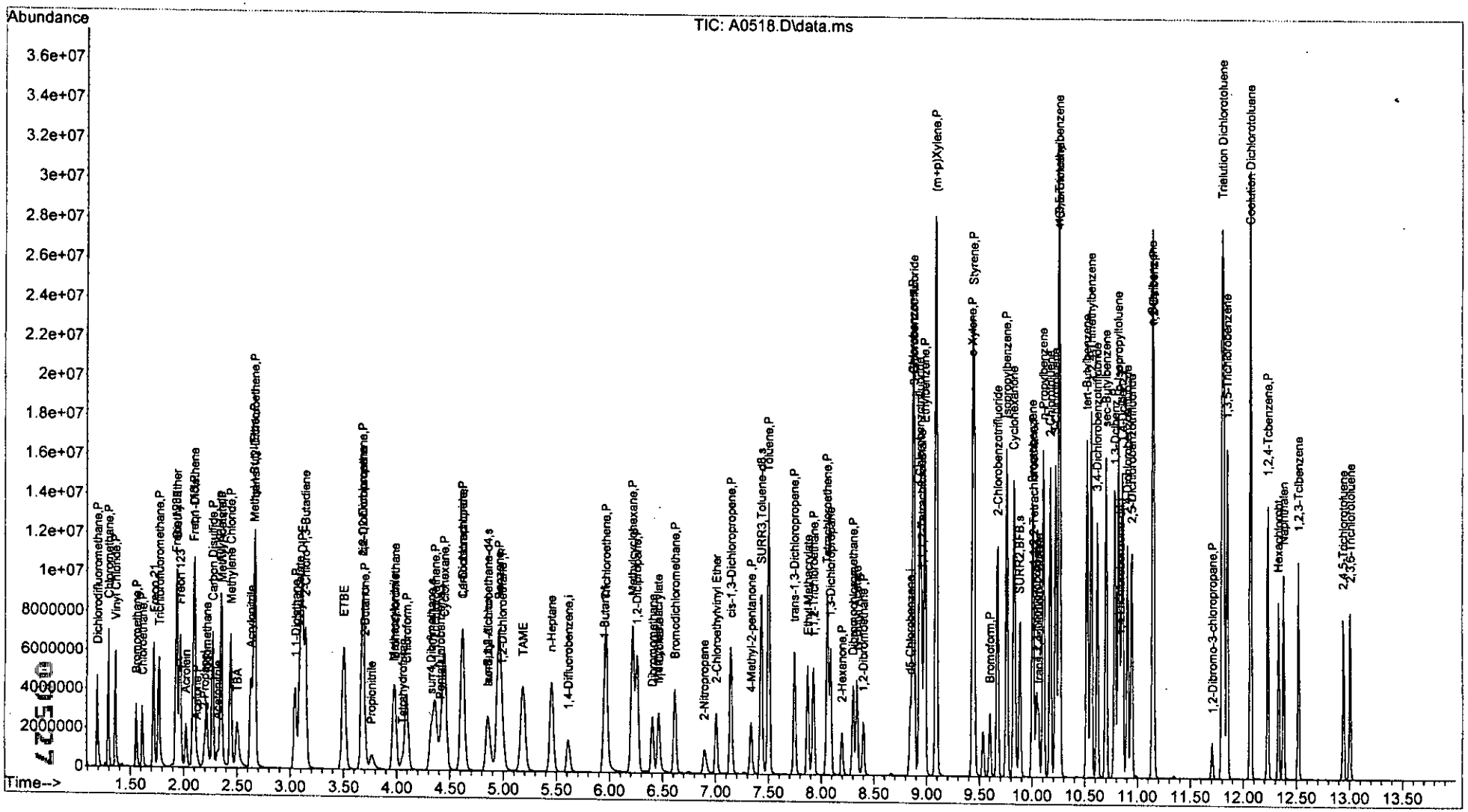
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.219	91	6382306	194.80	ug/L	93
98)	4-Chlorotoluene	10.262	91	7112352	181.61	ug/L	89
99)	1,3,5-Trimethylbenzene	10.256	105	7162726	185.31	ug/L	91
100)	tert-Butylbenzene	10.518	119	6173653	192.27	ug/L	97
101)	1,2,4-Trimethylbenzene	10.561	105	7328402	187.51	ug/L	90
102)	3,4-Dichlorobenzotrifl...	10.615	214	2283989	197.14	ug/L	98
103)	sec-Butylbenzene	10.701	105	8353213	188.72	ug/L	93
104)	p-Isopropyltoluene	10.817	119	7497962	193.69	ug/L	97
105)	1,3-Dclbenz	10.786	146	4659863	194.60	ug/L	97
106)	1,4-Dclbenz	10.853	146	4695934	193.59	ug/L	99
107)	2,4-Dichlorobenzotrifl...	10.902	214	2061581	198.46	ug/L	98
108)	2,5-Dichlorobenzotrifl...	10.945	214	2340594	195.98	ug/L	98
109)	n-Butylbenzene	11.140	91	6529795	195.19	ug/L	94
110)	1,2-Dclbenz	11.152	146	4252769	194.32	ug/L	99
111)	1,2-Dibromo-3-chloropr...	11.707	157	316618	230.65	ug/L	93
112)	Trielution Dichlorotol...	11.804	125	11057389	624.97	ug/L	95
113)	1,3,5-Trichlorobenzene	11.847	180	3106138	208.75	ug/L	96
114)	Coelution Dichlorotoluene	12.066	125	7462351	415.33	ug/L	96
115)	1,2,4-Tcbenzene	12.231	180	2516361	207.36	ug/L	95
116)	Hexachlorobt	12.329	225	1005257	172.90	ug/L	100
117)	Naphthalen	12.377	128	4613155	248.11	ug/L	99
118)	1,2,3-Tclbenzene	12.518	180	1938703	234.94	ug/L	97
119)	2,4,5-Trichlorotoluene	12.938	159	1326030	292.69	ug/L	94
120)	2,3,6-Trichlorotoluene	13.005	159	1270584	283.01	ug/L	99

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

Quantitation Report (QT Reviewed)

Sample : 200 PPB STD
Data File : I:\ACQUDATA\msvoa10\data\072114\A0518.D Vial: 11
Acq On : 21 Jul 2014 3:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 21 16:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Mon Jul 21 15:12:44 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 08:53:39 2014 MSVO10

Initial Calibration Verification Summary Report

Calibration ID: RC1400062 **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	RC1400062-10	T	Average RF	50	53.36	ppm	6.7	<=30
1,1,1-Trichloroethane (TCA)	RC1400062-10	T	Average RF	50	51.41	ppm	2.8	<=30
1,1,2,2-Tetrachloroethane	RC1400062-10	T	Average RF	50	52.00	ppm	4.0	<=30
1,1,2-Trichloroethane	RC1400062-10	T	Average RF	50	51.62	ppm	3.2	<=30
1,1,2-Trichlorotrifluoroethane	RC1400062-10	T	Average RF	50	49.58	ppm	-0.8	<=30
1,1-Dichloroethane (1,1-DCA)	RC1400062-10	T	Average RF	50	50.26	ppm	0.5	<=30
1,1-Dichloroethene (1,1-DCE)	RC1400062-10	T	Average RF	50	55.79	ppm	11.6	<=30
1,1-Dichloropropene	RC1400062-10	T	Average RF	50	53.16	ppm	6.3	<=30
1,2,3-Trichlorobenzene	RC1400062-10	T	Average RF	50	57.27	ppm	14.5	<=30
1,2,3-Trichloropropane	RC1400062-10	T	Average RF	50	51.15	ppm	2.3	<=30
1,2,4-Trichlorobenzene	RC1400062-10	T	Average RF	50	55.42	ppm	10.8	<=30
1,2,4-Trimethylbenzene	RC1400062-10	T	Average RF	50	53.74	ppm	7.5	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1400062-10	T	Average RF	50	59.40	ppm	18.8	<=30
1,2-Dibromoethane	RC1400062-10	T	Average RF	50	54.56	ppm	9.1	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1400062-10	T	Average RF	50	61.08	ppm	22.2	<=30
1,2-Dichlorobenzene	RC1400062-10	T	Average RF	50	51.83	ppm	3.7	<=30
1,2-Dichloroethane	RC1400062-10	T	Average RF	50	51.76	ppm	3.5	<=30
1,2-Dichloropropane	RC1400062-10	T	Average RF	50	52.65	ppm	5.3	<=30
1,3,5-Trichlorobenzene	RC1400062-10	T	Average RF	50	49.33	ppm	-1.3	<=30
1,3,5-Trimethylbenzene	RC1400062-10	T	Average RF	50	53.41	ppm	6.8	<=30
1,3-Dichlorobenzene	RC1400062-10	T	Average RF	50	52.75	ppm	5.5	<=30
1,3-Dichloropropane	RC1400062-10	T	Average RF	50	51.90	ppm	3.8	<=30
1,4-Dichlorobenzene	RC1400062-10	T	Average RF	50	52.13	ppm	4.3	<=30
1,4-Dioxane	RC1400062-10	T	Average RF	1000	963.0	ppm	-3.7	<=30
1-Butanol	RC1400062-10	T	Quadratic	2500	2629	ppm	5.2	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1400062-10	T	Average RF	50	49.49	ppm	-1.0	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1400062-10	T	Average RF	50	52.03	ppm	4.1	<=30
2,2-Dichloropropane	RC1400062-10	T	Average RF	50	54.34	ppm	8.7	<=30
2,3,6-Trichlorotoluene	RC1400062-10	T	Average RF	50	51.45	ppm	2.9	<=30
2,4,5-Trichlorotoluene	RC1400062-10	T	Average RF	50	55.00	ppm	10.0	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1400062-10	T	Average RF	150	155.9	ppm	3.9	<=30
2,4-Dichlorobenzotrifluoride	RC1400062-10	T	Average RF	50	49.90	ppm	-0.2	<=30
2,5-Dichlorobenzotrifluoride	RC1400062-10	T	Average RF	50	47.52	ppm	-5.0	<=30
2-Butanone (MEK)	RC1400062-10	T	Average RF	50	57.03	ppm	14.1	<=30
2-Chloro-1,3-butadiene	RC1400062-10	T	Average RF	50	47.42	ppm	-5.2	<=30
2-Chlorobenzotrifluoride	RC1400062-10	T	Average RF	50	49.41	ppm	-1.2	<=30
2-Chloroethyl Vinyl Ether	RC1400062-10	T	Average RF	50	43.55	ppm	-12.9	<=30
2-Chlorotoluene	RC1400062-10	T	Average RF	50	52.32	ppm	4.6	<=30
2-Hexanone	RC1400062-10	T	Average RF	50	57.49	ppm	15.0	<=30
2-Methyl-1-propanol	RC1400062-10	T	Average RF	1000	1064	ppm	6.4	<=30
2-Methyl-2-propanol	RC1400062-10	T	Average RF	1000	1132	ppm	13.2	<=30
2-Nitropropane	RC1400062-10	T	Average RF	100	105.2	ppm	5.2	<=30
2-Propanol	RC1400062-10	T	Average RF	1000	1138	ppm	13.8	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1400062-10	T	Average RF	100	104.3	ppm	4.3	<=30
3,4-Dichlorobenzotrifluoride	RC1400062-10	T	Average RF	50	49.79	ppm	-0.4	<=30
3-Chloro-1-propene	RC1400062-10	T	Average RF	50	52.82	ppm	5.6	<=30
3-Chlorobenzotrifluoride	RC1400062-10	T	Average RF	50	50.30	ppm	0.6	<=30
3-Chlorotoluene	RC1400062-10	T	Average RF	50	48.05	ppm	-3.9	<=30
4-Chlorotoluene	RC1400062-10	T	Average RF	50	52.47	ppm	4.9	<=30
4-Isopropyltoluene	RC1400062-10	T	Average RF	50	54.90	ppm	9.8	<=30
4-Methyl-2-pentanone	RC1400062-10	T	Average RF	50	51.88	ppm	3.8	<=30

Initial Calibration Verification Summary Report

Calibration ID: RC1400062 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1400062-10	T	Average RF	50	62.84	ppm	25.7	<=30
Acetonitrile	RC1400062-10	T	Average RF	250	286.5	ppm	14.6	<=30
Acrolein	RC1400062-10	T	Average RF	100	78.86	ppm	-21.1	<=30
Acrylonitrile	RC1400062-10	T	Average RF	250	266.6	ppm	6.6	<=30
Benzene	RC1400062-10	T	Average RF	50	51.62	ppm	3.2	<=30
Bromobenzene	RC1400062-10	T	Average RF	50	51.12	ppm	2.2	<=30
Bromochloromethane	RC1400062-10	T	Average RF	50	50.30	ppm	0.6	<=30
Bromodichloromethane	RC1400062-10	T	Average RF	50	52.29	ppm	4.6	<=30
Bromoform	RC1400062-10	T	Average RF	50	54.36	ppm	8.7	<=30
Bromomethane	RC1400062-10	T	Quadratic	50	58.00	ppm	16.0	<=30
Carbon Disulfide	RC1400062-10	T	Average RF	50	45.13	ppm	-9.7	<=30
Carbon Tetrachloride	RC1400062-10	T	Average RF	50	53.22	ppm	6.4	<=30
Chlorobenzene	RC1400062-10	T	Average RF	50	52.78	ppm	5.6	<=30
Chloroethane	RC1400062-10	T	Average RF	50	50.65	ppm	1.3	<=30
Chloroform	RC1400062-10	T	Average RF	50	49.62	ppm	-0.8	<=30
Chloromethane	RC1400062-10	T	Average RF	50	51.97	ppm	3.9	<=30
Cyclohexane	RC1400062-10	T	Average RF	50	48.93	ppm	-2.1	<=30
Cyclohexanone	RC1400062-10	T	Average RF	1000	798.6	ppm	-20.1	<=30
Dibromochloromethane	RC1400062-10	T	Average RF	50	55.32	ppm	10.6	<=30
Dibromomethane	RC1400062-10	T	Average RF	50	50.09	ppm	0.2	<=30
Dichlorodifluoromethane (CFC 12)	RC1400062-10	T	Average RF	50	54.51	ppm	9.0	<=30
Dichlorofluoromethane (CFC 21)	RC1400062-10	T	Average RF	50	44.90	ppm	-10.2	<=30
Dichloromethane	RC1400062-10	T	Average RF	50	51.22	ppm	2.4	<=30
Diethyl Ether	RC1400062-10	T	Average RF	50	52.01	ppm	4.0	<=30
Diisopropyl Ether	RC1400062-10	T	Average RF	50	43.90	ppm	-12.2	<=30
Ethyl Methacrylate	RC1400062-10	T	Average RF	50	58.15	ppm	16.3	<=30
Ethyl tert-Butyl Ether	RC1400062-10	T	Average RF	50	44.80	ppm	-10.4	<=30
Ethylbenzene	RC1400062-10	T	Average RF	50	49.48	ppm	-1.0	<=30
Hexachlorobutadiene	RC1400062-10	T	Average RF	50	51.68	ppm	3.4	<=30
Iodomethane	RC1400062-10	T	Quadratic	50	38.33	ppm	-23.3	<=30
Isopropylbenzene (Cumene)	RC1400062-10	T	Average RF	50	55.16	ppm	10.3	<=30
Methacrylonitrile	RC1400062-10	T	Average RF	50	60.10	ppm	20.2	<=30
Methyl Acetate	RC1400062-10	T	Average RF	50	53.57	ppm	7.1	<=30
Methyl Methacrylate	RC1400062-10	T	Average RF	50	59.67	ppm	19.3	<=30
Methyl tert-Butyl Ether	RC1400062-10	T	Average RF	50	55.65	ppm	11.3	<=30
Methylcyclohexane	RC1400062-10	T	Average RF	50	52.25	ppm	4.5	<=30
Naphthalene	RC1400062-10	T	Average RF	50	58.99	ppm	18.0	<=30
Propionitrile	RC1400062-10	T	Linear	250	271.2	ppm	8.5	<=30
Styrene	RC1400062-10	T	Average RF	50	56.40	ppm	12.8	<=30
Tetrachloroethene (PCE)	RC1400062-10	T	Average RF	50	51.96	ppm	3.9	<=30
Tetrahydrofuran (THF)	RC1400062-10	T	Average RF	50	55.43	ppm	10.9	<=30
Toluene	RC1400062-10	T	Average RF	50	51.68	ppm	3.4	<=30
Trichloroethene (TCE)	RC1400062-10	T	Average RF	50	51.46	ppm	2.9	<=30
Trichlorofluoromethane (CFC 11)	RC1400062-10	T	Average RF	50	49.56	ppm	-0.9	<=30
Vinyl Acetate	RC1400062-10	T	Average RF	50	53.90	ppm	7.8	<=30
Vinyl Chloride	RC1400062-10	T	Average RF	50	50.11	ppm	0.2	<=30
cis-1,2-Dichloroethene	RC1400062-10	T	Average RF	50	51.21	ppm	2.4	<=30
cis-1,3-Dichloropropene	RC1400062-10	T	Average RF	50	57.20	ppm	14.4	<=30
m,p-Xylenes	RC1400062-10	T	Average RF	100	108.1	ppm	8.1	<=30
n-Butyl Acetate	RC1400062-10	T	Average RF	50	60.99	ppm	22.0	<=30
n-Butylbenzene	RC1400062-10	T	Average RF	50	55.69	ppm	11.4	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1400062	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1400062-10	T	Average RF	50	52.06	ppm	4.1	<=30
n-Propylbenzene	RC1400062-10	T	Average RF	50	54.48	ppm	9.0	<=30
o-Xylene	RC1400062-10	T	Average RF	50	53.84	ppm	7.7	<=30
sec-Butylbenzene	RC1400062-10	T	Average RF	50	53.28	ppm	6.6	<=30
tert-Amyl Methyl Ether	RC1400062-10	T	Average RF	50	47.94	ppm	-4.1	<=30
tert-Butylbenzene	RC1400062-10	T	Average RF	50	53.79	ppm	7.6	<=30
trans-1,2-Dichloroethene	RC1400062-10	T	Average RF	50	50.71	ppm	1.4	<=30
trans-1,3-Dichloropropene	RC1400062-10	T	Average RF	50	59.10	ppm	18.2	<=30
trans-1,4-Dichloro-2-butene	RC1400062-10	T	Quadratic	50	54.49	ppm	9.0	<=30
1,2-Dichloroethane-d4	RC1400062-10	S	Average RF	50	50.26	ppm	0.5	<=30
4-Bromofluorobenzene	RC1400062-10	S	Average RF	50	51.65	ppm	3.3	<=30
Dibromofluoromethane	RC1400062-10	S	Average RF	50	50.70	ppm	1.4	<=30
Toluene-d8	RC1400062-10	S	Average RF	50	51.10	ppm	2.2	<=30

Quantitation Report (Not Reviewed)

Sample : 50 PPB ICV
Data File : I:\ACQUDATA\msvoa10\data\072114\A0521.D Vial: 14
Acq On : 21 Jul 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 22 13:19:45 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

FV 7/22/14

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	1019728	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1497671	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1350672	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	747880	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	484172	50.70	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.40%				
48) surr1,1,2-dichloroetha...	4.854	65	506535	50.26	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 100.52%				
65) SURR3,Toluene-d8	7.427	98	1718815	51.10	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.20%				
70) SURR2,BFB	9.878	95	683596	51.65	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	598254	54.51	ug/L		97
3) Chloromethane	1.294	50	760460	51.97	ug/L		100
4) Vinyl Chloride	1.361	62	669706	50.11	ug/L		97
5) Bromomethane	1.556	94	234295	58.00	ug/L		97
6) Chloroethane	1.611	64	343026	50.65	ug/L		92
7) Freon 21	1.721	67	844548	44.90	ug/L		98
8) Trichlorofluoromethane	1.770	101	750297	49.56	ug/L		98
9) Diethyl Ether	1.934	59	414709	52.01	ug/L	#	79
10) Freon 123a	1.928	67	723411	61.08	ug/L		93
11) Freon 123	1.965	83	655809	52.03	ug/L		98
12) Acrolein	2.026	56	98352	78.86	ug/L		94
13) 1,1-Diclethene	2.099	96	396468	55.79	ug/L	#	79
14) Freon 113	2.093	101	445223	49.58	ug/L		98
15) Acetone	2.123	43	195141	62.84	ug/L		96
16) 2-Propanol	2.196	45	499512	1137.68	ug/L		99
17) Iodomethane	2.215	142	293464	38.33	ug/L		99
18) Carbon Disulfide	2.270	76	1356772	45.13	ug/L		99
19) Acetonitrile	2.318	40	95361	286.50	ug/L		94
20) Allyl Chloride	2.349	76	235991	52.82	ug/L	#	33
21) Methyl Acetate	2.355	43	329987	53.57	ug/L		88
22) Methylene Chloride	2.440	84	477698	51.22	ug/L	#	77
23) TBA	2.501	59	598507	1132.32	ug/L		75
24) Acrylonitrile	2.629	53	760781	266.62	ug/L		97
25) Methyl-t-Butyl Ether	2.660	73	1133096	55.65	ug/L		92
26) trans-1,2-Dichloroethene	2.666	96	464705	50.71	ug/L	#	85
28) 1,1-Diclethane	3.044	63	973808	50.26	ug/L		96
29) Vinyl Acetate	3.086	86	61437	53.90	ug/L	#	37
30) DIPE	3.105	45	1952692	43.90	ug/L		88
31) 2-Chloro-1,3-Butadiene	3.141	53	903755	47.42	ug/L		85
32) ETBE	3.501	59	1336321	44.80	ug/L		91
33) 2,2-Dichloropropane	3.684	77	652245	54.34	ug/L		97
34) cis-1,2-Dichloroethene	3.678	96	513165	51.21	ug/L	#	72
35) 2-Butanone	3.696	43	233390	57.03	ug/L		89
36) Propionitrile	3.763	54	268024	271.21	ug/L		90
37) Bromochloromethane	3.983	130	309927	50.30	ug/L	#	80

00531

Sample : 50 PPB ICV
Data File : I:\ACQUDATA\msvoa10\data\072114\A0521.D Vial: 14
Acq On : 21 Jul 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 22 13:19:45 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.970	67	133092	60.10	ug/L	#	54
39) Tetrahydrofuran	4.056	42	125622	55.43	ug/L		71
40) Chloroform	4.092	83	837849	49.62	ug/L		93
41) 1,1,1-Trichloroethane	4.361	97	718139	51.41	ug/L		97
42) TAME	5.184	73	964917	47.94	ug/L		91
44) Cyclohexane	4.446	41	663488	48.93	ug/L		92
46) Carbontetrachloride	4.617	121	203037	53.22	ug/L		91
47) 1,1-Dichloropropene	4.617	75	622717	53.16	ug/L		97
49) Benzene	4.958	78	1889711	51.62	ug/L		92
50) 1,2-Dichloroethane	4.989	62	657410	51.76	ug/L		92
51) Iso-Butyl Alcohol	4.861	43	316611	1064.28	ug/L		99
52) n-Heptane	5.452	43	718722	52.06	ug/L	#	81
53) 1-Butanol	5.946	56	337543	2629.19	ug/L		86
54) Trichloroethene	5.964	130	525265	51.46	ug/L		95
55) Methylcyclohexane	6.214	55	735108	52.25	ug/L	#	79
56) 1,2-Diclpropane	6.257	63	561837	52.65	ug/L		99
57) Dibromomethane	6.403	93	257664	50.09	ug/L		98
58) 1,4-Dioxane	6.458	88	58472	962.98	ug/L		79
59) Methyl Methacrylate	6.464	69	226176	59.67	ug/L	#	58
60) Bromodichloromethane	6.616	83	610796	52.29	ug/L		98
61) 2-Nitropropane	6.891	41	154977	105.18	ug/L		91
62) 2-Chloroethylvinyl Ether	7.006	63	194305	43.55	ug/L		93
63) cis-1,3-Dichloropropene	7.141	75	705840	57.20	ug/L		96
64) 4-Methyl-2-pentanone	7.336	43	414023	51.88	ug/L		94
66) Toluene	7.500	91	1982495	51.68	ug/L		98
67) trans-1,3-Dichloropropene	7.744	75	577114	59.10	ug/L		96
68) Ethyl Methacrylate	7.872	69	462782	58.15	ug/L	#	65
69) 1,1,2-Trichloroethane	7.921	97	349365	51.62	ug/L		97
72) Tetrachloroethene	8.055	164	405857	51.96	ug/L		94
73) 2-Hexanone	8.195	43	328208	57.49	ug/L		88
74) 1,3-Dichloropropane	8.085	76	600646	51.90	ug/L	#	79
75) Dibromochloromethane	8.299	129	456297	55.32	ug/L		98
76) N-Butyl Acetate	8.335	43	774720	60.99	ug/L		93
77) 1,2-Dibromoethane	8.396	107	358035	54.56	ug/L		95
78) 3-Chlorobenzotrifluoride	8.878	180	721765	50.30	ug/L		99
79) Chlorobenzene	8.866	112	1374523	52.78	ug/L		96
80) 4-Chlorobenzotrifluoride	8.927	180	654021	49.49	ug/L		96
81) 1,1,1,2-Tetrachloroethane	8.945	131	486316	53.36	ug/L		100
82) Ethylbenzene	8.976	106	642108	49.48	ug/L		93
83) (m+p)Xylene	9.085	106	1730572	108.14	ug/L		98
84) o-Xylene	9.433	106	842492	53.84	ug/L		95
85) Styrene	9.445	104	1466039	56.40	ug/L		97
86) Bromoform	9.597	173	257594	54.36	ug/L		100
87) 2-Chlorobenzotrifluoride	9.671	180	702598	49.41	ug/L		95
88) Isopropylbenzene	9.756	105	2170611	55.16	ug/L		100
89) Cyclohexanone	9.823	55	992892	798.56	ug/L		95
90) trans-1,4-Dichloro-2-B...	10.055	53	111508	54.49	ug/L		84
92) 1,1,2,2-Tetrachloroethane	10.006	83	426726	52.00	ug/L		96
93) Bromobenzene	10.000	156	577121	51.12	ug/L		98
94) 1,2,3-Trichloropropane	10.042	110	117363	51.15	ug/L		98
95) n-Propylbenzene	10.103	91	2542428	54.48	ug/L		99
96) 2-Chlorotoluene	10.170	91	1506478	52.32	ug/L		95

00532

Quantitation Report (Not Reviewed)

Sample : 50 PPB ICV
Data File : I:\ACQUDATA\msvoa10\data\072114\A0521.D Vial: 14
Acq On : 21 Jul 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 22 13:19:45 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

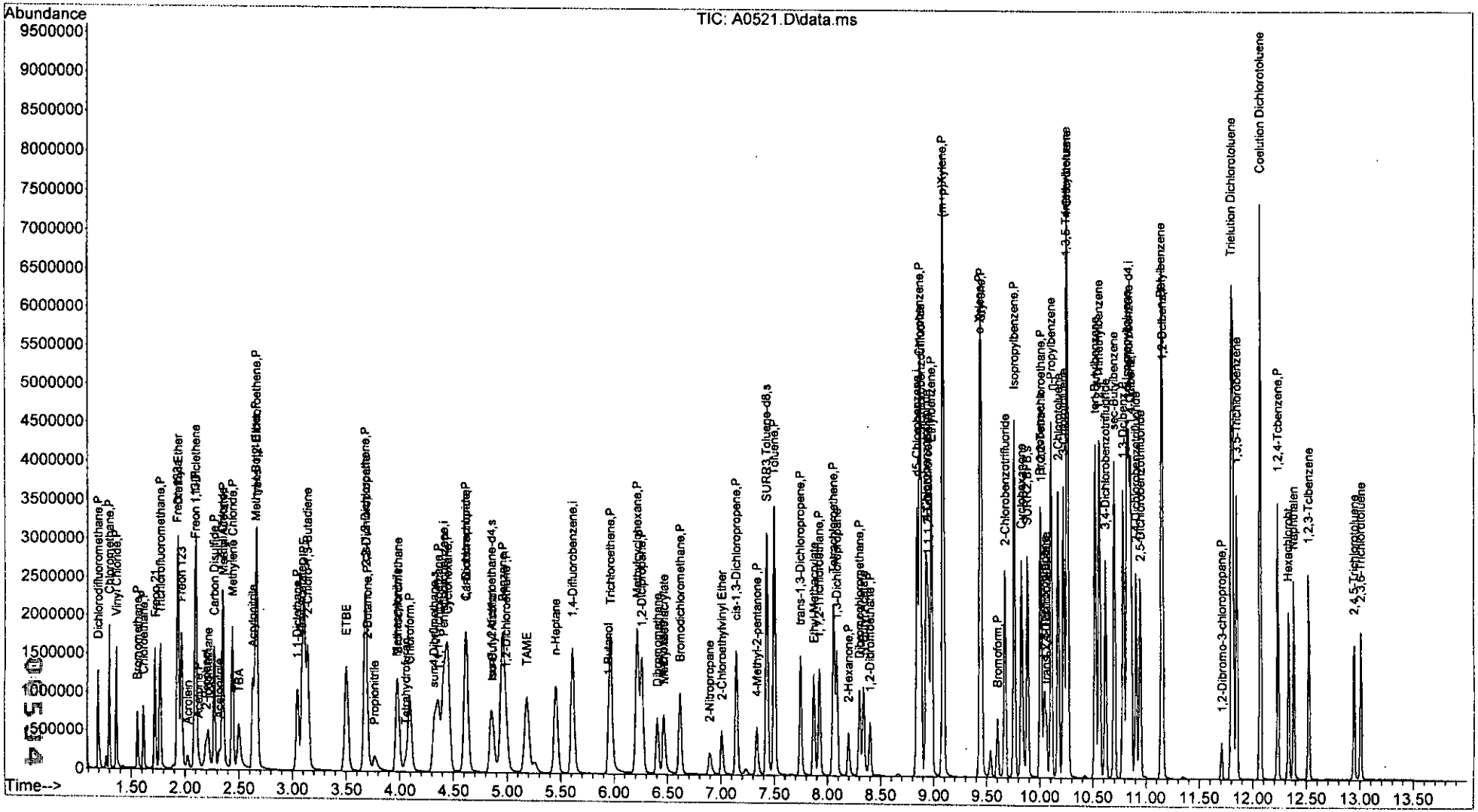
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.219	91	1470088	48.05	ug/L	97
98)	4-Chlorotoluene	10.256	91	1817579	52.47	ug/L	99
99)	1,3,5-Trimethylbenzene	10.250	105	1812475	53.41	ug/L	98
100)	tert-Butylbenzene	10.518	119	1530013	53.79	ug/L	99
101)	1,2,4-Trimethylbenzene	10.555	105	1843596	53.74	ug/L	99
102)	3,4-Dichlorobenzotrifl...	10.615	214	509773	49.79	ug/L	100
103)	sec-Butylbenzene	10.695	105	2124806	53.28	ug/L	99
104)	p-Isopropyltoluene	10.817	119	1899048	54.90	ug/L	97
105)	1,3-Dclbenz	10.780	146	1139413	52.75	ug/L	99
106)	1,4-Dclbenz	10.853	146	1166221	52.13	ug/L	98
107)	2,4-Dichlorobenzotrifl...	10.902	214	455217	49.90	ug/L	99
108)	2,5-Dichlorobenzotrifl...	10.945	214	517830	47.52	ug/L	97
109)	n-Butylbenzene	11.140	91	1632620	55.69	ug/L	99
110)	1,2-Dclbenz	11.152	146	1051907	51.83	ug/L	99
111)	1,2-Dibromo-3-chloropr...	11.707	157	74213	59.40	ug/L	94
112)	Trielution Dichlorotol...	11.798	125	2650784	155.89	ug/L	90
113)	1,3,5-Trichlorobenzene	11.847	180	715893	49.33	ug/L	97
114)	Coelution Dichlorotoluene	12.066	125	1838099	104.26	ug/L	96
115)	1,2,4-Tcbenzene	12.231	180	637184	55.42	ug/L	96
116)	Hexachlorobt	12.329	225	243231	51.68	ug/L	98
117)	Naphthalen	12.377	128	1165493	58.99	ug/L	98
118)	1,2,3-Tclbenzene	12.518	180	482655	57.27	ug/L	99
119)	2,4,5-Trichlorotoluene	12.944	159	289114	55.00	ug/L	98
120)	2,3,6-Trichlorotoluene	13.005	159	273712	51.45	ug/L	98

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

Quantitation Report (Not Reviewed)

Sample : 50 PPB ICV
Data File : I:\ACQUDATA\msvoa10\data\072114\A0521.D Vial: 14
Acq On : 21 Jul 2014 5:26 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Jul 22 13:19:45 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Tue Jul 22 13:19:42 2014 MSVO10

ALS Group USA, Corp. dba ALS Environmental

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/ 9/14

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\100914\A2763.D\

Calibration Date: 7/21/14
Calibration ID: RC1400062
Analysis Lot: 415420
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	55.9	0.3374	0.3772	11.8	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	52.2	0.6850	0.7156	4.5	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	53.0	0.5487	0.5811	5.9	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	50.6	0.2259	0.2288	1.3	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.7	0.9501	0.9443	-0.6	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	52.5	0.3485	0.3655	4.9	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	53.4	0.3911	0.4176	6.8	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	50.7	0.5634	0.5711	1.4	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	50.0	0.1534	0.1534	0.0	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	50.2	0.7687	0.7723	0.5	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	54.1	2.294	2.481	8.2	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	53.7	0.08353	0.08963	7.3	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	56.6	0.2429	0.2751	13.2	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	49.7	1.357	1.348	-0.7	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	54.0	0.4240	0.4578	8.0	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	51.5	0.3562	0.3672	3.1	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	52.9	2.269	2.398	5.7	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	51.5	1.444	1.487	3.0	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	55.4	0.4284	0.4749	10.9	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	49.8	1.496	1.489	-0.5	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	56.8	0.5885	0.6680	13.5	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	48.3	0.2007	0.1940	-3.3	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	54.6	1.925	2.103	9.3	NA	± 20 %	Average RF
2-Hexanone	50.0	54.1	0.2113	0.2288	8.3	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	972	0.02592	0.02520	-2.8	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	54.4	2.316	2.521	8.9	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	52.3	2.313	2.417	4.5	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	51.5	0.2664	0.2746	3.1	NA	± 20 %	Average RF
Acetone	50.0	45.5	0.1523	0.1384	-9.1	NA	± 20 %	Average RF
Benzene	50.0	51.2	1.222	1.251	2.4	NA	± 20 %	Average RF
Bromobenzene	50.0	54.2	0.7548	0.8178	8.3	NA	± 20 %	Average RF
Bromochloromethane	50.0	46.2	0.3021	0.2793	-7.5	NA	± 20 %	Average RF
Bromodichloromethane	50.0	55.6	0.3900	0.4336	11.2	NA	± 20 %	Average RF
Bromoform	50.0	58.5	0.1754	0.2052	17.0	NA	± 20 %	Average RF
Bromomethane	50.0	51.4	NA	NA	NA	2.7	± 20 %	Quadratic
Carbon Tetrachloride	50.0	55.6	0.1274	0.1417	11.3	NA	± 20 %	Average RF
Chlorobenzene	50.0	51.3	0.9640	0.9898	2.7	NA	± 20 %	Average RF
Chloroethane	50.0	50.0	0.3320	0.3319	0.0	NA	± 20 %	Average RF
Chloroform	50.0	51.0	0.8279	0.8447	2.0	NA	± 20 %	Average RF
Chloromethane	50.0	49.3	0.7175	0.7070	-1.5	NA	± 20 %	Average RF
Dibromochloromethane	50.0	58.1	0.3054	0.3545	16.1	NA	± 20 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/ 9/14

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\100914\A2763.D\

Calibration Date: 7/21/14
Calibration ID: RC1400062
Analysis Lot: 415420
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	50.8	0.5381	0.5469	1.6	NA	± 20 %	Average RF
Methylene Chloride	50.0	48.3	0.4573	0.4418	-3.4	NA	± 20 %	Average RF
Ethylbenzene	50.0	52.6	0.4804	0.5051	5.1	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	60.0	0.3147	0.3773	19.9	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	53.9	1.457	1.569	7.7	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	51.7	0.9984	1.032	3.4	NA	± 20 %	Average RF
Naphthalene	50.0	48.8	1.321	1.288	-2.5	NA	± 20 %	Average RF
Styrene	50.0	56.1	0.9623	1.080	12.2	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	53.7	0.2891	0.3107	7.5	NA	± 20 %	Average RF
Toluene	50.0	50.1	1.281	1.282	0.1	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	48.6	0.3407	0.3315	-2.7	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	57.6	0.7423	0.8550	15.2	NA	± 20 %	Average RF
Vinyl Chloride	50.0	46.2	0.6553	0.6049	-7.7	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	49.4	0.4913	0.4855	-1.2	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	58.1	0.4120	0.4787	16.2	NA	± 20 %	Average RF
m,p-Xylenes	100	106	0.5924	0.6272	5.9	NA	± 20 %	Average RF
n-Butylbenzene	50.0	55.0	1.960	2.155	9.9	NA	± 20 %	Average RF
n-Propylbenzene	50.0	55.2	3.120	3.445	10.4	NA	± 20 %	Average RF
o-Xylene	50.0	54.2	0.5792	0.6282	8.5	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	52.4	2.666	2.794	4.8	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	51.9	1.902	1.972	3.7	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	48.0	0.4493	0.4313	-4.0	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	59.6	0.3260	0.3888	19.2	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	49.2	0.4419	0.4351	-1.5	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	51.7	0.3188	0.3296	3.4	NA	± 20 %	Average RF
Toluene-d8	50.0	50.0	1.123	1.123	0.0	NA	± 20 %	Average RF

Sample
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:47:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

FN 10/14/14

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	105	0.00
2	P	Dichlorodifluoromethane	0.5381	0.5469	-1.6	100	0.00
3	P	Chloromethane	0.7175	0.7070	1.5	101	0.00
4	P	Vinyl Chloride	0.6553	0.6049	7.7	97	0.00
5	P	Bromomethane	0.1903	0.1997	-2.7 ~~-4.9~~	103	0.00
6	P	Chloroethane	0.3320	0.3319	0.0	105	0.00
7		Freon 21	0.9222	0.8354	9.4	93	0.00
8	P	Trichlorofluoromethane	0.7423	0.8550	-15.2	122	0.00
9		Diethyl Ether	0.3910	0.3721	4.8	104	0.00
10		Freon 123a	0.5807	0.5010	13.7	86	0.00
11		Freon 123	0.6180	0.5315	14.0	90	0.00
12		Acrolein	0.0612	0.0706	-15.4	122	0.00
13		1,1-Diclethene	0.3485	0.3655	-4.9	116	0.00
14	P	Freon 113	0.4403	0.4674	-6.2	116	0.00
15	P	Acetone	0.1523	0.1384	9.1	106	0.00
16		2-Propanol	0.0215	0.0175	18.6	82	0.00
17		Iodomethane	0.3548	0.3135	11.8 ~~-11.6~~	103	0.00
18	P	Carbon Disulfide	1.4741	1.4495	1.7	104	0.00
19		Acetonitrile	0.0163	0.0149	8.6	98	0.00
20		Allyl Chloride	0.2191	0.2357	-7.6	107	0.00
21	P	Methyl Acetate	0.3020	0.2827	6.4	92	0.00
22	P	Methylene Chloride	0.4573	0.4418	3.4	107	0.00
23		TBA	0.0259	0.0252	2.7	99	0.00
24		Acrylonitrile	0.1399	0.1419	-1.4	105	0.00
25	P	Methyl-t-Butyl Ether	0.9984	1.0322	-3.4	107	0.00
26	P	trans-1,2-Dichloroethene	0.4493	0.4313	4.0	103	0.00
27		Halothane	0.0000	0.0000	0.0	0#	-3.03#
28	P	1,1-Diclethane	0.9501	0.9443	0.6	106	0.00
29		Vinyl Acetate	0.0559	0.0585	-4.7	104	0.00
30		DIPE	2.1811	2.1607	0.9	99	0.00
31		2-Chloro-1,3-Butadiene	0.9344	0.9459	-1.2	103	0.00
32		ETBE	1.4626	1.4359	1.8	102	0.00
33		2,2-Dichloropropane	0.5885	0.6680	-13.5	117	0.00
34	P	cis-1,2-Dichloroethene	0.4913	0.4855	1.2	105	0.00
35	P	2-Butanone	0.2007	0.1940	3.3	93	0.00
36		Propionitrile	0.0412	0.0501	-3.5 ~~-21.6#~~	108	0.00
37		Bromochloromethane	0.3021	0.2793	7.5	101	0.00
38		Methacrylonitrile	0.1086	0.1182	-8.8	105	0.00
39		Tetrahydrofuran	0.1111	0.1089	2.0	100	0.00
40	P	Chloroform	0.8279	0.8447	-2.0	113	0.00
41	P	1,1,1-Trichloroethane	0.6850	0.7156	-4.5	112	0.00
42		TAME	0.9868	0.9841	0.3	100	0.00
43	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	101	0.00
44	P	Cyclohexane	0.4527	0.3955	12.6	85	0.00
45	s	surr4,Dibrflmethane	0.3188	0.3296	-3.4	102	0.00
46	P	Carbontetrachloride	0.1274	0.1417	-11.2	115	0.00
47		1,1-Dichloropropene	0.3911	0.4176	-6.8	110	0.00

W072114.M Thu Oct 09 10:48:03 2014 MSVO10

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:47:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
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)
48	s	surr1,1,2-dichloroethane-d4	0.3365	0.3591	-6.7	106	0.00
49	P	Benzene	1.2222	1.2510	-2.4	103	0.00
50	P	1,2-Dichloroethane	0.4240	0.4578	-8.0	110	0.00
51		Iso-Butyl Alcohol	0.0099	0.0095	4.0	93	0.00
52		n-Heptane	0.4609	0.5085	-10.3	106	0.00
53		1-Butanol	0.0040	0.0040	5.7 ~~0.0~~	91	0.00
54	P	Trichloroethene	0.3407	0.3315	2.7	100	0.00
55	P	Methylcyclohexane	0.4697	0.4181	11.0	85	0.00
56	P	1,2-Diclpropane	0.3562	0.3672	-3.1	104	0.00
57		Dibromomethane	0.1717	0.1694	1.3	103	0.00
58		1,4-Dioxane	0.0020	0.0017	15.0	85	0.00
59		Methyl Methacrylate	0.1265	0.1381	-9.2	104	0.00
60	P	Bromodichloromethane	0.3900	0.4336	-11.2	112	0.00
61		2-Nitropropane	0.0492	0.0538	-9.3	117	0.00
62		2-Chloroethylvinyl Ether	0.1490	0.1300	12.8	79	0.00
63	P	cis-1,3-Dichloropropene	0.4120	0.4787	-16.2	110	0.00
64	P	4-Methyl-2-pentanone	0.2664	0.2746	-3.1	98	0.00
65	s	SURR3,Toluene-d8	1.1229	1.1232	-0.0	97	0.00
66	P	Toluene	1.2807	1.2822	-0.1	102	0.00
67	P	trans-1,3-Dichloropropene	0.3260	0.3888	-19.3	112	0.00
68		Ethyl Methacrylate	0.2657	0.2831	-6.5	102	0.00
69	P	1,1,2-Trichloroethane	0.2259	0.2288	-1.3	103	0.00
70	s	SURR2,BFB	0.4419	0.4351	1.5	97	0.00
71	i	d5-Chlorobenzene	1.0000	1.0000	0.0	95	0.00
72	P	Tetrachloroethene	0.2891	0.3107	-7.5	103	0.00
73	P	2-Hexanone	0.2113	0.2288	-8.3	95	0.00
74		1,3-Dichloropropane	0.4284	0.4749	-10.9	105	0.00
75	P	Dibromochloromethane	0.3054	0.3545	-16.1	105	0.00
76		N-Butyl Acetate	0.4703	0.5205	-10.7	93	0.00
77	P	1,2-Dibromoethane	0.2429	0.2751	-13.3	104	0.00
78		3-Chlorobenzotrifluoride	~~0.5312~~	~~0.0000~~	~~-100.0#~~	~~0#~~	~~0.01~~
79	P	Chlorobenzene	0.9640	0.9898	-2.7	99	0.00
80		4-Chlorobenzotrifluoride	~~0.4892~~	~~0.0000~~	~~-100.0#~~	~~0#~~	~~0.00~~
81		1,1,1,2-Tetrachloroethane	0.3374	0.3772	-11.8	103	0.00
82	P	Ethylbenzene	0.4804	0.5051	-5.1	99	0.00
83	P	(m+p)Xylene	0.5924	0.6272	-5.9	98	0.00
84	P	o-Xylene	0.5792	0.6282	-8.5	98	0.00
85	P	Styrene	0.9623	1.0796	-12.2	100	0.00
86	P	Bromoform	0.1754	0.2052	-17.0	109	0.00
87		2-Chlorobenzotrifluoride	~~0.5264~~	~~0.0000~~	~~-100.0#~~	~~0#~~	~~0.00~~
88	P	Isopropylbenzene	1.4567	1.5692	-7.7	98	0.00
89		Cyclohexanone	0.0460	0.0447	2.8	84	0.00
90		trans-1,4-Dichloro-2-Butene	0.0721	0.0798	-5.7 ~~-10.7~~	93	0.00
91	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	92	0.00
92	P	1,1,2,2-Tetrachloroethane	0.5487	0.5811	-5.9	101	0.00
93		Bromobenzene	0.7548	0.8178	-8.3	102	0.00

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:47:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
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)
94		1,2,3-Trichloropropane	0.1534	0.1534	0.0	100	0.00
95		n-Propylbenzene	3.1202	3.4446	-10.4	97	0.00
96		2-Chlorotoluene	1.9252	2.1035	-9.3	100	0.00
97		3-Chlorotoluene	2.0456	0.0000	100.0#	0#	10.22#
98		4-Chlorotoluene	2.3159	2.5210	-8.9	102	0.00
99		1,3,5-Trimethylbenzene	2.2689	2.3984	-5.7	95	0.00
100		tert-Butylbenzene	1.9017	1.9720	-3.7	93	0.00
101		1,2,4-Trimethylbenzene	2.2937	2.4809	-8.2	96	0.00
102		3,4-Dichlorobenzotrifluorid	0.6845	0.0000	100.0#	0#	0.03
103		sec-Butylbenzene	2.6661	2.7943	-4.8	92	0.00
104		p-Isopropyltoluene	2.3128	2.4170	-4.5	91	0.00
105	P	1,3-Dclbenz	1.4440	1.4875	-3.0	94	0.00
106	P	1,4-Dclbenz	1.4958	1.4889	0.5	93	0.00
107		2,4-Dichlorobenzotrifluorid	0.6099	0.0000	100.0#	0#	0.09
108		2,5-Dichlorobenzotrifluorid	0.7285	0.0000	100.0#	0#	0.10
109		n-Butylbenzene	1.9600	2.1546	-9.9	94	0.00
110	P	1,2-Dclbenz	1.3568	1.3477	0.7	92	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0835	0.0896	-7.3	91	0.00
112		Trielution Dichlorotoluene	1.1368	0.0002	100.0#	0#	0.02
113		1,3,5-Trichlorobenzene	0.9702	0.0000	100.0#	0#	0.04
114		Coelution Dichlorotoluene	1.1787	0.0002	100.0#	0#	0.01
115	P	1,2,4-Tcbenzene	0.7687	0.7723	-0.5	90	0.00
116		Hexachlorobt	0.3147	0.3773	-19.9	109	0.00
117		Naphthalen	1.3209	1.2883	2.5	82	0.00
118		1,2,3-Tclbenzene	0.5634	0.5711	-1.4	88	0.00
119		2,4,5-Trichlorotoluene	0.3514	0.0000	100.0#	0#	0.02
120		2,3,6-Trichlorotoluene	0.3556	0.0002	99.9#	0#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Sample CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

RQ1412443-04

FJ 10/14/14

Quant Time: Oct 09 10:47:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	997959	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.604	114	1407449	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1202624	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	645434	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	463853	51.69	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.38%				
48) surr1,1,2-dichloroetha...	4.848	65	505372	53.36	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 106.72%				
65) SURR3,Toluene-d8	7.427	98	1580838	50.01	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.02%				
70) SURR2,BFB	9.878	95	612383	49.23	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.46%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	545831	50.82	ug/L		98
3) Chloromethane	1.294	50	705571	49.27	ug/L		99
4) Vinyl Chloride	1.361	62	603715	46.16	ug/L		99
5) Bromomethane	1.556	94	199321	51.35	ug/L		99
6) Chloroethane	1.611	64	331241	49.98	ug/L		94
7) Freon 21	1.715	67	833671	45.29	ug/L		98
8) Trichlorofluoromethane	1.764	101	853242	57.59	ug/L		99
9) Diethyl Ether	1.934	59	371313	47.58	ug/L		80
10) Freon 123a	1.928	67	499941	43.13	ug/L		97
11) Freon 123	1.965	83	530461	43.00	ug/L		97
12) Acrolein	2.020	56	352159	288.53	ug/L		95
13) 1,1-Diclethene	2.099	96	364801	52.45	ug/L	#	80
14) Freon 113	2.093	101	466443	53.08	ug/L		100
15) Acetone	2.117	43	138133	45.46	ug/L		90
16) 2-Propanol	2.196	45	348393	810.80	ug/L		98
17) Iodomethane	2.215	142	312848	41.11	ug/L		99
18) Carbon Disulfide	2.270	76	1446537	49.16	ug/L		99
19) Acetonitrile	2.318	40	74396	228.39	ug/L		91
20) Allyl Chloride	2.349	76	235193	53.79	ug/L	#	40
21) Methyl Acetate	2.355	43	282111	46.80	ug/L		85
22) Methylene Chloride	2.440	84	440920	48.30	ug/L	#	74
23) TBA	2.495	59	502989	972.37	ug/L		82
24) Acrylonitrile	2.629	53	707985	253.53	ug/L		100
25) Methyl-t-Butyl Ether	2.660	73	1030114	51.69	ug/L		91
26) trans-1,2-Dichloroethene	2.666	96	430422m	48.00	ug/L		
28) 1,1-Diclethane	3.044	63	942350	49.69	ug/L		98
29) Vinyl Acetate	3.086	86	58333	52.29	ug/L	#	1
30) DIPE	3.105	45	2156253	49.53	ug/L		95
31) 2-Chloro-1,3-Butadiene	3.141	53	943946	50.61	ug/L		81
32) ETBE	3.501	59	1432983	49.09	ug/L		92
33) 2,2-Dichloropropane	3.678	77	666633	56.75	ug/L		97
34) cis-1,2-Dichloroethene	3.678	96	484547m	49.41	ug/L		
35) 2-Butanone	3.696	43	193597	48.33	ug/L		92
36) Propionitrile	3.763	54	250115	258.70	ug/L		97
37) Bromochloromethane	3.977	130	278774	46.23	ug/L	#	69

W072114.M Thu Oct 09 10:47:55 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:47:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) Methacrylonitrile	3.964	67	117944	54.42 ug/L #	52
39) Tetrahydrofuran	4.056	42	108647	48.98 ug/L	73
40) Chloroform	4.086	83	842985	51.02 ug/L	96
41) 1,1,1-Trichloroethane	4.354	97	714148	52.24 ug/L	98
42) TAME	5.184	73	982068	49.86 ug/L	92
44) Cyclohexane	4.440	41	556684	43.68 ug/L	88
46) Carbontetrachloride	4.611	121	199466	55.63 ug/L	99
47) 1,1-Dichloropropene	4.617	75	587751	53.39 ug/L	97
49) Benzene	4.952	78	1760665	51.18 ug/L	89
50) 1,2-Dichloroethane	4.982	62	644365	53.98 ug/L	93
51) Iso-Butyl Alcohol	4.848	43	268133	959.10 ug/L	95
52) n-Heptane	5.452	43	715711	55.16 ug/L #	78
53) 1-Butanol	5.952	56	280342	2357.21 ug/L	83
54) Trichloroethene	5.964	130	466578	48.64 ug/L	97
55) Methylcyclohexane	6.214	55	588427	44.50 ug/L #	80
56) 1,2-Diclpropane	6.257	63	516793	51.54 ug/L	100
57) Dibromomethane	6.403	93	238405	49.31 ug/L	93
58) 1,4-Dioxane	6.464	88	46616m	816.93 ug/L	
59) Methyl Methacrylate	6.464	69	194394	54.58 ug/L #	60
60) Bromodichloromethane	6.610	83	610295	55.59 ug/L	100
61) 2-Nitropropane	6.891	41	151327	109.28 ug/L	86
62) 2-Chloroethylvinyl Ether	7.006	63	183012	43.65 ug/L	91
63) cis-1,3-Dichloropropene	7.141	75	673742	58.10 ug/L	97
64) 4-Methyl-2-pentanone	7.336	43	386487	51.53 ug/L	93
66) Toluene	7.500	91	1804608	50.06 ug/L	100
67) trans-1,3-Dichloropropene	7.744	75	547181	59.62 ug/L	99
68) Ethyl Methacrylate	7.866	69	398408	53.27 ug/L #	57
69) 1,1,2-Trichloroethane	7.921	97	321977	50.63 ug/L	98
72) Tetrachloroethene	8.055	164	373709	53.73 ug/L	99
73) 2-Hexanone	8.195	43	275134	54.13 ug/L	92
74) 1,3-Dichloropropane	8.085	76	571173	55.43 ug/L #	79
75) Dibromochloromethane	8.299	129	426353	58.05 ug/L	98
76) N-Butyl Acetate	8.335	43	625917	55.34 ug/L	92
77) 1,2-Dibromoethane	8.396	107	330782	56.61 ug/L	99
79) Chlorobenzene	8.866	112	1190406	51.34 ug/L	99
81) 1,1,1,2-Tetrachloroethane	8.945	131	453622	55.90 ug/L	96
82) Ethylbenzene	8.976	106	607427	52.57 ug/L	97
83) (m+p)Xylene	9.085	106	1508534	105.87 ug/L	96
84) o-Xylene	9.433	106	755541	54.23 ug/L	98
85) Styrene	9.445	104	1298407	56.10 ug/L	98
86) Bromoform	9.597	173	246729	58.48 ug/L	100
88) Isopropylbenzene	9.756	105	1887105	53.86 ug/L	97
89) Cyclohexanone	9.823	55	1076039	971.97 ug/L	97
90) trans-1,4-Dichloro-2-B...	10.055	53	95977	52.85 ug/L	82
92) 1,1,2,2-Tetrachloroethane	10.006	83	375080	52.96 ug/L	97
93) Bromobenzene	10.000	156	527841	54.17 ug/L	96
94) 1,2,3-Trichloropropane	10.042	110	98990	49.99 ug/L	98
95) n-Propylbenzene	10.103	91	2223263	55.20 ug/L	99
96) 2-Chlorotoluene	10.164	91	1357659	54.63 ug/L	98
98) 4-Chlorotoluene	10.256	91	1627131	54.43 ug/L	98
99) 1,3,5-Trimethylbenzene	10.250	105	1547989	52.85 ug/L	99
100) tert-Butylbenzene	10.518	119	1272802	51.85 ug/L	100

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:47:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

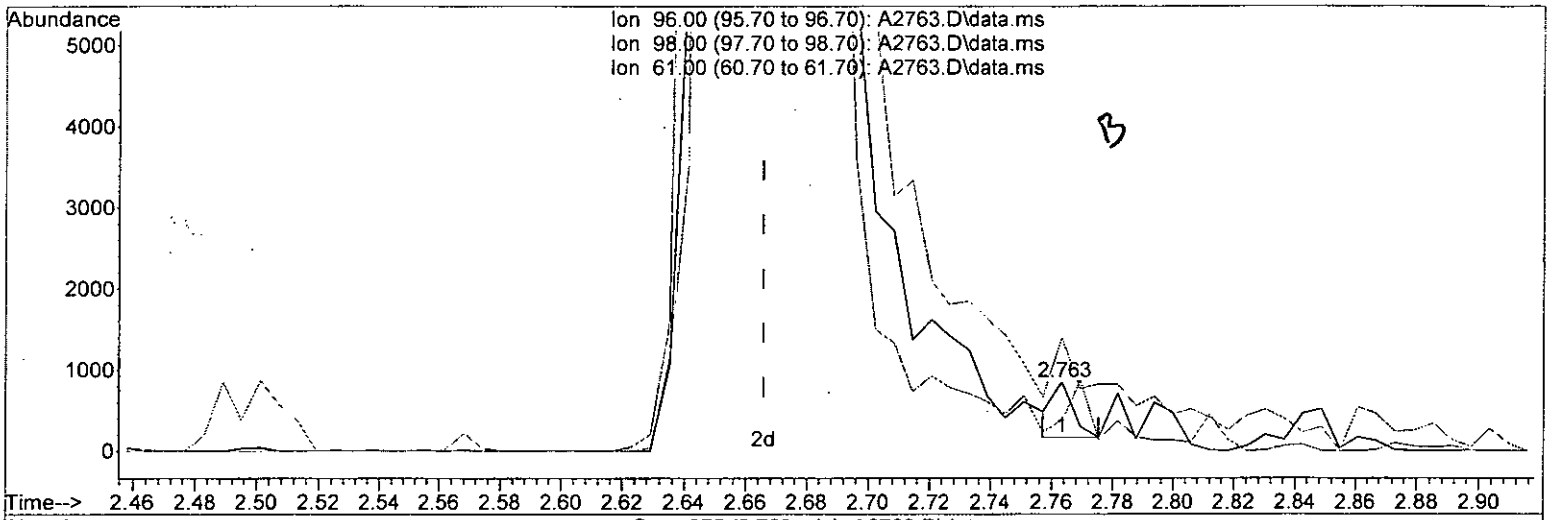
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	10.555	105	1601289	54.08	ug/L	100
103) sec-Butylbenzene	10.695	105	1803537	52.40	ug/L	98
104) p-Isopropyltoluene	10.817	119	1560008	52.25	ug/L	99
105) 1,3-Dclbenz	10.780	146	960051	51.50	ug/L	98
106) 1,4-Dclbenz	10.853	146	960981	49.77	ug/L	99
109) n-Butylbenzene	11.140	91	1390664	54.96	ug/L	100
110) 1,2-Dclbenz	11.152	146	869867	49.67	ug/L	100
111) 1,2-Dibromo-3-chloropr...	11.707	157	57849	53.65	ug/L	93
115) 1,2,4-Tcbenzene	12.225	180	498440	50.23	ug/L	95
116) Hexachlorobt	12.322	225	243540	59.96	ug/L	96
117) Naphthalen	12.371	128	831529	48.77	ug/L	100
118) 1,2,3-Tclbenzene	12.511	180	368632	50.69	ug/L	96

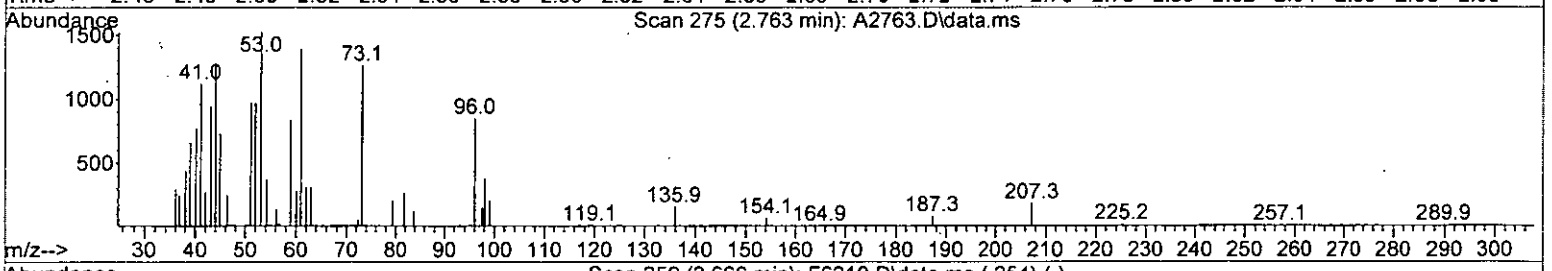
(#) = qualifier out of range (m) = manual integration (+) = signals summed

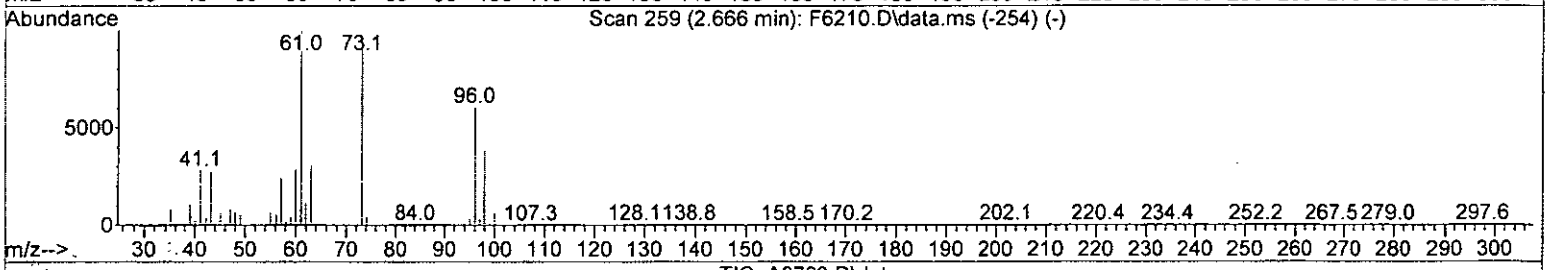
Quantitation Report (Qedit)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:44:03 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2763.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.763min (+0.098) 0.03 ug/L

response 299

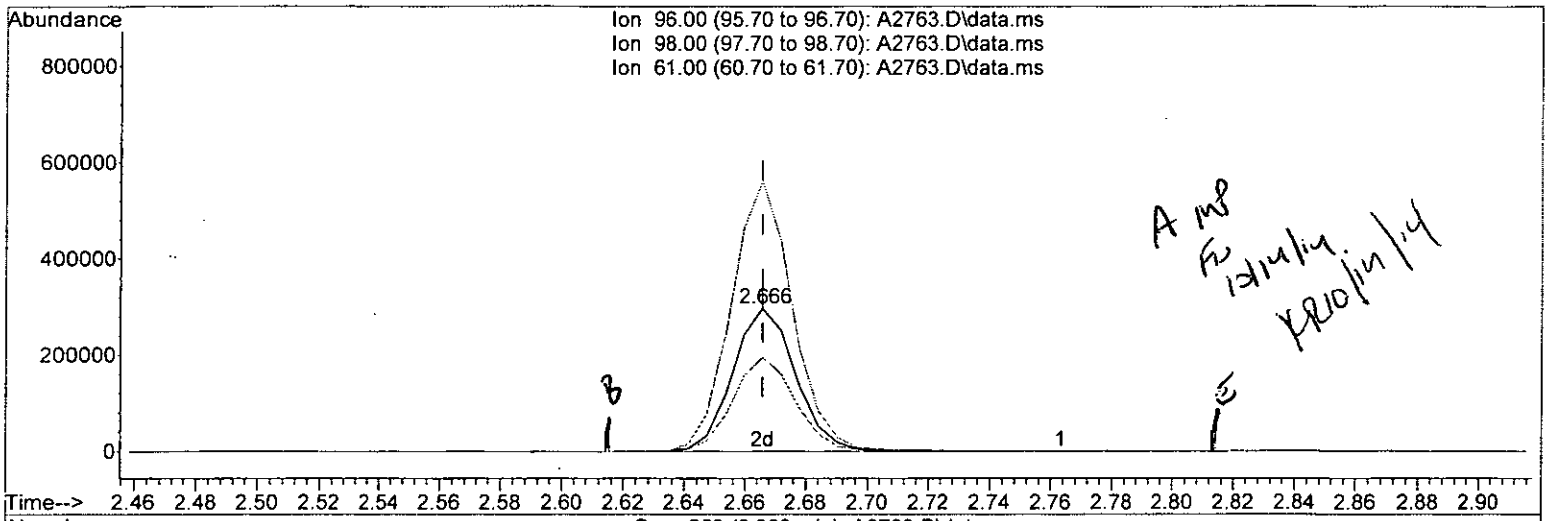
Ion	Exp%	Act%
96.00	100	100
98.00	64.00	44.04
61.00	144.30	163.75
0.00	0.00	0.00

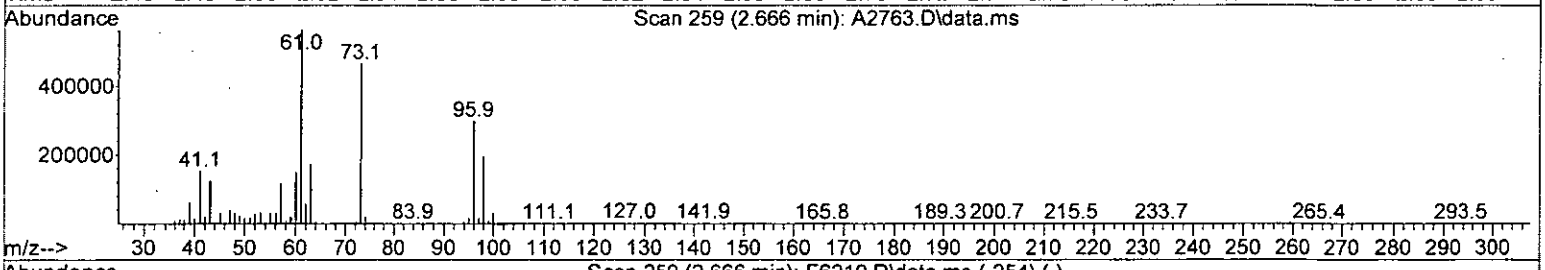
W072114.M Thu Oct 09 10:46:17 2014 MSVO10 Page: 1

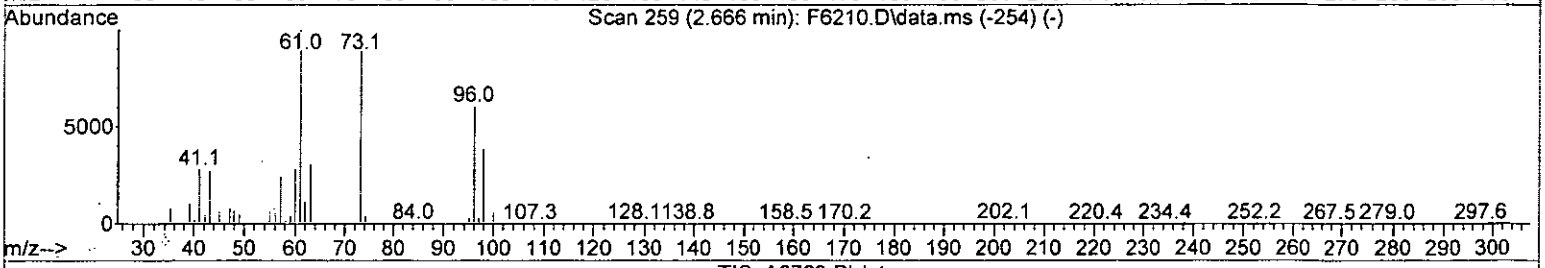
Quantitation Report (Qedit)

Sample CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:44:03 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2763.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.666min (-0.000) 48.00 ug/L m

response 430422

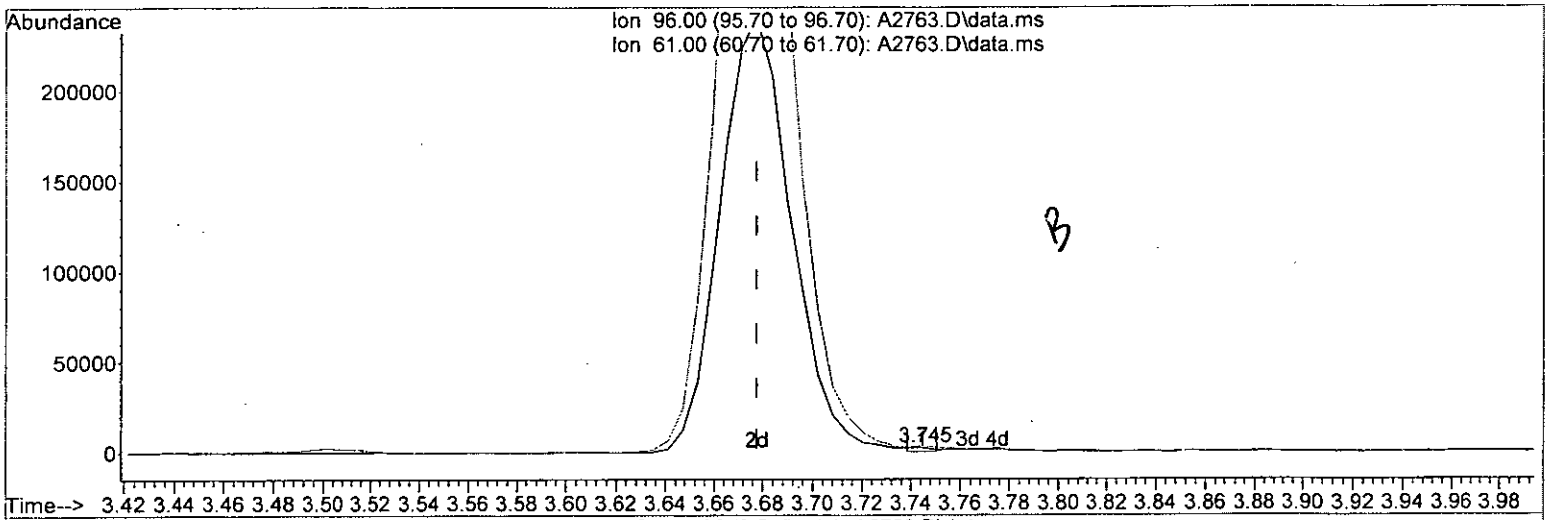
Ion	Exp%	Act%
96.00	100	100
98.00	64.00	65.63
61.00	144.30	189.56#
0.00	0.00	0.00

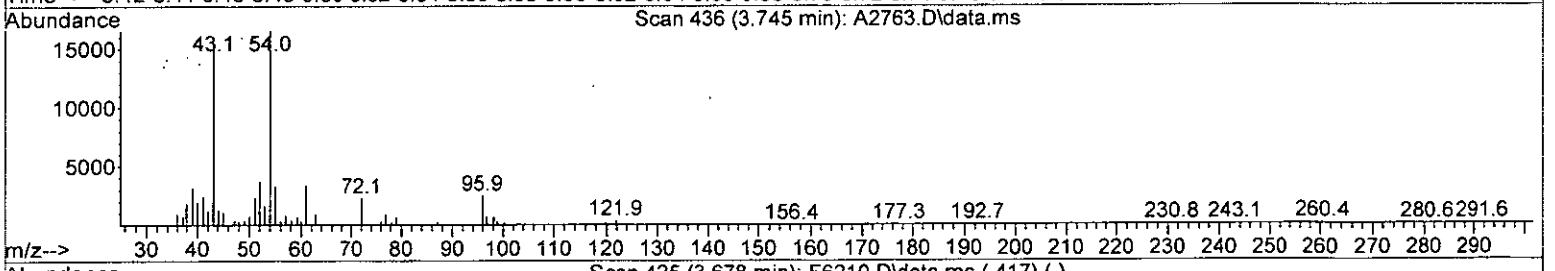
W072114.M Thu Oct 09 10:46:28 2014 MSVO10 Page: 1

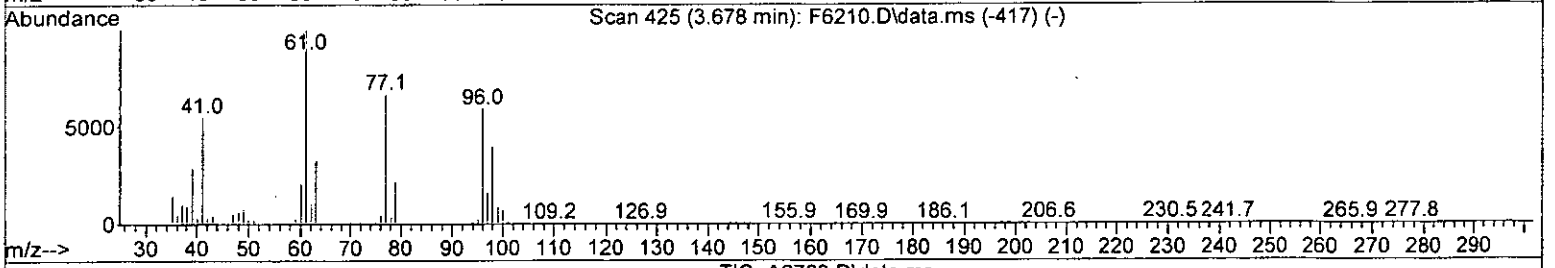
Quantitation Report (Qedit)

Sample CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:44:03 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2763.D\data.ms

(34) cis-1,2-Dichloroethene (P)

3.745min (+0.067) 0.11 ug/L

response 1113

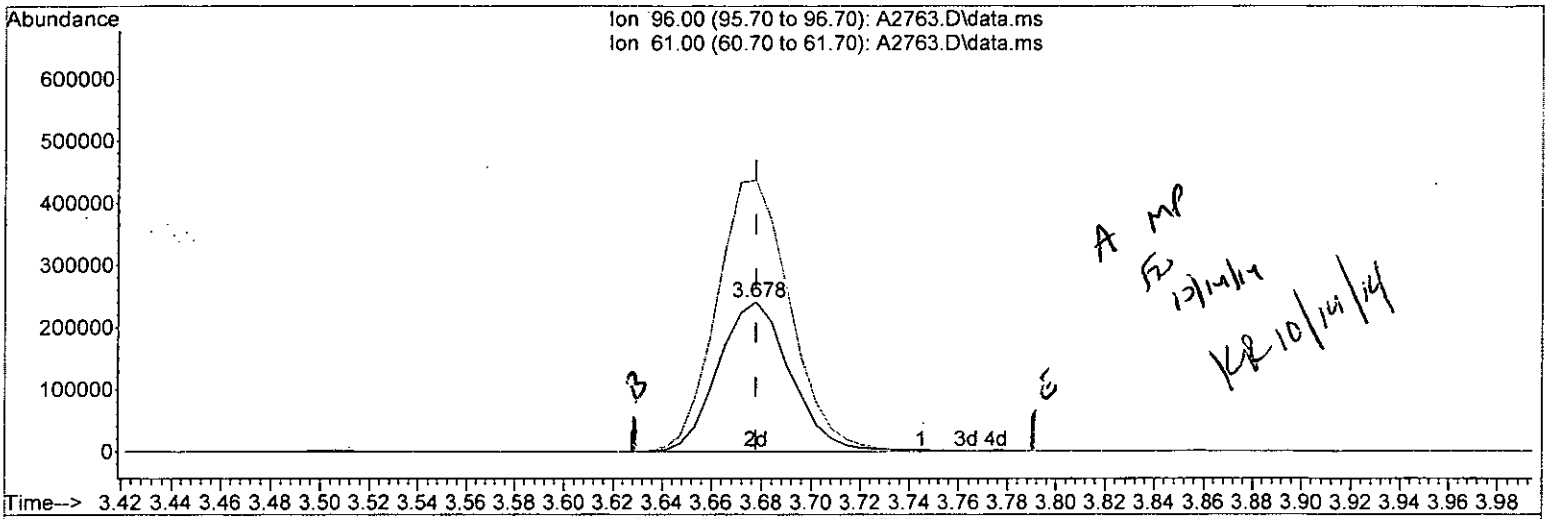
Ion	Exp%	Act%
96.00	100	100
61.00	148.30	134.30
0.00	0.00	0.00
0.00	0.00	0.00

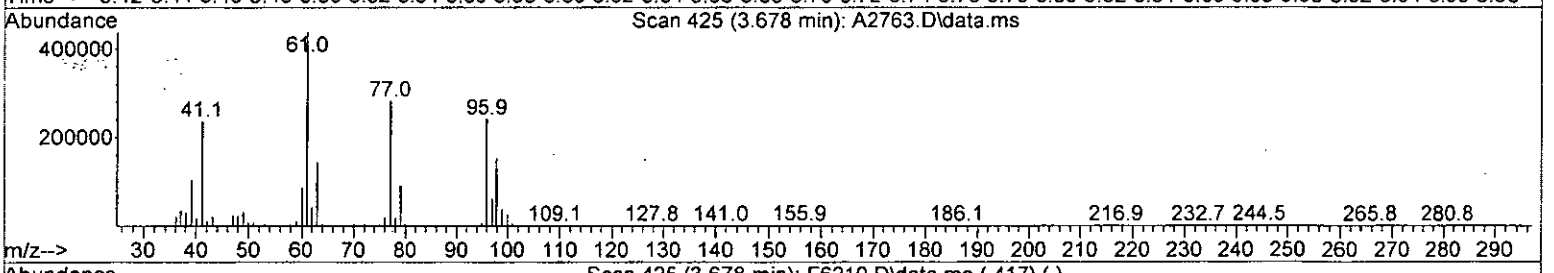
W072114.M Thu Oct 09 10:46:38 2014 MSVO10 Page: 1

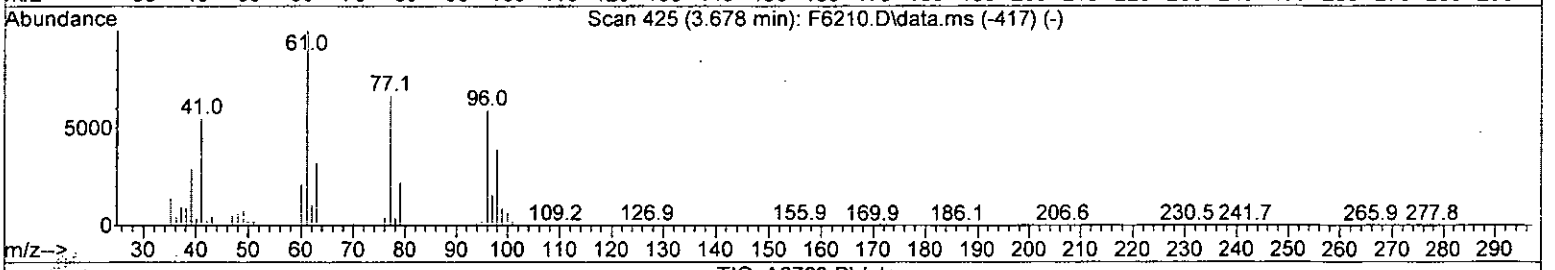
Quantitation Report (Qedit)

Sample CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:44:03 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2763.D\data.ms

(34) cis-1,2-Dichloroethene (P)

3.678min (-0.000) 49.41 ug/L m

response 484547

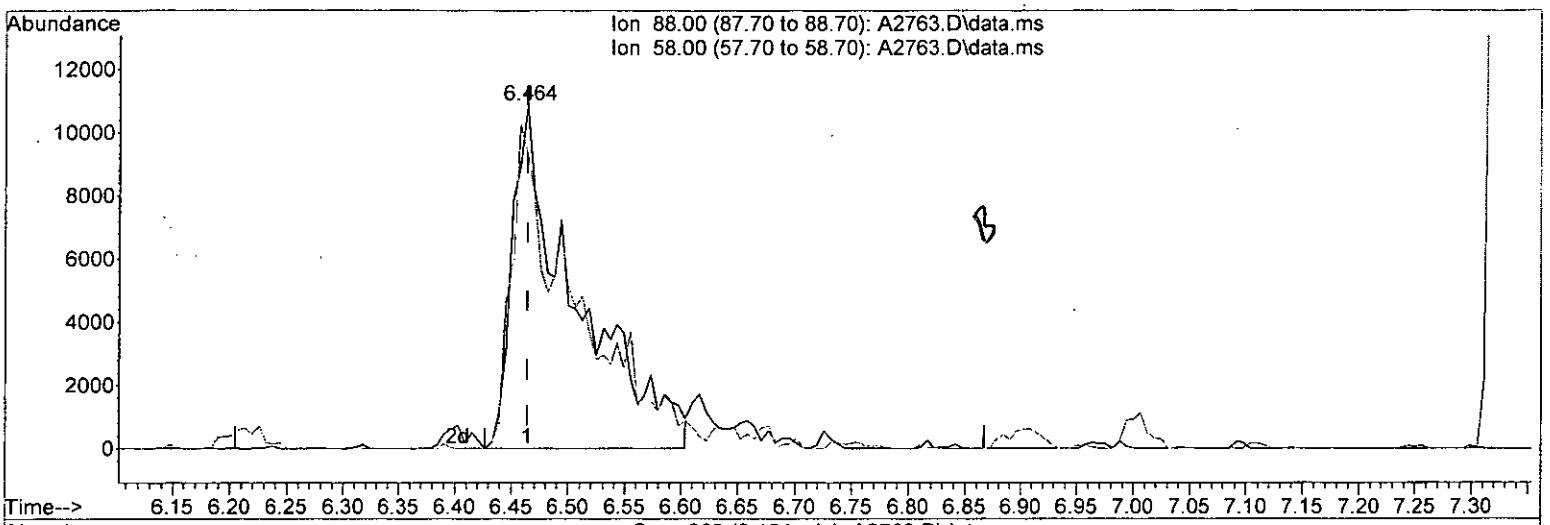
Ion	Exp%	Act%
96.00	100	100
61.00	148.30	181.56#
0.00	0.00	0.00
0.00	0.00	0.00

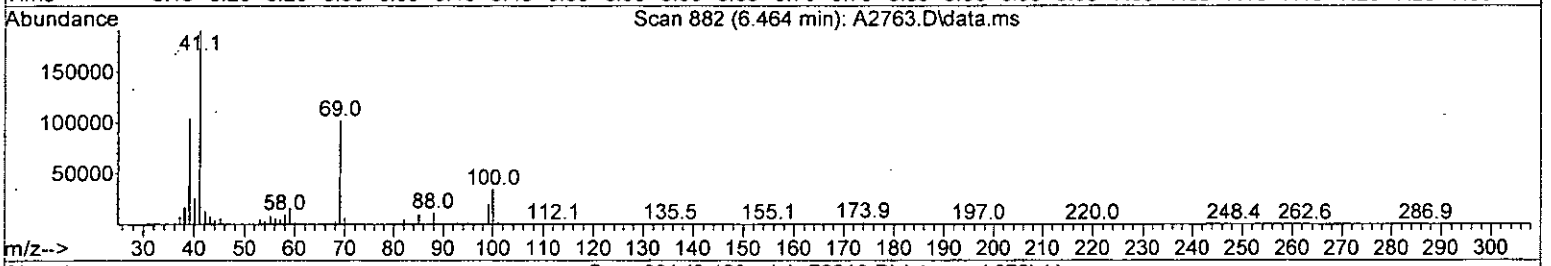
W072114.M Thu Oct 09 10:46:57 2014 MSVO10 Page: 1

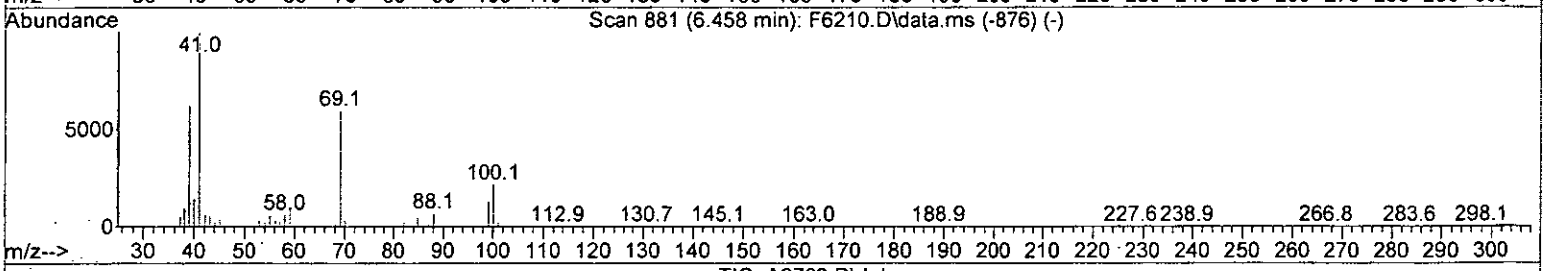
Quantitation Report (Qedit)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:44:03 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2763.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 737.99 ug/L

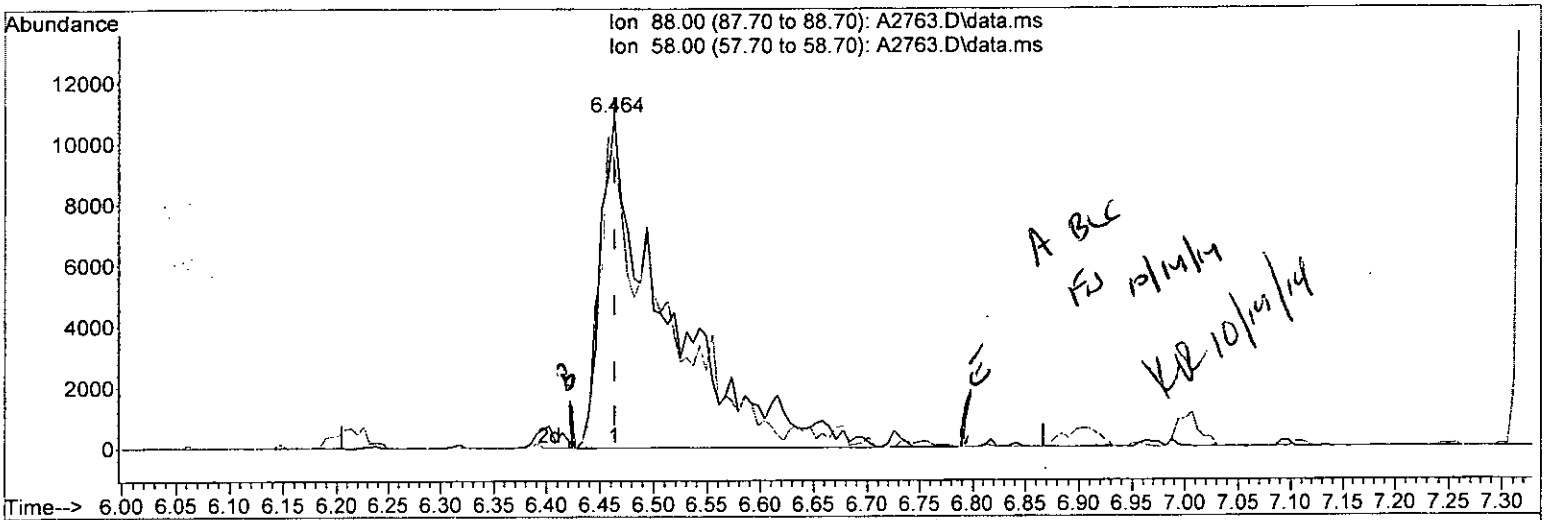
response 42111

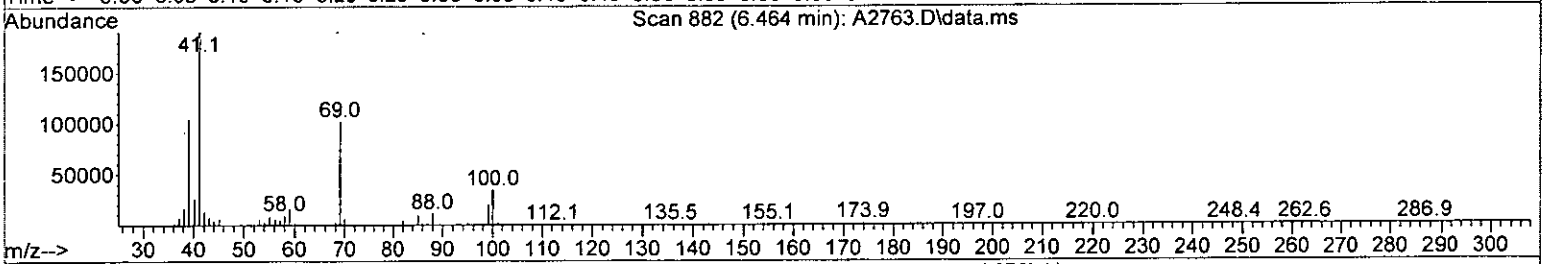
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	85.85
0.00	0.00	0.00
0.00	0.00	0.00

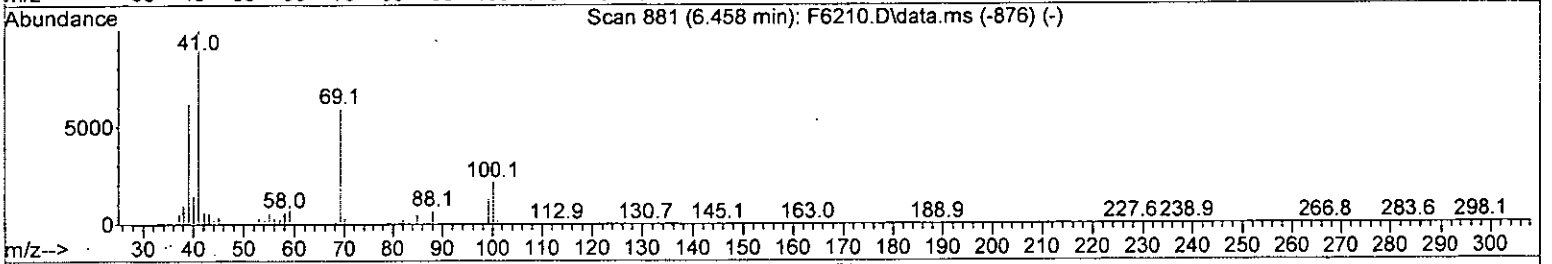
Quantitation Report (Qedit)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:44:03 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2763.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 816.93 ug/L m

response 46616

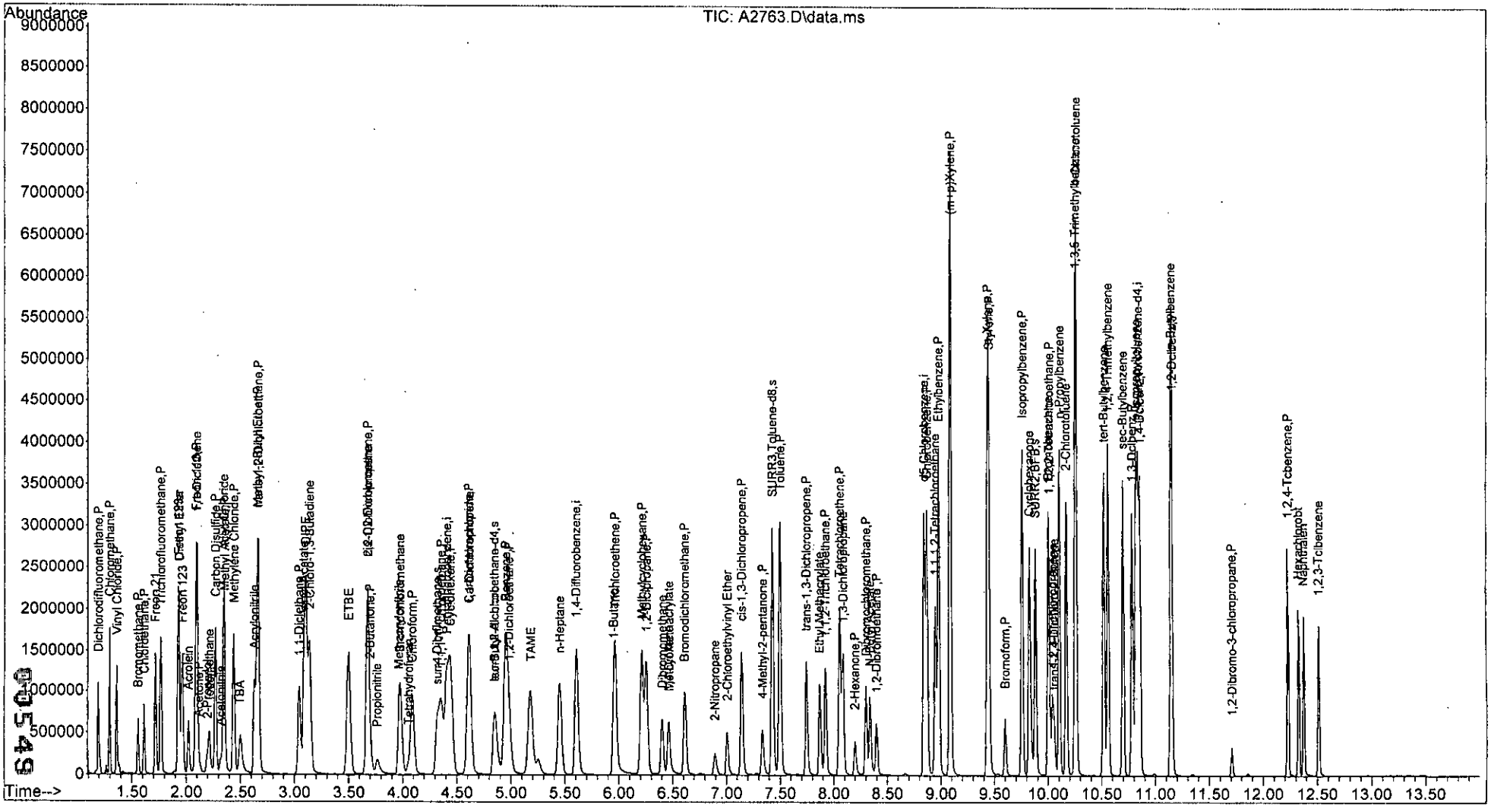
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	85.85
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Thu Oct 09 10:47:23 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\100914\A2763.D Vial: 2
Acq On : 9 Oct 2014 10:31 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 10:47:37 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Thu Oct 09 10:47:58 2014 MSVO10

ALS Group USA, Corp. dba ALS Environmental

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/14/14

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA10\DATA\101414\A2939.D\

Calibration Date: 7/21/14
Calibration ID: RC1400062
Analysis Lot: 416090
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	48.8	0.3374	0.3291	-2.5	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	49.0	0.6850	0.6711	-2.0	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	50.7	0.5487	0.5567	1.5	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	50.8	0.2259	0.2297	1.7	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	48.1	0.9501	0.9148	-3.7	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	46.8	0.3485	0.3261	-6.4	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	48.6	0.3911	0.3798	-2.9	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	49.3	0.5634	0.5558	-1.4	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	48.5	0.1534	0.1487	-3.1	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	47.1	0.7687	0.7235	-5.9	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	46.4	2.294	2.129	-7.2	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	50.7	0.08353	0.08473	1.4	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	52.9	0.2429	0.2571	5.8	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	45.0	1.357	1.220	-10.1	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	54.5	0.4240	0.4623	9.0	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	50.4	0.3562	0.3587	0.7	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	44.7	2.269	2.027	-10.7	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	44.1	1.444	1.274	-11.8	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	52.1	0.4284	0.4464	4.2	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	44.2	1.496	1.321	-11.7	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	52.8	0.5885	0.6218	5.7	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	56.0	0.2007	0.2248	12.0	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	46.9	1.925	1.807	-6.1	NA	± 20 %	Average RF
2-Hexanone	50.0	55.2	0.2113	0.2331	10.3	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	1130	0.02592	0.02939	13.4	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	46.4	2.316	2.150	-7.2	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	43.0	2.313	1.991	-13.9	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	59.0	0.2664	0.3144	18.0	NA	± 20 %	Average RF
Acetone	50.0	54.9	0.1523	0.1670	9.7	NA	± 20 %	Average RF
Benzene	50.0	48.3	1.222	1.181	-3.4	NA	± 20 %	Average RF
Bromobenzene	50.0	47.1	0.7548	0.7104	-5.9	NA	± 20 %	Average RF
Bromochloromethane	50.0	47.0	0.3021	0.2838	-6.1	NA	± 20 %	Average RF
Bromodichloromethane	50.0	53.6	0.3900	0.4184	7.3	NA	± 20 %	Average RF
Bromoform	50.0	57.5	0.1754	0.2017	15.0	NA	± 20 %	Average RF
Bromomethane	50.0	50.3	NA	NA	NA	0.6	± 20 %	Quadratic
Carbon Tetrachloride	50.0	51.6	0.1274	0.1315	3.2	NA	± 20 %	Average RF
Chlorobenzene	50.0	45.3	0.9640	0.8738	-9.4	NA	± 20 %	Average RF
Chloroethane	50.0	47.8	0.3320	0.3177	-4.3	NA	± 20 %	Average RF
Chloroform	50.0	48.2	0.8279	0.7977	-3.6	NA	± 20 %	Average RF
Chloromethane	50.0	47.1	0.7175	0.6754	-5.9	NA	± 20 %	Average RF
Dibromochloromethane	50.0	53.6	0.3054	0.3273	7.2	NA	± 20 %	Average RF

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000

Service Request: R1407806
Date Analyzed: 10/14/14

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA10\DATA\101414\A2939.D\

Calibration Date: 7/21/14
Calibration ID: RC1400062
Analysis Lot: 416090
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	44.2	0.5381	0.4760	-11.6	NA	± 20 %	Average RF
Methylene Chloride	50.0	47.1	0.4573	0.4310	-5.8	NA	± 20 %	Average RF
Ethylbenzene	50.0	45.5	0.4804	0.4375	-8.9	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	56.0	0.3147	0.3524	12.0	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	45.5	1.457	1.325	-9.1	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	53.5	0.9984	1.069	7.0	NA	± 20 %	Average RF
Naphthalene	50.0	48.4	1.321	1.278	-3.2	NA	± 20 %	Average RF
Styrene	50.0	49.3	0.9623	0.9484	-1.4	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	45.6	0.2891	0.2635	-8.9	NA	± 20 %	Average RF
Toluene	50.0	46.9	1.281	1.200	-6.3	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	45.7	0.3407	0.3117	-8.5	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	51.2	0.7423	0.7599	2.4	NA	± 20 %	Average RF
Vinyl Chloride	50.0	43.1	0.6553	0.5648	-13.8	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	47.0	0.4913	0.4620	-6.0	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	56.7	0.4120	0.4668	13.3	NA	± 20 %	Average RF
m,p-Xylenes	100	91.5	0.5924	0.5419	-8.5	NA	± 20 %	Average RF
n-Butylbenzene	50.0	46.6	1.960	1.828	-6.7	NA	± 20 %	Average RF
n-Propylbenzene	50.0	46.7	3.120	2.914	-6.6	NA	± 20 %	Average RF
o-Xylene	50.0	46.6	0.5792	0.5398	-6.8	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	43.8	2.666	2.337	-12.3	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	42.4	1.902	1.613	-15.2	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	45.9	0.4493	0.4121	-8.3	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	59.1	0.3260	0.3855	18.2	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	53.6	0.4419	0.4738	7.2	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	52.1	0.3188	0.3322	4.2	NA	± 20 %	Average RF
Toluene-d8	50.0	51.9	1.123	1.166	3.9	NA	± 20 %	Average RF

Evaluate Continuing Calibration Report

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:33:32 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

FD 10/14/14

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	105	0.00	
2	P	Dichlorodifluoromethane	0.5381	0.4760	11.5	87	0.00	
3	P	Chloromethane	0.7175	0.6754	5.9	96	0.00	
4	P	Vinyl Chloride	0.6553	0.5648	13.8	90	0.00	
5	P	Bromomethane	0.1903	0.1951	-0.6 ~~-2.5~~	100	0.00	
6	P	Chloroethane	0.3320	0.3177	4.3	100	0.00	
7		Freon 21	0.9222	0.9356	-1.5	104	0.00	
8	P	Trichlorofluoromethane	0.7423	0.7599	-2.4	108	0.00	
9		Diethyl Ether	0.3910	0.3718	4.9	104	0.00	
10		Freon 123a	0.5807	0.5592	3.7	96	0.00	
11		Freon 123	0.6180	0.5828	5.7	98	0.00	
12		Acrolein	0.0612	0.0868	-41.8#	150	0.00	NT
13		1,1-Diclethene	0.3485	0.3261	6.4	103	0.00	
14	P	Freon 113	0.4403	0.3977	9.7	99	0.00	
15	P	Acetone	0.1523	0.1670	-9.7	128	0.00	
16		2-Propanol	0.0215	0.0237	-10.2	112	0.00	
17		Iodomethane	0.3548	0.3287	14.5 ~~-7.4~~	108	0.00	
18	P	Carbon Disulfide	1.4741	1.4087	4.4	101	0.00	
19		Acetonitrile	0.0163	0.0177	-8.6	117	0.00	
20		Allyl Chloride	0.2191	0.2385	-8.9	108	0.00	
21	P	Methyl Acetate	0.3020	0.3419	-13.2	111	0.00	
22	P	Methylene Chloride	0.4573	0.4310	5.8	104	0.00	
23		TBA	0.0259	0.0294	-13.5	115	0.00	
24		Acrylonitrile	0.1399	0.1509	-7.9	112	0.00	
25	P	Methyl-t-Butyl Ether	0.9984	1.0688	-7.1	111	0.00	
26	P	trans-1,2-Dichloroethene	0.4493	0.4121	8.3	98	0.00	
27		Halothane	0.0000	0.0000	0.0	0#	-3.03#	
28	P	1,1-Diclethane	0.9501	0.9148	3.7	102	0.00	
29		Vinyl Acetate	0.0559	0.0638	-14.1	113	0.00	
30		DIPE	2.1811	2.3192	-6.3	107	0.00	
31		2-Chloro-1,3-Butadiene	0.9344	0.9171	1.9	99	0.00	
32		ETBE	1.4626	1.5585	-6.6	110	0.00	
33		2,2-Dichloropropane	0.5885	0.6218	-5.7	109	0.00	
34	P	cis-1,2-Dichloroethene	0.4913	0.4620	6.0	100	0.00	
35	P	2-Butanone	0.2007	0.2248	-12.0	107	0.00	
36		Propionitrile	0.0412	0.0521	-7.4 ~~-26.5#~~	112	0.00	
37		Bromochloromethane	0.3021	0.2838	6.1	103	0.00	
38		Methacrylonitrile	0.1086	0.1233	-13.5	109	0.00	
39		Tetrahydrofuran	0.1111	0.1208	-8.7	111	0.00	
40	P	Chloroform	0.8279	0.7977	3.6	107	0.00	
41	P	1,1,1-Trichloroethane	0.6850	0.6711	2.0	105	0.00	
42		TAME	0.9868	1.0889	-10.3	111	0.00	
43	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	101	0.00	
44	P	Cyclohexane	0.4527	0.4305	4.9	94	0.00	
45	s	surr4,Dibrflmethane	0.3188	0.3322	-4.2	104	0.00	
46	P	Carbontetrachloride	0.1274	0.1315	-3.2	108	0.00	
47		1,1-Dichloropropene	0.3911	0.3798	2.9	101	0.00	

W072114.M Tue Oct 14 10:33:59 2014 MSVO10 Page: 1

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:33:32 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
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)	
48	s	surr1,1,2-dichloroethane-d4	0.3365	0.3751	-11.5	111	0.00	
49	P	Benzene	1.2222	1.1805	3.4	98	0.00	
50	P	1,2-Dichloroethane	0.4240	0.4623	-9.0	111	0.00	
51		Iso-Butyl Alcohol	0.0099	0.0110	-11.1	108	0.00	
52		n-Heptane	0.4609	0.4744	-2.9	100	0.00	
53		1-Butanol	0.0040	0.0052	~~-30.0#~~	120	0.00	
54	P	Trichloroethene	0.3407	0.3117	8.5	95	0.00	
55	P	Methylcyclohexane	0.4697	0.4708	-0.2	96	0.00	
56	P	1,2-Diclpropane	0.3562	0.3587	-0.7	102	0.00	
57		Dibromomethane	0.1717	0.1749	-1.9	107	0.00	
58		1,4-Dioxane	0.0020	0.0018	10.0	90	0.00	
59		Methyl Methacrylate	0.1265	0.1439	-13.8	109	0.00	
60	P	Bromodichloromethane	0.3900	0.4184	-7.3	109	0.00	
61		2-Nitropropane	0.0492	0.0567	-15.2	124	0.00	
62		2-Chloroethylvinyl Ether	0.1490	0.1048	29.7#	64	0.00	NT
63	P	cis-1,3-Dichloropropene	0.4120	0.4668	-13.3	108	0.00	
64	P	4-Methyl-2-pentanone	0.2664	0.3144	-18.0	113	0.00	
65	s	SURR3,Toluene-d8	1.1229	1.1664	-3.9	102	0.00	
66	P	Toluene	1.2807	1.2002	6.3	96	0.00	
67	P	trans-1,3-Dichloropropene	0.3260	0.3855	-18.3	112	0.00	
68		Ethyl Methacrylate	0.2657	0.3089	-16.3	113	0.00	
69	P	1,1,2-Trichloroethane	0.2259	0.2297	-1.7	105	0.00	
70	s	SURR2,BFB	0.4419	0.4738	-7.2	107	0.00	
71	i	d5-Chlorobenzene	1.0000	1.0000	0.0	104	0.00	
72	P	Tetrachloroethene	0.2891	0.2635	8.9	96	0.00	
73	P	2-Hexanone	0.2113	0.2331	-10.3	106	0.00	
74		1,3-Dichloropropane	0.4284	0.4464	-4.2	108	0.00	
75	P	Dibromochloromethane	0.3054	0.3273	-7.2	106	0.00	
76		N-Butyl Acetate	0.4703	0.5816	-23.7#	114	0.00	NT
77	P	1,2-Dibromoethane	0.2429	0.2571	-5.8	106	0.00	
78		3-Chlorobenzotrifluoride	~~0.5312~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.02~~	
79	P	Chlorobenzene	0.9640	0.8738	9.4	96	0.00	
80		4-Chlorobenzotrifluoride	~~0.4892~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.08~~	
81		1,1,1,2-Tetrachloroethane	0.3374	0.3291	2.5	99	0.00	
82	P	Ethylbenzene	0.4804	0.4375	8.9	93	0.00	
83	P	(m+p)Xylene	0.5924	0.5419	8.5	93	0.00	
84	P	o-Xylene	0.5792	0.5398	6.8	92	0.00	
85	P	Styrene	0.9623	0.9484	1.4	96	0.00	
86	P	Bromoform	0.1754	0.2017	-15.0	117	0.00	
87		2-Chlorobenzotrifluoride	~~0.5264~~	~~0.0001~~	~~100.0#~~	~~0#~~	~~0.00~~	
88	P	Isopropylbenzene	1.4567	1.3246	9.1	91	0.00	
89		Cyclohexanone	0.0460	0.0568	-23.5#	116	0.00	NT
90		trans-1,4-Dichloro-2-Butene	0.0721	0.0846	~~-17.3~~	108	0.00	
91	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	102	0.00	
92	P	1,1,2,2-Tetrachloroethane	0.5487	0.5567	-1.5	107	0.00	
93		Bromobenzene	0.7548	0.7104	5.9	99	0.00	

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:33:32 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
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)
94		1,2,3-Trichloropropane	0.1534	0.1487	3.1	107	0.00
95		n-Propylbenzene	3.1202	2.9136	6.6	91	0.00
96		2-Chlorotoluene	1.9252	1.8069	6.1	96	0.00
97		3-Chlorotoluene	2.0456	0.0000	100.0#	0#	-10.22#
98		4-Chlorotoluene	2.3159	2.1502	7.2	97	0.00
99		1,3,5-Trimethylbenzene	2.2689	2.0266	10.7	89	0.00
100		tert-Butylbenzene	1.9017	1.6132	15.2	84	0.00
101		1,2,4-Trimethylbenzene	2.2937	2.1288	7.2	92	0.00
102		3,4-Dichlorobenzotrifluorid	0.6845	0.0000	100.0#	0#	-0.04
103		sec-Butylbenzene	2.6661	2.3370	12.3	86	0.00
104		p-Isopropyltoluene	2.3128	1.9906	13.9	83	0.00
105	P	1,3-Dclbenz	1.4440	1.2737	11.8	90	0.00
106	P	1,4-Dclbenz	1.4958	1.3208	11.7	91	0.00
107		2,4-Dichlorobenzotrifluorid	0.6099	0.0000	100.0#	0#	0.00
108		2,5-Dichlorobenzotrifluorid	0.7285	0.0000	100.0#	0#	0.00
109		n-Butylbenzene	1.9600	1.8284	6.7	88	0.00
110	P	1,2-Dclbenz	1.3568	1.2197	10.1	93	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0835	0.0847	-1.4	96	0.00
112		Trielution Dichlorotoluene	1.1368	0.0002	100.0#	0#	0.01
113		1,3,5-Trichlorobenzene	0.9702	0.0001	100.0#	0#	0.01
114		Coelution Dichlorotoluene	1.1787	0.0000	100.0#	0#	0.02
115	P	1,2,4-Tcbenzene	0.7687	0.7235	5.9	94	0.00
116		Hexachlorobt	0.3147	0.3524	-12.0	113	0.00
117		Naphthalen	1.3209	1.2780	3.2	90	0.00
118		1,2,3-Tclbenzene	0.5634	0.5558	1.3	95	0.00
119		2,4,5-Trichlorotoluene	0.3514	0.0000	100.0#	0#	0.03
120		2,3,6-Trichlorotoluene	0.3556	0.0000	100.0#	0#	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

RQ1412SM3-04

Quant Time: Oct 14 10:33:32 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

FJ
10/14/14

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	997026	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1417881	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1317059	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	718000	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	471085	52.11	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.22%				
48) surr1,1,2-dichloroetha...	4.848	65	531832	55.74	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 111.48%				
65) SURR3,Toluene-d8	7.427	98	1653865	51.94	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.88%				
70) SURR2,BFB	9.878	95	671812	53.61	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.22%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.191	85	474563	44.22	ug/L		98
3) Chloromethane	1.294	50	673370	47.07	ug/L		98
4) Vinyl Chloride	1.361	62	563113	43.09	ug/L		99
5) Bromomethane	1.556	94	194504	50.30	ug/L		98
6) Chloroethane	1.611	64	316767	47.84	ug/L		95
7) Freon 21	1.715	67	932829	50.73	ug/L		96
8) Trichlorofluoromethane	1.770	101	757628	51.18	ug/L		98
9) Diethyl Ether	1.934	59	370731	47.55	ug/L		81
10) Freon 123a	1.928	67	557493	48.14	ug/L		96
11) Freon 123	1.965	83	581047	47.15	ug/L		98
12) Acrolein	2.020	56	432558	354.74	ug/L		97
13) 1,1-Diclethene	2.099	96	325163	46.79	ug/L	#	80
14) Freon 113	2.093	101	396558	45.17	ug/L		95
15) Acetone	2.117	43	166541	54.85	ug/L		97
16) 2-Propanol	2.190	45	473462	1102.90	ug/L		95
17) Iodomethane	2.215	142	327702	42.75	ug/L		100
18) Carbon Disulfide	2.270	76	1404530	47.78	ug/L		98
19) Acetonitrile	2.318	40	88414	271.68	ug/L		97
20) Allyl Chloride	2.349	76	237798	54.44	ug/L	#	42
21) Methyl Acetate	2.355	43	340883	56.60	ug/L		90
22) Methylene Chloride	2.440	84	429714	47.12	ug/L	#	76
23) TBA	2.501	59	586083	1134.06	ug/L		83
24) Acrylonitrile	2.629	53	752293	269.65	ug/L		99
25) Methyl-t-Butyl Ether	2.660	73	1065622	53.52	ug/L		87
26) trans-1,2-Dichloroethene	2.666	96	410914m	45.86	ug/L		
28) 1,1-Diclethane	3.044	63	912128	48.14	ug/L		97
29) Vinyl Acetate	3.087	86	63578	57.04	ug/L	#	35
30) DIPE	3.105	45	2312262	53.17	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.141	53	914384	49.07	ug/L		83
32) ETBE	3.501	59	1553840	53.28	ug/L		91
33) 2,2-Dichloropropane	3.678	77	619970	52.83	ug/L		97
34) cis-1,2-Dichloroethene	3.678	96	460631	47.02	ug/L	#	74
35) 2-Butanone	3.696	43	224104	56.00	ug/L		92
36) Propionitrile	3.769	54	259535	268.62	ug/L		97
37) Bromochloromethane	3.977	130	282956	46.97	ug/L	#	71

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:33:32 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.964	67	122975	56.80	ug/L	#	45
39)	Tetrahydrofuran	4.050	42	120474	54.36	ug/L		74
40)	Chloroform	4.092	83	795346	48.18	ug/L		97
41)	1,1,1-Trichloroethane	4.355	97	669148	48.99	ug/L		95
42)	TAME	5.178	73	1085628	55.17	ug/L		89
44)	Cyclohexane	4.440	41	610425	47.55	ug/L		89
46)	Carbontetrachloride	4.611	121	186421	51.61	ug/L		94
47)	1,1-Dichloropropene	4.617	75	538537	48.56	ug/L		96
49)	Benzene	4.952	78	1673852	48.30	ug/L		89
50)	1,2-Dichloroethane	4.982	62	655445	54.51	ug/L		95
51)	Iso-Butyl Alcohol	4.848	43	311962	1107.66	ug/L		96
52)	n-Heptane	5.452	43	672633	51.46	ug/L	#	78
53)	1-Butanol	5.946	56	371108	2996.56	ug/L		82
54)	Trichloroethene	5.964	130	442024	45.74	ug/L		99
55)	Methylcyclohexane	6.214	55	667570	50.12	ug/L	#	77
56)	1,2-Diclpropane	6.257	63	508634	50.35	ug/L		99
57)	Dibromomethane	6.403	93	248007	50.92	ug/L		97
58)	1,4-Dioxane	6.458	88	49854m	867.25	ug/L		
59)	Methyl Methacrylate	6.458	69	204087	56.88	ug/L	#	62
60)	Bromodichloromethane	6.610	83	593255	53.64	ug/L		100
61)	2-Nitropropane	6.891	41	160689	115.19	ug/L		94
62)	2-Chloroethylvinyl Ether	7.006	63	148593	35.18	ug/L		86
63)	cis-1,3-Dichloropropene	7.141	75	661881	56.66	ug/L		98
64)	4-Methyl-2-pentanone	7.336	43	445804	59.00	ug/L		95
66)	Toluene	7.500	91	1701724	46.86	ug/L		98
67)	trans-1,3-Dichloropropene	7.744	75	546583	59.12	ug/L		96
68)	Ethyl Methacrylate	7.872	69	438000	58.14	ug/L	#	72
69)	1,1,2-Trichloroethane	7.921	97	325670	50.83	ug/L		98
72)	Tetrachloroethene	8.055	164	346988	45.56	ug/L		98
73)	2-Hexanone	8.195	43	307007	55.15	ug/L		93
74)	1,3-Dichloropropane	8.086	76	587905m	52.09	ug/L		
75)	Dibromochloromethane	8.299	129	431008	53.58	ug/L		97
76)	N-Butyl Acetate	8.335	43	765974	61.84	ug/L		91
77)	1,2-Dibromoethane	8.396	107	338561	52.91	ug/L		95
79)	Chlorobenzene	8.866	112	1150814	45.32	ug/L		100
81)	1,1,1,2-Tetrachloroethane	8.945	131	433427	48.77	ug/L		98
82)	Ethylbenzene	8.976	106	576218	45.54	ug/L		99
83)	(m+p)Xylene	9.085	106	1427455	91.47	ug/L		96
84)	o-Xylene	9.433	106	710993	46.60	ug/L		99
85)	Styrene	9.445	104	1249157	49.28	ug/L		99
86)	Bromoform	9.597	173	265599	57.48	ug/L		98
88)	Isopropylbenzene	9.756	105	1744614	45.47	ug/L		99
89)	Cyclohexanone	9.823	55	1496111	1234.00	ug/L		98
90)	trans-1,4-Dichloro-2-B...	10.055	53	111453	55.72	ug/L		82
92)	1,1,2,2-Tetrachloroethane	10.006	83	399729	50.74	ug/L		95
93)	Bromobenzene	10.000	156	510102	47.06	ug/L		97
94)	1,2,3-Trichloropropane	10.036	110	106779	48.47	ug/L		98
95)	n-Propylbenzene	10.103	91	2091937	46.69	ug/L		99
96)	2-Chlorotoluene	10.164	91	1297354	46.93	ug/L		99
98)	4-Chlorotoluene	10.256	91	1543822	46.42	ug/L		99
99)	1,3,5-Trimethylbenzene	10.250	105	1455125	44.66	ug/L		98
100)	tert-Butylbenzene	10.518	119	1158276	42.41	ug/L		98

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:33:32 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

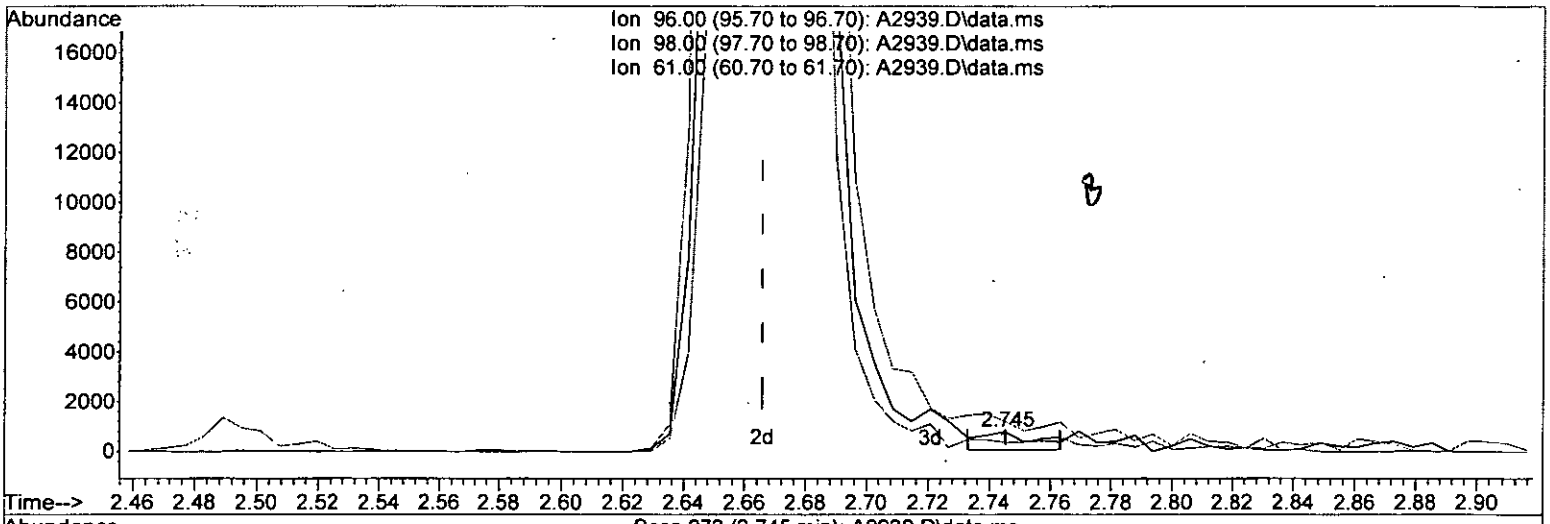
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	10.555	105	1528513	46.41	ug/L	99
103) sec-Butylbenzene	10.695	105	1677992	43.83	ug/L	98
104) p-Isopropyltoluene	10.817	119	1429269	43.04	ug/L	98
105) 1,3-Dclbenz	10.780	146	914541	44.10	ug/L	96
106) 1,4-Dclbenz	10.853	146	948331	44.15	ug/L	99
109) n-Butylbenzene	11.140	91	1312814	46.64	ug/L	99
110) 1,2-Dclbenz	11.152	146	875763	44.95	ug/L	98
111) 1,2-Dibromo-3-chloropr...	11.707	157	60833	50.72	ug/L	89
115) 1,2,4-Tcbenzene	12.231	180	519485	47.06	ug/L	94
116) Hexachlorobt	12.329	225	253024	56.00	ug/L	98
117) Naphthalen	12.377	128	917583	48.38	ug/L	98
118) 1,2,3-Tclbenzene	12.512	180	399029	49.32	ug/L	96

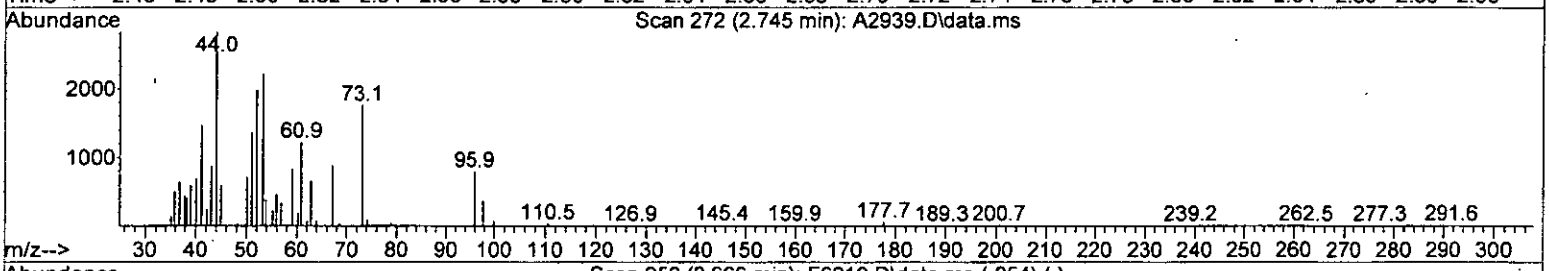
(#) = qualifier out of range (m) = manual integration (+) = signals summed

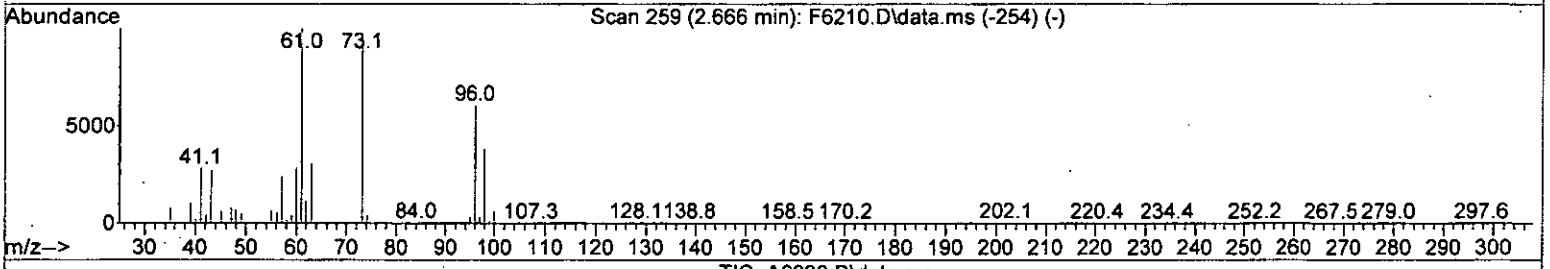
Quantitation Report (Qedit)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:21:47 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2939.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.745min (+0.079) 0.09 ug/L

response 849

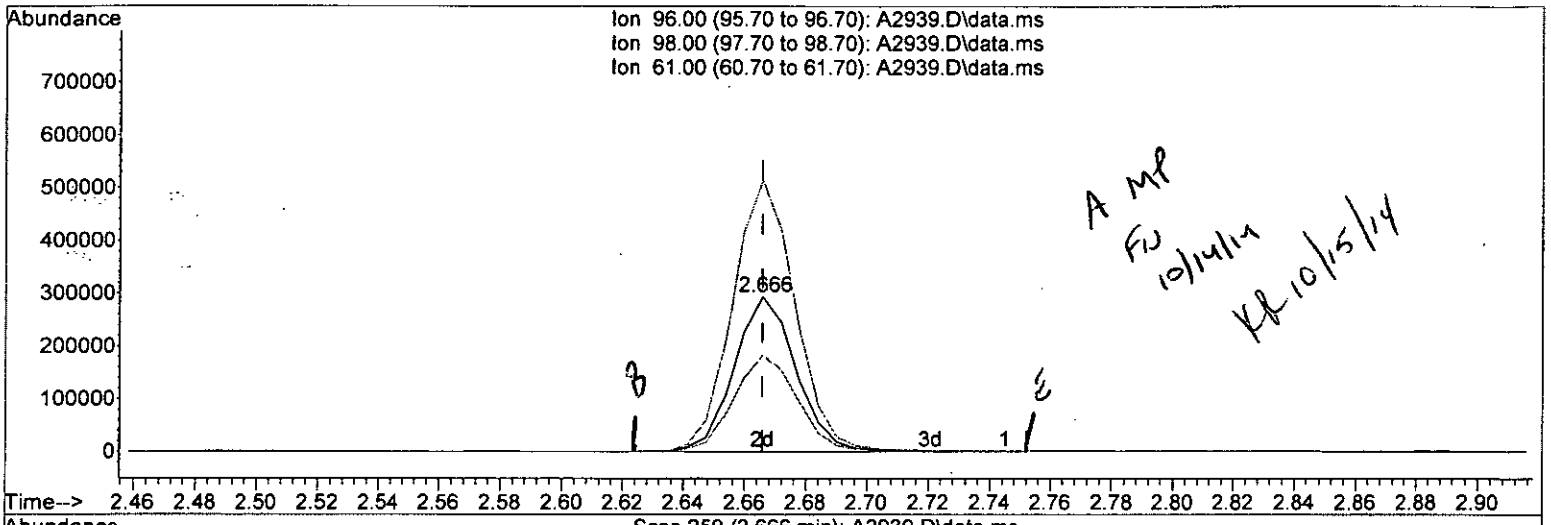
Ion	Exp%	Act%
96.00	100	100
98.00	64.00	45.97
61.00	144.30	153.15
0.00	0.00	0.00

W072114.M Tue Oct 14 10:32:25 2014 MSVO10 Page: 1

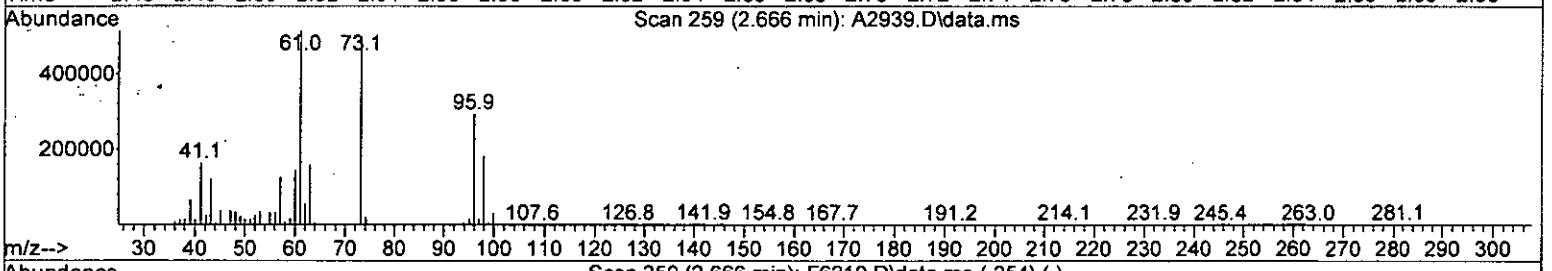
Quantitation Report (Qedit)

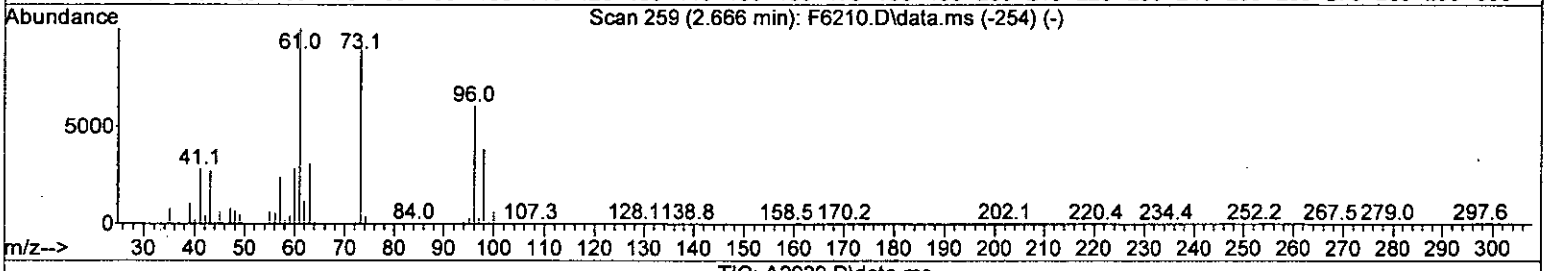
Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:21:47 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



A MP 10/14/14 KL 10/15/14





TIC: A2939.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.666min (+0.000) 45.86 ug/L m

response 410914

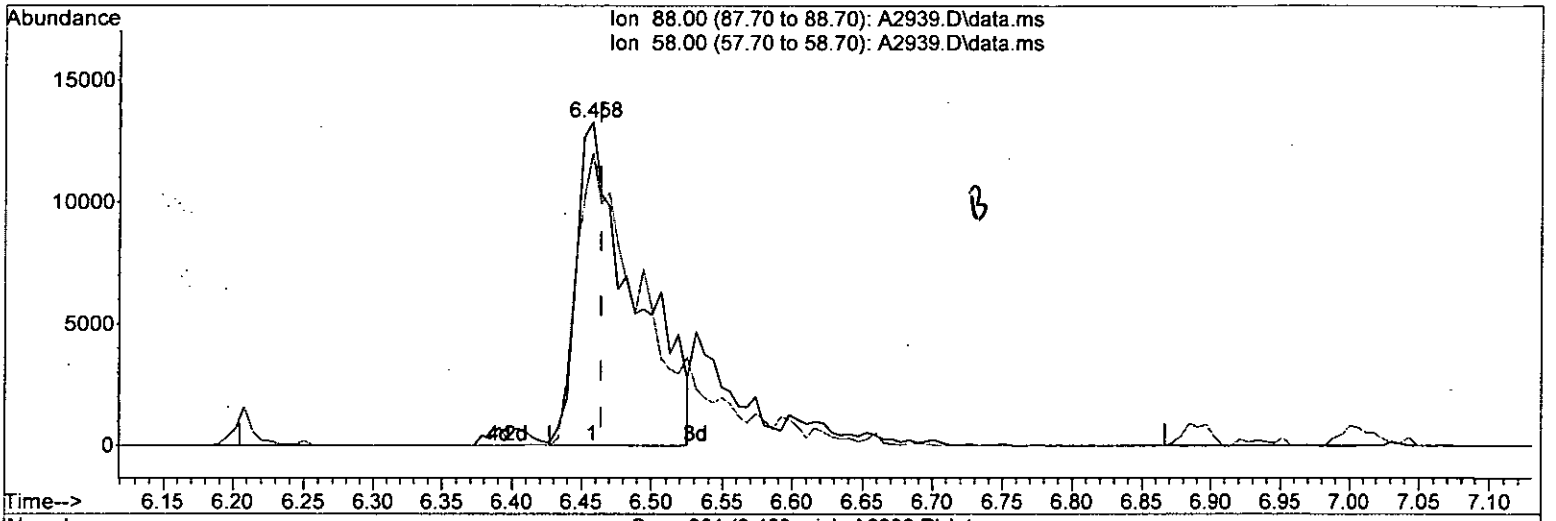
Ion	Exp%	Act%
96.00	100	100
98.00	64.00	61.98
61.00	144.30	175.28#
0.00	0.00	0.00

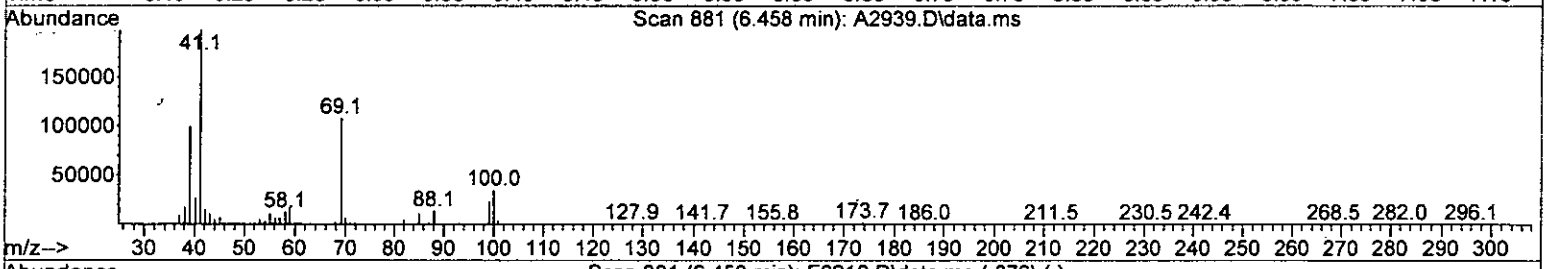
W072114.M Tue Oct 14 10:32:32 2014 MSVO10 Page: 1

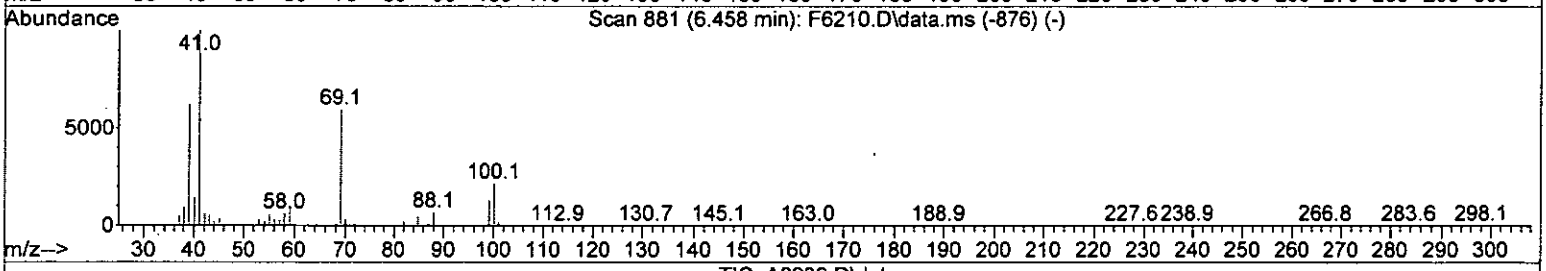
Quantitation Report (Qedit)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:21:47 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2939.D\data.ms

(58) 1,4-Dioxane

6.458min (-0.006) 655.27 ug/L

response 37668

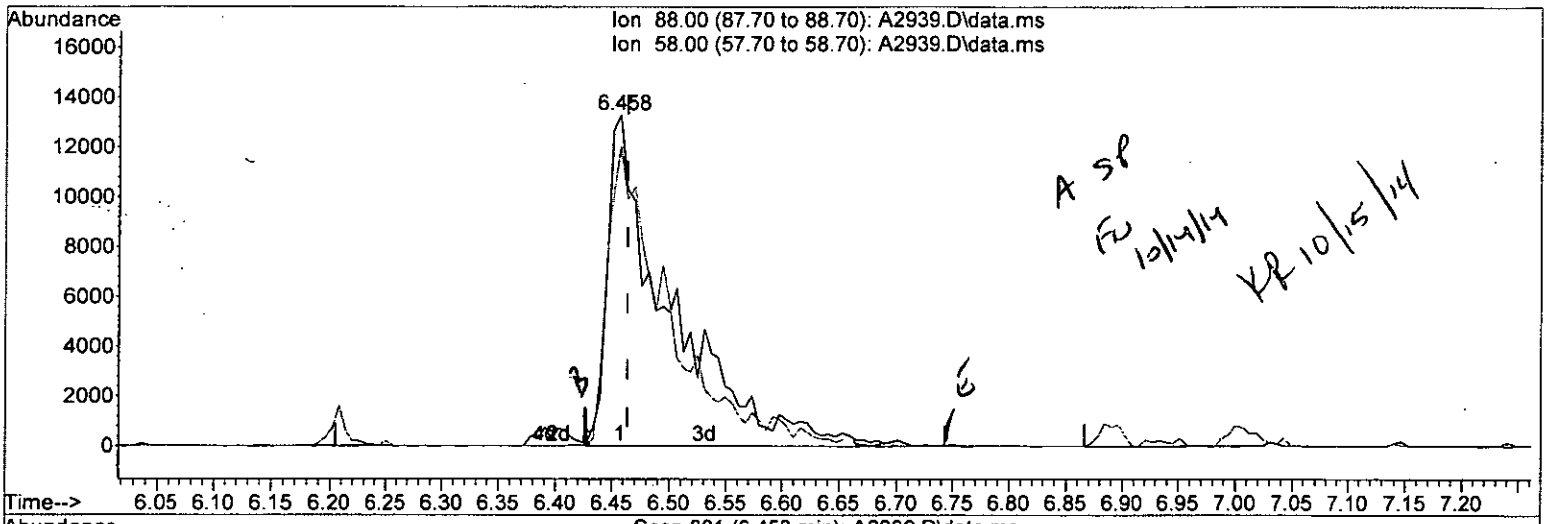
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	90.38
0.00	0.00	0.00
0.00	0.00	0.00

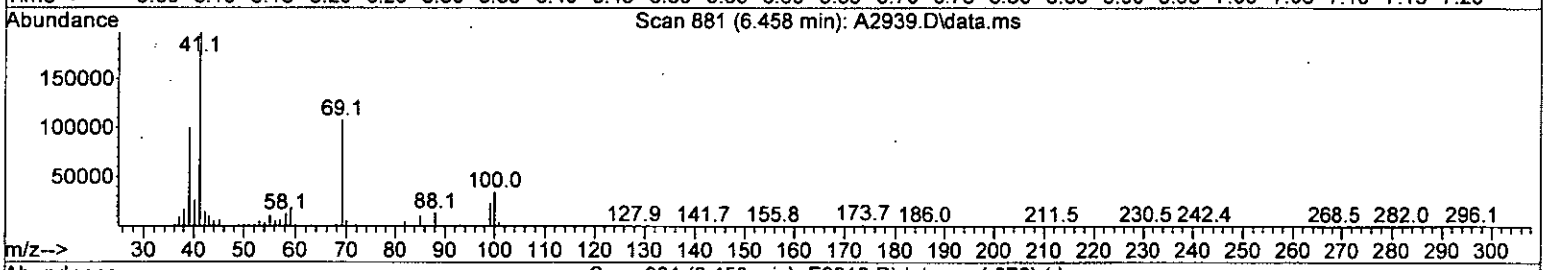
W072114.M Tue Oct 14 10:32:50 2014 MSVO10 Page: 1

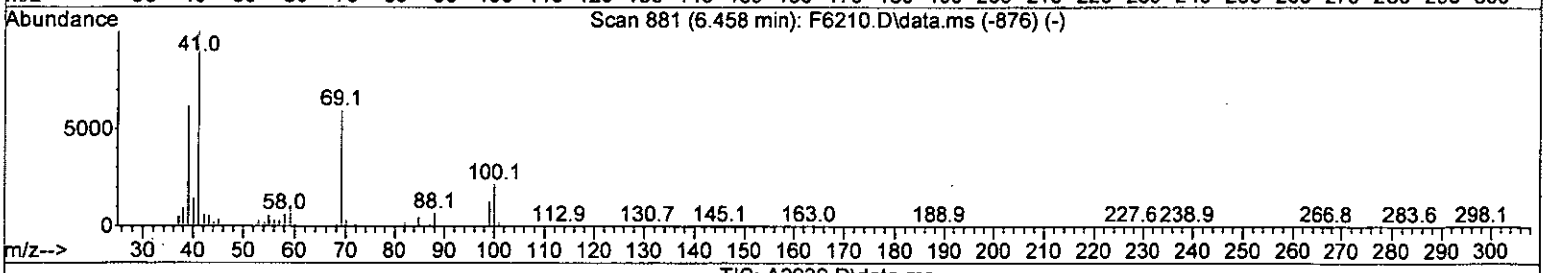
Quantitation Report (QuaL)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:21:47 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2939.D\data.ms

(58) 1,4-Dioxane

6.458min (-0.006) 867.25 ug/L m

response 49854

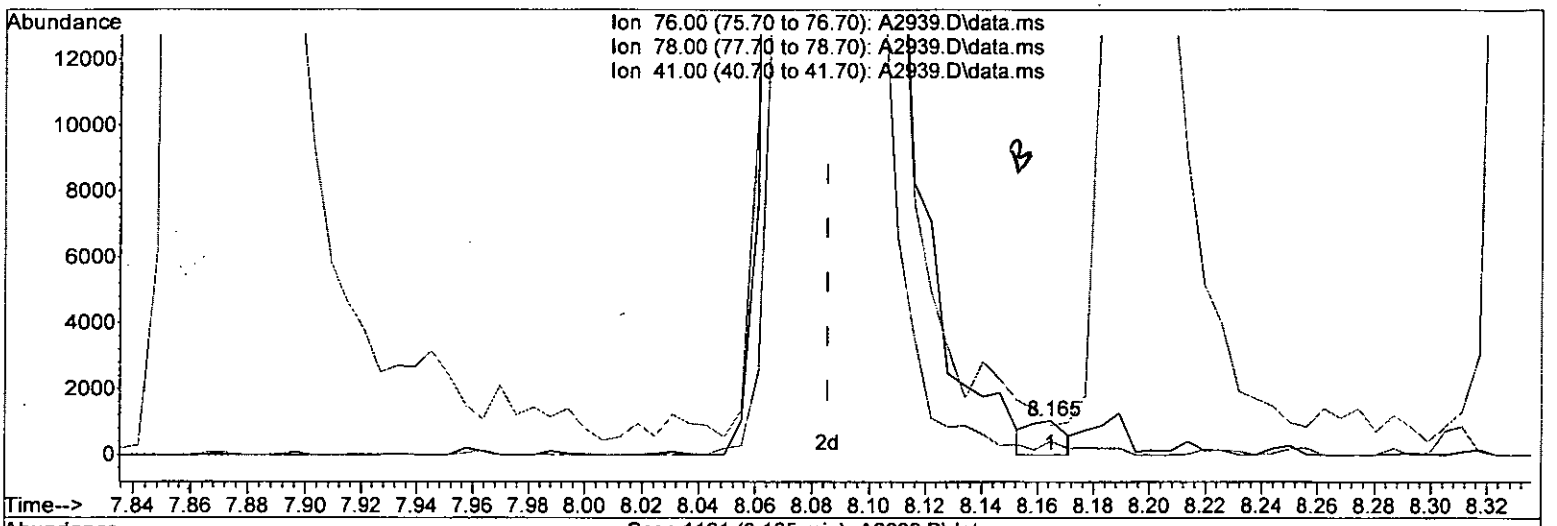
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	90.38
0.00	0.00	0.00
0.00	0.00	0.00

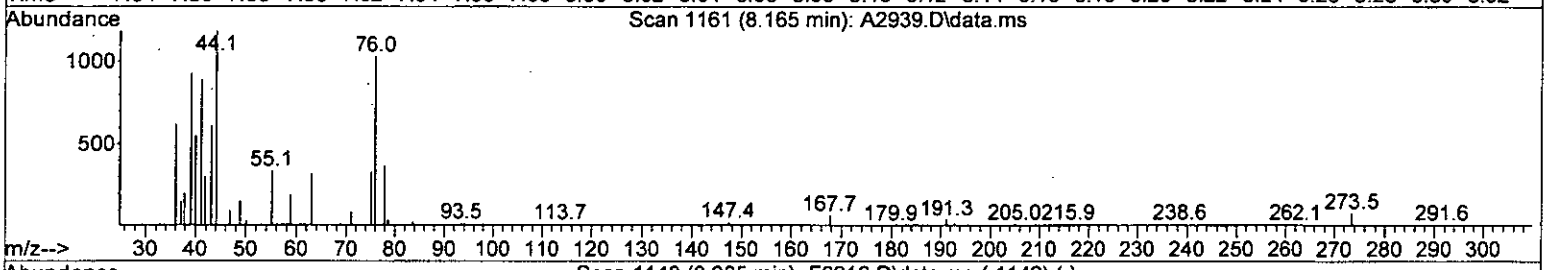
W072114.M Tue Oct 14 10:33:00 2014 MSVO10 Page: 1

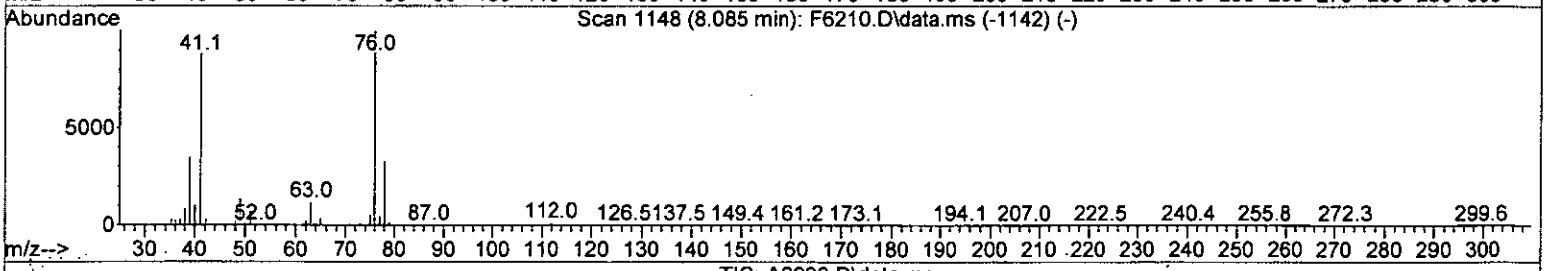
Quantitation Report (QEdit)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:21:47 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2939.D\data.ms

(74) 1,3-Dichloropropane

8.165min (+0.079) 0.08 ug/L

response 932

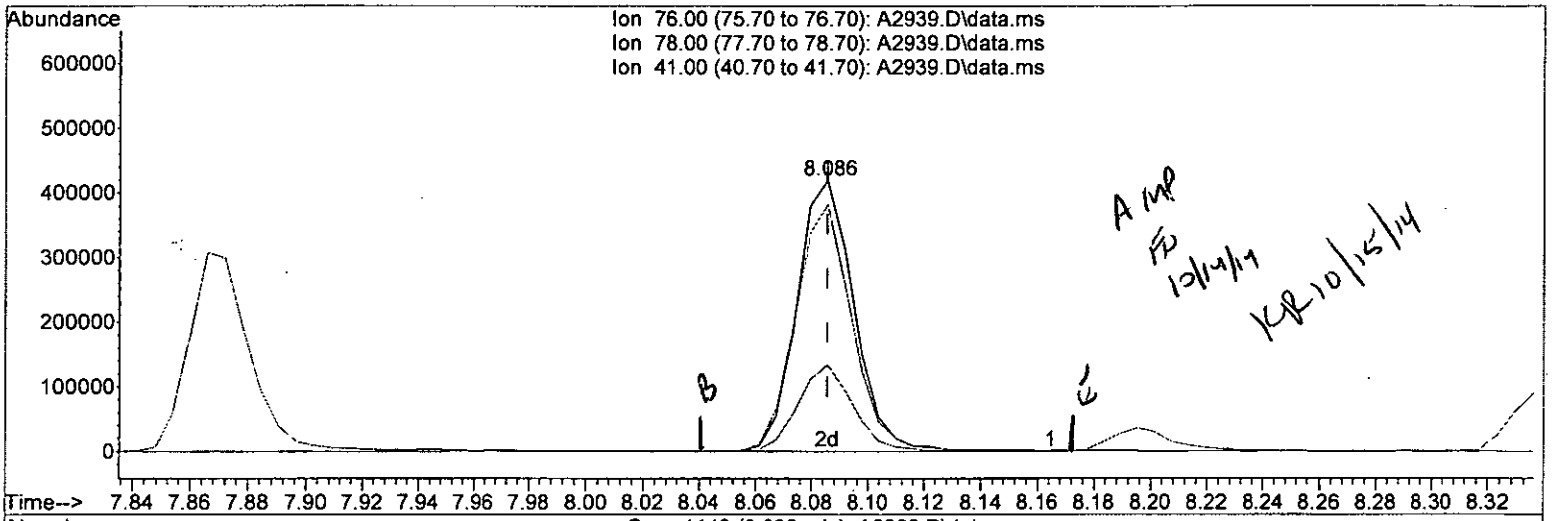
Ion	Exp%	Act%
76.00	100	100
78.00	31.70	39.59
41.00	66.30	86.19
0.00	0.00	0.00

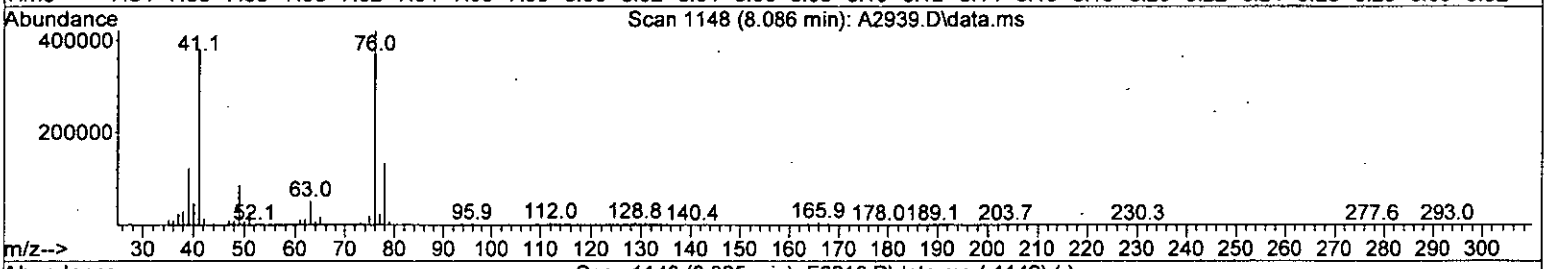
W072114.M Tue Oct 14 10:33:12 2014 MSVO10 Page: 1

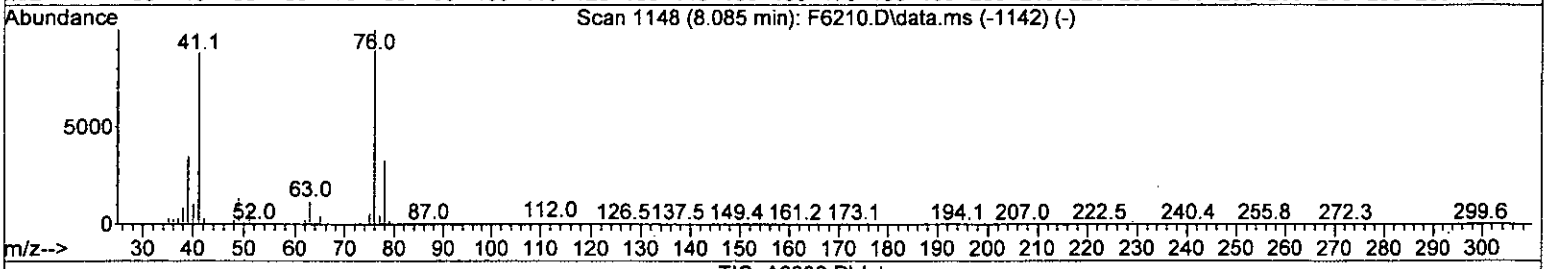
Quantitation Report (Qedit)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:21:47 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2939.D\data.ms

(74) 1,3-Dichloropropane

8.086min (+0.000) 52.09 ug/L m

response 587905

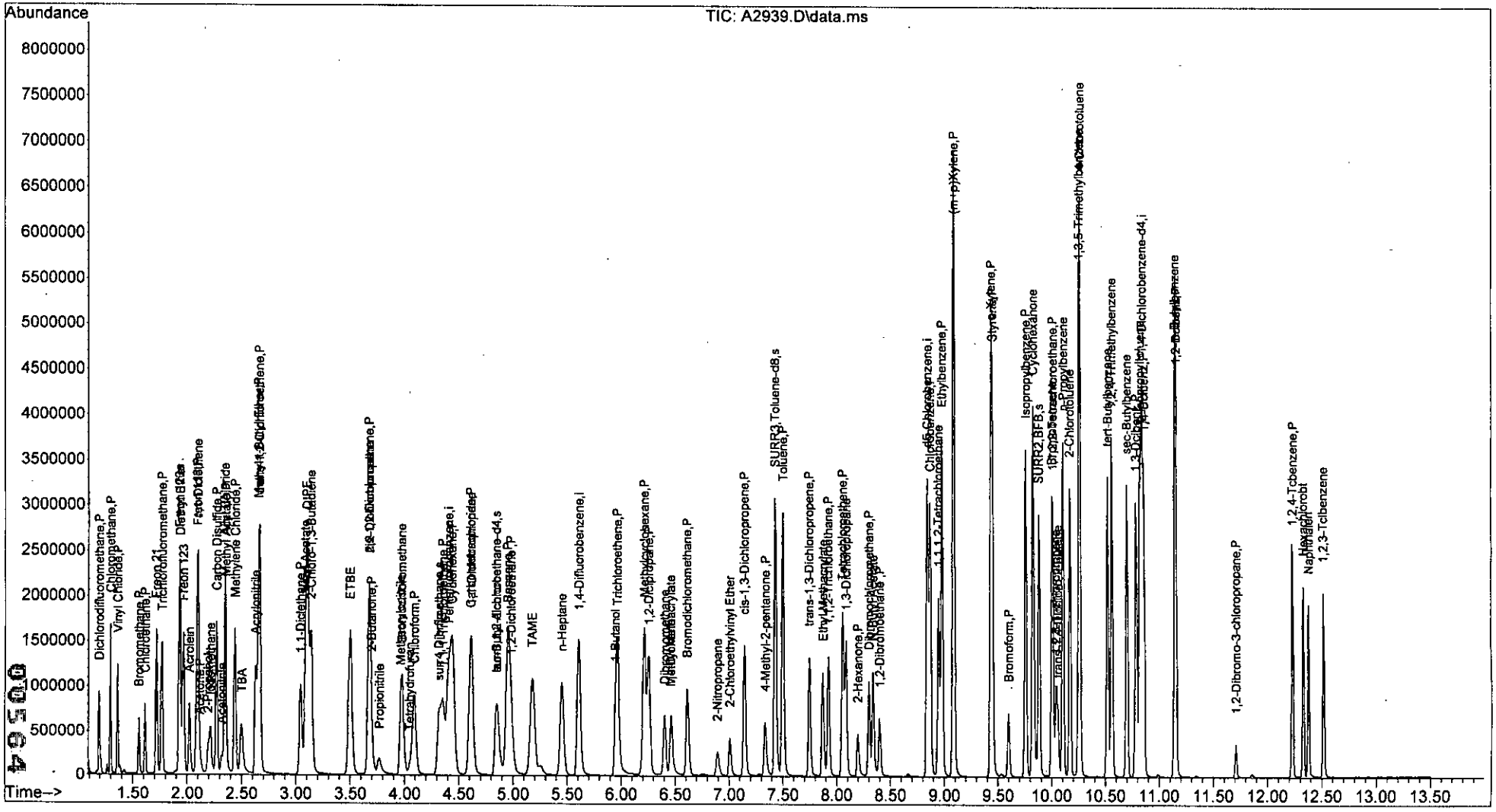
Ion	Exp%	Act%
76.00	100	100
78.00	31.70	31.77
41.00	66.30	90.93#
0.00	0.00	0.00

W072114.M Tue Oct 14 10:33:20 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : CCV
Data File : I:\ACQUDATA\msvoa10\data\101414\A2939.D Vial: 2
Acq On : 14 Oct 2014 10:08 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:33:32 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Tue Oct 14 10:33:51 2014 MSVO10

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

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00565

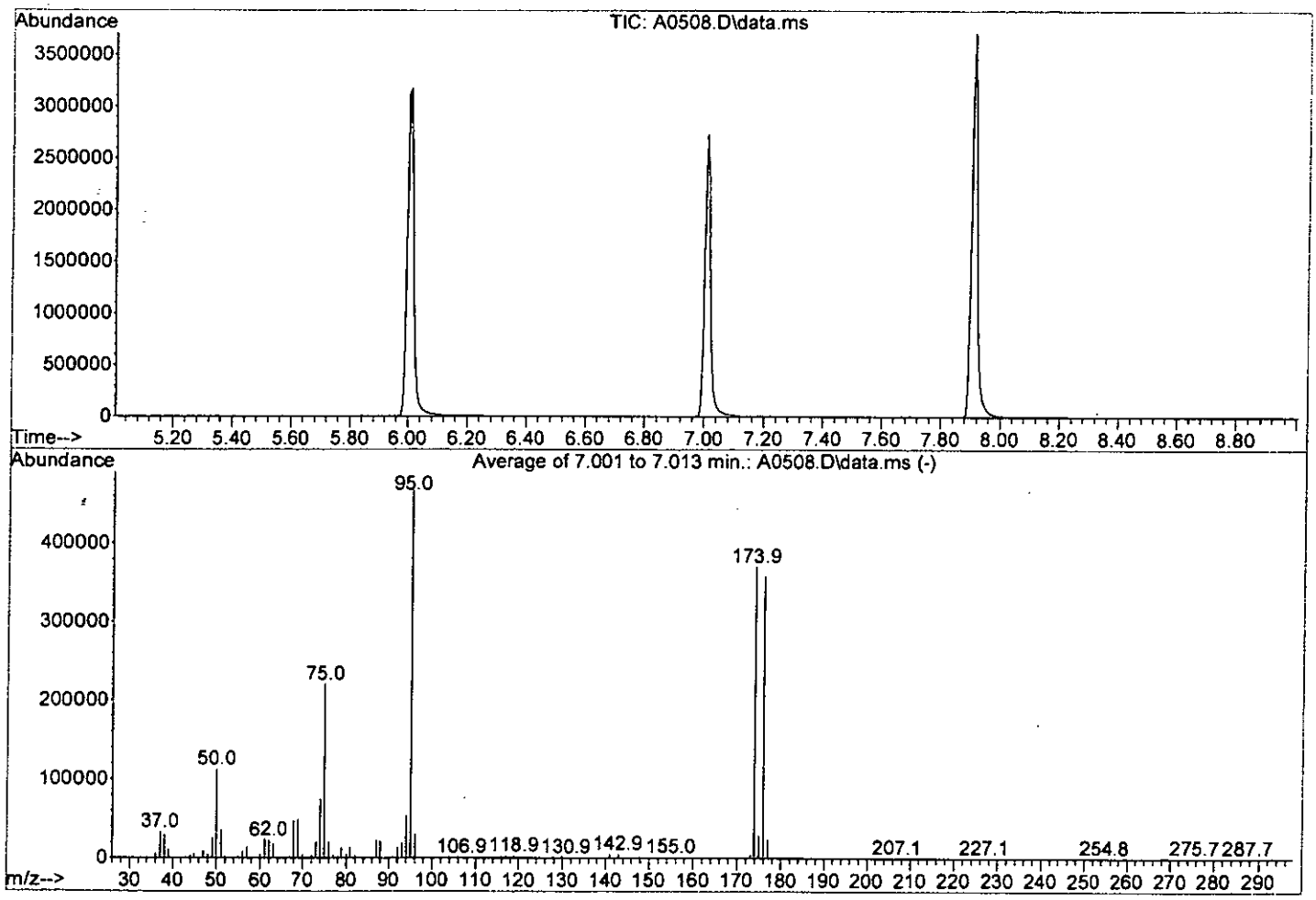
BFB

Data Path : I:\ACQUDATA\msvoa10\data\072114\
Data File : A0508.D
Acq On : 21 Jul 2014 10:55 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

FW 7/22/14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T072114.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 309

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	112021	PASS
75	95	30	60	47.1	219883	PASS
95	95	100	100	100.0	466859	PASS
96	95	5	9	6.4	29771	PASS
173	174	0.00	2	1.0	3689	PASS
174	95	50	120	79.2	369941	PASS
175	174	5	9	7.6	28299	PASS
176	174	95	101	96.8	358208	PASS
177	176	5	9	6.4	23022	PASS

T072114.M Mon Jul 21 11:45:31 2014 MSVO10

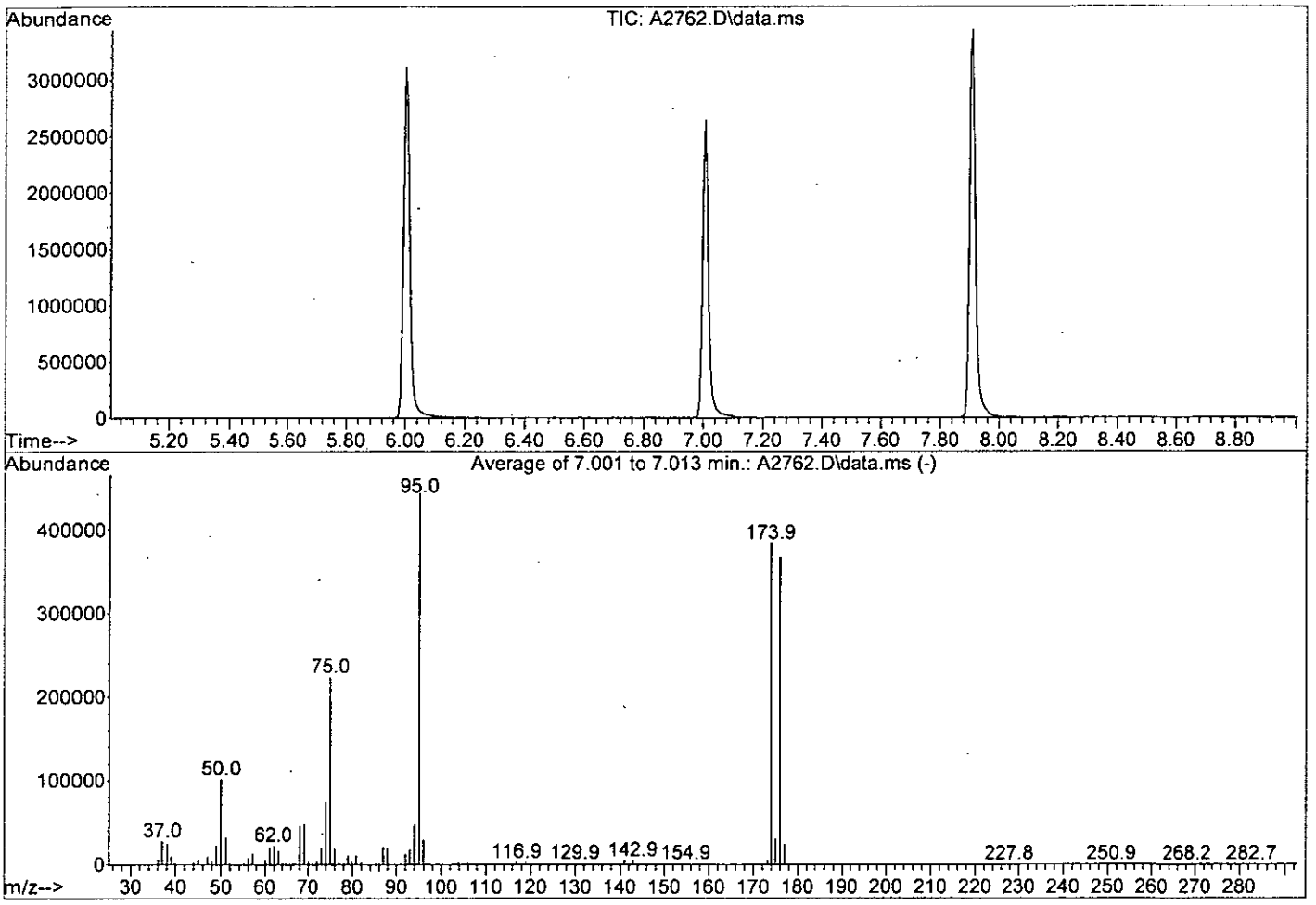
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2762.D
Acq On : 9 Oct 2014 9:44 am
Operator : F.NAEGLER
Sample : TUNE
Misc :
ALS Vial : 1 Sample Multiplier: 1

RQ1412445-03

FD 10/14/14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T072114.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 309

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	101340	PASS
75	95	30	60	50.3	223360	PASS
95	95	100	100	100.0	444309	PASS
96	95	5	9	6.6	29193	PASS
173	174	0.00	2	1.2	4423	PASS
174	95	50	120	86.4	383979	PASS
175	174	5	9	7.9	30352	PASS
176	174	95	101	95.5	366827	PASS
177	176	5	9	6.4	23555	PASS

T072114.M Thu Oct 09 10:21:04 2014 MSVO10 Page: 1

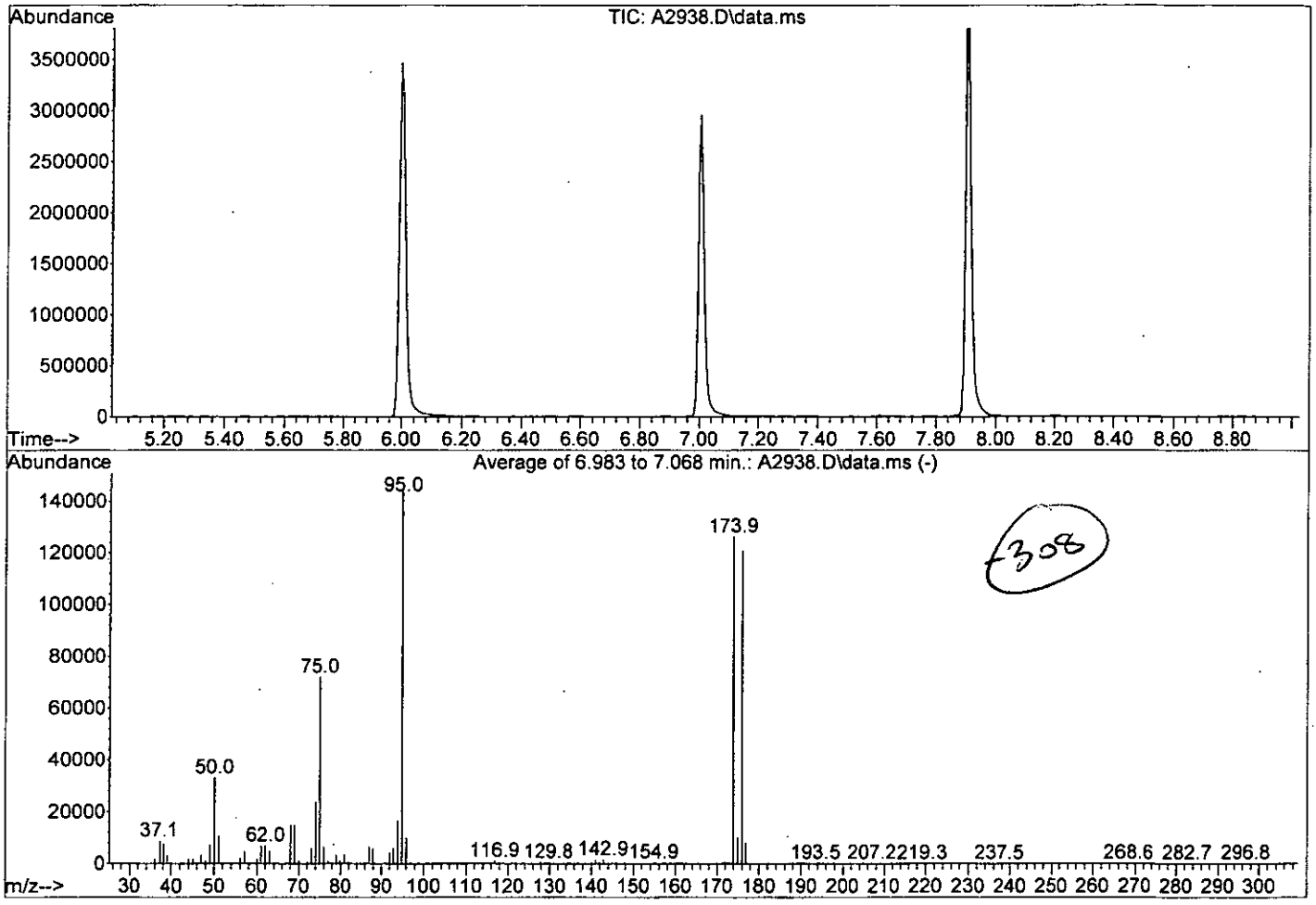
```
Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2938.D
Acq On    : 14 Oct 2014    9:42 am
Operator  : F.NAEGLER
Sample    : TUNE
Misc      :
ALS Vial  : 1   Sample Multiplier: 1

Integration File: CPD4.P

Method    : I:\ACQUDATA\MSVOA10\METHODS\T072114.M
Title     : 8260B WATERS
Last Update  : Wed Sep 27 14:33:13 2006
```

RQ1412543-03

FJ 10/14/14



308

Spectrum Information: Average of 6.983 to 7.068 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.0	33006	PASS
75	95	30	60	50.1	71875	PASS
95	95	100	100	100.0	143527	PASS
96	95	5	9	6.9	9855	PASS
173	174	0.00	2	0.4	465	PASS
174	95	50	120	87.8	126065	PASS
175	174	5	9	7.8	9816	PASS
176	174	95	101	95.7	120690	PASS
177	176	5	9	6.5	7862	PASS

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 12:00
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412440-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2766.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	**0.24**	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	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 12:00
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412440-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2766.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	0.32	
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	**0.22**	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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 12:00
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412440-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2766.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	75-120	10/9/14 12:00	
Dibromofluoromethane	104	85-115	10/9/14 12:00	
Toluene-d8	101	85-120	10/9/14 12:00	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 1200

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412440-01	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Sample : MBLK
Data File : I:\ACQUDATA\msvoa10\data\100914\A2766.D Vial: 5
Acq On : 9 Oct 2014 12:00 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

RQ1412495-01

Quant Time: Oct 14 13:59:53 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	923777	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1324937	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.842	117	1185949	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	631665	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	441037	52.20	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.40%			
48) surr1,1,2-dichloroetha...	4.854	65	512429	57.47	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.94%			
65) SURR3,Toluene-d8	7.427	98	1499377	50.39	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.78%			
70) SURR2,BFB	9.878	95	595242	50.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.68%			
Target Compounds						Qvalue
23) TBA	2.520	59	888	1.85	ug/L	84
115) 1,2,4-Tcbenzene	12.274	180	2336m	0.24	ug/L	
116) Hexachlorobt	12.329	225	1376	0.35	ug/L	90
117) Naphthalen	12.438	128	3623	0.22	ug/L	75
118) 1,2,3-Tclbenzene	12.536	180	2540	0.36	ug/L	87

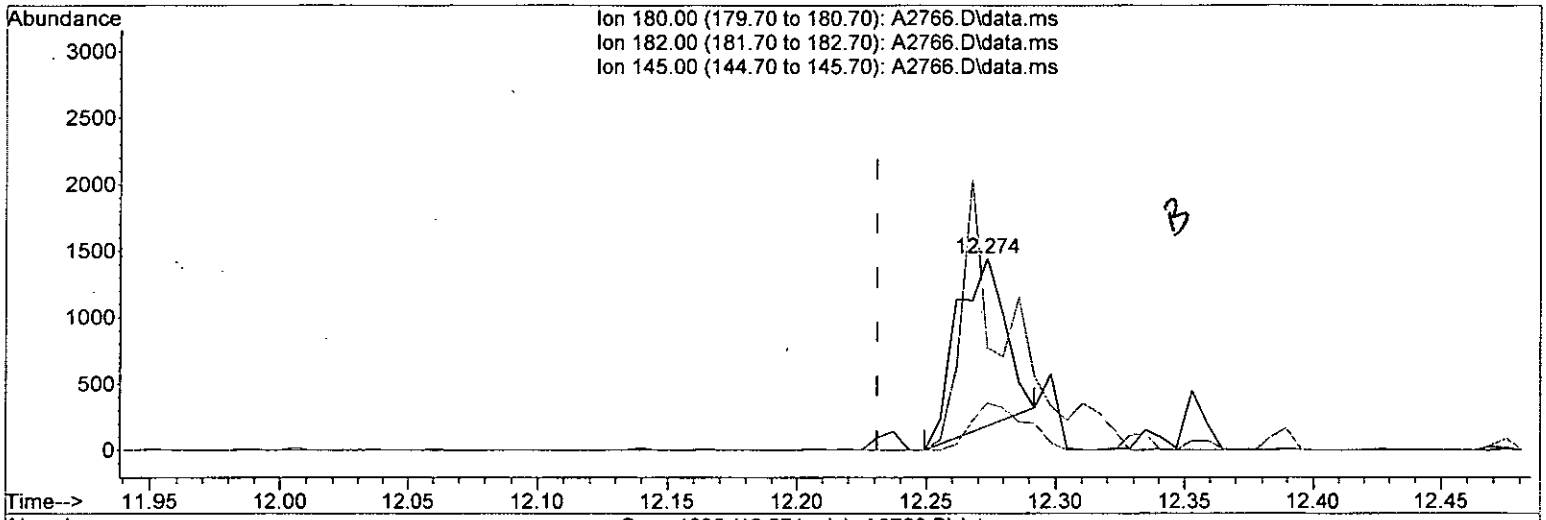
(#) = qualifier out of range (m) = manual integration (+) = signals summed

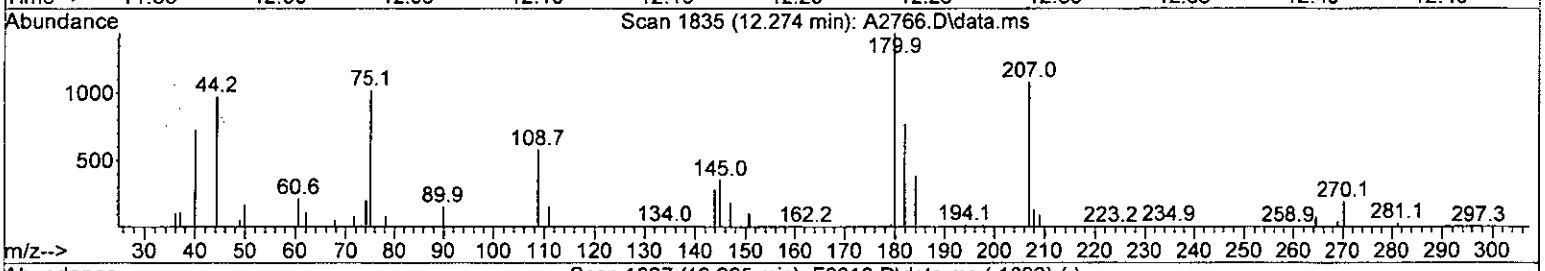
FW
10/14/14

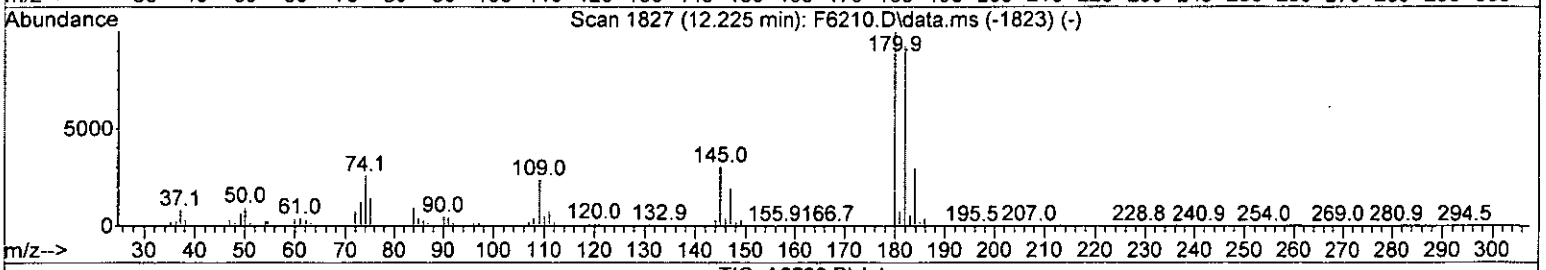
Quantitation Report (Qedit)

Sample : MBLK
Data File : I:\ACQUDATA\msvoa10\data\100914\A2766.D Vial: 5
Acq On : 9 Oct 2014 12:00 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 12:13:13 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2766.D\data.ms

(115) 1,2,4-Tcbenzene (P)

12.274min (+0.043) 0.18 ug/L

response 1711

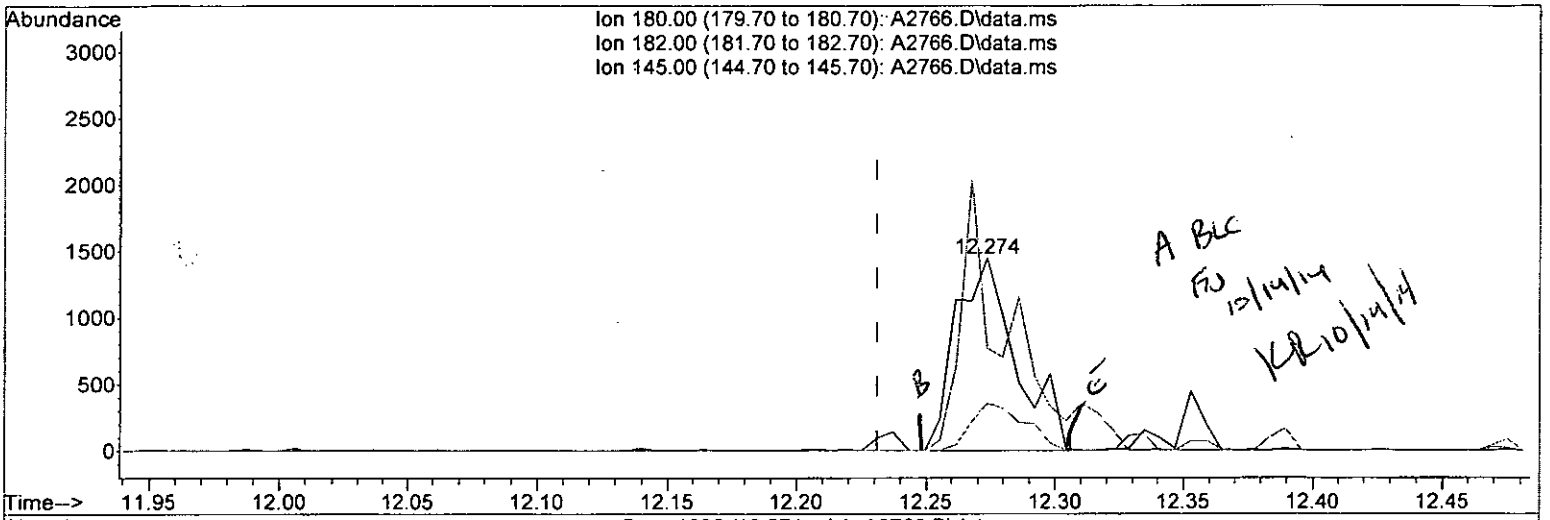
Ion	Exp%	Act%
180.00	100	100
182.00	91.20	53.32#
145.00	29.60	24.58
0.00	0.00	0.00

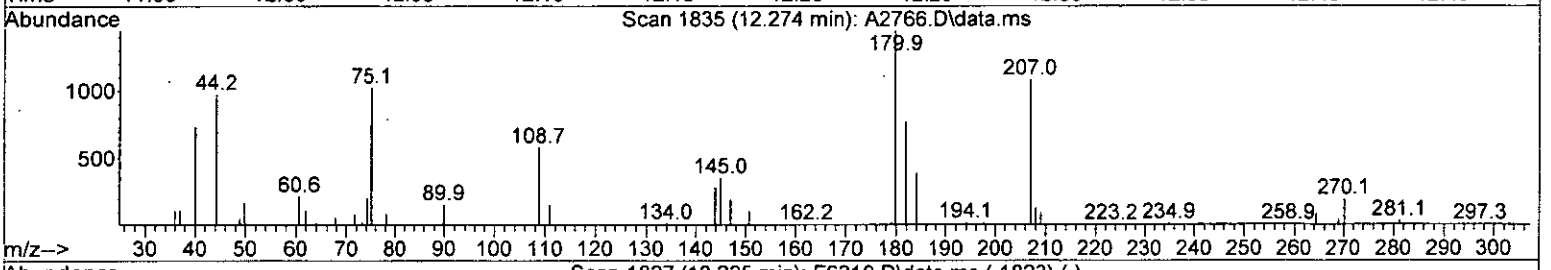
W072114.M Tue Oct 14 13:59:50 2014 MSVO10 Page: 1

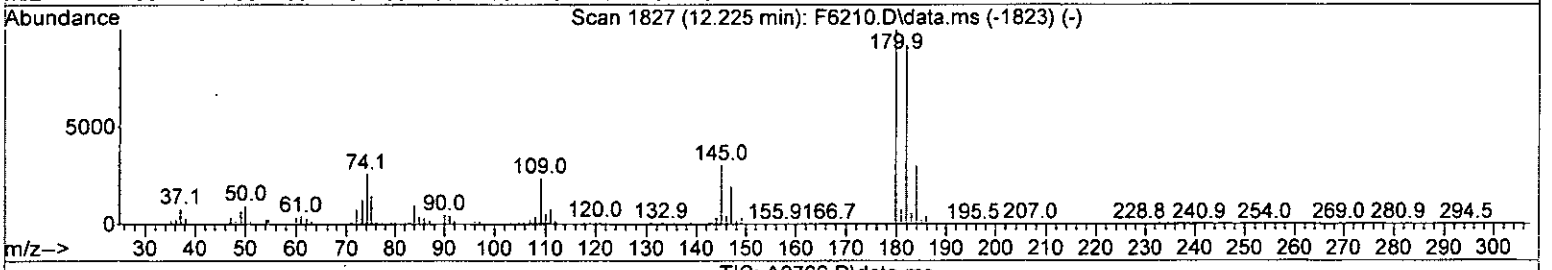
Quantitation Report (Qedit)

Sample : MBLK
Data File : I:\ACQUDATA\msvoa10\data\100914\A2766.D Vial: 5
Acq On : 9 Oct 2014 12:00 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 12:13:13 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2766.D\data.ms

(115) 1,2,4-Tcbenzene (P)

12.274min (+0.043) 0.24 ug/L m

response 2336

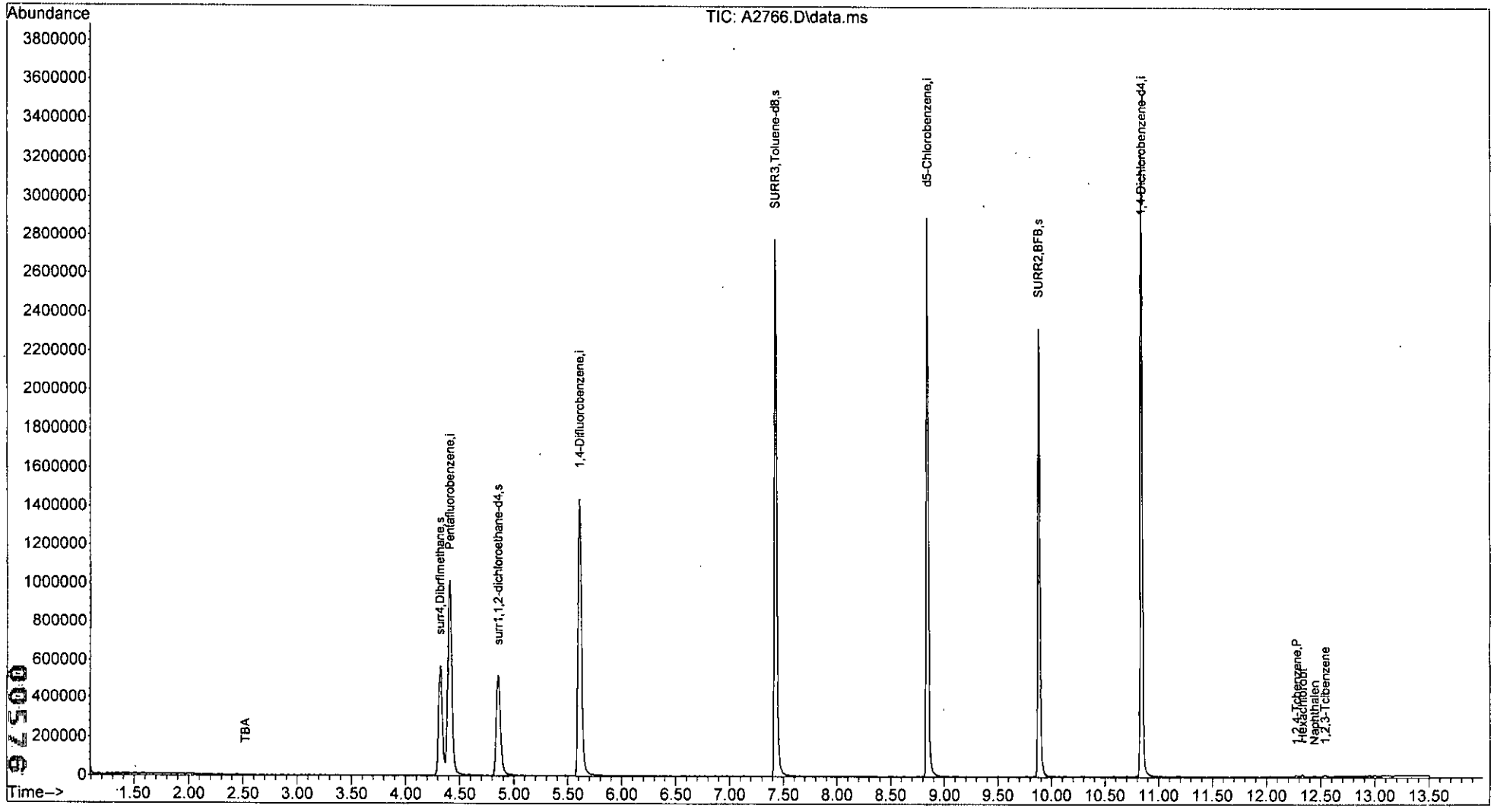
Ion	Exp%	Act%
180.00	100	100
182.00	91.20	53.32#
145.00	29.60	24.58
0.00	0.00	0.00

W072114.M Tue Oct 14 13:59:56 2014 MSVO10 Page: 1

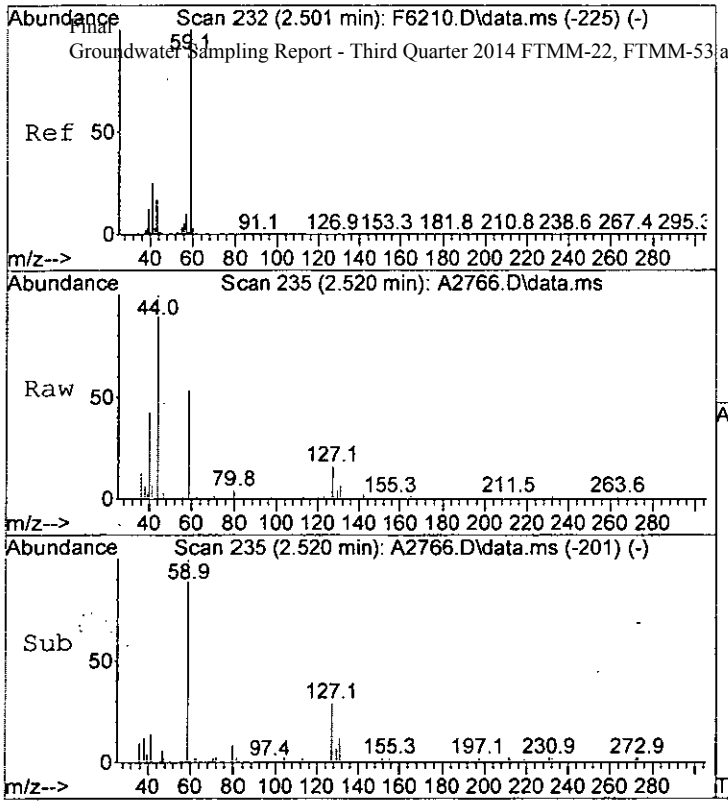
Quantitation Report (QT Reviewed)

Sample : MBLR
Data File : I:\ACQUDATA\msvoa10\data\100914\A2766.D Vial: 5
Acq On : 9 Oct 2014 12:00 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 13:59:53 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



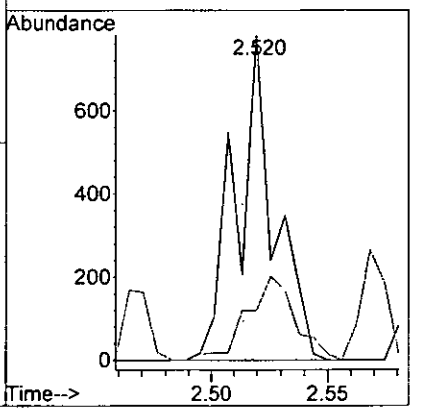
W072114.M Tue Oct 14 14:01:02 2014 MSVO10

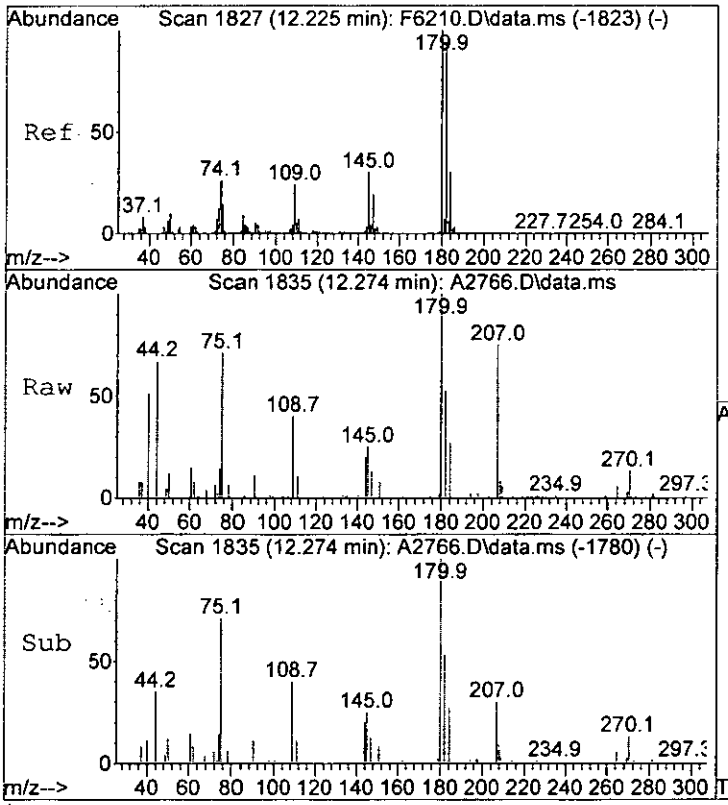


#23
TBA
Concen: 1.85 ug/L
RT: 2.520 min Scan# 235
Delta R.T. 0.018 min
Lab File: A2766.D
Acq: 9 Oct 2014 12:00 pm

Tgt Ion: 59 Resp: 888

Ion	Ratio	Lower	Upper
59	100		
41	15.1	2.8	42.8

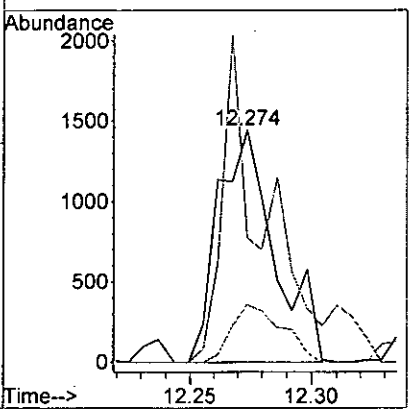


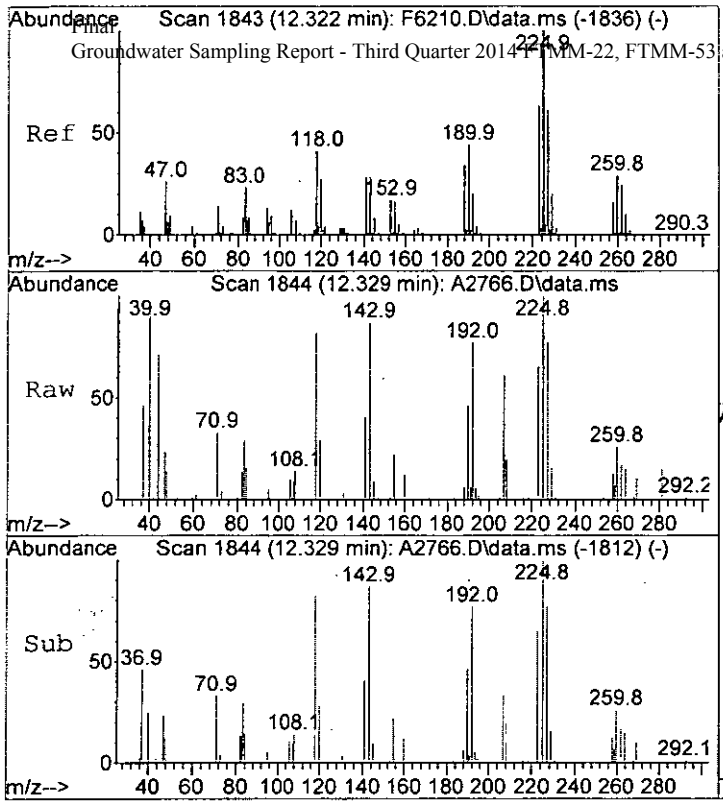


#115
1,2,4-Tcbenzene
Concen: 0.24 ug/L m
RT: 12.274 min Scan# 1835
Delta R.T. 0.043 min
Lab File: A2766.D
Acq: 9 Oct 2014 12:00 pm

Tgt Ion:180 Resp: 2336

Ion	Ratio	Lower	Upper
180	100		
182	53.3	71.2	111.2#
145	24.6	9.6	49.6

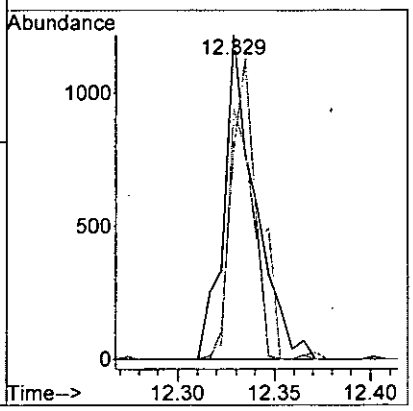


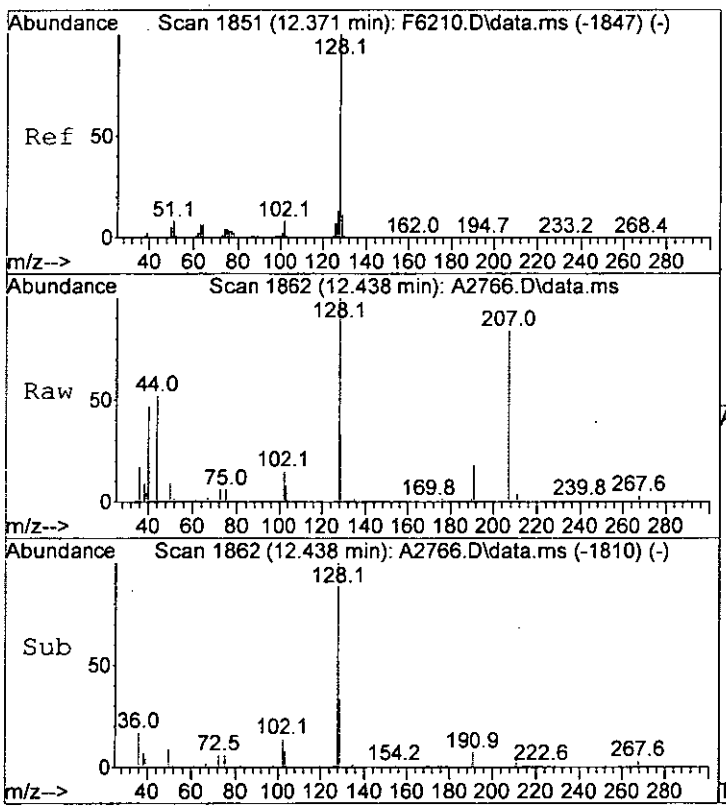


#116
Hexachlorobt
Concen: 0.35 ug/L
RT: 12.329 min Scan# 1844
Delta R.T. 0.000 min
Lab File: A2766.D
Acq: 9 Oct 2014 12:00 pm

Tgt Ion:225 Resp: 1376

Ion	Ratio	Lower	Upper
225	100		
223	64.8	43.0	83.0
227	77.3	43.6	83.6

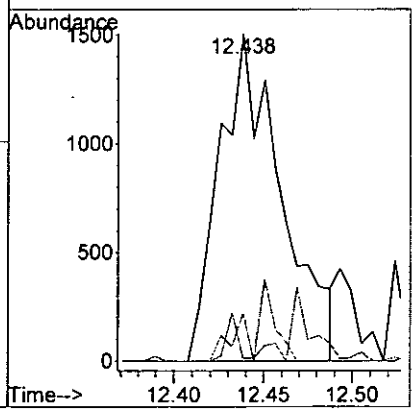


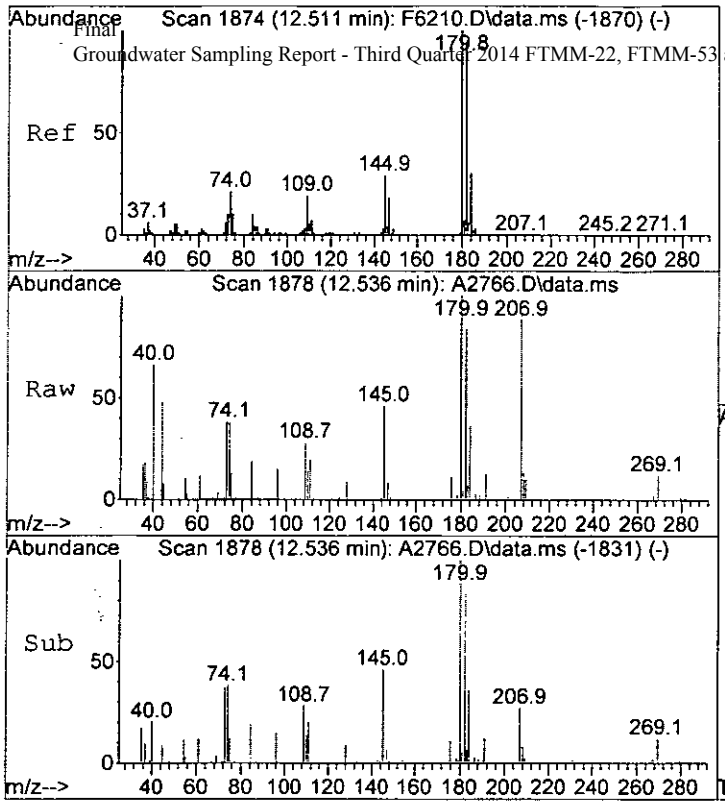


#117
Naphthalen
Concen: 0.22 ug/L
RT: 12.438 min Scan# 1862
Delta R.T. 0.061 min
Lab File: A2766.D
Acq: 9 Oct 2014 12:00 pm

Tgt Ion:128 Resp: 3623

Ion	Ratio	Lower	Upper
128	100		
127	0.9	0.0	32.9
102	14.5	0.0	28.7

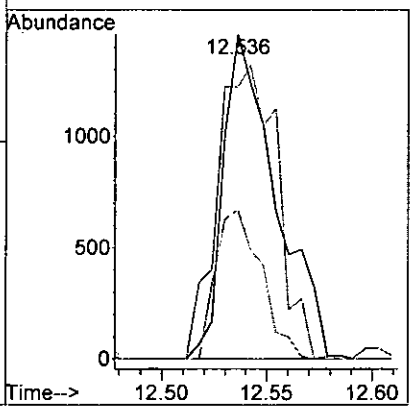




#118
1,2,3-Trichlorobenzene
Concen: 0.36 ug/L
RT: 12.536 min Scan# 1878
Delta R.T. 0.018 min
Lab File: A2766.D
Acq: 9 Oct 2014 12:00 pm

Tgt Ion:180 Resp: 2540

Ion	Ratio	Lower	Upper
180	100		
182	83.8	72.8	112.8
145	46.0	12.2	52.2



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\M00914
Data File : A2766.D
Acq On : 9 Oct 2014 12:00 pm
Operator : F.NAEGLER
Sample : MBLK
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2766.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.324	522	531	538	rBV	562866	1408077	32.96%	5.890%
2	4.409	538	545	566	rVB	1002506	2629061	61.54%	10.998%
3	4.854	609	618	636	rBV2	511804	1393328	32.61%	5.829%
4	5.610	731	742	761	rBV	1432940	3231258	75.64%	13.517%
5	7.427	1035	1040	1058	rBV	2774580	4272059	100.00%	17.871%
6	8.842	1267	1272	1292	rBV	2889356	3851209	90.15%	16.111%
7	9.878	1438	1442	1455	rVB	2310987	3047746	71.34%	12.750%
8	10.835	1594	1599	1616	rBV	3227193	4071635	95.31%	17.033%

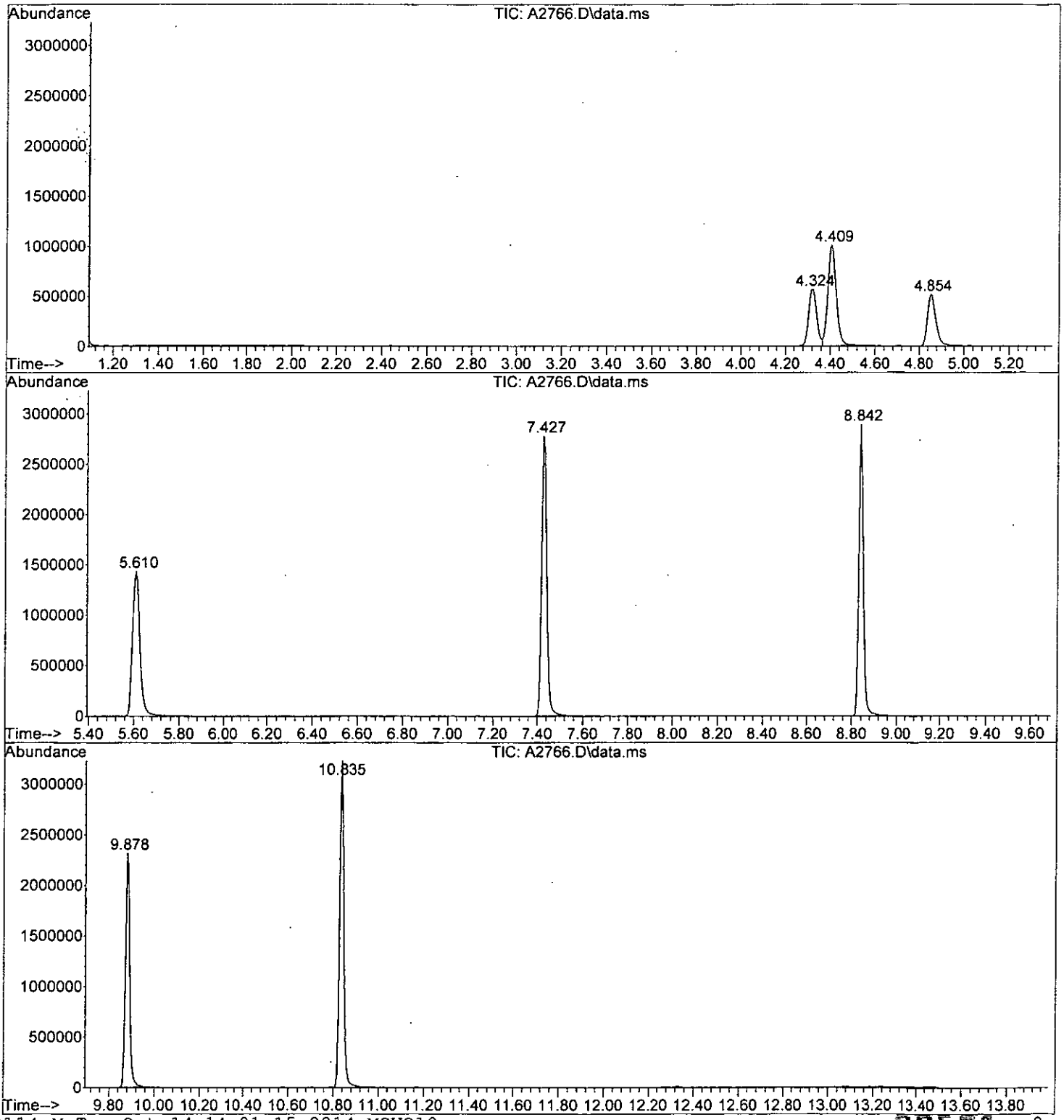
Sum of corrected areas: 23904373

LSC Report - Integrated Chromatogram

```
Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2766.D
Acq On    :  9 Oct 2014  12:00 pm
Operator  : F.NAEGLER
Sample    : MBLK
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title  : MS#10 - 8260B WATERS 10mL Purge

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



W072114.M Tue Oct 14 14:01:15 2014 MSVO10 Page: 2

Tentatively Identified Compound (LSC) Summary

Data Path : I:\ACQUDATA\msvoa10\data\100914\
Data File : A2766.D
Acq On : 9 Oct 2014 12:00 pmm
Operator : F.NAEGLERR
Sample : MBLKK
Misc :
ALS Vial : 5 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 11:39
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412540-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2942.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	**0.58**	J	5.0	1.0	0.29	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: NA
Date Received: NA
Date Analyzed: 10/14/14 11:39

Sample Name: Method Blank
Lab Code: RQ1412540-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2942.D\

Analysis Lot: 416090
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	0.32	
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	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 11:39
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1412540-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2942.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	75-120	10/14/14 11:39	
Dibromofluoromethane	103	85-115	10/14/14 11:39	
Toluene-d8	102	85-120	10/14/14 11:39	

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Analytical Report

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: NA
Date Received: NA
Date Analyzed: 10/14/14 1139

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

Sample Name: Method Blank
Lab Code: RQ1412540-01

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Qualification Report (QA Reviewed)

Sample : MBLK
Data File : I:\ACQUDATA\msvoa10\data\101414\A2942.D Vial: 5
Acq On : 14 Oct 2014 11:39 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

RQ1412542-01

Quant Time: Oct 15 15:03:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.403	168	989825	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1432156	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1328905	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	714253	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.324	113	471943	51.68	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.36%			
48) surr1,1,2-dichloroetha...	4.854	65	519184	53.87	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 107.74%			
65) SURR3,Toluene-d8	7.427	98	1638041	50.93	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.86%			
70) SURR2,BFB	9.878	95	654501	51.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.42%			
Target Compounds						Qvalue
5) Bromomethane	1.556	94	1576	0.58	ug/L #	35
23) TBA	2.519	59	2100m	4.09	ug/L	
115) 1,2,4-Tcbenzene	12.274	180	2359	0.21	ug/L	90
116) Hexachlorobt	12.335	225	1436	0.32	ug/L	78
118) 1,2,3-Tclbenzene	12.542	180	3095	0.38	ug/L	84

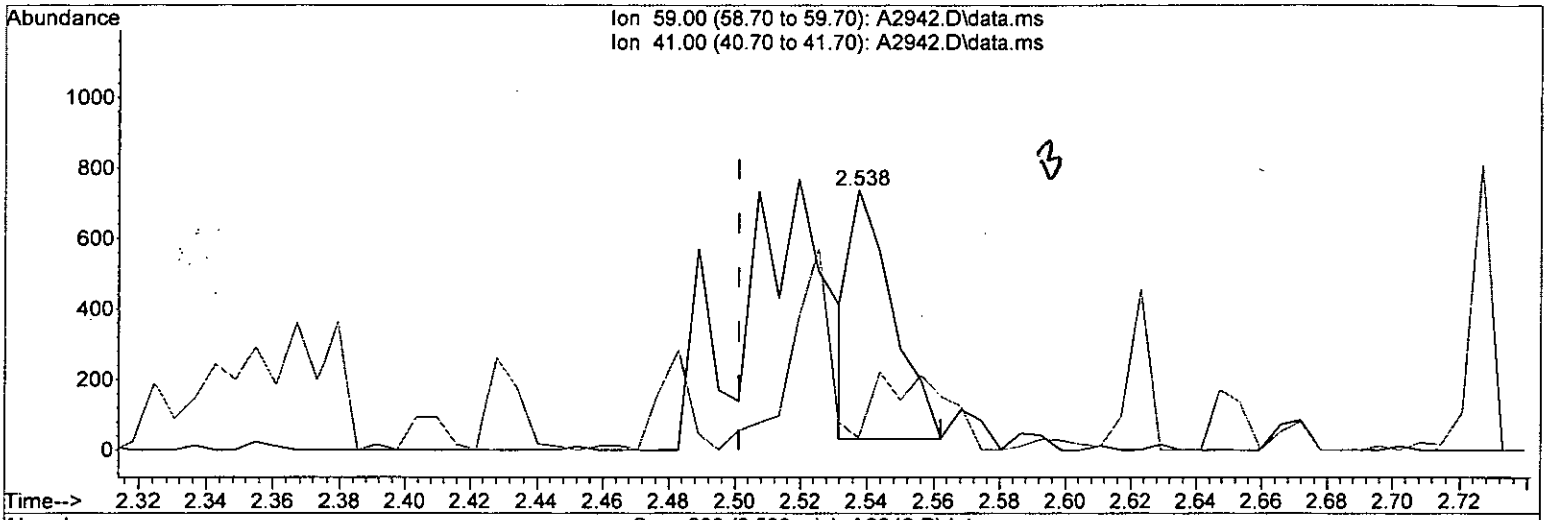
(#) = qualifier out of range (m) = manual integration (+) = signals summed

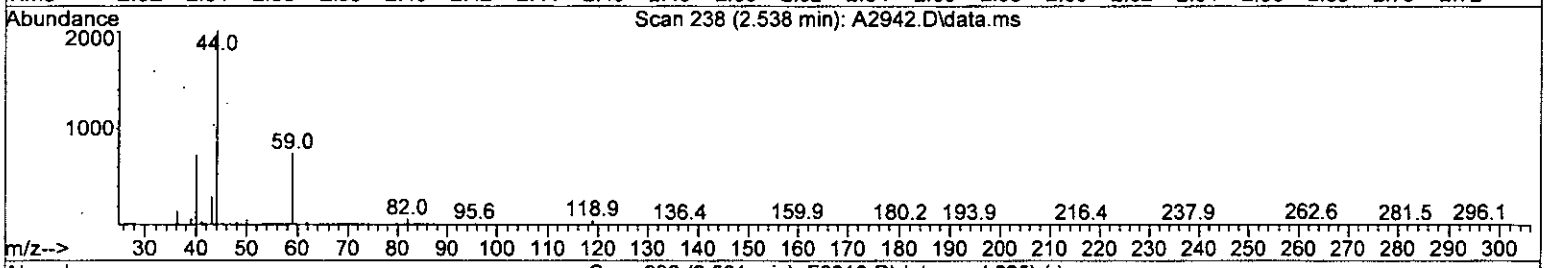
FD 10/15/14

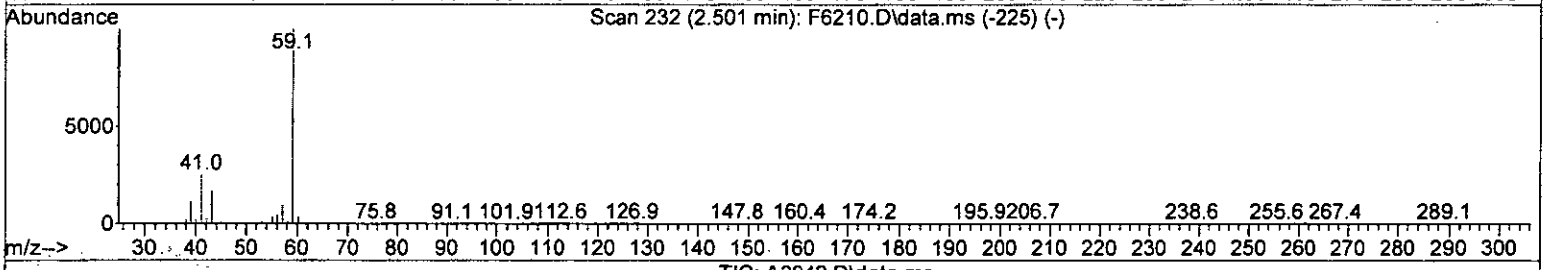
Quantitation Report (Qedit)

Sample : MBLK
Data File : I:\ACQUDATA\msvoa10\data\101414\A2942.D Vial: 5
Acq On : 14 Oct 2014 11:39 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 11:53:01 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2942.D\data.ms

(23) TBA

2.538min (+0.037) 1.18 ug/L

response 606

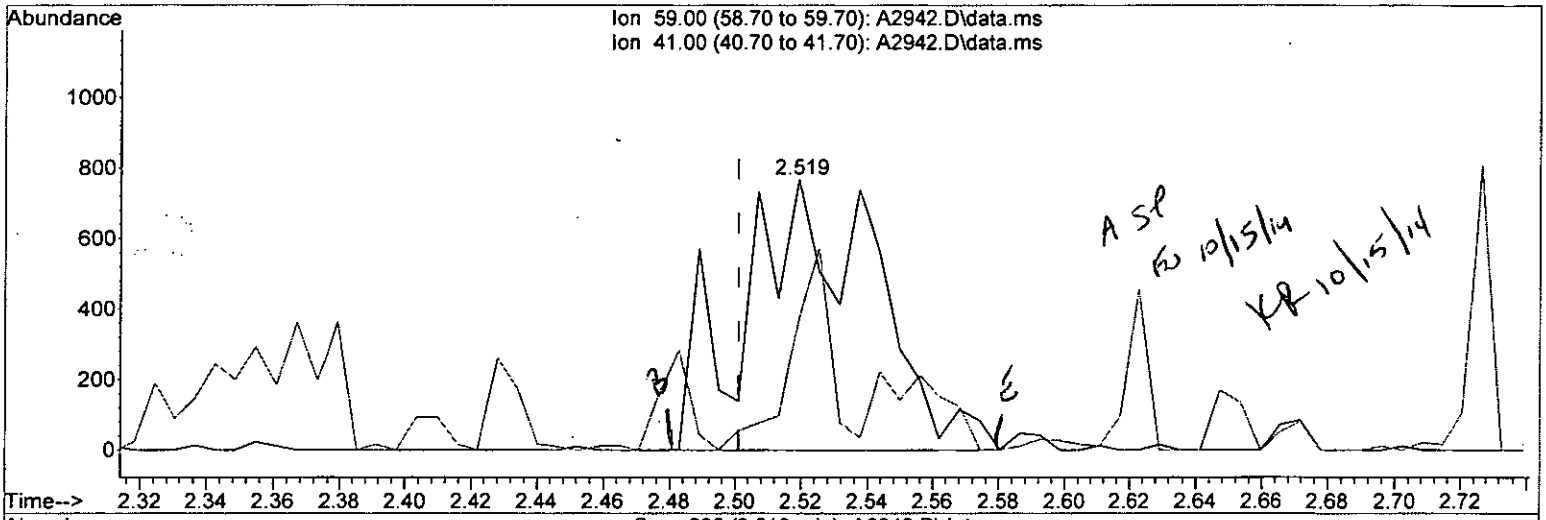
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	4.75
0.00	0.00	0.00
0.00	0.00	0.00

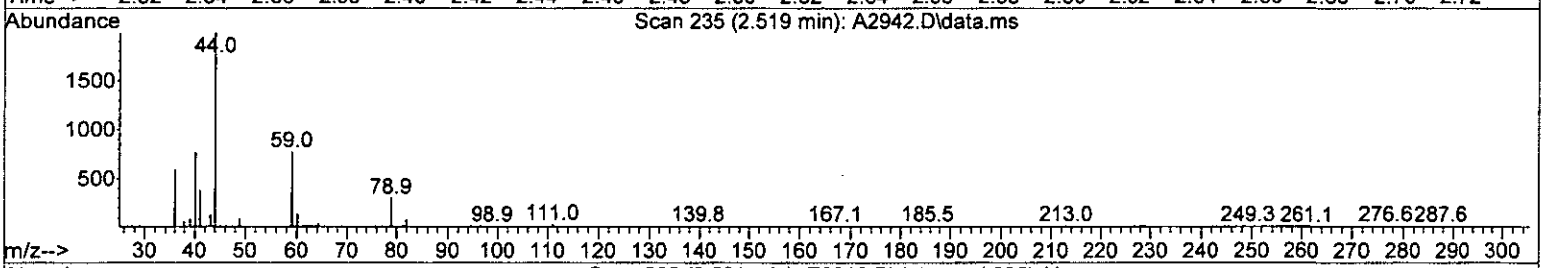
W072114.M Wed Oct 15 15:02:21 2014 MSVO10 Page: 1

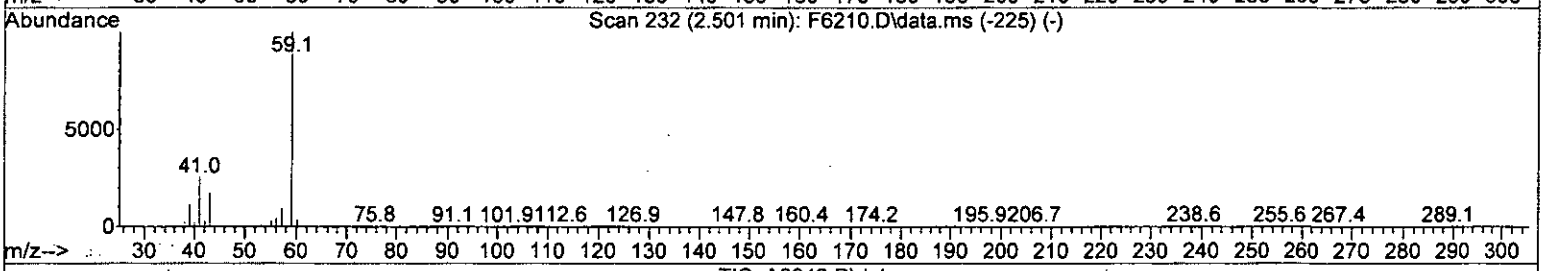
Quantitation Report (Qedit)

Sample : MBLK
Data File : I:\ACQUDATA\msvoa10\data\101414\A2942.D Vial: 5
Acq On : 14 Oct 2014 11:39 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 11:53:01 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2942.D\data.ms

(23) TBA

2.519min (+0.018) 4.09 ug/L m

response 2100

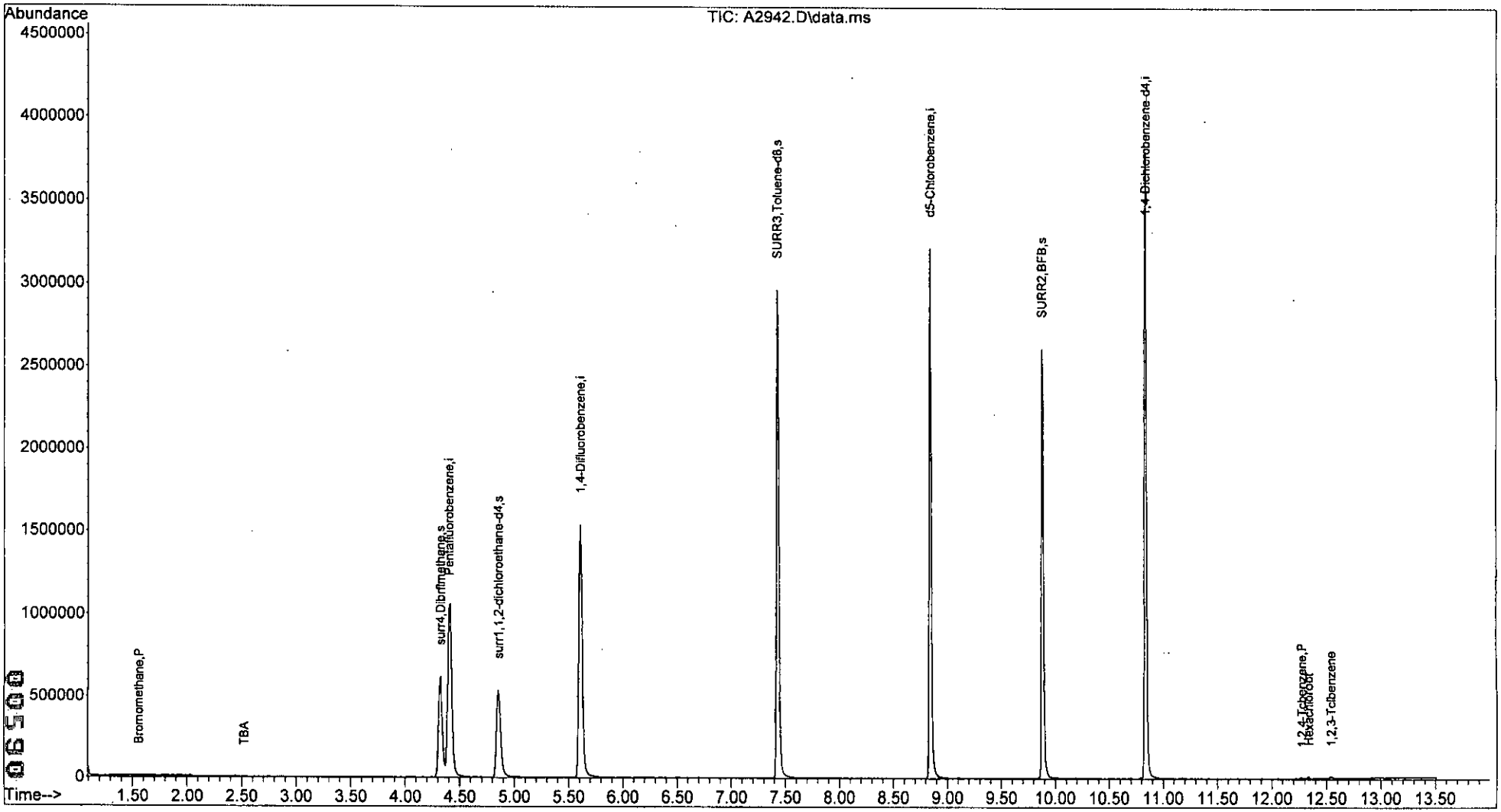
Ion	Exp%	Act%
59.00	100	100
41.00	22.80	49.09#
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Wed Oct 15 15:02:30 2014 MSVO10 Page: 1

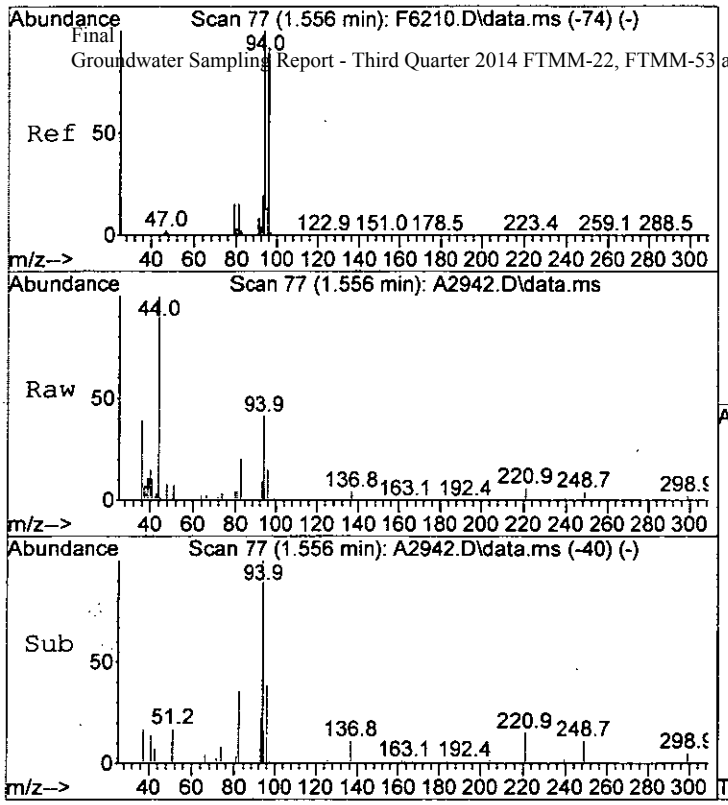
Quantitation Report (QT Reviewed)

Sample : MBLK
Data File : I:\ACQUDATA\msvoa10\data\101414\A2942.D Vial: 5
Acq On : 14 Oct 2014 11:39 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 15 15:03:40 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



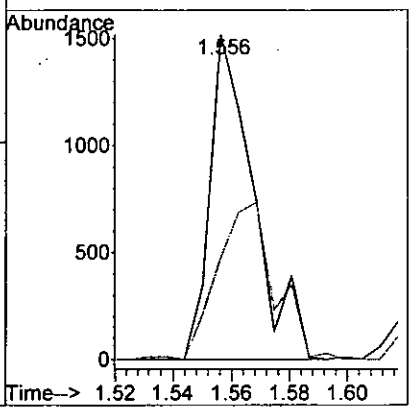
W072114.M Wed Oct 15 15:04:47 2014 MSVO10

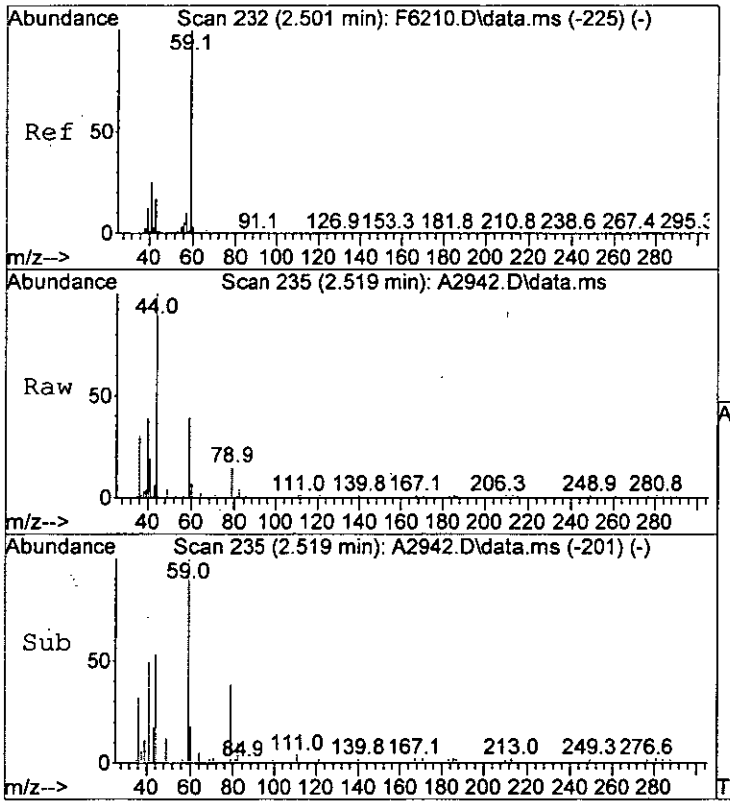


#5
Bromomethane
Concen: 0.58 ug/L
RT: 1.556 min Scan# 77
Delta R.T. 0.000 min
Lab File: A2942.D
Acq: 14 Oct 2014 11:39 am

Tgt Ion: 94 Resp: 1576

Ion	Ratio	Lower	Upper
94	100		
96	31.2	74.0	114.0#

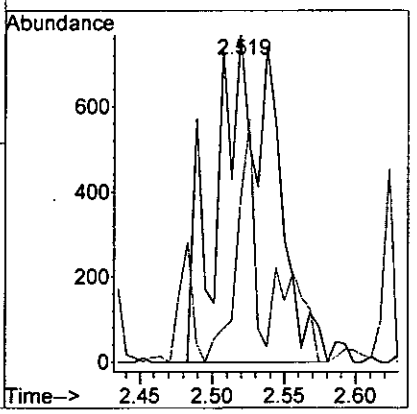


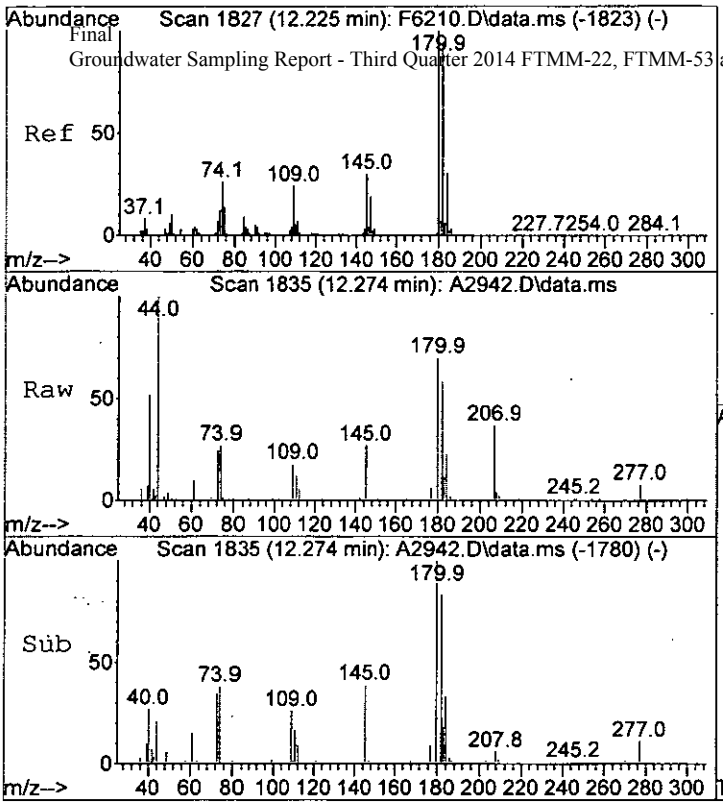


#23
TBA
Concen: 4.09 ug/L m
RT: 2.519 min Scan# 235
Delta R.T. 0.018 min
Lab File: A2942.D
Acq: 14 Oct 2014 11:39 am

Tgt Ion: 59 Resp: 2100

Ion	Ratio	Lower	Upper
59	100		
41	49.1	2.8	42.8#

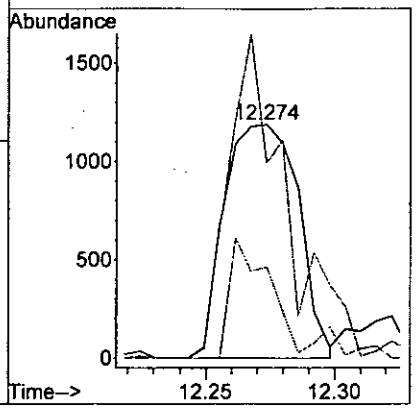


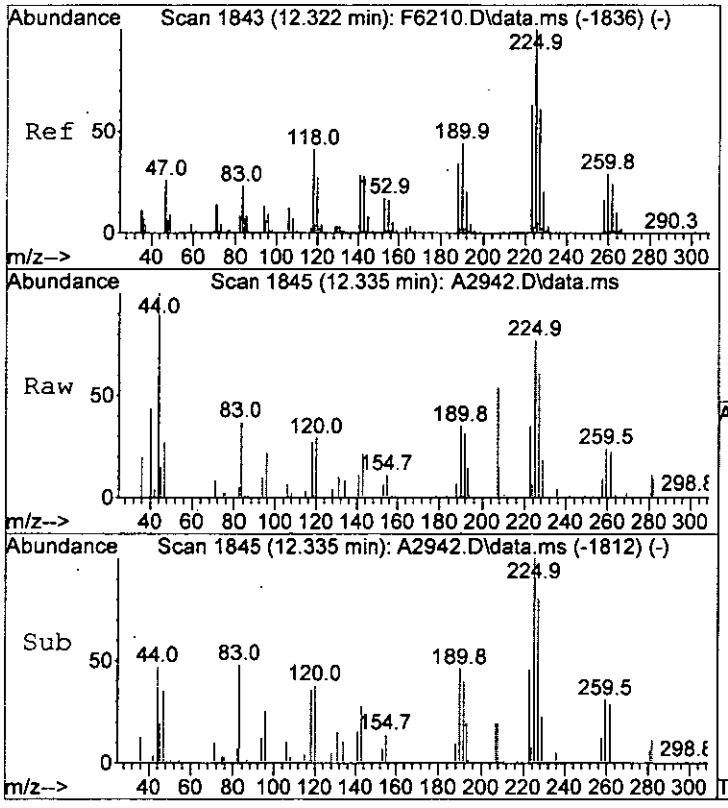


#115
1,2,4-Tcbenzene
Concen: 0.21 ug/L
RT: 12.274 min Scan# 1835
Delta R.T. 0.043 min
Lab File: A2942.D
Acq: 14 Oct 2014 11:39 am

Tgt Ion:180 Resp: 2359

Ion	Ratio	Lower	Upper
180	100		
182	83.6	71.2	111.2
145	38.9	9.6	49.6

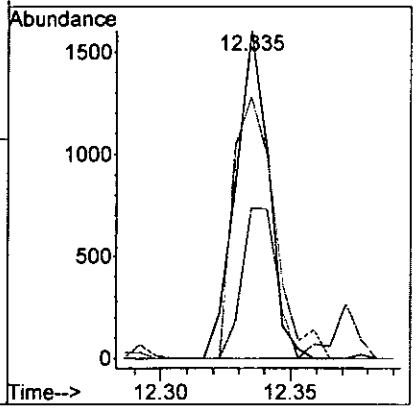


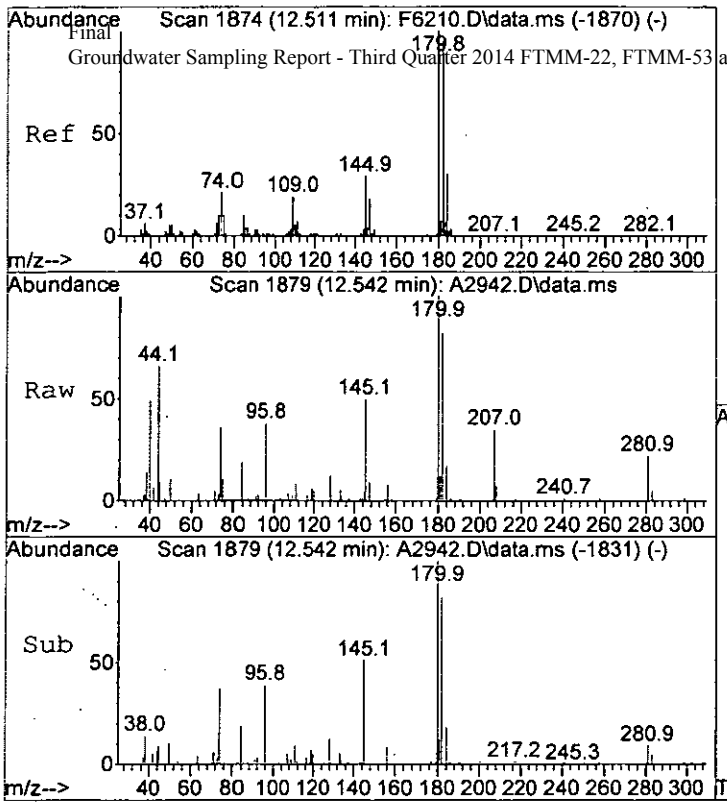


#116
Hexachlorobt
Concen: 0.32 ug/L
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: A2942.D
Acq: 14 Oct 2014 11:39 am

Tgt Ion:225 Resp: 1436

Ion	Ratio	Lower	Upper
225	100		
223	45.9	43.0	83.0
227	80.0	43.6	83.6

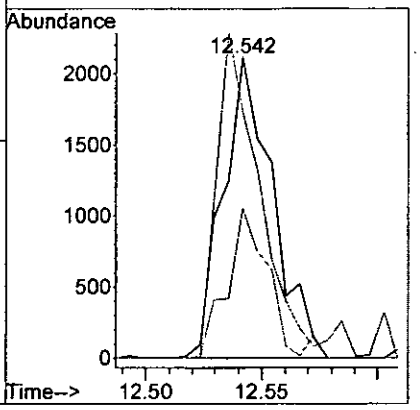




#118
1,2,3-Tclbenzene
Concen: 0.38 ug/L
RT: 12.542 min Scan# 1879
Delta R.T. 0.024 min
Lab File: A2942.D
Acq: 14 Oct 2014 11:39 am

Tgt Ion:180 Resp: 3095

Ion	Ratio	Lower	Upper
180	100		
182	81.9	72.8	112.8
145	49.6	12.2	52.2



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2942.D
Acq On : 14 Oct 2014 11:39 am
Operator : F.NAEGLER
Sample : MBLK
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\W072114.M
Title : MS#10 - 8260B WATERS 10mL Purge

Signal : TIC: A2942.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.324	520	531	538	rBV	619365	1513045	32.83%	5.815%
2	4.409	538	545	562	rVB	1056982	2754863	59.77%	10.587%
3	4.854	609	618	632	rBV	536648	1439833	31.24%	5.533%
4	5.610	734	742	758	rBV	1535571	3445226	74.75%	13.240%
5	7.427	1035	1040	1056	rBV	2959224	4608942	100.00%	17.712%
6	8.841	1267	1272	1292	rBV	3211768	4281208	92.89%	16.452%
7	9.878	1438	1442	1454	rBV	2604728	3404399	73.87%	13.083%
8	10.835	1594	1599	1614	rBV	3794462	4574111	99.24%	17.578%

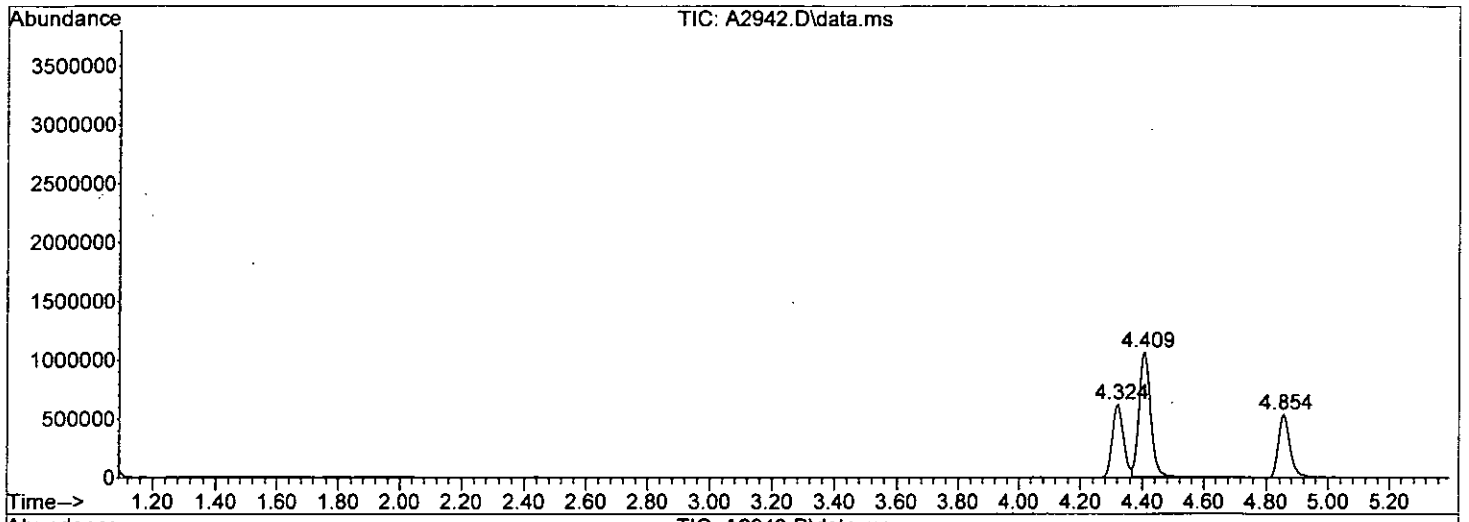
Sum of corrected areas: 26021627

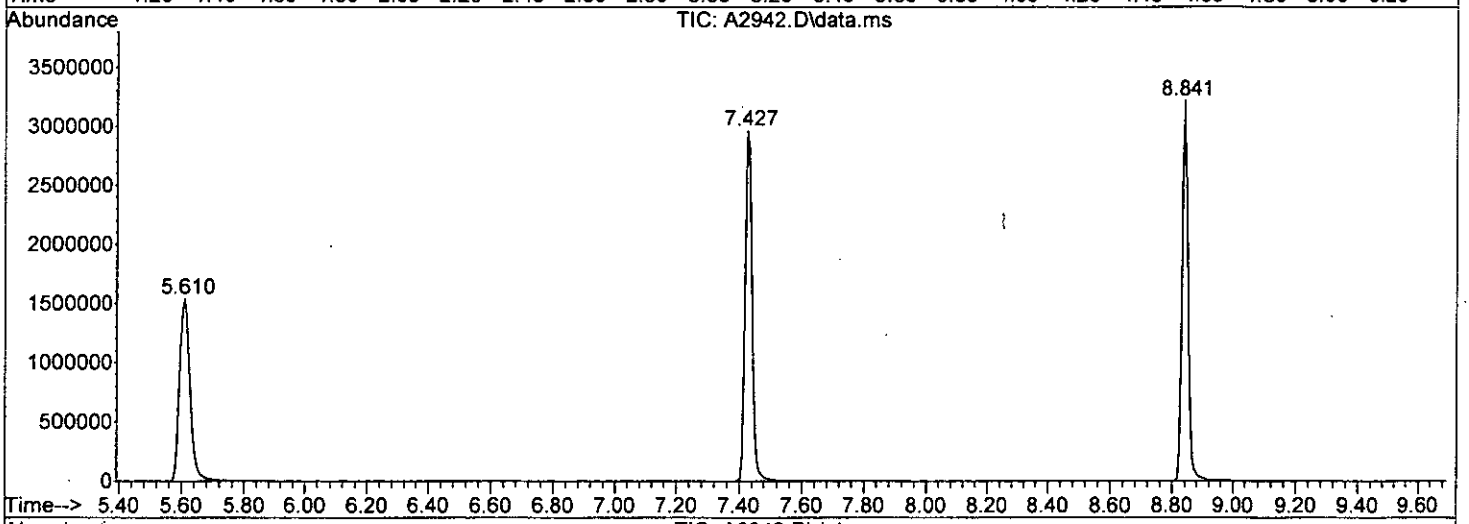
LSC Report - Integrated Chromatogram

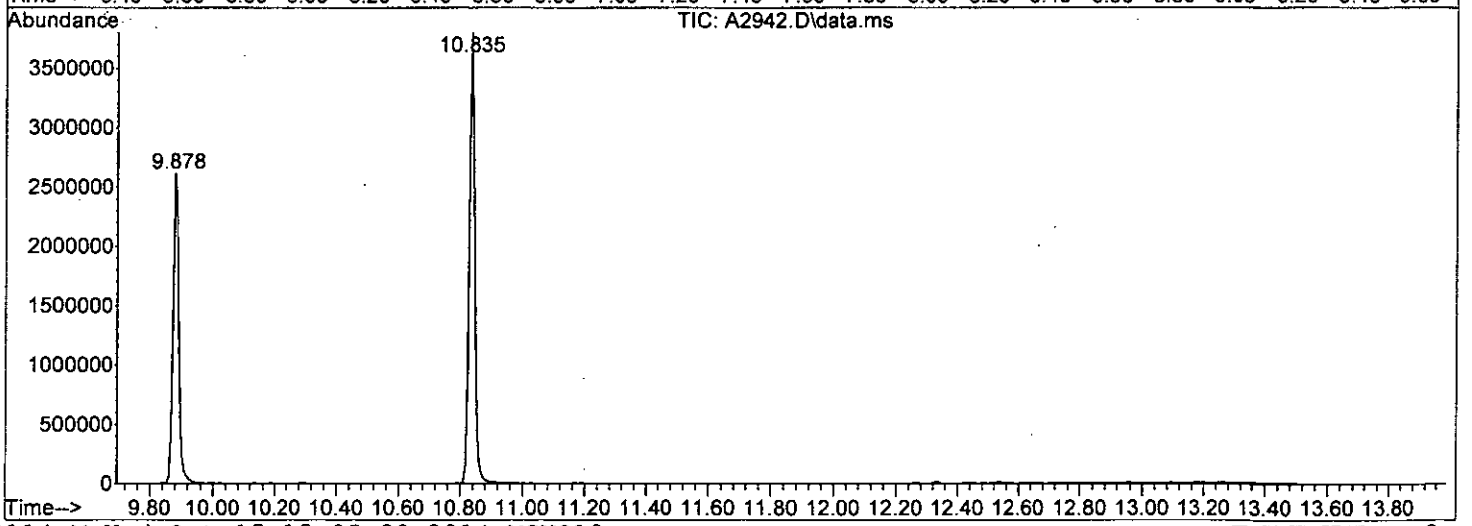
Data Path : I:\ACQUDATA\msvoa10\data\101414\
Data File : A2942.D
Acq On : 14 Oct 2014 11:39 am
Operator : F.NAEGLER
Sample : MBLK
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge

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







W072114.M Wed Oct 15 15:05:02 2014 MSVO10 Page: 2

Tentatively Identified Compound (TIC) Summary

Data Path : I:\ACQUDATA\msvoa10\data\101414\\
Data File : A2942.D
Acq On : 14 Oct 2014 11:39 amm
Operator : F.NAEGLERR
Sample : MBLKK
Misc :
ALS Vial : 5 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.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
****

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 11:00
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1412440-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2764.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	**19.4**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**19.3**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**20.1**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**18.5**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**17.8**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**20.3**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**20.1**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**21.8**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**19.6**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**19.8**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**19.1**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**21.0**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**20.9**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**18.5**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**20.2**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**19.1**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**18.9**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**18.6**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**20.2**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**18.4**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**19.9**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**17.8**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**19.6**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**19.2**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**397**		100	20	11	
106-43-4	4-Chlorotoluene	**19.9**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**18.7**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**19.3**		5.0	1.0	0.67	
67-64-1	Acetone	**16.1**		5.0	5.0	1.3	
71-43-2	Benzene	**19.0**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**19.2**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**17.1**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**20.6**		5.0	1.0	0.32	
75-25-2	Bromoform	**20.7**		5.0	1.0	0.42	
74-83-9	Bromomethane	**20.9**		5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 11:00
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1412440-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2764.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**20.2**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**18.9**		5.0	1.0	0.29	
75-00-3	Chloroethane	**17.7**		5.0	1.0	0.24	
67-66-3	Chloroform	**18.7**		5.0	1.0	0.25	
74-87-3	Chloromethane	**17.8**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**21.0**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**18.5**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**18.5**		5.0	1.0	0.32	
100-41-4	Ethylbenzene	**17.3**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**23.4**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**19.1**		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	**19.3**		5.0	1.0	0.20	
100-42-5	Styrene	**19.6**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**20.7**		5.0	1.0	0.30	
108-88-3	Toluene	**18.6**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**18.1**		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	**16.9**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**17.7**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**20.8**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**37.8**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**19.6**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**19.9**		5.0	1.0	0.20	
95-47-6	o-Xylene	**18.7**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**18.4**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**18.0**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**17.2**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**22.3**		5.0	1.0	0.20	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/9/14 11:00
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1412440-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2764.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	75-120	10/9/14 11:00	
Dibromofluoromethane	105	85-115	10/9/14 11:00	
Toluene-d8	101	85-120	10/9/14 11:00	

Quantitation Report (QT Reviewed)

Sample
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

RQ1412445-02

Quant Time: Oct 09 11:23:06 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

FV 10/14/14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.409	168	1017679	50.00	ug/L	0.00
43) 1,4-Difluorobenzene	5.610	114	1411302	50.00	ug/L	0.00
71) d5-Chlorobenzene	8.841	117	1231587	50.00	ug/L	0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	643374	50.00	ug/L	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.318	113	474427	52.72	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.44%			
48) surr1,1,2-dichloroetha...	4.854	65	518512	54.60	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 109.20%			
65) SURR3,Toluene-d8	7.427	98	1596228	50.36	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.72%			
70) SURR2,BFB	9.878	95	617163	49.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.190	85	202380	18.48	ug/L	96
3) Chloromethane	1.294	50	260242	17.82	ug/L	97
4) Vinyl Chloride	1.361	62	224803	16.85	ug/L	98
5) Bromomethane	1.556	94	75778	20.93	ug/L	96
6) Chloroethane	1.611	64	119297	17.65	ug/L	93
7) Freon 21	1.721	67	373049	19.87	ug/L	98
8) Trichlorofluoromethane	1.764	101	280844	18.59	ug/L	99
9) Diethyl Ether	1.934	59	141668	17.80	ug/L	81
10) Freon 123a	1.928	67	228707	19.35	ug/L	95
11) Freon 123	1.965	83	231560	18.41	ug/L	99
12) Acrolein	2.020	56	53607	43.07	ug/L	97
13) 1,1-Diclethene	2.099	96	144121	20.32	ug/L #	81
14) Freon 113	2.093	101	154627	17.26	ug/L	92
15) Acetone	2.123	43	50011	16.14	ug/L	94
16) 2-Propanol	2.196	45	155723	355.39	ug/L	98
17) Iodomethane	2.215	142	98712	16.67	ug/L	88
18) Carbon Disulfide	2.270	76	529109	17.63	ug/L	98
19) Acetonitrile	2.324	40	28612	86.14	ug/L	96
20) Allyl Chloride	2.349	76	78777	17.67	ug/L #	28
21) Methyl Acetate	2.355	43	119489	19.44	ug/L	87
22) Methylene Chloride	2.440	84	171810	18.46	ug/L #	73
23) TBA	2.495	59	209481	397.12	ug/L	84
24) Acrylonitrile	2.629	53	251268	88.24	ug/L	97
25) Methyl-t-Butyl Ether	2.660	73	401118	19.74	ug/L	92
26) trans-1,2-Dichloroethene	2.666	96	157668	17.24	ug/L #	79
28) 1,1-Diclethane	3.044	63	344901	17.84	ug/L	97
29) Vinyl Acetate	3.093	86	21220	18.65	ug/L #	12
30) DIPE	3.105	45	724604	16.32	ug/L	85
31) 2-Chloro-1,3-Butadiene	3.141	53	341024	17.93	ug/L	83
32) ETBE	3.501	59	487596	16.38	ug/L	90
33) 2,2-Dichloropropane	3.684	77	238596	19.92	ug/L	97
34) cis-1,2-Dichloroethene	3.678	96	176683	17.67	ug/L #	73
35) 2-Butanone	3.714	43	72614	17.78	ug/L	84
36) Propionitrile	3.769	54	88539	90.99	ug/L	92
37) Bromochloromethane	3.983	130	104921	17.06	ug/L #	65

W072114.M Thu Oct 09 11:25:07 2014 MSVO10

Quantitation Report (QT Reviewed)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 11:23:06 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.977	67	41564	18.81	ug/L	#	37
39)	Tetrahydrofuran	4.062	42	43225	19.11	ug/L		74
40)	Chloroform	4.086	83	314920	18.69	ug/L		96
41)	1,1,1-Trichloroethane	4.361	97	269690	19.34	ug/L		95
42)	TAME	5.177	73	351717	17.51	ug/L		91
44)	Cyclohexane	4.446	41	225390	17.64	ug/L		89
46)	Carbontetrachloride	4.611	121	72645	20.21	ug/L		83
47)	1,1-Dichloropropene	4.617	75	221403	20.06	ug/L		94
49)	Benzene	4.952	78	653609	18.95	ug/L		89
50)	1,2-Dichloroethane	4.989	62	241838	20.21	ug/L		91
51)	Iso-Butyl Alcohol	4.848	43	111019	396.02	ug/L		90
52)	n-Heptane	5.458	43	240266	18.47	ug/L	#	78
53)	1-Butanol	5.952	56	127468	1150.06	ug/L		86
54)	Trichloroethene	5.964	130	173893	18.08	ug/L		98
55)	Methylcyclohexane	6.214	55	254075	19.16	ug/L	#	81
56)	1,2-Diclpropane	6.257	63	192253	19.12	ug/L		98
57)	Dibromomethane	6.403	93	89849	18.53	ug/L		97
58)	1,4-Dioxane	6.464	88	24872m	434.69	ug/L		
59)	Methyl Methacrylate	6.464	69	72205	20.22	ug/L	#	70
60)	Bromodichloromethane	6.616	83	227121	20.63	ug/L		95
61)	2-Nitropropane	6.891	41	57569	41.46	ug/L		90
62)	2-Chloroethylvinyl Ether	7.006	63	69570	16.55	ug/L		88
63)	cis-1,3-Dichloropropene	7.147	75	242222	20.83	ug/L		93
64)	4-Methyl-2-pentanone	7.336	43	144786	19.25	ug/L		91
66)	Toluene	7.500	91	673215	18.62	ug/L		98
67)	trans-1,3-Dichloropropene	7.750	75	205331	22.31	ug/L		98
68)	Ethyl Methacrylate	7.872	69	148250	19.77	ug/L	#	66
69)	1,1,2-Trichloroethane	7.921	97	118009	18.50	ug/L		100
72)	Tetrachloroethene	8.055	164	147096	20.65	ug/L		98
73)	2-Hexanone	8.201	43	99978	19.21	ug/L		89
74)	1,3-Dichloropropane	8.085	76	212684m	20.15	ug/L		
75)	Dibromochloromethane	8.299	129	157834	20.98	ug/L		97
76)	N-Butyl Acetate	8.335	43	258580	22.32	ug/L		89
77)	1,2-Dibromoethane	8.396	107	124791	20.86	ug/L		99
79)	Chlorobenzene	8.866	112	448863	18.90	ug/L		98
81)	1,1,1,2-Tetrachloroethane	8.945	131	161277	19.41	ug/L		97
82)	Ethylbenzene	8.982	106	205204	17.34	ug/L		99
83)	(m+p)Xylene	9.085	106	551034	37.76	ug/L		95
84)	o-Xylene	9.433	106	267398	18.74	ug/L		97
85)	Styrene	9.445	104	464875	19.61	ug/L		98
86)	Bromoform	9.597	173	89222	20.65	ug/L		96
88)	Isopropylbenzene	9.756	105	683951	19.06	ug/L		95
89)	Cyclohexanone	9.823	55	310760	274.10	ug/L		99
90)	trans-1,4-Dichloro-2-B...	10.061	53	29704	17.27	ug/L		92
92)	1,1,2,2-Tetrachloroethane	10.006	83	142162	20.14	ug/L		99
93)	Bromobenzene	10.000	156	186887	19.24	ug/L		96
94)	1,2,3-Trichloropropane	10.042	110	38686	19.60	ug/L		92
95)	n-Propylbenzene	10.103	91	800456	19.94	ug/L		99
96)	2-Chlorotoluene	10.170	91	484347	19.55	ug/L		95
98)	4-Chlorotoluene	10.262	91	592269	19.87	ug/L		94
99)	1,3,5-Trimethylbenzene	10.250	105	551208	18.88	ug/L		99
100)	tert-Butylbenzene	10.518	119	441323	18.04	ug/L		98

Quantitation Report (QT Reviewed)

Sample : VCS
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 11:23:06 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	10.561	105	562814	19.07 ug/L	100
103) sec-Butylbenzene	10.695	105	630527	18.38 ug/L	99
104) p-Isopropyltoluene	10.817	119	557242	18.72 ug/L	98
105) 1,3-Dclbenz	10.780	146	345136	18.58 ug/L	97
106) 1,4-Dclbenz	10.853	146	354525	18.42 ug/L	97
109) n-Butylbenzene	11.140	91	494019	19.59 ug/L	98
110) 1,2-Dclbenz	11.152	146	322113	18.45 ug/L	99
111) 1,2-Dibromo-3-chloropr...	11.713	157	22577	21.01 ug/L	97
115) 1,2,4-Tcbenzene	12.225	180	196014	19.82 ug/L	95
116) Hexachlorobt	12.322	225	94726	23.40 ug/L	99
117) Naphthalen	12.377	128	328389	19.32 ug/L	99
118) 1,2,3-Tclbenzene	12.511	180	158287	21.83 ug/L	97

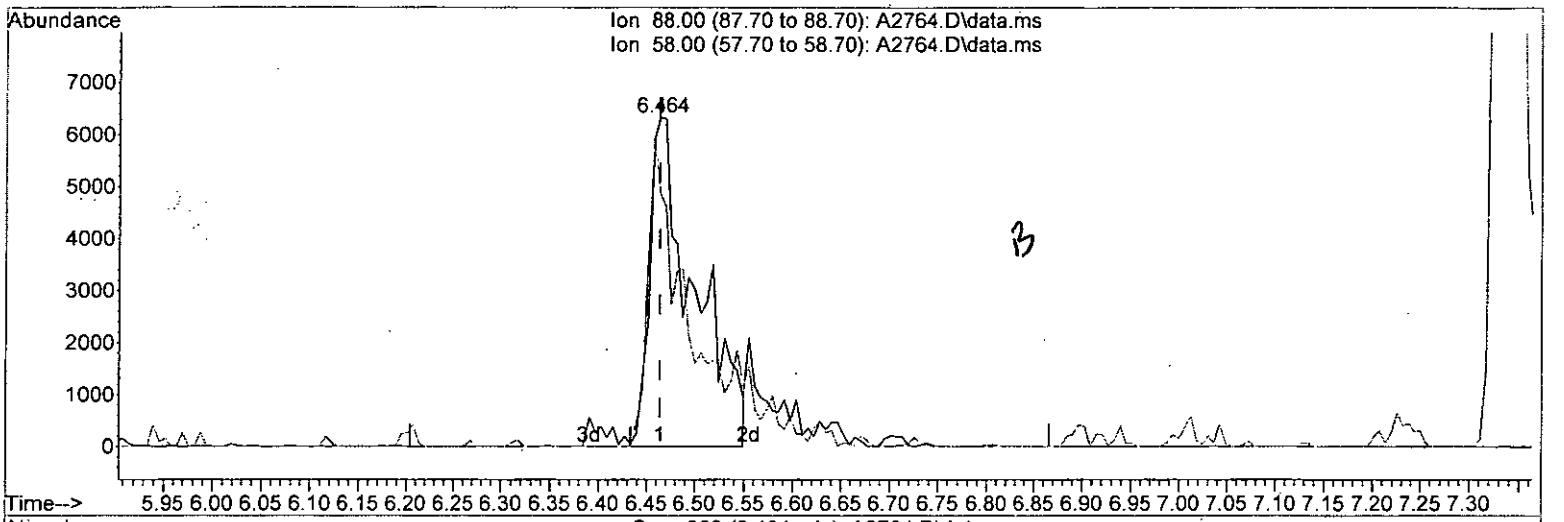
(#) = qualifier out of range (m) = manual integration (+) = signals summed

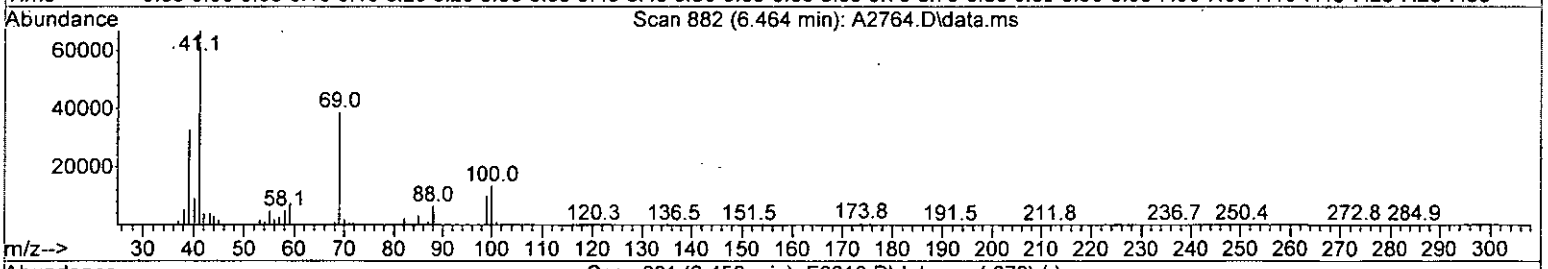
W072114.M Thu Oct 09 11:25:07 2014 MSVO10 Page: 3

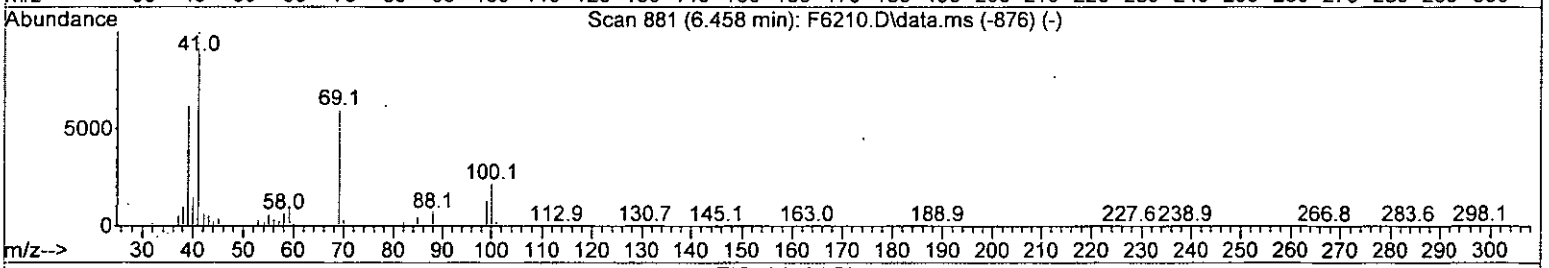
Quantitation Report (Qedit)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 11:13:43 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2764.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 354.62 ug/L

response 20291

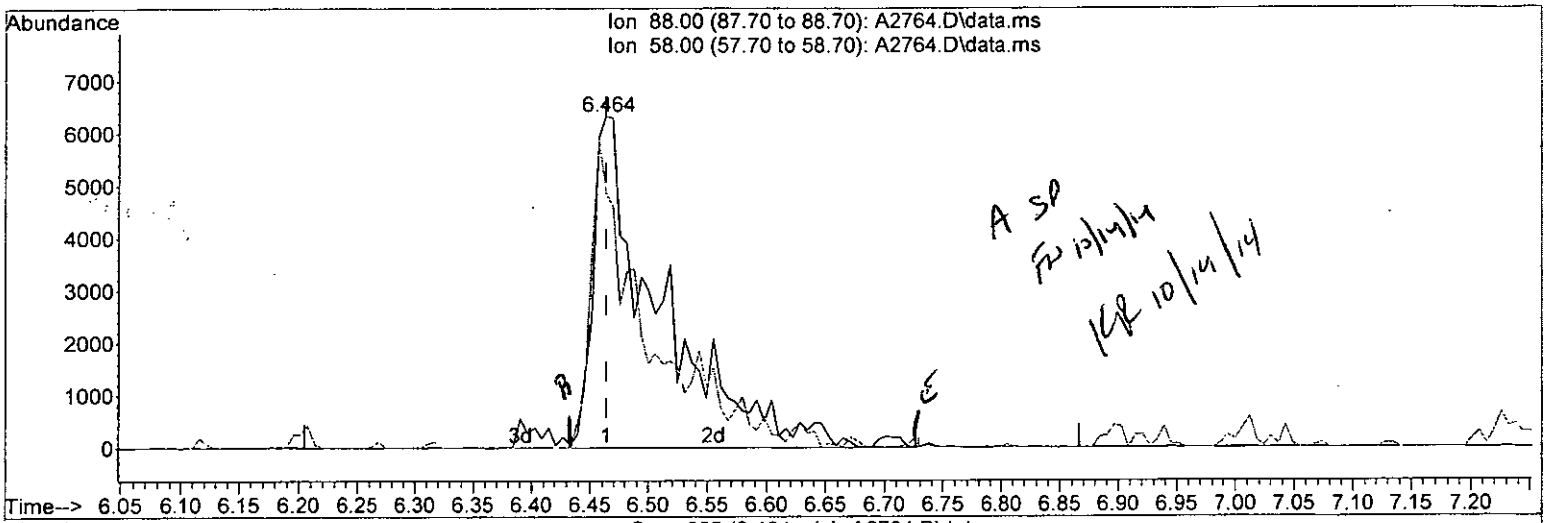
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	76.84
0.00	0.00	0.00
0.00	0.00	0.00

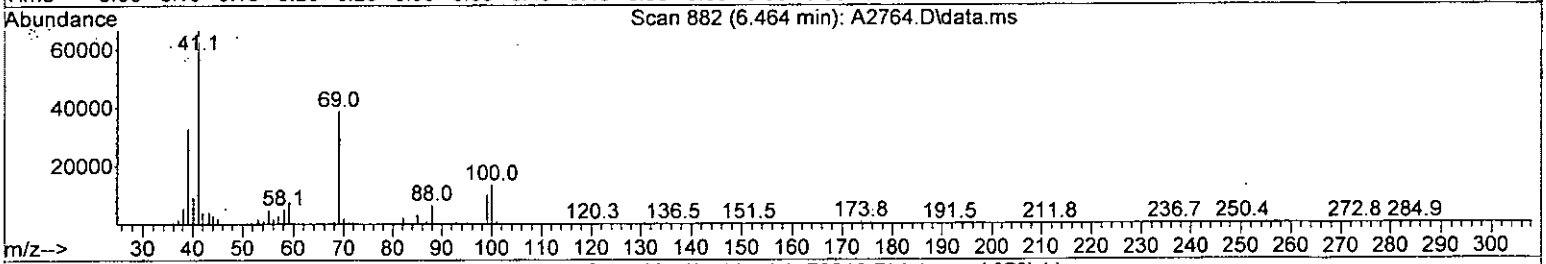
W072114.M Thu Oct 09 11:22:25 2014 MSVO10 Page: 1

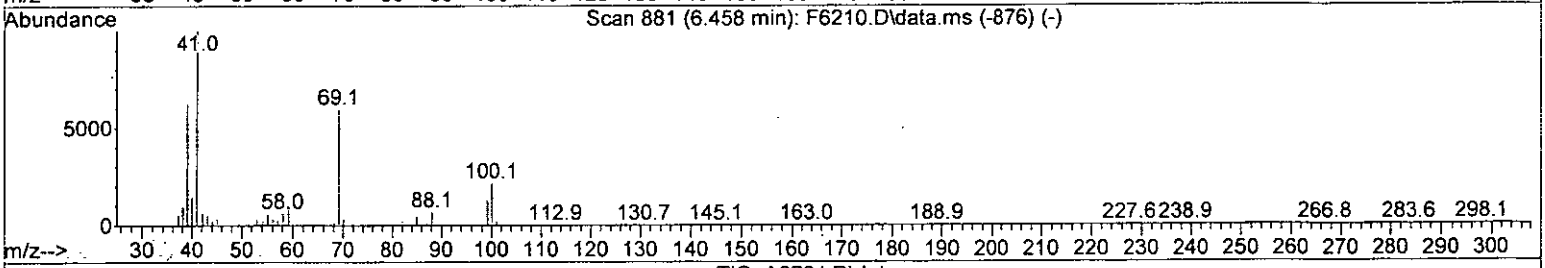
Quantitation Report (Qedit)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 11:13:43 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2764.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 434.69 ug/L m

response 24872

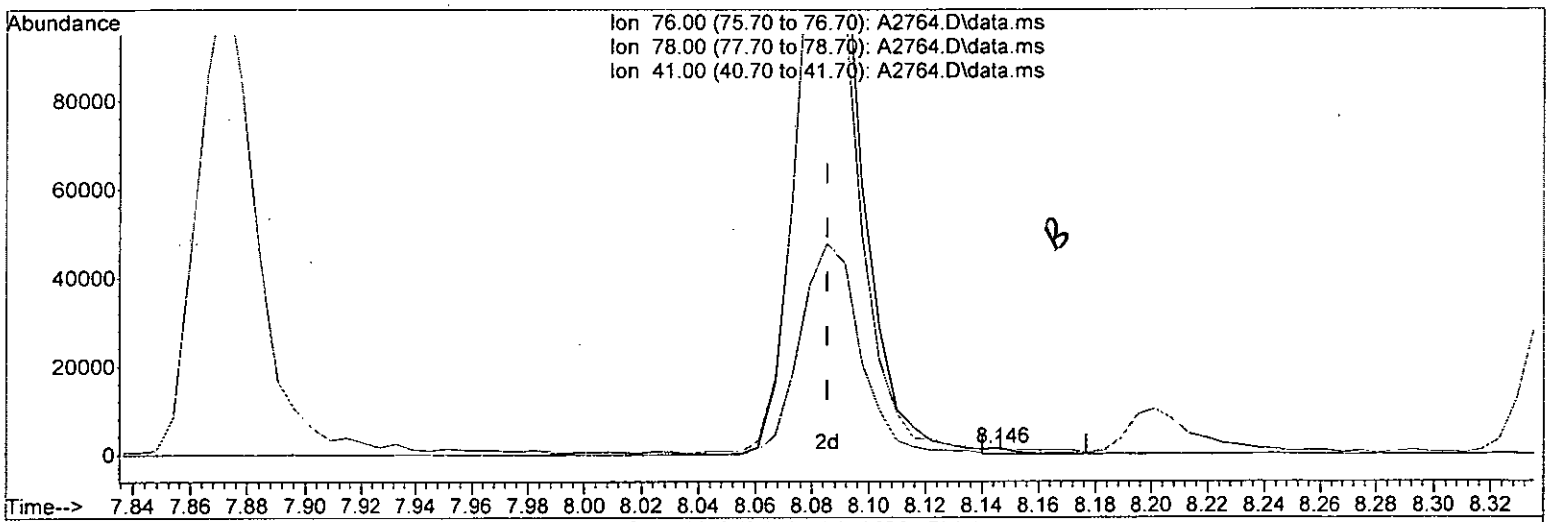
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	76.84
0.00	0.00	0.00
0.00	0.00	0.00

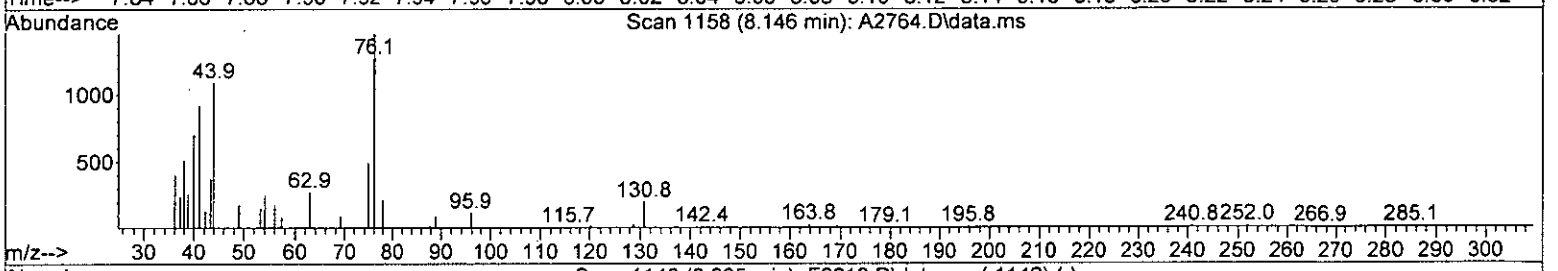
W072114.M Thu Oct 09 11:22:35 2014 MSVO10 Page: 1

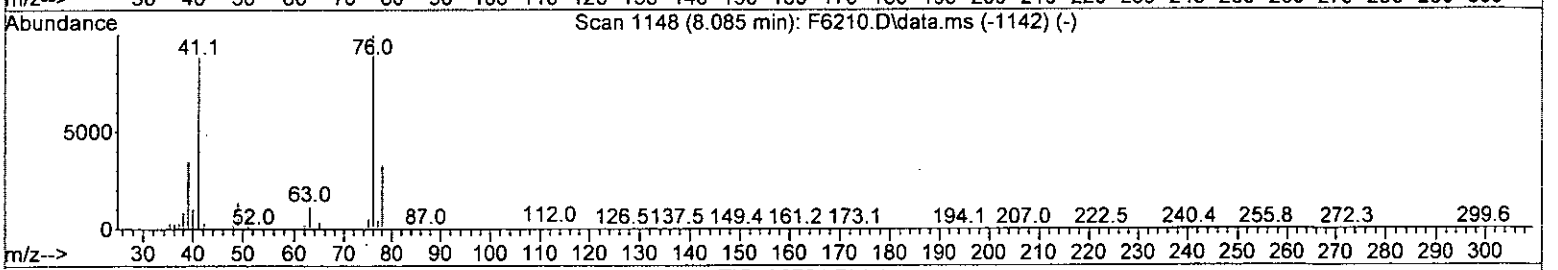
Quantitation Report (Qedit)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 11:13:43 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2764.D\data.ms

(74) 1,3-Dichloropropane

8.146min (+0.061) 0.09 ug/L

response 929

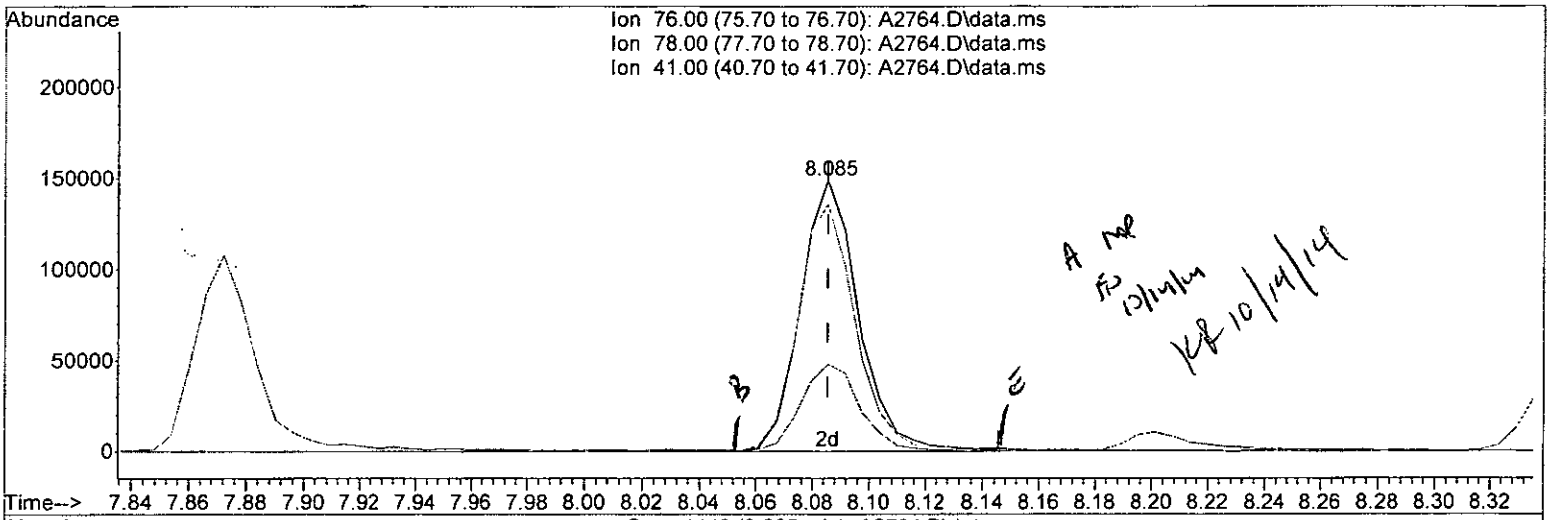
Ion	Exp%	Act%
76.00	100	100
78.00	31.70	14.58
41.00	66.30	63.27
0.00	0.00	0.00

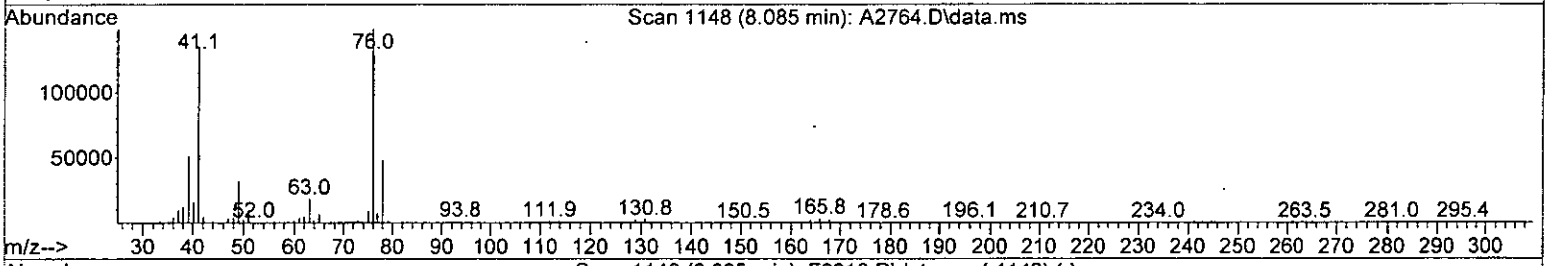
W072114.M Thu Oct 09 11:22:46 2014 MSVO10 Page: 1

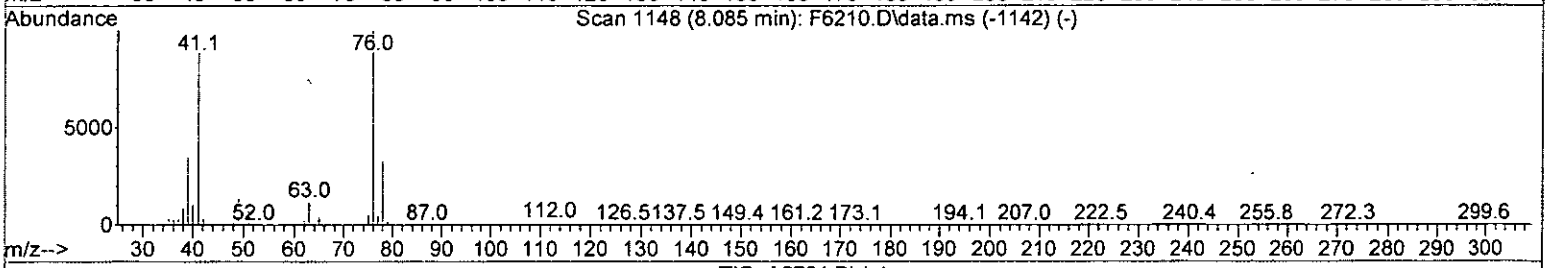
Quantitation Report (Qedit)

Sample : ICS
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
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Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2764.D\data.ms

(74) 1,3-Dichloropropane

8.085min (-0.000) 20.15 ug/L m

response 212684

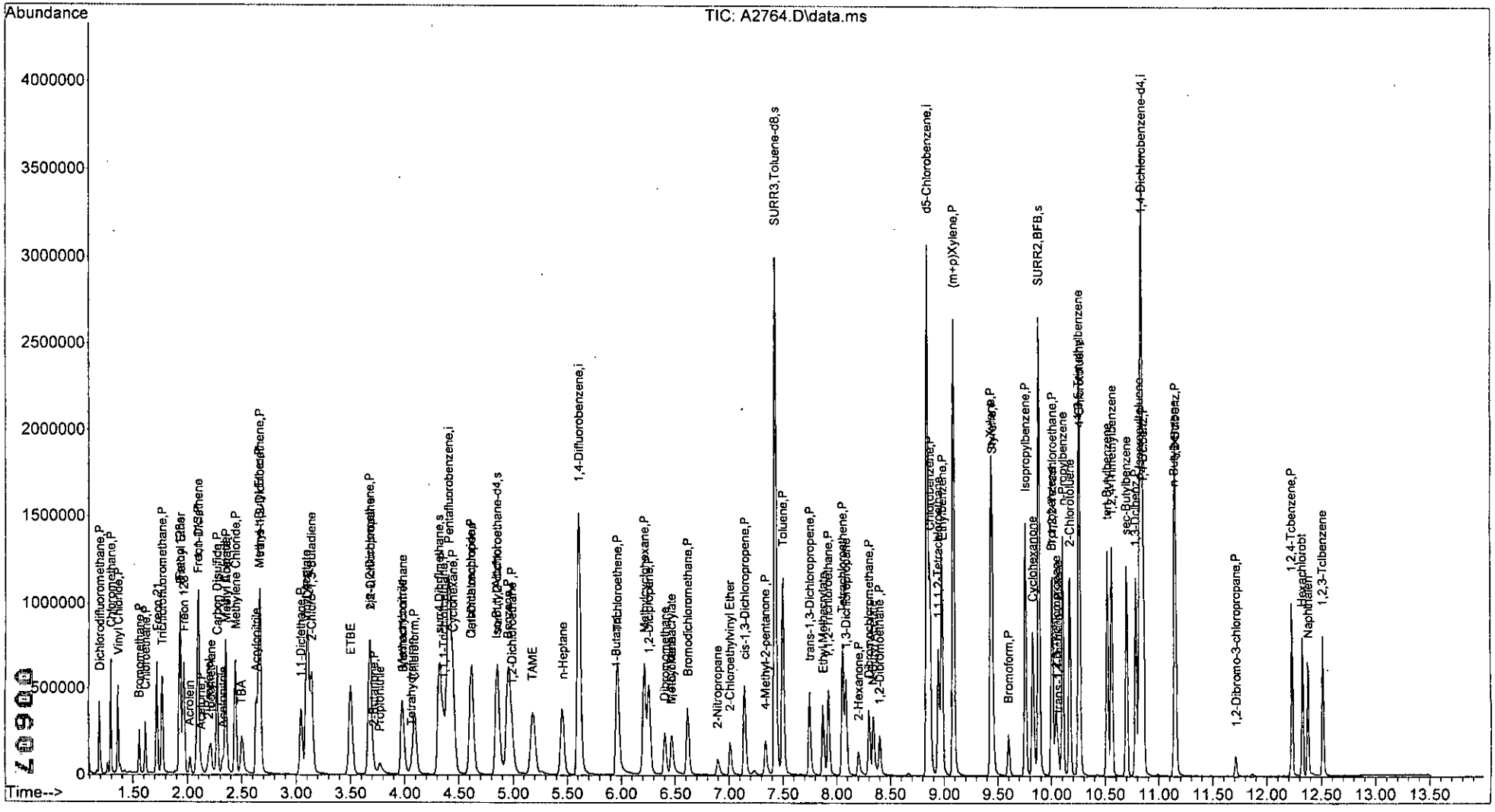
Ion	Exp%	Act%
76.00	100	100
78.00	31.70	32.03
41.00	66.30	91.01#
0.00	0.00	0.00

W072114.M Thu Oct 09 11:22:53 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\100914\A2764.D Vial: 3
Acq On : 9 Oct 2014 11:00 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 09 11:23:06 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Thu Oct 09 11:25:10 2014 MSVO10

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 10:40
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1412540-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2940.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	**20.9**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**21.5**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**22.0**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**21.7**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**20.4**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**23.4**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**23.0**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**22.0**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**20.7**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**20.7**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**19.9**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**21.3**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**22.7**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**19.8**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**23.3**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**21.4**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**19.7**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**19.8**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**22.0**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**19.9**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**22.7**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**20.4**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**20.4**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**21.0**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**477**		100	20	11	
106-43-4	4-Chlorotoluene	**20.7**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**19.6**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**21.3**		5.0	1.0	0.67	
67-64-1	Acetone	**20.4**		5.0	5.0	1.3	
71-43-2	Benzene	**21.3**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**20.5**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**20.8**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**23.8**		5.0	1.0	0.32	
75-25-2	Bromoform	**23.0**		5.0	1.0	0.42	
74-83-9	Bromomethane	**24.4**		5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 10:40
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1412540-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**22.6**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**20.4**		5.0	1.0	0.29	
75-00-3	Chloroethane	**20.3**		5.0	1.0	0.24	
67-66-3	Chloroform	**21.4**		5.0	1.0	0.25	
74-87-3	Chloromethane	**21.6**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**23.3**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**21.4**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**21.6**		5.0	1.0	0.32	
100-41-4	Ethylbenzene	**19.3**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**23.7**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**20.6**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**22.8**		5.0	1.0	0.29	
91-20-3	Naphthalene	**20.8**		5.0	1.0	0.20	
100-42-5	Styrene	**21.5**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**21.3**		5.0	1.0	0.30	
108-88-3	Toluene	**20.5**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**20.0**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**21.5**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**19.7**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**20.4**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**24.9**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**41.6**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**20.5**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**20.7**		5.0	1.0	0.20	
95-47-6	o-Xylene	**20.5**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**19.0**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**18.9**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**20.5**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**25.2**		5.0	1.0	0.20	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	10/14/14 10:40
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1412540-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2940.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	10/14/14 10:40	
Dibromofluoromethane	103	85-115	10/14/14 10:40	
Toluene-d8	102	85-120	10/14/14 10:40	

Quantitation Report (QT Reviewed)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

RQM1254-02
FN
10/14/14

Quant Time: Oct 14 10:58:19 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.403	168	1007470	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1435494	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1308582	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	734627	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	470204	51.37	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.74%				
48) surr1,1,2-dichloroetha...	4.854	65	509959	52.79	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 105.58%				
65) SURR3,Toluene-d8	7.427	98	1644334	51.01	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.02%				
70) SURR2,BFB	9.878	95	681602	53.73	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.46%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	231497	21.35	ug/L		97
3) Chloromethane	1.294	50	311826	21.57	ug/L		99
4) Vinyl Chloride	1.361	62	259960	19.69	ug/L		97
5) Bromomethane	1.556	94	88518	24.43	ug/L		99
6) Chloroethane	1.611	64	135528	20.26	ug/L		96
7) Freon 21	1.715	67	434283	23.37	ug/L		97
8) Trichlorofluoromethane	1.770	101	321660	21.50	ug/L		98
9) Diethyl Ether	1.934	59	167042	21.20	ug/L		83
10) Freon 123a	1.928	67	267375	22.85	ug/L		99
11) Freon 123	1.965	83	263386	21.15	ug/L		95
12) Acrolein	2.020	56	63190	51.28	ug/L		96
13) 1,1-Diclethene	2.099	96	163948	23.35	ug/L	#	78
14) Freon 113	2.093	101	167520	18.88	ug/L		95
15) Acetone	2.123	43	62687	20.43	ug/L		96
16) 2-Propanol	2.190	45	198541	457.69	ug/L		93
17) Iodomethane	2.215	142	121727	19.48	ug/L		100
18) Carbon Disulfide	2.270	76	541794	18.24	ug/L		100
19) Acetonitrile	2.324	40	48907	148.73	ug/L		93
20) Allyl Chloride	2.349	76	94595	21.43	ug/L	#	46
21) Methyl Acetate	2.355	43	126978	20.86	ug/L		90
22) Methylene Chloride	2.440	84	199414	21.64	ug/L	#	73
23) TBA	2.495	59	249060	476.93	ug/L		79
24) Acrylonitrile	2.629	53	303697	107.73	ug/L		99
25) Methyl-t-Butyl Ether	2.660	73	458844	22.81	ug/L		89
26) trans-1,2-Dichloroethene	2.666	96	185241	20.46	ug/L	#	82
28) 1,1-Diclethane	3.044	63	390042	20.37	ug/L		95
29) Vinyl Acetate	3.093	86	23545	20.91	ug/L	#	22
30) DIPE	3.105	45	796238	18.12	ug/L		86
31) 2-Chloro-1,3-Butadiene	3.141	53	365435	19.41	ug/L		84
32) ETBE	3.501	59	529586	17.97	ug/L		90
33) 2,2-Dichloropropane	3.678	77	269473	22.72	ug/L		96
34) cis-1,2-Dichloroethene	3.678	96	202397	20.44	ug/L	#	72
35) 2-Butanone	3.702	43	82519	20.41	ug/L		86
36) Propionitrile	3.775	54	102689	106.29	ug/L		96
37) Bromochloromethane	3.983	130	126833	20.83	ug/L	#	72

W072114.M Tue Oct 14 10:58:38 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:58:19 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.970	67	51881	23.71	ug/L	#	43
39)	Tetrahydrofuran	4.062	42	49251	21.99	ug/L		74
40)	Chloroform	4.092	83	356198	21.35	ug/L		90
41)	1,1,1-Trichloroethane	4.361	97	296672	21.50	ug/L		97
42)	TAME	5.184	73	385172	19.37	ug/L		90
44)	Cyclohexane	4.440	41	256322	19.72	ug/L		90
46)	Carbontetrachloride	4.623	121	82486	22.56	ug/L	#	77
47)	1,1-Dichloropropene	4.617	75	257902	22.97	ug/L		92
49)	Benzene	4.952	78	748409	21.33	ug/L		90
50)	1,2-Dichloroethane	4.982	62	284047	23.33	ug/L		91
51)	Iso-Butyl Alcohol	4.848	43	130157	456.47	ug/L		84
52)	n-Heptane	5.458	43	272211	20.57	ug/L	#	79
53)	1-Butanol	5.952	56	146344	1285.66	ug/L		85
54)	Trichloroethene	5.964	130	195713	20.01	ug/L		97
55)	Methylcyclohexane	6.214	55	277068	20.55	ug/L	#	84
56)	1,2-Diclpropane	6.257	63	218472	21.36	ug/L		98
57)	Dibromomethane	6.403	93	105753	21.45	ug/L		96
58)	1,4-Dioxane	6.464	88	27996m	481.04	ug/L		
59)	Methyl Methacrylate	6.464	69	85540m	23.55	ug/L		
60)	Bromodichloromethane	6.616	83	266905	23.84	ug/L		97
61)	2-Nitropropane	6.897	41	65978	46.72	ug/L		90
62)	2-Chloroethylvinyl Ether	7.006	63	64702	15.13	ug/L		92
63)	cis-1,3-Dichloropropene	7.147	75	294691	24.92	ug/L		93
64)	4-Methyl-2-pentanone	7.336	43	162534	21.25	ug/L		97
66)	Toluene	7.500	91	754202	20.51	ug/L		98
67)	trans-1,3-Dichloropropene	7.744	75	235869	25.20	ug/L		96
68)	Ethyl Methacrylate	7.872	69	175889	23.06	ug/L	#	58
69)	1,1,2-Trichloroethane	7.921	97	140436	21.65	ug/L		94
72)	Tetrachloroethene	8.055	164	161233	21.31	ug/L		98
73)	2-Hexanone	8.195	43	116376	21.04	ug/L		83
74)	1,3-Dichloropropane	8.085	76	246642	22.00	ug/L	#	75
75)	Dibromochloromethane	8.299	129	186454	23.33	ug/L		95
76)	N-Butyl Acetate	8.335	43	290061	23.57	ug/L		88
77)	1,2-Dibromoethane	8.396	107	144462	22.72	ug/L		94
79)	Chlorobenzene	8.866	112	514043	20.37	ug/L		99
81)	1,1,1,2-Tetrachloroethane	8.945	131	184742	20.92	ug/L		95
82)	Ethylbenzene	8.976	106	242491	19.29	ug/L		98
83)	(m+p)Xylene	9.085	106	645139	41.61	ug/L		98
84)	o-Xylene	9.433	106	310480	20.48	ug/L		98
85)	Styrene	9.445	104	541154	21.49	ug/L		98
86)	Bromoform	9.597	173	105410	22.96	ug/L		98
88)	Isopropylbenzene	9.756	105	784911	20.59	ug/L		99
89)	Cyclohexanone	9.823	55	432506	359.04	ug/L		97
90)	trans-1,4-Dichloro-2-B...	10.055	53	38850	21.06	ug/L		80
92)	1,1,2,2-Tetrachloroethane	10.006	83	177411	22.01	ug/L		97
93)	Bromobenzene	10.000	156	227442	20.51	ug/L		92
94)	1,2,3-Trichloropropane	10.042	110	46650	20.70	ug/L		93
95)	n-Propylbenzene	10.103	91	947841	20.68	ug/L		99
96)	2-Chlorotoluene	10.170	91	577152	20.40	ug/L		95
98)	4-Chlorotoluene	10.256	91	705665	20.74	ug/L		99
99)	1,3,5-Trimethylbenzene	10.250	105	656177	19.68	ug/L		98
100)	tert-Butylbenzene	10.518	119	528362	18.91	ug/L		98

W072114.M Tue Oct 14 10:58:38 2014 MSVO10 Page: 2

Quantitation Report (QT Reviewed)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:58:19 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

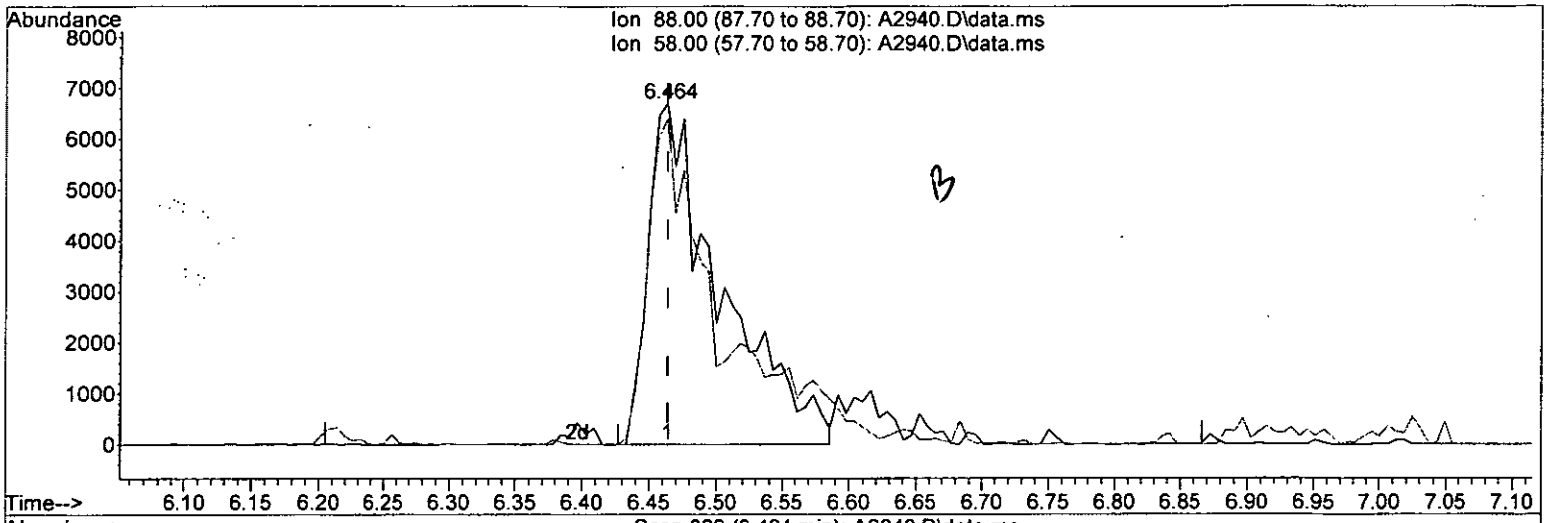
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,4-Trimethylbenzene	10.555	105	672056	19.94	ug/L	100
103) sec-Butylbenzene	10.695	105	743497	18.98	ug/L	100
104) p-Isopropyltoluene	10.817	119	665241	19.58	ug/L	97
105) 1,3-Dclbenz	10.780	146	420309	19.81	ug/L	99
106) 1,4-Dclbenz	10.853	146	437872	19.92	ug/L	99
109) n-Butylbenzene	11.140	91	591040	20.52	ug/L	96
110) 1,2-Dclbenz	11.152	146	394482	19.79	ug/L	100
111) 1,2-Dibromo-3-chloropr...	11.713	157	26150	21.31	ug/L	95
115) 1,2,4-Tcbenzene	12.231	180	234152	20.73	ug/L	95
116) Hexachlorobt	12.329	225	109589	23.70	ug/L	92
117) Naphthalen	12.377	128	402835	20.76	ug/L	100
118) 1,2,3-Tclbenzene	12.518	180	182443	22.04	ug/L	93

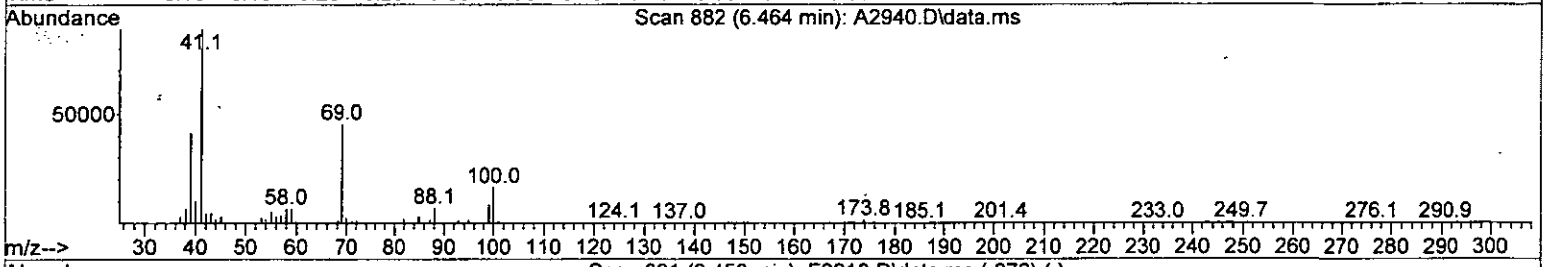
(#) = qualifier out of range (m) = manual integration (+) = signals summed

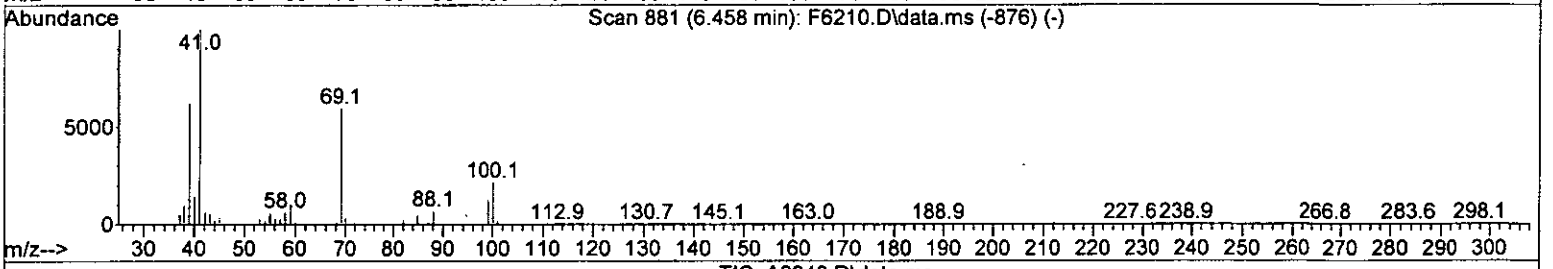
Quantitation Report (Qedit)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:53:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2940.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 432.70 ug/L

response 25183

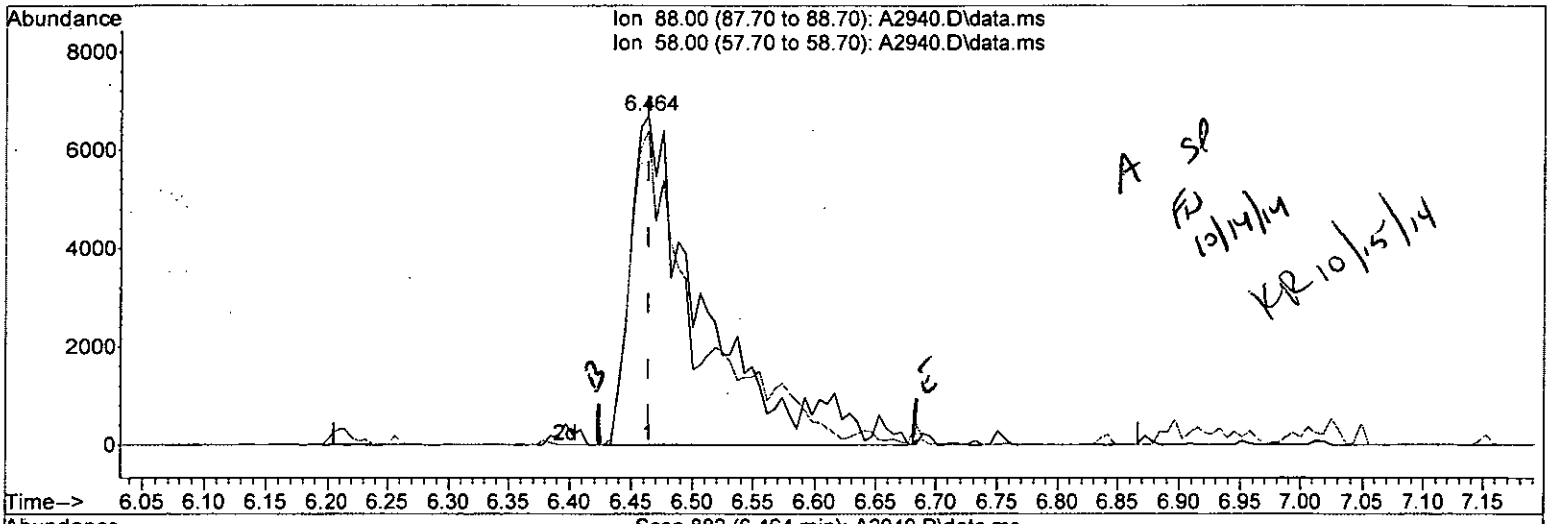
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	95.52#
0.00	0.00	0.00
0.00	0.00	0.00

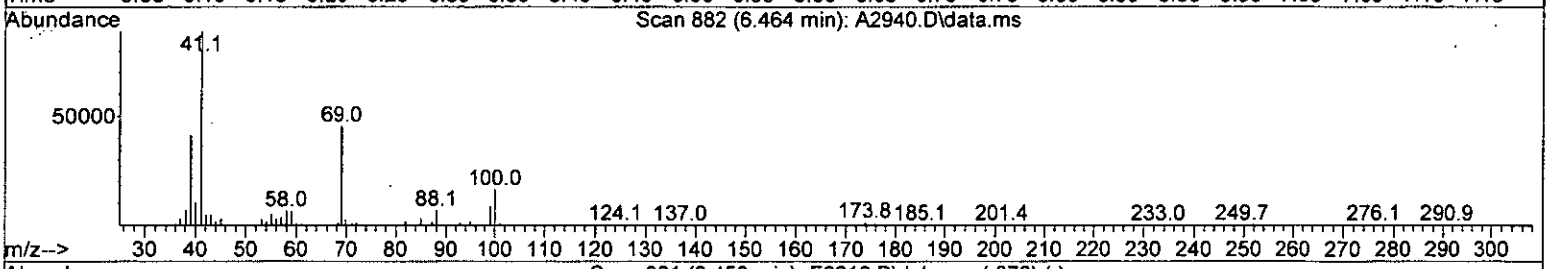
W072114.M Tue Oct 14 10:57:41 2014 MSVO10 Page: 1

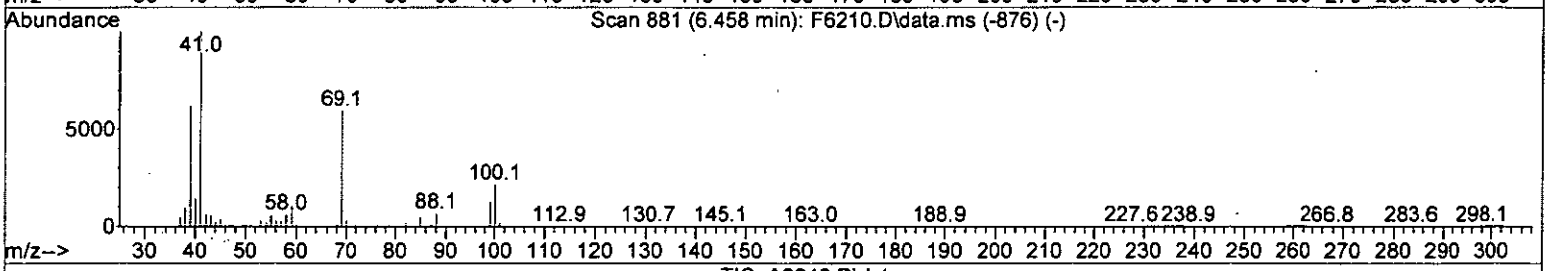
Quantitation Report (Qedit)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:53:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2940.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 481.04 ug/L m

response 27996

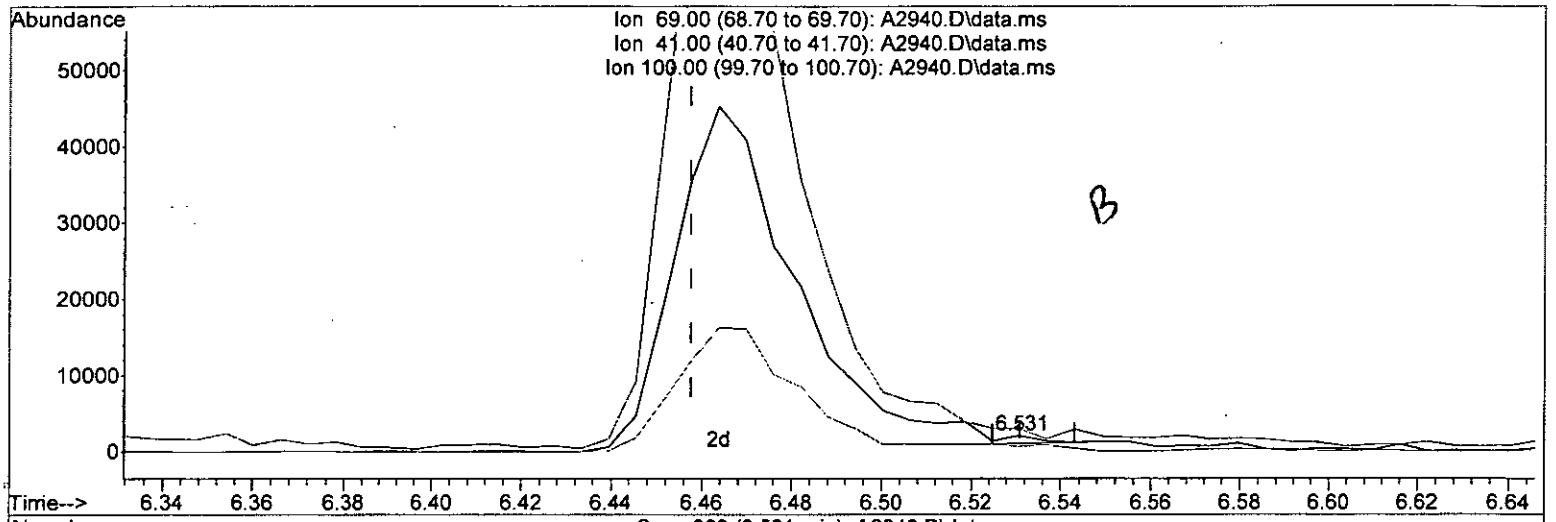
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	95.52#
0.00	0.00	0.00
0.00	0.00	0.00

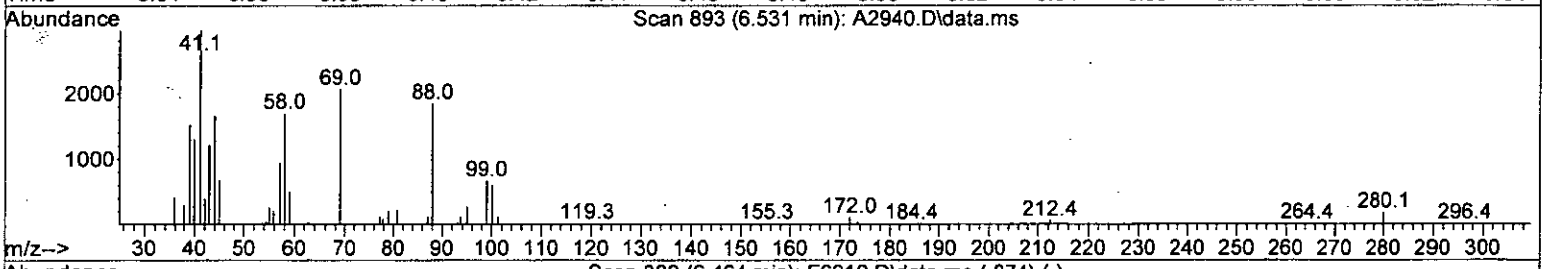
W072114.M Tue Oct 14 10:57:54 2014 MSVO10 Page: 1

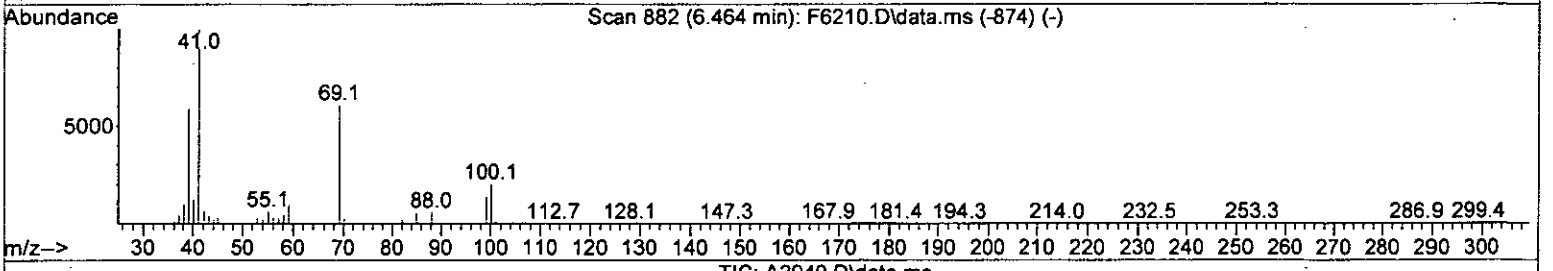
Quantitation Report (Qedit)

Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:53:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2940.D\data.ms

(59) Methyl Methacrylate

6.531min (+0.073) 0.14 ug/L

response 519

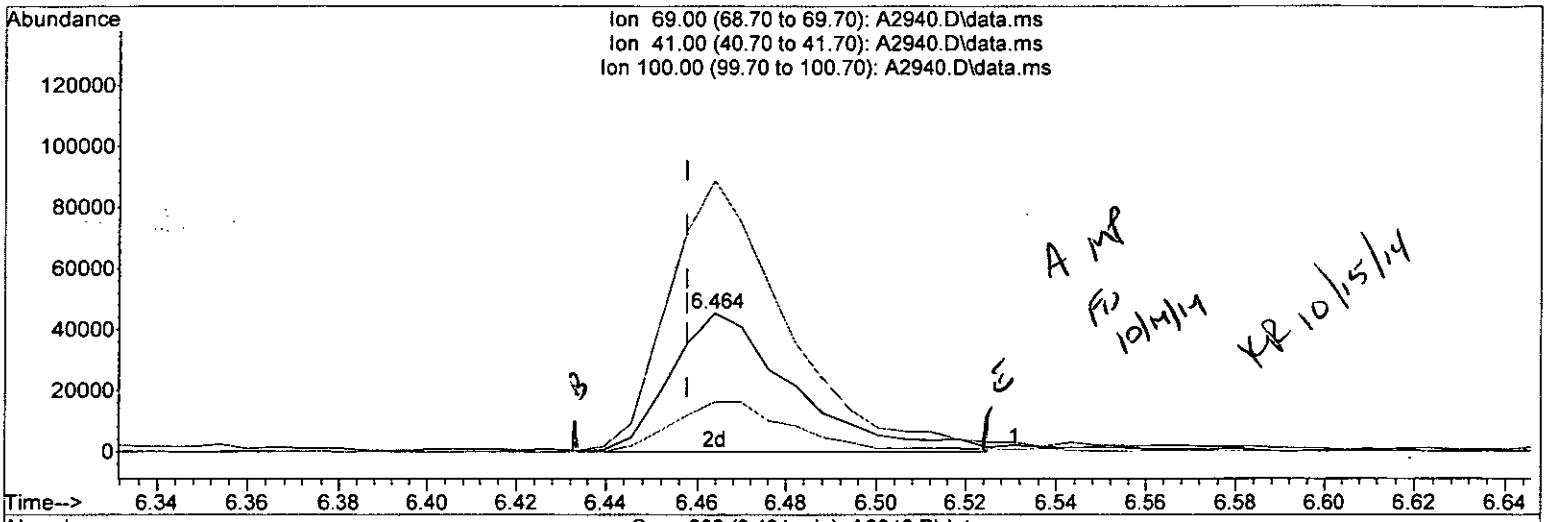
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	143.73
100.00	36.90	28.86
0.00	0.00	0.00

W072114.M Tue Oct 14 10:58:00 2014 MSVO10 Page: 1

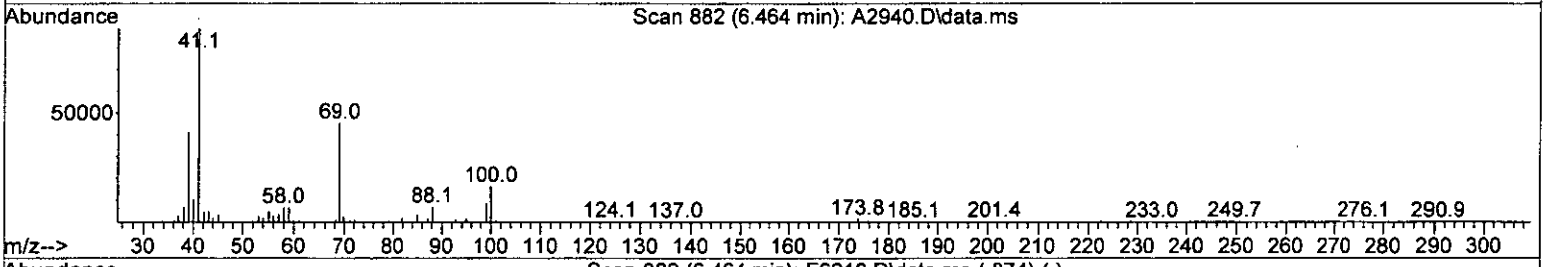
Quantitation Report (Qedit)

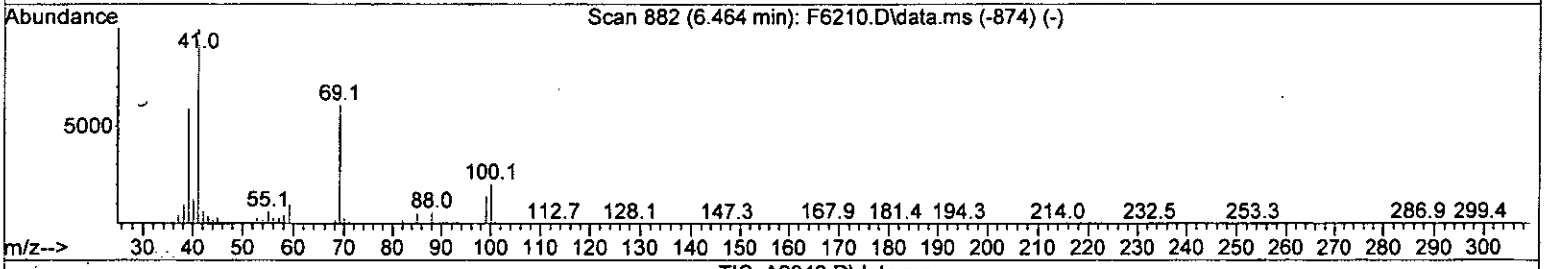
Sample : LCS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:53:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



A MP 10/14/14 KR 10/15/14





TIC: A2940.D\data.ms

(59) Methyl Methacrylate

6.464min (+0.006) 23.55 ug/L m

response 85540

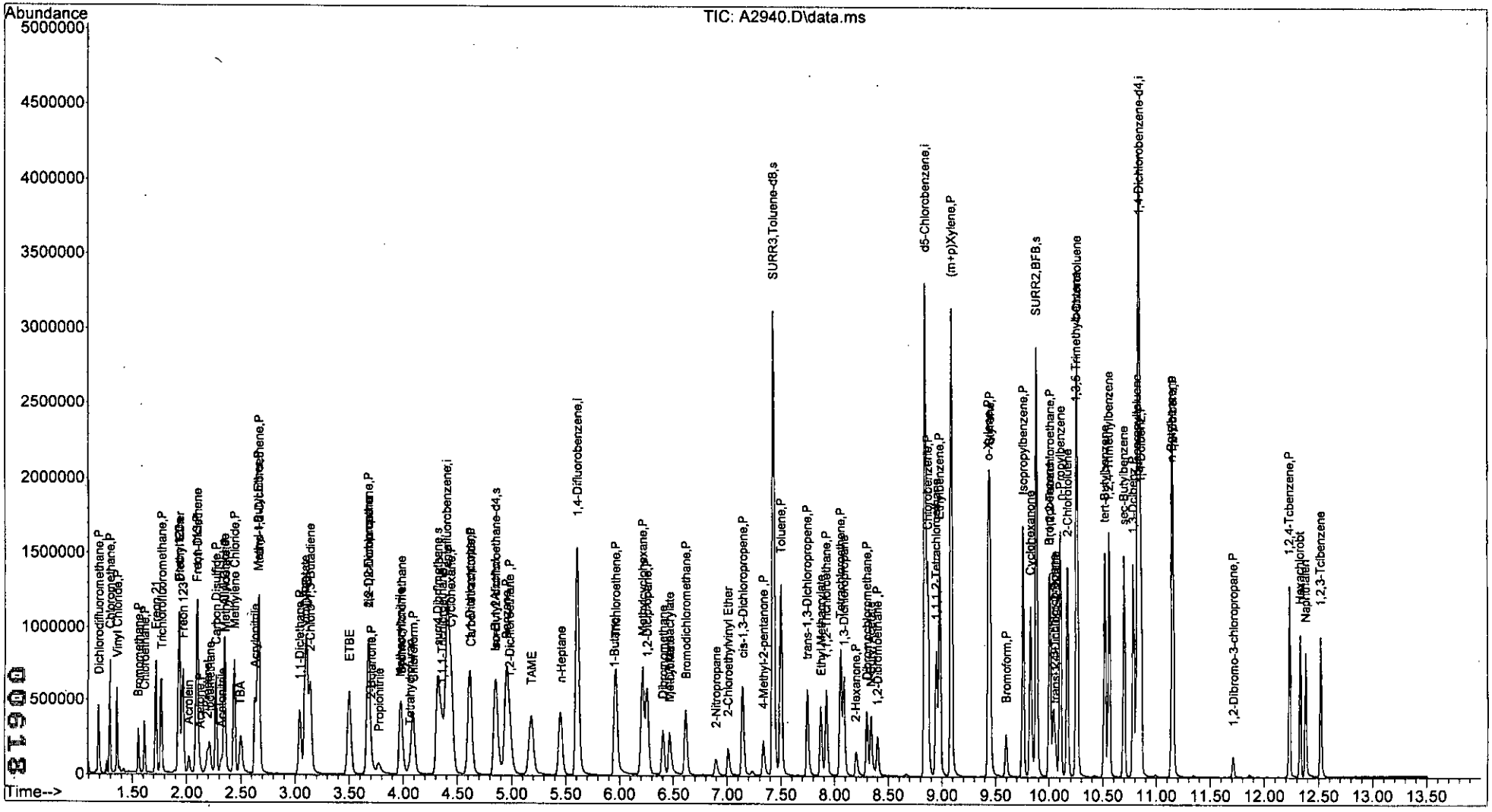
Ion	Exp%	Act%
69.00	100	100
41.00	128.90	196.20#
100.00	36.90	35.78
0.00	0.00	0.00

W072114.M Tue Oct 14 10:58:06 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : ICIS
Data File : I:\ACQUDATA\msvoa10\data\101414\A2940.D Vial: 3
Acq On : 14 Oct 2014 10:40 am
Operator : F.NAEGLER
InstName : MSVOA10
Misc :

Quant Time: Oct 14 10:58:19 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Tue Oct 14 10:58:40 2014 MSVO10 Page: 4

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1045
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 20:34
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1412540-07	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2960.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	**51.3**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**57.7**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**51.0**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**53.6**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**52.1**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**60.5**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**56.8**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**54.3**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**49.0**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**50.5**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**117**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**56.0**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**53.5**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**47.0**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**55.7**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**53.7**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**58.8**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**47.2**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**52.4**		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	**49.4**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**48.8**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**56.4**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**51.3**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**1220**		100	20	11	
106-43-4	4-Chlorotoluene	**51.1**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**48.9**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**55.8**		5.0	1.0	0.67	
67-64-1	Acetone	**51.8**		5.0	5.0	1.3	
71-43-2	Benzene	**65.2**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**49.4**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**48.5**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**58.4**		5.0	1.0	0.32	
75-25-2	Bromoform	**54.2**		5.0	1.0	0.42	
74-83-9	Bromomethane	**54.3**		5.0	1.0	0.29	

Client: Parsons Engineering Science
Project: FTMM 3 Quarter 2014/748810-03000
Sample Matrix: Water

Service Request: R1407806
Date Collected: 9/30/14 1045
Date Received: 10/ 3/14
Date Analyzed: 10/14/14 20:34

Sample Name: FTMM-53-GW-699MW06-10.2
Lab Code: RQ1412540-07
Run Type: Matrix Spike

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\101414\A2960.D\

Analysis Lot: 416090
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**57.9**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**49.7**		5.0	1.0	0.29	
75-00-3	Chloroethane	**52.0**		5.0	1.0	0.24	
67-66-3	Chloroform	**54.8**		5.0	1.0	0.25	
74-87-3	Chloromethane	**54.7**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**53.4**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**55.2**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**51.0**		5.0	1.0	0.32	
100-41-4	Ethylbenzene	**223**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**55.4**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**68.0**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**57.5**		5.0	1.0	0.29	
91-20-3	Naphthalene	**84.5**		5.0	1.0	0.20	
100-42-5	Styrene	**51.8**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**53.6**		5.0	1.0	0.30	
108-88-3	Toluene	**54.7**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**51.1**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**55.2**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**51.7**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**51.2**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**58.0**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**286**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**52.2**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**67.6**		5.0	1.0	0.20	
95-47-6	o-Xylene	**63.4**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**48.3**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**48.9**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**52.6**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**63.4**		5.0	1.0	0.20	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1045
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 20:34
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1412540-07	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2960.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	75-120	10/14/14 20:34	
Dibromofluoromethane	106	85-115	10/14/14 20:34	
Toluene-d8	102	85-120	10/14/14 20:34	

Quantitation Report (QT Reviewed)

Sample : R1407806-003MS[1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

RQ1412547-07

FV 12/15/14

Quant Time: Oct 15 16:08:16 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	1006494	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1456028	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1371835	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	764861	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	493300	53.13	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.26%				
48) surr1,1,2-dichloroetha...	4.854	65	521228	53.20	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 106.40%				
65) SURR3,Toluene-d8	7.427	98	1665768	50.94	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.88%				
70) SURR2,BFB	9.878	95	721808	56.10	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 112.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	597488	55.16	ug/L		97
3) Chloromethane	1.294	50	789641	54.68	ug/L		99
4) Vinyl Chloride	1.361	62	682144	51.71	ug/L		98
5) Bromomethane	1.556	94	214304	54.30	ug/L		98
6) Chloroethane	1.611	64	347219	51.95	ug/L		99
7) Freon 21	1.715	67	1046085	56.35	ug/L		97
8) Trichlorofluoromethane	1.764	101	825446	55.24	ug/L		98
9) Diethyl Ether	1.934	59	400784	50.92	ug/L		83
10) Freon 123a	1.928	67	647558	55.40	ug/L		91
11) Freon 123	1.965	83	645067	51.85	ug/L		98
12) Acrolein	2.020	56	113151	91.92	ug/L		99
13) 1,1-Diclethene	2.099	96	424455	60.51	ug/L	#	79
14) Freon 113	2.093	101	468760	52.89	ug/L		92
15) Acetone	2.123	43	158893	51.84	ug/L		94
16) 2-Propanol	2.190	45	455089	1050.13	ug/L		100
17) Iodomethane	2.215	142	448706	55.04	ug/L		98
18) Carbon Disulfide	2.270	76	1369783	46.16	ug/L		100
19) Acetonitrile	2.318	40	77017	234.43	ug/L		96
20) Allyl Chloride	2.349	76	224448	50.90	ug/L	#	34
21) Methyl Acetate	2.355	43	271521	44.66	ug/L		91
22) Methylene Chloride	2.440	84	469330	50.98	ug/L	#	75
23) TBA	2.501	59	636039	1219.15	ug/L	#	48
24) Acrylonitrile	2.629	53	747118	265.27	ug/L		99
25) Methyl-t-Butyl Ether	2.660	73	1156136	57.52	ug/L		84
26) trans-1,2-Dichloroethene	2.666	96	475392	52.56	ug/L	#	82
28) 1,1-Diclethane	3.044	63	996439	52.10	ug/L		98
29) Vinyl Acetate	3.086	86	50422	44.81	ug/L	#	12
30) DIPE	3.105	45	2144030	48.83	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.141	53	983085	52.26	ug/L		83
32) ETBE	3.501	59	1436484	48.79	ug/L		90
33) 2,2-Dichloropropane	3.678	77	584945	49.37	ug/L		94
34) cis-1,2-Dichloroethene	3.678	96	505965	51.16	ug/L	#	77
35) 2-Butanone	3.696	43	196938	48.75	ug/L		86
36) Propionitrile	3.769	54	266685	273.39	ug/L		98
37) Bromochloromethane	3.977	130	295148	48.53	ug/L	#	68

Quantitation Report (QT Reviewed)

Sample : R1407806-003MS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 16:08:16 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.970	67	124869	57.13	ug/L	#	46
39)	Tetrahydrofuran	4.056	42	115670	51.71	ug/L		70
40)	Chloroform	4.086	83	913698	54.83	ug/L		97
41)	1,1,1-Trichloroethane	4.355	97	795163	57.67	ug/L		95
42)	TAME	5.184	73	1011065	50.90	ug/L		91
44)	Cyclohexane	4.446	41	690569	52.38	ug/L		84
46)	Carbontetrachloride	4.611	121	214764	57.90	ug/L		99
47)	1,1-Dichloropropene	4.617	75	647083	56.82	ug/L		97
49)	Benzene	4.952	78	2319116	65.16	ug/L		90
50)	1,2-Dichloroethane	4.982	62	687711	55.69	ug/L		93
51)	Iso-Butyl Alcohol	4.854	43	309442	1069.93	ug/L		95
52)	n-Heptane	5.452	43	620062	46.19	ug/L	#	77
53)	1-Butanol	5.946	56	426100	3300.39	ug/L		86
54)	Trichloroethene	5.964	130	507414	51.14	ug/L		97
55)	Methylcyclohexane	6.214	55	734375m	53.69	ug/L		
56)	1,2-Diclpropane	6.257	63	556994	53.69	ug/L		100
57)	Dibromomethane	6.397	93	262205	52.43	ug/L		95
58)	1,4-Dioxane	6.464	88	61348m	1039.24	ug/L		
59)	Methyl Methacrylate	6.464	69	214746	58.28	ug/L	#	62
60)	Bromodichloromethane	6.616	83	663723	58.44	ug/L		98
61)	2-Nitropropane	6.891	41	174088	121.52	ug/L		94
63)	cis-1,3-Dichloropropene	7.141	75	695428	57.97	ug/L		98
64)	4-Methyl-2-pentanone	7.336	43	433043	55.81	ug/L		89
66)	Toluene	7.500	91	2041374	54.74	ug/L		98
67)	trans-1,3-Dichloropropene	7.744	75	602006	63.41	ug/L		99
68)	Ethyl Methacrylate	7.872	69	451576	58.37	ug/L	#	60
69)	1,1,2-Trichloroethane	7.921	97	352935	53.64	ug/L		97
72)	Tetrachloroethene	8.055	164	425206	53.60	ug/L		99
73)	2-Hexanone	8.195	43	297593	51.32	ug/L		94
74)	1,3-Dichloropropane	8.085	76	615326	52.35	ug/L	#	81
75)	Dibromochloromethane	8.299	129	447256	53.38	ug/L		97
76)	N-Butyl Acetate	8.335	43	614305	47.61	ug/L		91
77)	1,2-Dibromoethane	8.396	107	356697	53.52	ug/L		96
79)	Chlorobenzene	8.866	112	1313991	49.68	ug/L		99
81)	1,1,1,2-Tetrachloroethane	8.945	131	474454	51.26	ug/L		98
82)	Ethylbenzene	8.976	106	2943553	223.33	ug/L	#	87
83)	(m+p)Xylene	9.085	106	4641592	285.56	ug/L		94
84)	o-Xylene	9.433	106	1007325	63.39	ug/L		98
85)	Styrene	9.445	104	1367291	51.79	ug/L		99
86)	Bromoform	9.597	173	260921	54.22	ug/L		99
88)	Isopropylbenzene	9.756	105	2717457	67.99	ug/L		99
89)	Cyclohexanone	9.823	55	220156	174.34	ug/L		99
90)	trans-1,4-Dichloro-2-B...	10.055	53	91544	44.91	ug/L		84
92)	1,1,2,2-Tetrachloroethane	10.006	83	427955	50.99	ug/L		100
93)	Bromobenzene	10.000	156	569865	49.35	ug/L		97
94)	1,2,3-Trichloropropane	10.042	110	114856	48.95	ug/L		96
95)	n-Propylbenzene	10.103	91	3228282	67.64	ug/L		99
96)	2-Chlorotoluene	10.164	91	1660561	56.39	ug/L		99
98)	4-Chlorotoluene	10.256	91	1809953	51.09	ug/L		99
99)	1,3,5-Trimethylbenzene	10.250	105	2040622	58.79	ug/L		98
100)	tert-Butylbenzene	10.518	119	1421138	48.85	ug/L		100
101)	1,2,4-Trimethylbenzene	10.555	105	4115136	117.28	ug/L		100

Quantitation Report (QT Reviewed)

Sample : R1407806-003MS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 16:08:16 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

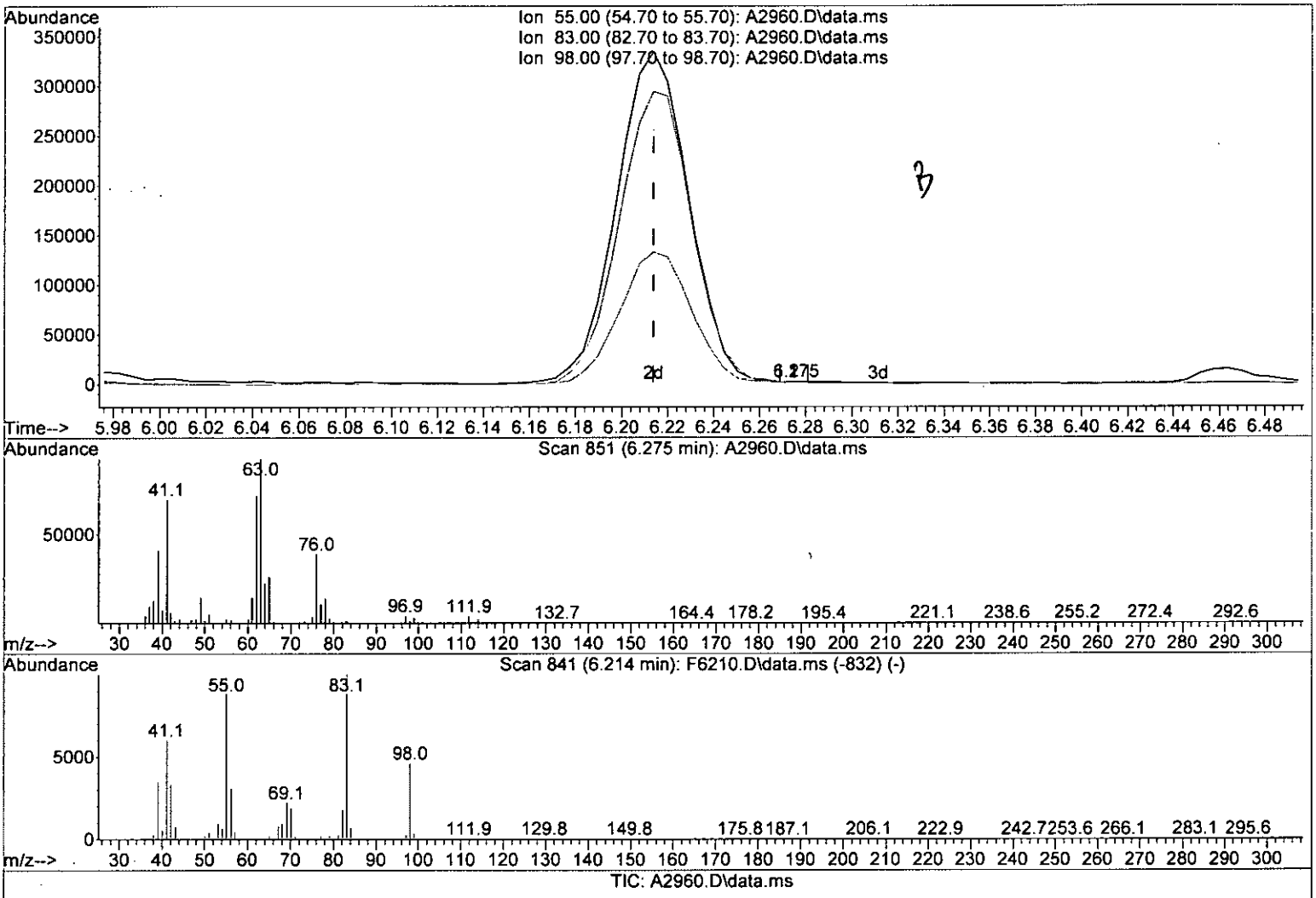
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) sec-Butylbenzene	10.695	105	1969919	48.30	ug/L	99
104) p-Isopropyltoluene	10.817	119	1729905	48.90	ug/L	98
105) 1,3-Dclbenz	10.780	146	1043083	47.22	ug/L	97
106) 1,4-Dclbenz	10.853	146	1081311	47.26	ug/L	98
109) n-Butylbenzene	11.140	91	1563830	52.16	ug/L	98
110) 1,2-Dclbenz	11.152	146	975562	47.00	ug/L	99
111) 1,2-Dibromo-3-chloropr...	11.707	157	71515	55.97	ug/L	92
115) 1,2,4-Tcbenzene	12.225	180	594080	50.52	ug/L	95
116) Hexachlorobt	12.322	225	266628	55.39	ug/L	97
117) Naphthalen	12.371	128	1707584	84.51	ug/L	99
118) 1,2,3-Tclbenzene	12.505	180	467575	54.25	ug/L	99

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

Quantitation Report (Qedit)

Sample : R1407806-003MS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 20:47:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2960.D\data.ms

(55) Methylcyclohexane (P)

6.275min (+0.061) 0.05 ug/L

response 617

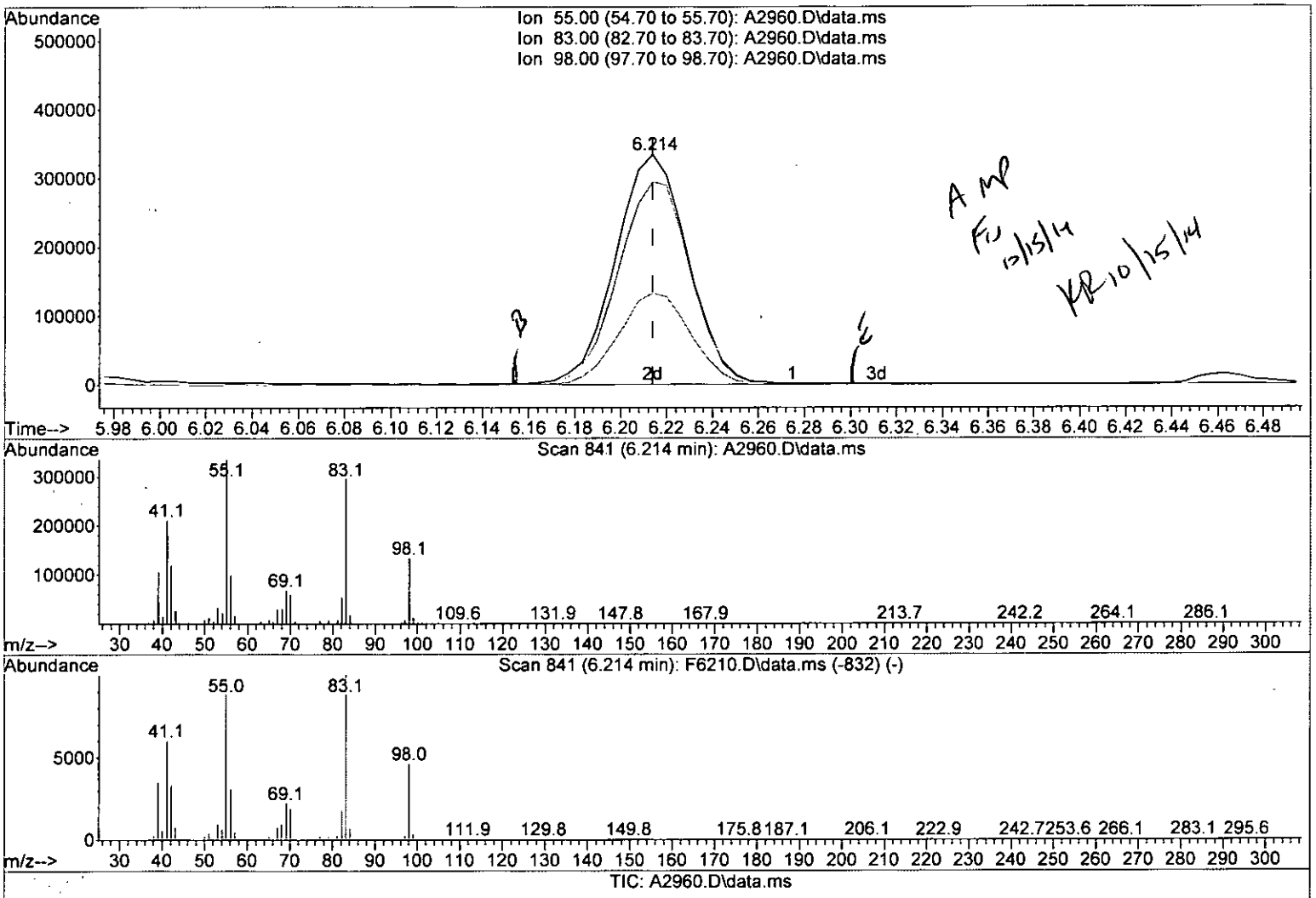
Ion	Exp%	Act%
55.00	100	100
83.00	120.80	113.48
98.00	52.70	42.83
0.00	0.00	0.00

W072114.M Wed Oct 15 16:07:35 2014 MSVO10 Page: 1

Quantitation Report (Qedit)

Sample : R1407806-003MS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 20:47:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2960.D\data.ms

(55) Methylcyclohexane (P)

6.214min (0.000) 53.69 ug/L m

response 734375

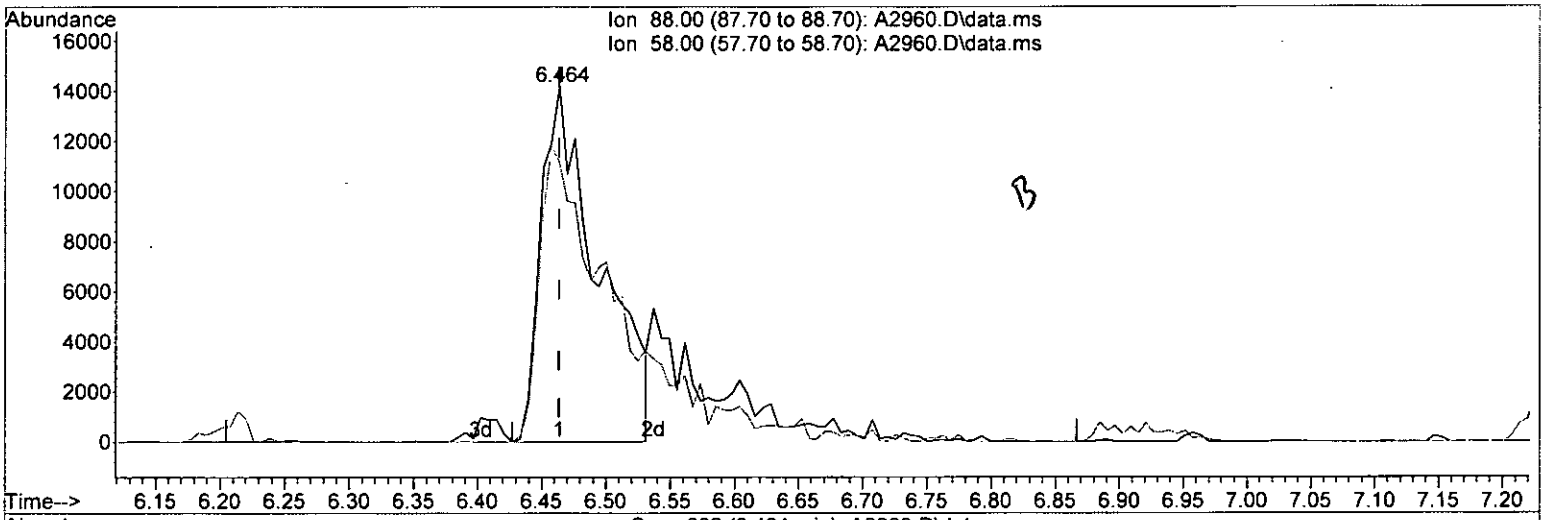
Ion	Exp%	Act%
55.00	100	100
83.00	120.80	87.98#
98.00	52.70	39.67
0.00	0.00	0.00

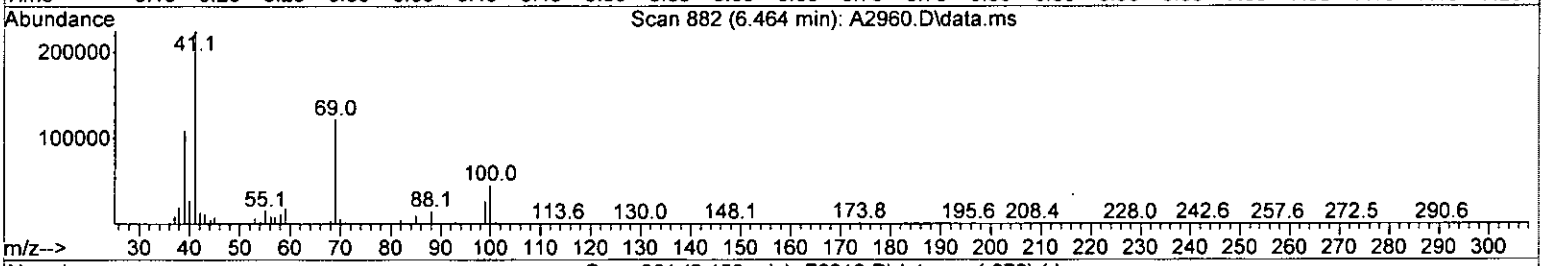
W072114.M Wed Oct 15 16:07:41 2014 MSVO10 Page: 1

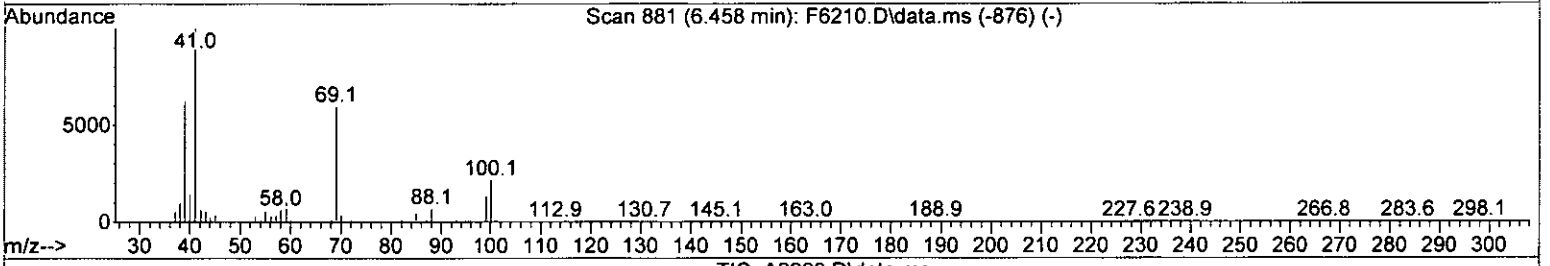
Quantitation Report (Qedit)

Sample : R1407806-003MS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 20:47:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2960.D\data.ms

(58) 1,4-Dioxane

6.464min (0.000) 745.04 ug/L

response 43981

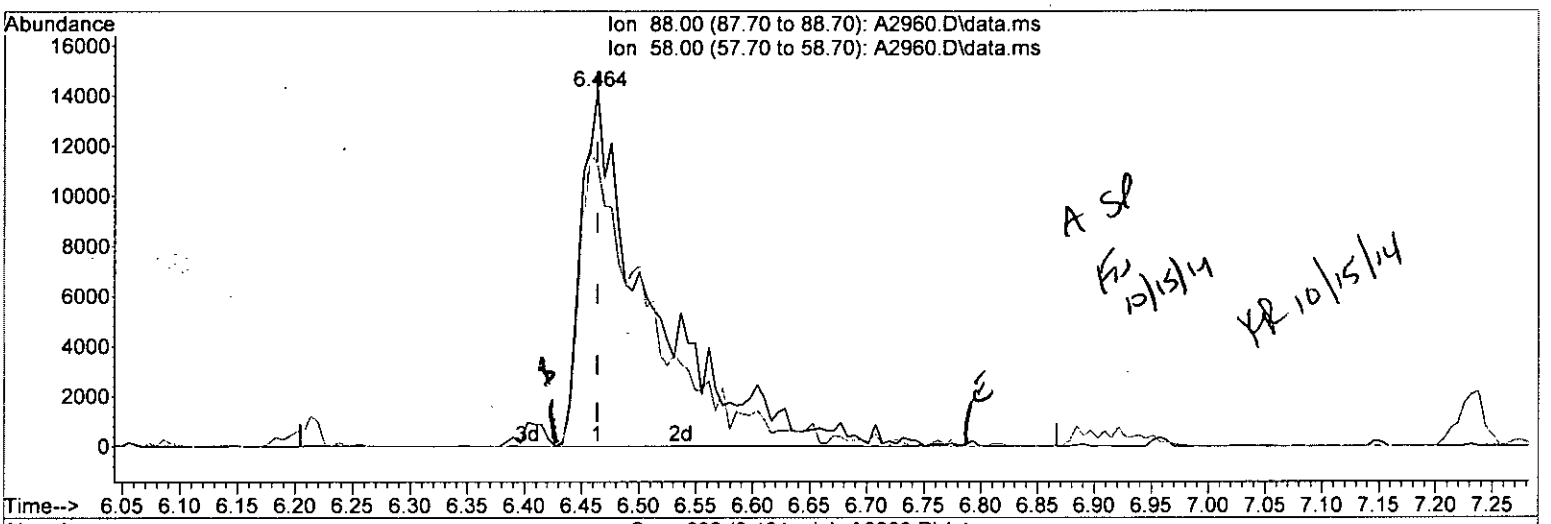
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	78.78
0.00	0.00	0.00
0.00	0.00	0.00

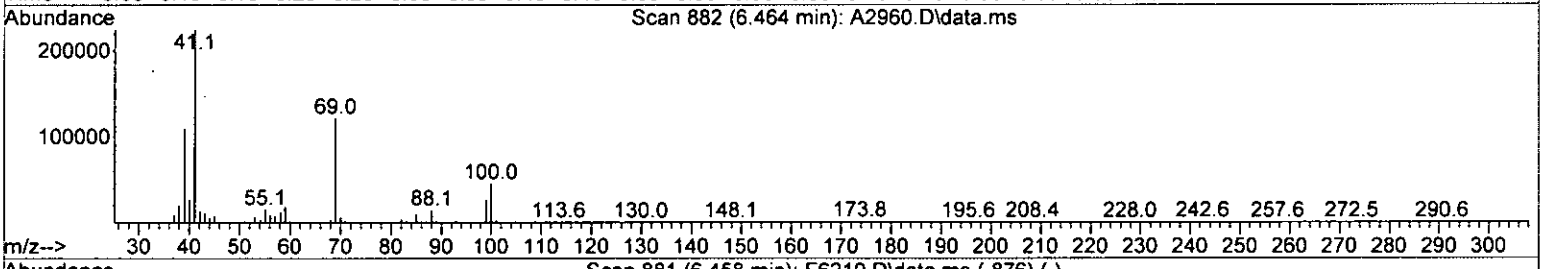
W072114.M Wed Oct 15 16:07:49 2014 MSVO10 Page: 1

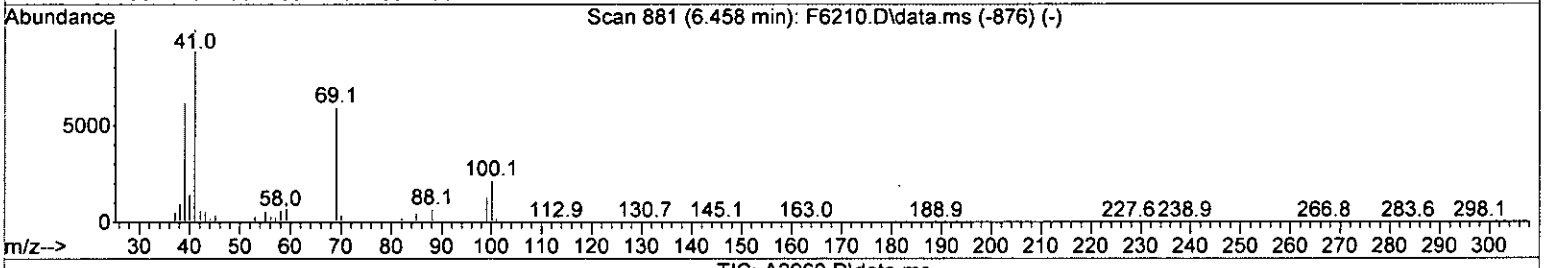
Quantitation Report (Qedit)

Sample : R1407806-003MS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 20:47:33 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2960.D\data.ms

(58) 1,4-Dioxane

6.464min (0.000) 1039.24 ug/L m

response 61348

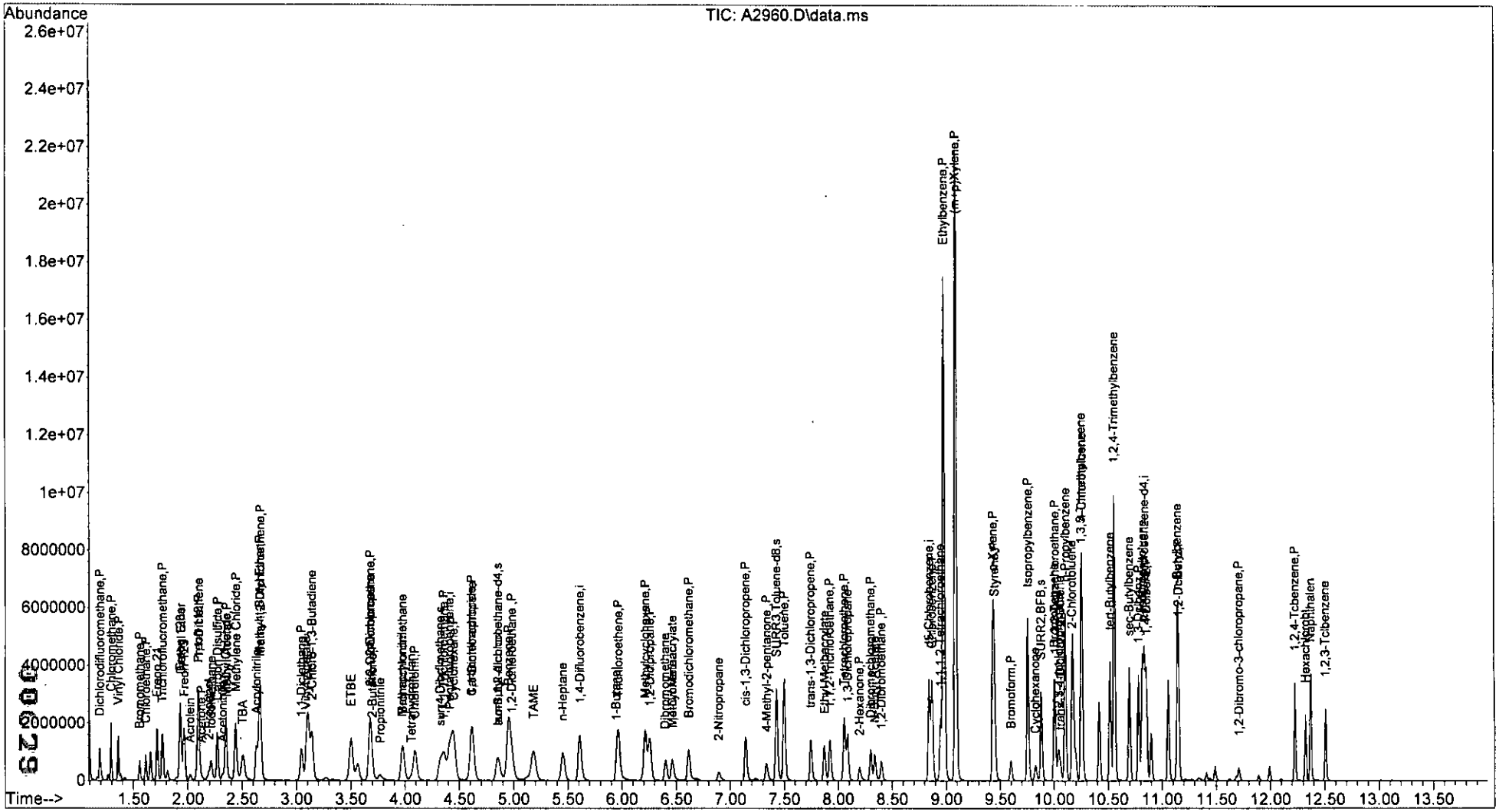
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	78.78
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Wed Oct 15 16:08:01 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : R1407806-003MS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2960.D Vial: 23
Acq On : 14 Oct 2014 8:34 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 16:08:16 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Wed Oct 15 16:08:43 2014 MSVO10 Page: 4

ALS Group USA, Corp. dba ALS Environmental

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1045
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 21:04
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1412540-08	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2961.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	**51.5**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**57.2**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**52.8**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**52.8**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**51.9**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**59.5**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**57.5**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**54.1**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**49.0**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**51.5**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**107**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**57.6**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**53.8**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**46.9**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**56.0**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**55.3**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**55.3**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**48.6**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**53.3**		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	**49.0**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**49.4**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**55.4**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**51.8**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**1210**		100	20	11	
106-43-4	4-Chlorotoluene	**50.9**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**49.0**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**56.5**		5.0	1.0	0.67	
67-64-1	Acetone	**52.3**		5.0	5.0	1.3	
71-43-2	Benzene	**63.9**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**50.3**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**48.3**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**59.0**		5.0	1.0	0.32	
75-25-2	Bromoform	**55.5**		5.0	1.0	0.42	
74-83-9	Bromomethane	**54.4**		5.0	1.0	0.29	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1045
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 21:04
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1412540-08	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2961.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**58.7**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**50.2**		5.0	1.0	0.29	
75-00-3	Chloroethane	**52.0**		5.0	1.0	0.24	
67-66-3	Chloroform	**54.4**		5.0	1.0	0.25	
74-87-3	Chloromethane	**54.0**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**54.0**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**53.6**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**50.9**		5.0	1.0	0.32	
100-41-4	Ethylbenzene	**193**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**55.8**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**67.3**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**57.3**		5.0	1.0	0.29	
91-20-3	Naphthalene	**79.4**		5.0	1.0	0.20	
100-42-5	Styrene	**51.8**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**52.6**		5.0	1.0	0.30	
108-88-3	Toluene	**54.9**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**52.2**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**55.5**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**49.8**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**51.1**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**58.8**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**229**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**52.6**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**64.5**		5.0	1.0	0.20	
95-47-6	o-Xylene	**61.1**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**49.2**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**49.7**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**51.3**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**61.8**		5.0	1.0	0.20	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1045
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/14/14 21:04
Sample Name:	FTMM-53-GW-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1412540-08	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	416090
Data File Name:	I:\ACQUDATA\MSVOA10\DATA\101414\A2961.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	75-120	10/14/14 21:04	
Dibromofluoromethane	104	85-115	10/14/14 21:04	
Toluene-d8	102	85-120	10/14/14 21:04	

Quantitation Report (QT Reviewed)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

R1412543-08

FJ 10/15/14

Quant Time: Oct 15 16:09:50 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	1030083	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1462769	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1391122	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	775943	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	485147	52.01	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.02%				
48) surr1,1,2-dichloroetha...	4.854	65	529846	53.83	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 107.66%				
65) SURR3,Toluene-d8	7.427	98	1682630	51.22	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.44%				
70) SURR2,BFB	9.878	95	714401	55.26	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.52%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	594683	53.64	ug/L		100
3) Chloromethane	1.294	50	798399	54.02	ug/L		99
4) Vinyl Chloride	1.361	62	671795	49.76	ug/L		100
5) Bromomethane	1.556	94	219821	54.40	ug/L		96
6) Chloroethane	1.611	64	355779	52.01	ug/L		97
7) Freon 21	1.715	67	1041865	54.84	ug/L		94
8) Trichlorofluoromethane	1.770	101	848247	55.47	ug/L		99
9) Diethyl Ether	1.934	59	416989	51.77	ug/L		83
10) Freon 123a	1.928	67	645255	53.93	ug/L		92
11) Freon 123	1.965	83	650221	51.07	ug/L		97
12) Acrolein	2.019	56	115922	92.02	ug/L		97
13) 1,1-Diclethene	2.099	96	427052	59.49	ug/L	#	79
14) Freon 113	2.093	101	478916	52.80	ug/L		99
15) Acetone	2.117	43	164088	52.31	ug/L		93
16) 2-Propanol	2.196	45	467765	1054.66	ug/L		98
17) Iodomethane	2.215	142	459221	55.04	ug/L		100
18) Carbon Disulfide	2.269	76	1404111	46.23	ug/L		98
19) Acetonitrile	2.318	40	57311	170.46	ug/L		91
20) Allyl Chloride	2.349	76	221613	49.11	ug/L	#	31
21) Methyl Acetate	2.355	43	266936	42.90	ug/L		88
22) Methylene Chloride	2.440	84	479256	50.87	ug/L	#	70
23) TBA	2.501	59	647437	1212.58	ug/L	#	57
24) Acrylonitrile	2.629	53	746672	259.05	ug/L		98
25) Methyl-t-Butyl Ether	2.660	73	1179419	57.34	ug/L		83
26) trans-1,2-Dichloroethene	2.666	96	474437m	51.26	ug/L		
28) 1,1-Diclethane	3.050	63	1016259	51.92	ug/L		98
29) Vinyl Acetate	3.086	86	49845	43.29	ug/L	#	1
30) DIPE	3.105	45	2023268	45.03	ug/L		94
31) 2-Chloro-1,3-Butadiene	3.141	53	993450	51.60	ug/L		81
32) ETBE	3.501	59	1361510	45.18	ug/L		91
33) 2,2-Dichloropropane	3.678	77	593895	48.98	ug/L		96
34) cis-1,2-Dichloroethene	3.678	96	517218	51.10	ug/L	#	78
35) 2-Butanone	3.702	43	204157	49.38	ug/L		91
36) Propionitrile	3.769	54	279602	280.02	ug/L		95
37) Bromochloromethane	3.976	130	300699	48.31	ug/L	#	65

W072114.M Wed Oct 15 16:10:07 2014 MSVO10 Page: 1

00633

Quantitation Report (QT Reviewed)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 16:09:50 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.970	67	132616	59.29	ug/L	#	46
39)	Tetrahydrofuran	4.056	42	129754	56.67	ug/L		73
40)	Chloroform	4.092	83	926933	54.35	ug/L		94
41)	1,1,1-Trichloroethane	4.354	97	806447	57.15	ug/L		97
42)	TAME	5.184	73	971778	47.80	ug/L		91
44)	Cyclohexane	4.440	41	668907	50.50	ug/L		84
46)	Carbontetrachloride	4.617	121	218663	58.68	ug/L		92
47)	1,1-Dichloropropene	4.610	75	657885	57.50	ug/L		95
49)	Benzene	4.952	78	2286378	63.94	ug/L		89
50)	1,2-Dichloroethane	4.982	62	694345	55.97	ug/L		92
51)	Iso-Butyl Alcohol	4.854	43	335385	1154.28	ug/L		84
52)	n-Heptane	5.452	43	638399	47.34	ug/L	#	79
53)	1-Butanol	5.952	56	380113	2977.88	ug/L		82
54)	Trichloroethene	5.964	130	519938	52.16	ug/L		98
55)	Methylcyclohexane	6.214	55	711324	51.77	ug/L	#	78
56)	1,2-Diclpropane	6.256	63	576250	55.29	ug/L		98
57)	Dibromomethane	6.403	93	264905	52.72	ug/L		98
58)	1,4-Dioxane	6.464	88	60046m	1012.50	ug/L		
59)	Methyl Methacrylate	6.464	69	222986	60.24	ug/L	#	63
60)	Bromodichloromethane	6.616	83	672672	58.96	ug/L		99
61)	2-Nitropropane	6.891	41	173831	120.79	ug/L		91
63)	cis-1,3-Dichloropropene	7.140	75	708443	58.78	ug/L		97
64)	4-Methyl-2-pentanone	7.336	43	440081	56.46	ug/L		92
66)	Toluene	7.500	91	2057130	54.91	ug/L		99
67)	trans-1,3-Dichloropropene	7.744	75	589194	61.77	ug/L		98
68)	Ethyl Methacrylate	7.872	69	466712	60.05	ug/L	#	69
69)	1,1,2-Trichloroethane	7.921	97	348954	52.79	ug/L		94
72)	Tetrachloroethene	8.055	164	423480	52.64	ug/L		98
73)	2-Hexanone	8.195	43	304257	51.75	ug/L		94
74)	1,3-Dichloropropane	8.085	76	635734	53.33	ug/L	#	82
75)	Dibromochloromethane	8.299	129	459011	54.03	ug/L		100
76)	N-Butyl Acetate	8.335	43	600257	45.88	ug/L		94
77)	1,2-Dibromoethane	8.396	107	363622	53.80	ug/L		98
79)	Chlorobenzene	8.866	112	1345599	50.17	ug/L		99
81)	1,1,1,2-Tetrachloroethane	8.945	131	483306	51.49	ug/L		96
82)	Ethylbenzene	8.975	106	2584001	193.34	ug/L	#	89
83)	(m+p)Xylene	9.085	106	3782451	229.48	ug/L		97
84)	o-Xylene	9.433	106	984340	61.08	ug/L		100
85)	Styrene	9.445	104	1385783	51.76	ug/L		97
86)	Bromoform	9.597	173	270747	55.48	ug/L		99
88)	Isopropylbenzene	9.756	105	2727793	67.30	ug/L		98
89)	Cyclohexanone	9.823	55	216638	169.17	ug/L		99
90)	trans-1,4-Dichloro-2-B...	10.055	53	86867	42.26	ug/L		85
92)	1,1,2,2-Tetrachloroethane	10.006	83	449536	52.80	ug/L		99
93)	Bromobenzene	10.000	156	588882	50.27	ug/L		95
94)	1,2,3-Trichloropropane	10.036	110	116671	49.01	ug/L		99
95)	n-Propylbenzene	10.103	91	3123495	64.51	ug/L		98
96)	2-Chlorotoluene	10.170	91	1655431	55.41	ug/L		96
98)	4-Chlorotoluene	10.256	91	1830444	50.93	ug/L		99
99)	1,3,5-Trimethylbenzene	10.250	105	1947605	55.31	ug/L		99
100)	tert-Butylbenzene	10.518	119	1466696	49.70	ug/L		98
101)	1,2,4-Trimethylbenzene	10.554	105	3796364	106.65	ug/L		100

Quantitation Report (QT Reviewed)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 16:09:50 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

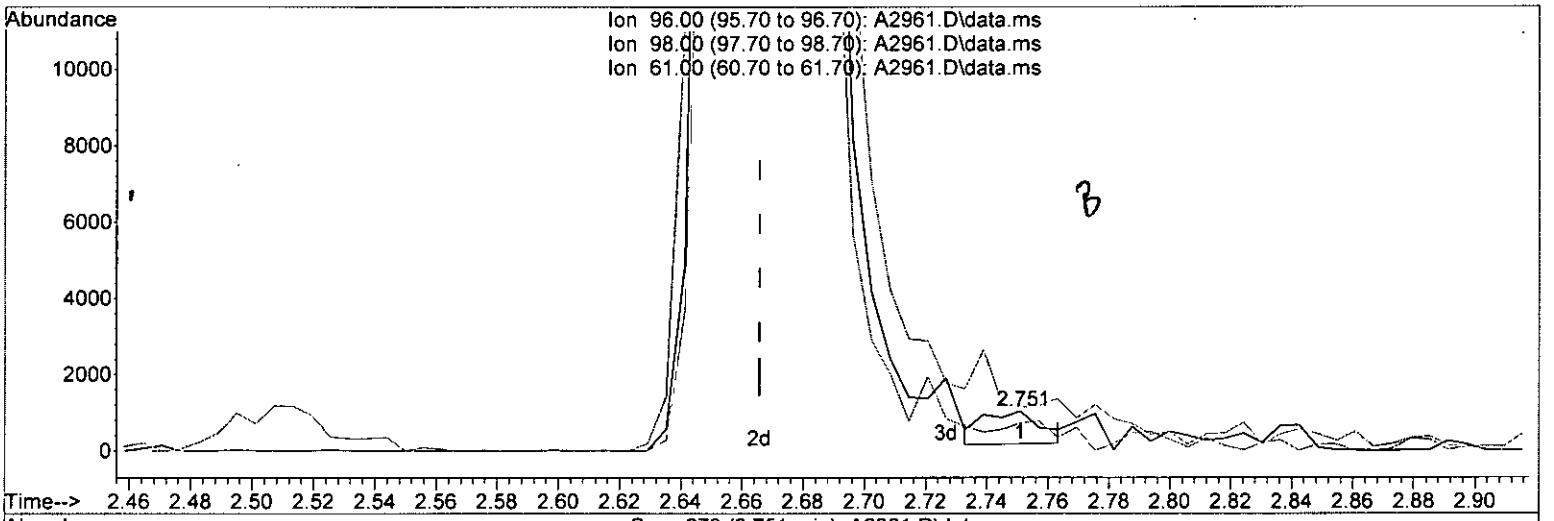
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) sec-Butylbenzene	10.695	105	2036407	49.22	ug/L	100
104) p-Isopropyltoluene	10.817	119	1758428	48.99	ug/L	97
105) 1,3-Dclbenz	10.780	146	1089746	48.63	ug/L	97
106) 1,4-Dclbenz	10.853	146	1098296	47.31	ug/L	100
109) n-Butylbenzene	11.140	91	1599223	52.58	ug/L	99
110) 1,2-Dclbenz	11.152	146	988368	46.94	ug/L	98
111) 1,2-Dibromo-3-chloropr...	11.707	157	74658	57.59	ug/L	92
115) 1,2,4-Tcbenzene	12.225	180	614656	51.53	ug/L	96
116) Hexachlorobt	12.322	225	272623	55.83	ug/L	96
117) Naphthalen	12.371	128	1628053	79.42	ug/L	99
118) 1,2,3-Tclbenzene	12.505	180	473098	54.11	ug/L	96

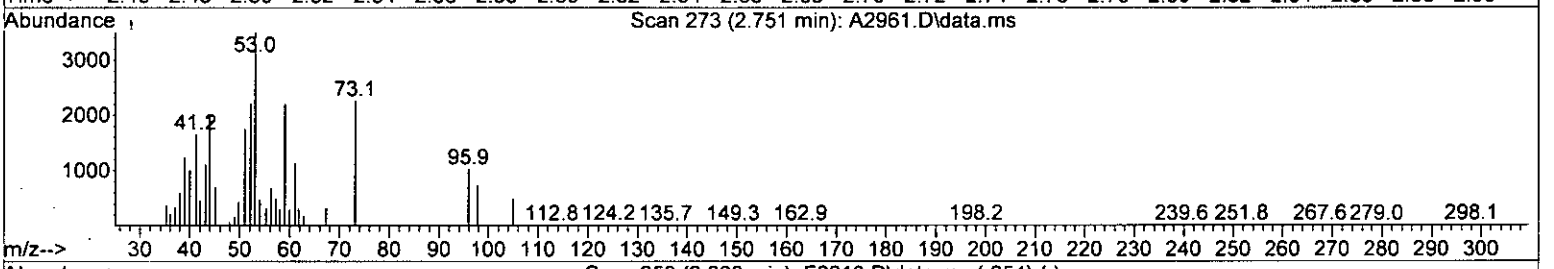
(#) = qualifier out of range (m) = manual integration (+) = signals summed

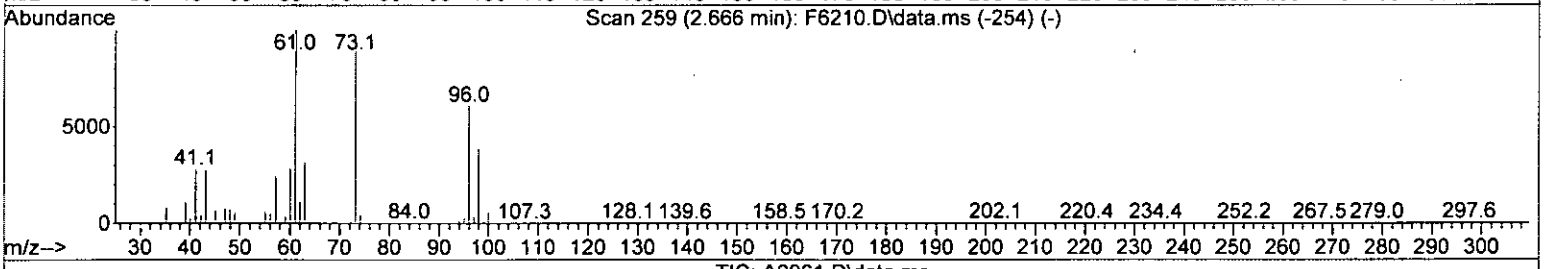
Quantitation Report (Qedit)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 21:17:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2961.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.751min (+0.085) 0.12 ug/L

response 1136

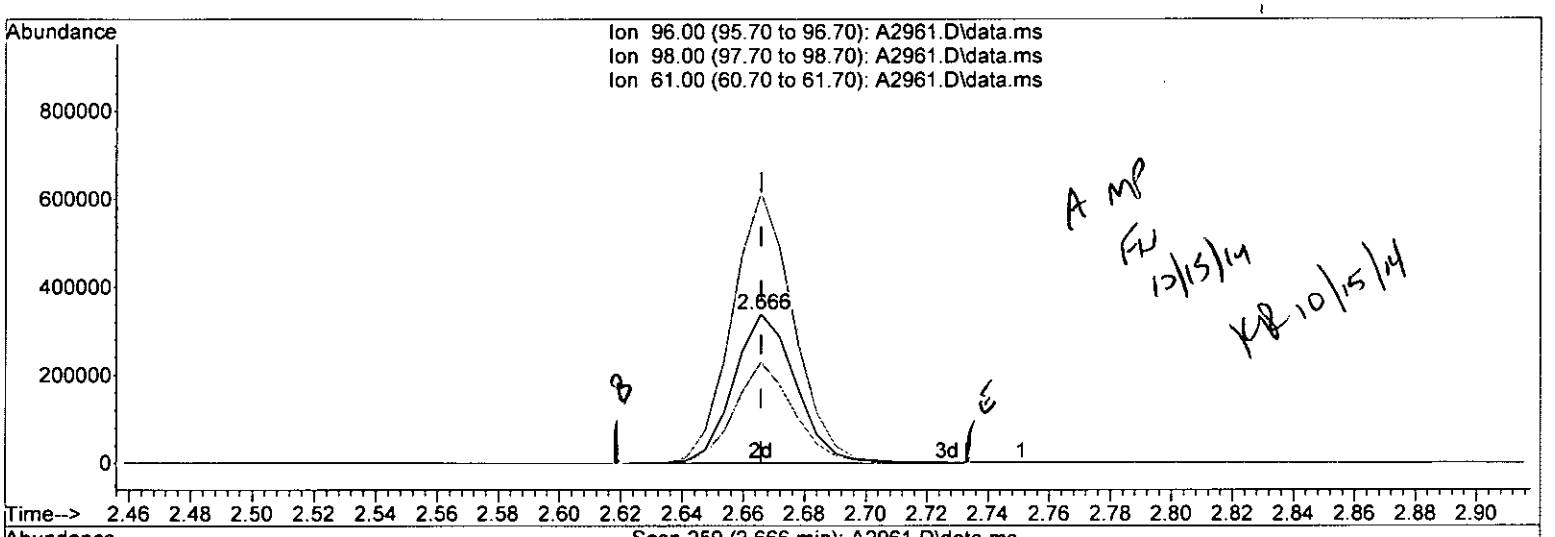
Ion	Exp%	Act%
96.00	100	100
98.00	64.00	70.17
61.00	144.30	140.14
0.00	0.00	0.00

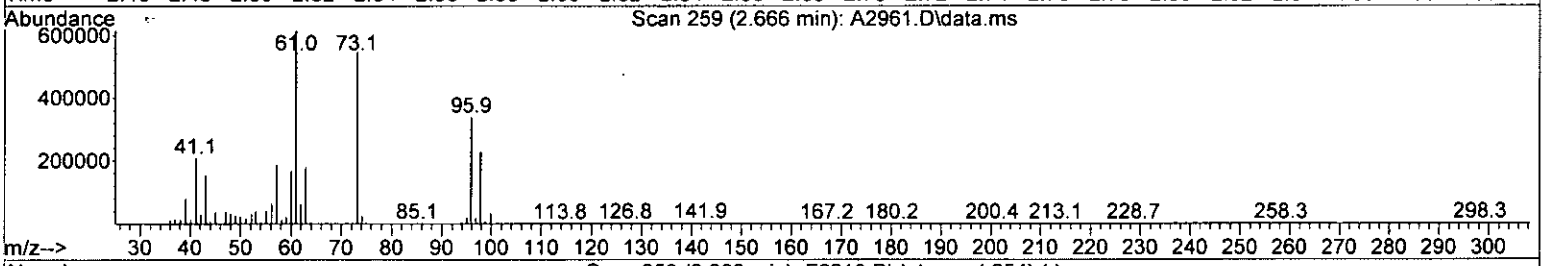
W072114.M Wed Oct 15 16:09:03 2014 MSVO10 Page: 1

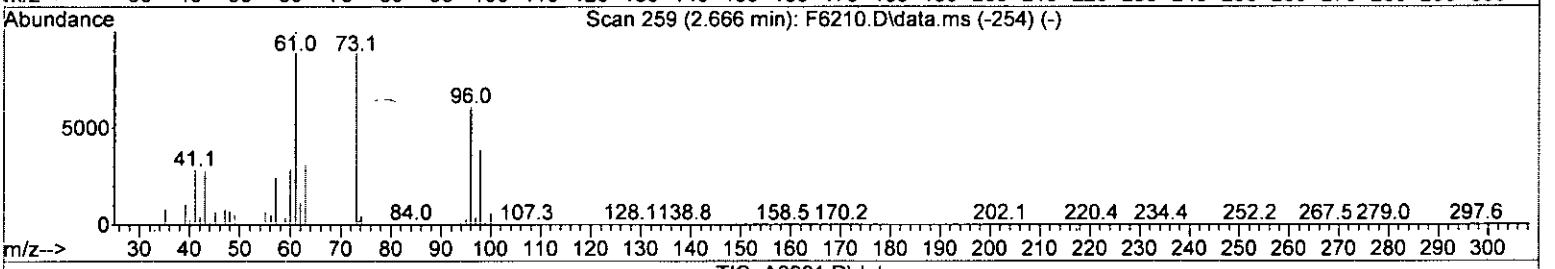
Quantitation Report (Qedit)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 21:17:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2961.D\data.ms

(26) trans-1,2-Dichloroethene (P)

2.666min (-0.000) 51.26 ug/L m

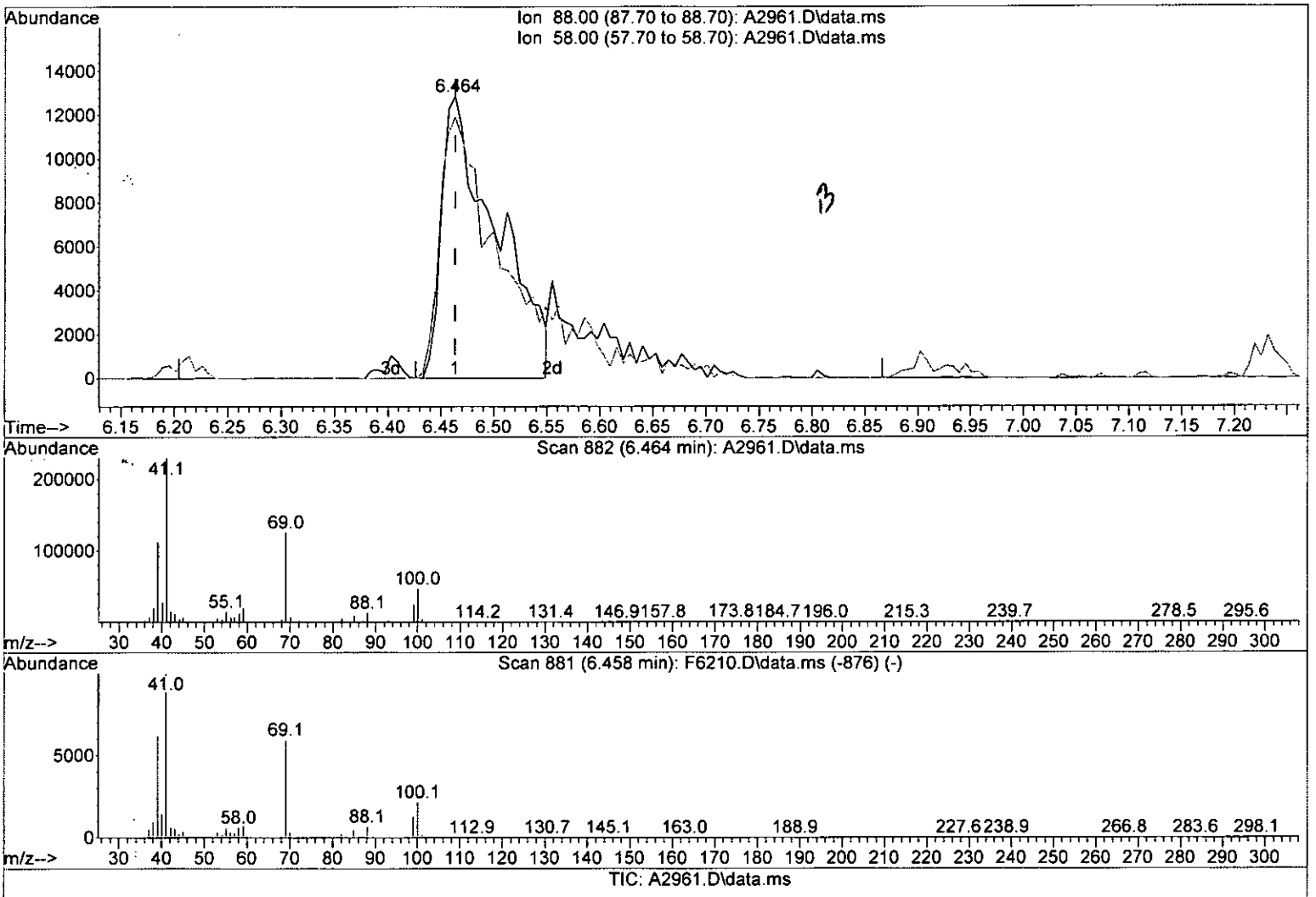
response 474437

Ion	Exp%	Act%
96.00	100	100
98.00	64.00	67.58
61.00	144.30	181.79#
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 21:17:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2961.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 776.23 ug/L

response 46034

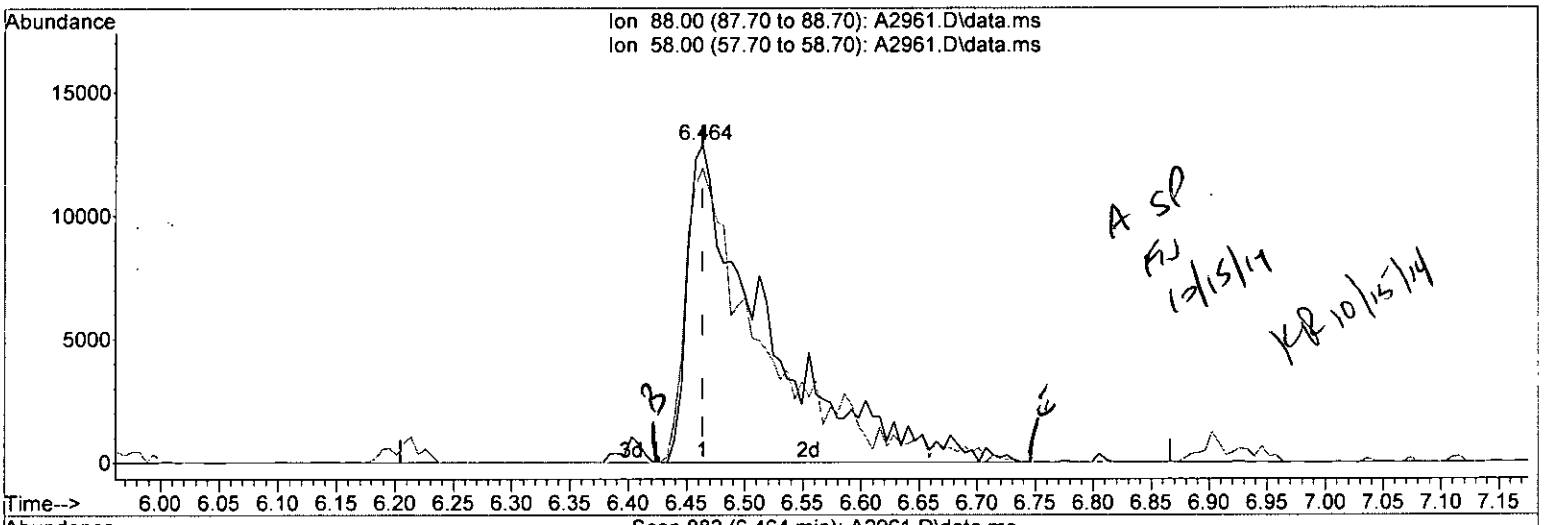
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	92.62
0.00	0.00	0.00
0.00	0.00	0.00

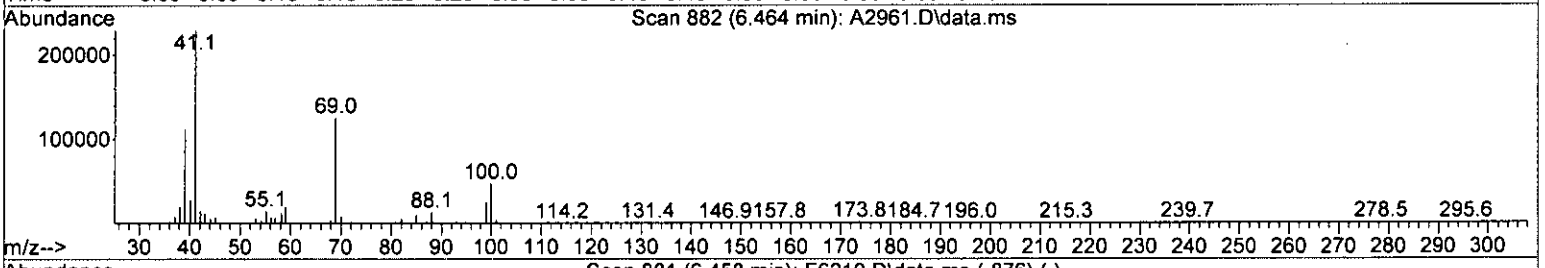
W072114.M Wed Oct 15 16:09:27 2014 MSVO10 Page: 1

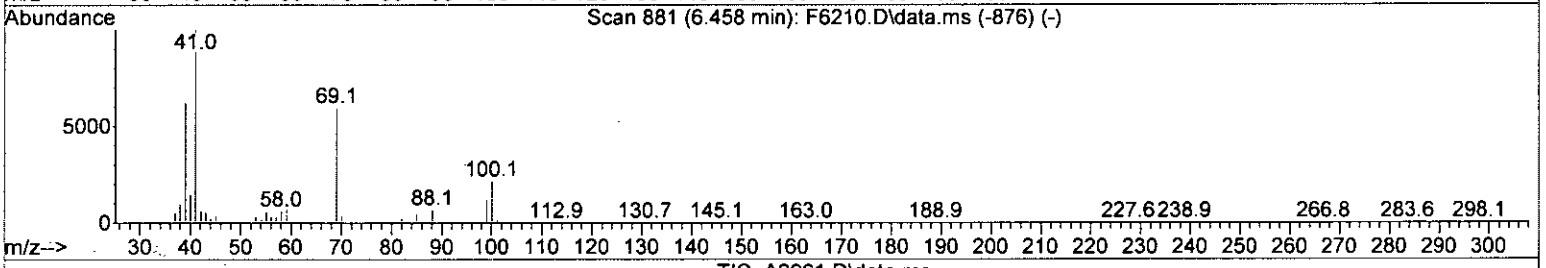
Quantitation Report (Qedit)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 21:17:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2961.D\data.ms

(58) 1,4-Dioxane

6.464min (-0.000) 1012.50 ug/L m

response 60046

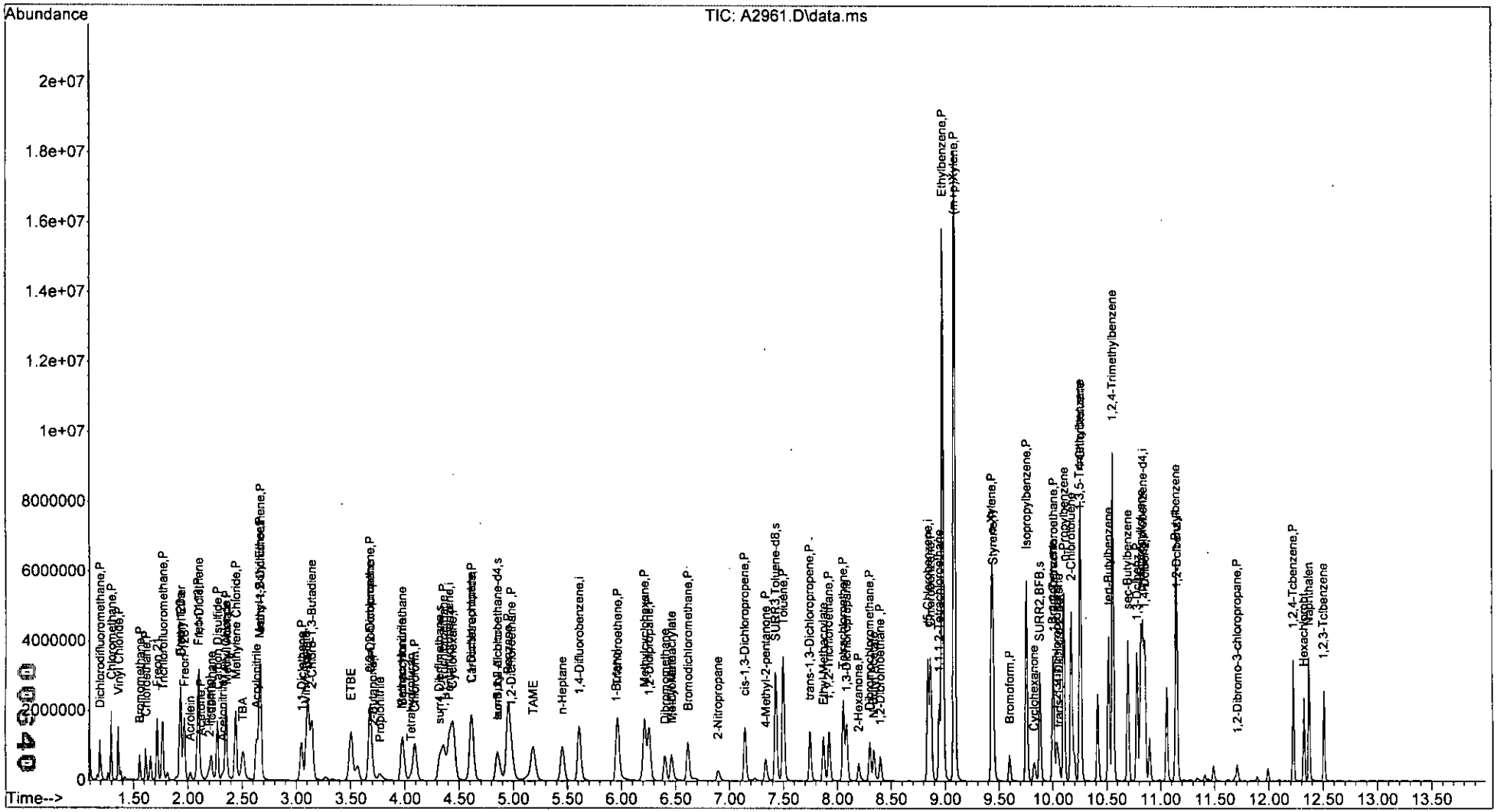
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	92.62
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Wed Oct 15 16:09:36 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : R1407806-003DMS|1.0
Data File : I:\ACQUDATA\msvoa10\data\101414\A2961.D Vial: 24
Acq On : 14 Oct 2014 9:04 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 15 16:09:50 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Wed Oct 15 16:10:09 2014 MSVO10

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 20:25
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	RQ1412440-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2783.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**2500**		250	50	11	
71-55-6	1,1,1-Trichloroethane (TCA)	**2550**		250	50	18	
79-34-5	1,1,2,2-Tetrachloroethane	**2730**		250	50	13	
79-00-5	1,1,2-Trichloroethane	**2540**		250	50	17	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**2320**		250	50	10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**2650**		250	50	29	
563-58-6	1,1-Dichloropropene	**2610**		250	50	15	
87-61-6	1,2,3-Trichlorobenzene	**2590**		250	50	41	
96-18-4	1,2,3-Trichloropropane	**2620**		250	50	35	
120-82-1	1,2,4-Trichlorobenzene	**2510**		250	50	12	
95-63-6	1,2,4-Trimethylbenzene	**2480**		250	50	10	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**3070**		250	50	37	
106-93-4	1,2-Dibromoethane	**2720**		250	50	12	
95-50-1	1,2-Dichlorobenzene	**2390**		250	50	11	
107-06-2	1,2-Dichloroethane	**2720**		250	50	18	
78-87-5	1,2-Dichloropropane	**2520**		250	50	10	
108-67-8	1,3,5-Trimethylbenzene	**2430**		250	50	10	
541-73-1	1,3-Dichlorobenzene	**2390**		250	50	10	
142-28-9	1,3-Dichloropropane	**2610**		250	50	14	
106-46-7	1,4-Dichlorobenzene	**2330**		250	50	10	
594-20-7	2,2-Dichloropropane	**2350**		250	50	14	
78-93-3	2-Butanone (MEK)	**2510**		250	50	41	
95-49-8	2-Chlorotoluene	**2490**		250	50	10	
591-78-6	2-Hexanone	**2850**		250	250	83	
75-65-0	tert-Butyl Alcohol	**57500**		5000	1000	540	
106-43-4	4-Chlorotoluene	**2500**		250	50	12	
99-87-6	p-Isopropyltoluene	**2410**		250	50	10	
108-10-1	4-Methyl-2-pentanone	**2970**		250	50	34	
67-64-1	Acetone	**1910**		250	250	62	
71-43-2	Benzene	**2430**		250	50	10	
108-86-1	Bromobenzene	**2460**		250	50	15	
74-97-5	Bromochloromethane	**2240**		250	50	16	
75-27-4	Bromodichloromethane	**2690**		250	50	16	
75-25-2	Bromoform	**2640**		250	50	21	
74-83-9	Bromomethane	**1740**		250	50	15	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 20:25
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	RQ1412440-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2783.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**2620**		250	50	23	
108-90-7	Chlorobenzene	**2410**		250	50	15	
75-00-3	Chloroethane	**2310**		250	50	12	
67-66-3	Chloroform	**2450**		250	50	13	
74-87-3	Chloromethane	**2380**		250	50	11	
124-48-1	Dibromochloromethane	**2630**		250	50	16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2500**		250	50	23	
75-09-2	Methylene Chloride	**2330**		250	50	16	
100-41-4	Ethylbenzene	**2250**		250	50	10	
87-68-3	Hexachlorobutadiene	**2520**		250	50	31	
98-82-8	Isopropylbenzene (Cumene)	**2530**		250	50	10	
1634-04-4	Methyl tert-Butyl Ether	**2650**		250	50	15	
91-20-3	Naphthalene	**2700**		250	50	10	
100-42-5	Styrene	**2570**		250	50	10	
127-18-4	Tetrachloroethene (PCE)	**6330**		250	50	15	
108-88-3	Toluene	**2400**		250	50	10	
79-01-6	Trichloroethene (TCE)	**2350**		250	50	11	
75-69-4	Trichlorofluoromethane (CFC 11)	**2450**		250	50	10	
75-01-4	Vinyl Chloride	**2210**		250	50	16	
156-59-2	cis-1,2-Dichloroethene	**2290**		250	50	15	
10061-01-5	cis-1,3-Dichloropropene	**2670**		250	50	12	
179601-23-1	m,p-Xylenes	**4910**		500	100	17	
104-51-8	n-Butylbenzene	**2510**		250	50	11	
103-65-1	n-Propylbenzene	**2580**		250	50	10	
95-47-6	o-Xylene	**2470**		250	50	10	
135-98-8	sec-Butylbenzene	**2350**		250	50	14	
98-06-6	tert-Butylbenzene	**2370**		250	50	10	
156-60-5	trans-1,2-Dichloroethene	**2260**		250	50	17	
10061-02-6	trans-1,3-Dichloropropene	**2890**		250	50	10	

ALS Group USA, Corp. dba ALS Environmental

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 20:25
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	RQ1412440-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2783.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	75-120	10/9/14 20:25	
Dibromofluoromethane	107	85-115	10/9/14 20:25	
Toluene-d8	101	85-120	10/9/14 20:25	

Quantitation Report (QT Reviewed)

Sample : R1407806-011MS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

R2412440-05

Quant Time: Oct 14 15:17:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

FW 12/19/14

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	938657	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1323951	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1185834	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	646552	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.318	113	450664	53.38	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.76%				
48) surr1,1,2-dichloroetha...	4.854	65	508254	57.05	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 114.10%				
65) SURR3,Toluene-d8	7.427	98	1503201	50.56	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.12%				
70) SURR2,BFB	9.878	95	611205	52.24	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.48%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	504341	49.92	ug/L		97
3) Chloromethane	1.294	50	640472	47.55	ug/L		99
4) Vinyl Chloride	1.361	62	543797	44.20	ug/L		97
5) Bromomethane	1.556	94	121273	34.81	ug/L		97
6) Chloroethane	1.611	64	287463	46.12	ug/L		91
7) Freon 21	1.721	67	922134	53.26	ug/L		98
8) Trichlorofluoromethane	1.770	101	682217	48.95	ug/L		99
9) Diethyl Ether	1.934	59	344513	46.94	ug/L		80
10) Freon 123a	1.928	67	575821	52.82	ug/L		88
11) Freon 123	1.965	83	561992	48.44	ug/L		97
12) Acrolein	2.019	56	116103	101.14	ug/L		97
13) 1,1-Diclethene	2.099	96	346698	53.00	ug/L	#	78
14) Freon 113	2.093	101	383425	46.39	ug/L		95
15) Acetone	2.123	43	108952	38.12	ug/L		98
16) 2-Propanol	2.190	45	433084	1071.58	ug/L		98
17) Iodomethane	2.215	142	261283	37.30	ug/L		100
18) Carbon Disulfide	2.269	76	1166193	42.14	ug/L		99
19) Acetonitrile	2.318	40	74073	241.77	ug/L		94
20) Allyl Chloride	2.349	76	179459	43.64	ug/L	#	22
21) Methyl Acetate	2.355	43	312574	55.12	ug/L		85
22) Methylene Chloride	2.440	84	399582	46.54	ug/L	#	71
23) TBA	2.501	59	559119	1149.16	ug/L		85
24) Acrylonitrile	2.629	53	678985	258.51	ug/L		100
25) Methyl-t-Butyl Ether	2.660	73	993398	53.00	ug/L		92
26) trans-1,2-Dichloroethene	2.666	96	381758	45.26	ug/L	#	79
28) 1,1-Diclethane	3.044	63	828875	46.47	ug/L		97
29) Vinyl Acetate	3.086	86	56262	53.62	ug/L	#	13
30) DIPE	3.105	45	1842259	44.99	ug/L		91
31) 2-Chloro-1,3-Butadiene	3.141	53	895684	51.06	ug/L		80
32) ETBE	3.501	59	1192698	43.44	ug/L		91
33) 2,2-Dichloropropane	3.678	77	519247	47.00	ug/L		99
34) cis-1,2-Dichloroethene	3.678	96	422307m	45.78	ug/L		
35) 2-Butanone	3.696	43	189209	50.22	ug/L		87
36) Propionitrile	3.769	54	253431	278.54	ug/L		99
37) Bromochloromethane	3.976	130	254046	44.79	ug/L	#	61

Quantitation Report (QT Reviewed)

Sample : R1407806-011MS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:17:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.964	67	114380	56.11	ug/L	#	37
39)	Tetrahydrofuran	4.056	42	115007	55.12	ug/L		76
40)	Chloroform	4.092	83	761460	48.99	ug/L		92
41)	1,1,1-Trichloroethane	4.361	97	655335	50.96	ug/L		97
42)	TAME	5.184	73	864115	46.64	ug/L		89
44)	Cyclohexane	4.440	41	585195	48.81	ug/L		87
46)	Carbontetrachloride	4.617	121	176452	52.32	ug/L		98
47)	1,1-Dichloropropene	4.617	75	540564	52.20	ug/L		96
49)	Benzene	4.958	78	1569646	48.50	ug/L		88
50)	1,2-Dichloroethane	4.982	62	611796	54.49	ug/L		94
51)	Iso-Butyl Alcohol	4.854	43	291176	1107.21	ug/L		97
52)	n-Heptane	5.452	43	549679	45.04	ug/L	#	77
53)	1-Butanol	5.952	56	335726	2915.13	ug/L		81
54)	Trichloroethene	5.964	130	423801	46.97	ug/L		99
55)	Methylcyclohexane	6.214	55	619254	49.79	ug/L	#	74
56)	1,2-Diclpropane	6.256	63	475625	50.42	ug/L		99
57)	Dibromomethane	6.403	93	221962	48.81	ug/L		92
58)	1,4-Dioxane	6.458	88	50889m	948.06	ug/L		
59)	Methyl Methacrylate	6.464	69	194900	58.17	ug/L	#	63
60)	Bromodichloromethane	6.616	83	555902	53.83	ug/L		98
61)	2-Nitropropane	6.890	41	163139	125.24	ug/L		98
62)	2-Chloroethylvinyl Ether	7.025	63	3909	0.99	ug/L		85
63)	cis-1,3-Dichloropropene	7.140	75	582035	53.36	ug/L		98
64)	4-Methyl-2-pentanone	7.336	43	418479	59.32	ug/L		91
66)	Toluene	7.500	91	1625717	47.94	ug/L		99
67)	trans-1,3-Dichloropropene	7.744	75	499386	57.85	ug/L		95
68)	Ethyl Methacrylate	7.872	69	402857	57.27	ug/L	#	59
69)	1,1,2-Trichloroethane	7.921	97	303358	50.71	ug/L		97
72)	Tetrachloroethene	8.055	164	868203	126.60	ug/L		98
73)	2-Hexanone	8.195	43	285895	57.04	ug/L		87
74)	1,3-Dichloropropane	8.085	76	530516	52.21	ug/L	#	77
75)	Dibromochloromethane	8.299	129	381383	52.66	ug/L		99
76)	N-Butyl Acetate	8.335	43	713782	64.00	ug/L		94
77)	1,2-Dibromoethane	8.396	107	312990	54.33	ug/L		97
79)	Chlorobenzene	8.866	112	1103676	48.27	ug/L		99
81)	1,1,1,2-Tetrachloroethane	8.945	131	399871	49.97	ug/L		98
82)	Ethylbenzene	8.975	106	512747	45.01	ug/L		97
83)	(m+p)Xylene	9.085	106	1378416	98.11	ug/L		95
84)	o-Xylene	9.433	106	678809	49.41	ug/L		98
85)	Styrene	9.445	104	1172374	51.37	ug/L		99
86)	Bromoform	9.597	173	219813	52.84	ug/L		98
88)	Isopropylbenzene	9.756	105	1745124	50.51	ug/L		99
89)	Cyclohexanone	9.823	55	192319	176.18	ug/L		98
90)	trans-1,4-Dichloro-2-B...	10.055	53	78034	44.34	ug/L		82
92)	1,1,2,2-Tetrachloroethane	10.006	83	387715	54.65	ug/L		98
93)	Bromobenzene	10.000	156	479339	49.11	ug/L		98
94)	1,2,3-Trichloropropane	10.042	110	103755	52.31	ug/L		100
95)	n-Propylbenzene	10.103	91	2078917	51.53	ug/L		99
96)	2-Chlorotoluene	10.170	91	1238731	49.76	ug/L		97
98)	4-Chlorotoluene	10.262	91	1495242	49.93	ug/L		94
99)	1,3,5-Trimethylbenzene	10.250	105	1428385	48.69	ug/L		99
100)	tert-Butylbenzene	10.518	119	1166168	47.42	ug/L		98

Quantitation Report (QT Reviewed)

Sample : R1407806-011MS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:17:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

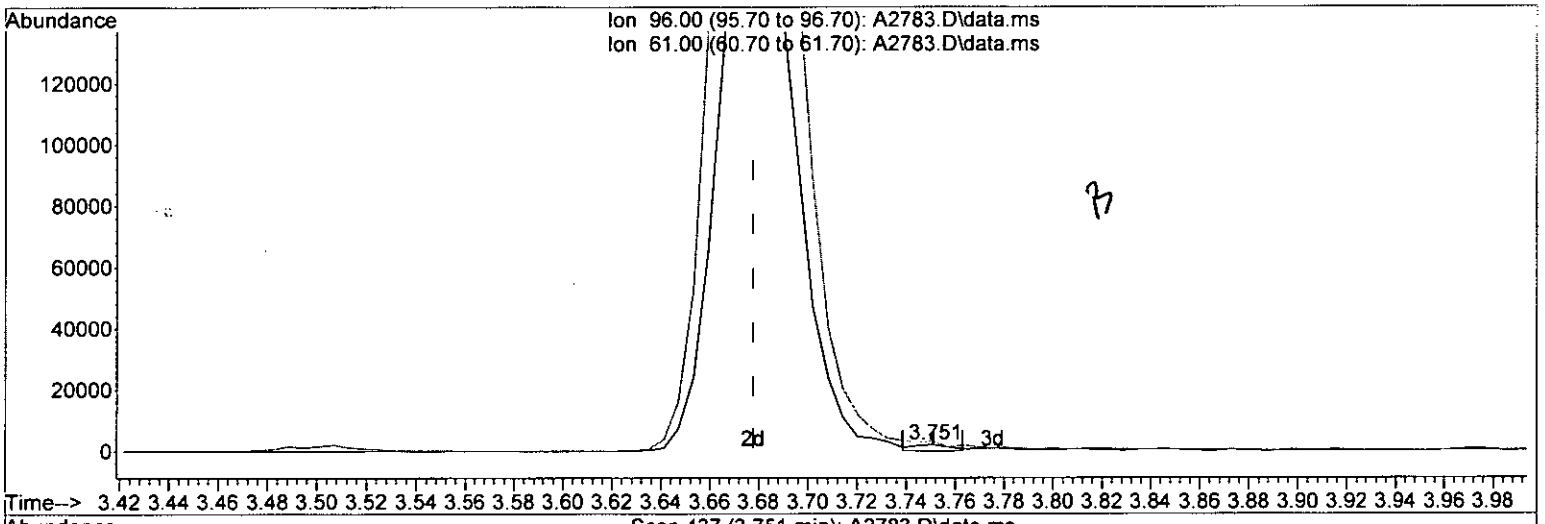
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101) 1,2,4-Trimethylbenzene	10.554	105	1469591	49.55	ug/L		99
103) sec-Butylbenzene	10.695	105	1623550	47.09	ug/L		98
104) p-Isopropyltoluene	10.817	119	1442849	48.25	ug/L		98
105) 1,3-Dclbenz	10.780	146	893147	47.83	ug/L		100
106) 1,4-Dclbenz	10.853	146	900069	46.53	ug/L		98
109) n-Butylbenzene	11.140	91	1273206	50.24	ug/L		99
110) 1,2-Dclbenz	11.152	146	837702	47.75	ug/L		100
111) 1,2-Dibromo-3-chloropr...	11.707	157	66241	61.33	ug/L	#	84
115) 1,2,4-Tcbenzene	12.225	180	498943	50.20	ug/L		97
116) Hexachlorobt	12.322	225	204846	50.34	ug/L		98
117) Naphthalen	12.371	128	920897	53.92	ug/L		99
118) 1,2,3-Tclbenzene	12.505	180	377428	51.81	ug/L		95

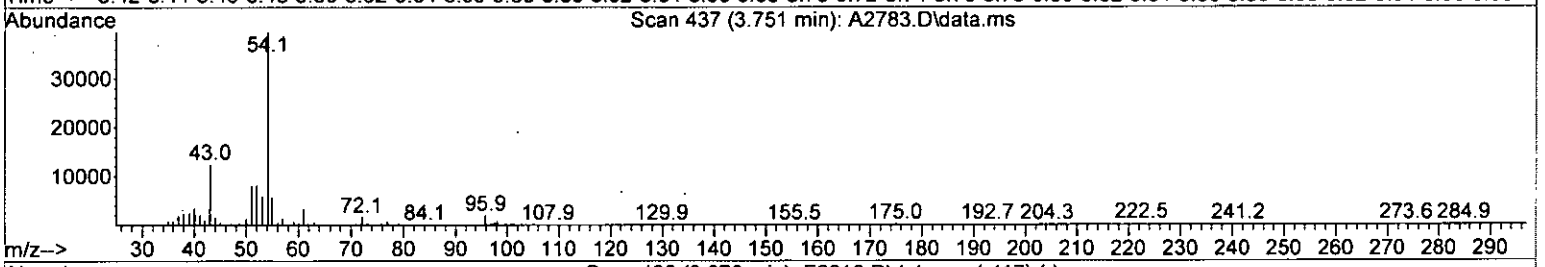
(#) = qualifier out of range (m) = manual integration (+) = signals summed

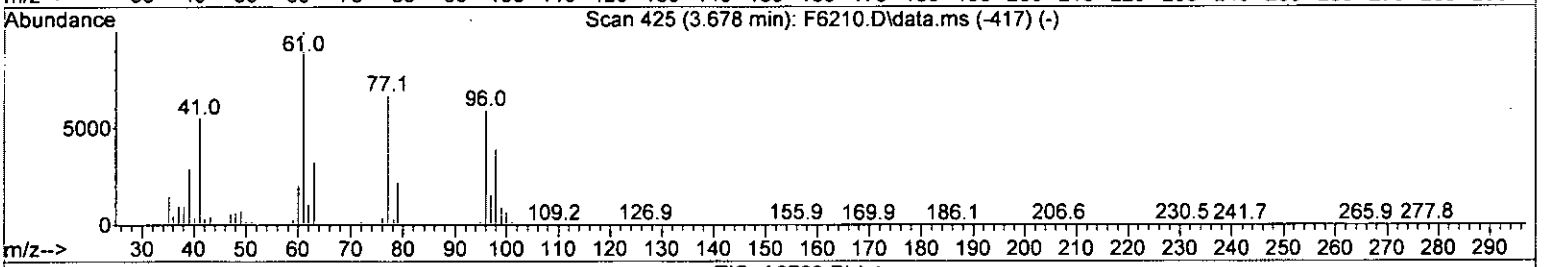
Quantitation Report (Qedit)

Sample : R1407806-011MS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 20:38:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2783.D\data.ms

(34) cis-1,2-Dichloroethene (P)

3.751min (+0.073) 0.21 ug/L

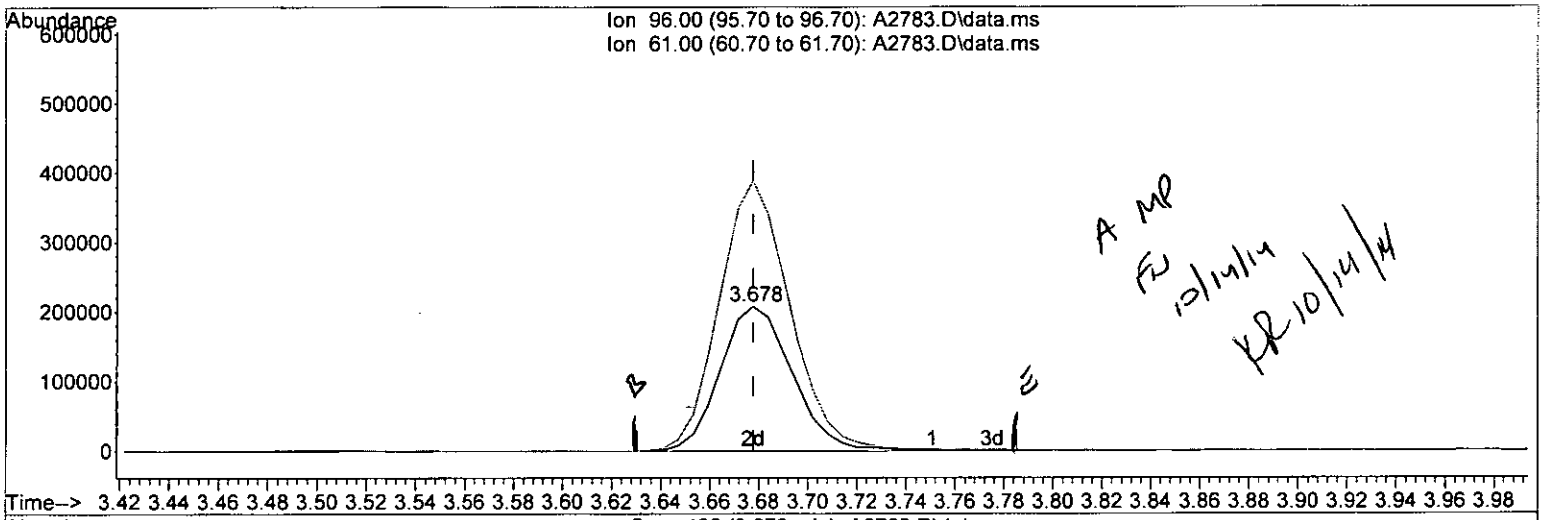
response 1936

Ion	Exp%	Act%
96.00	100	100
61.00	148.30	164.83
0.00	0.00	0.00
0.00	0.00	0.00

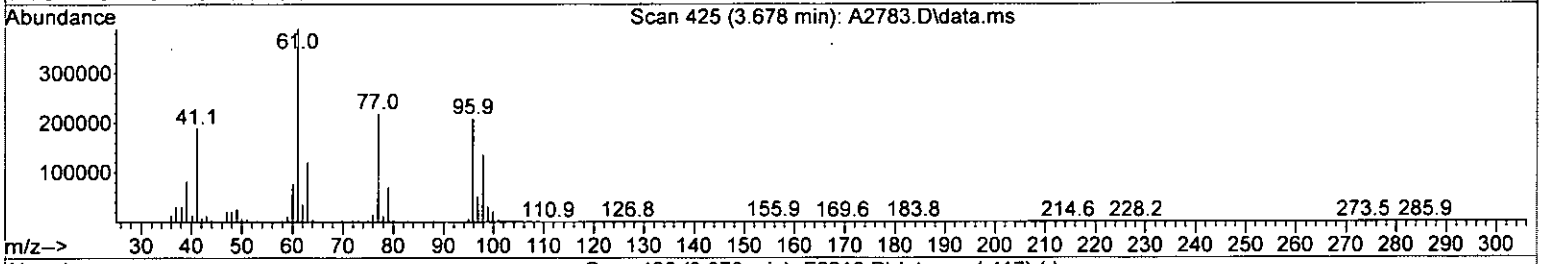
Quantitation Report (Qedit)

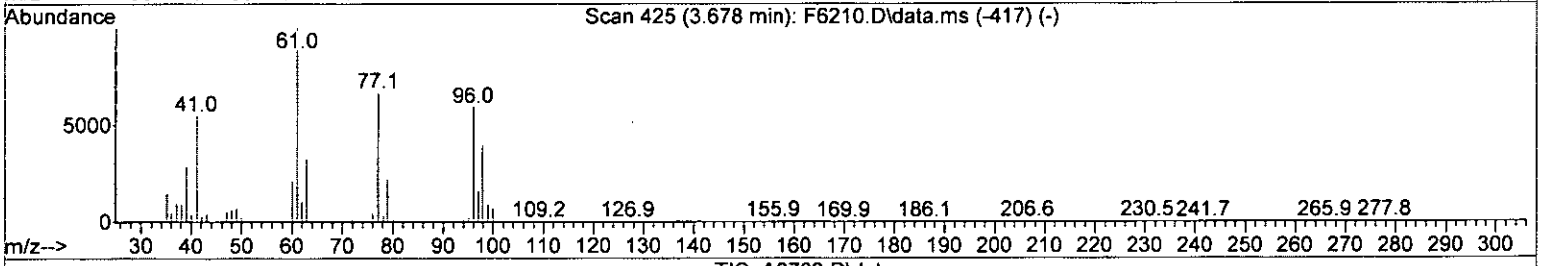
Sample : R1407806-011MS[50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 20:38:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



A MP 10/14/14 10/14/14





TIC: A2783.D\data.ms

(34) cis-1,2-Dichloroethene (P)

3.678min (-0.000) 45.78 ug/L m

response 422307

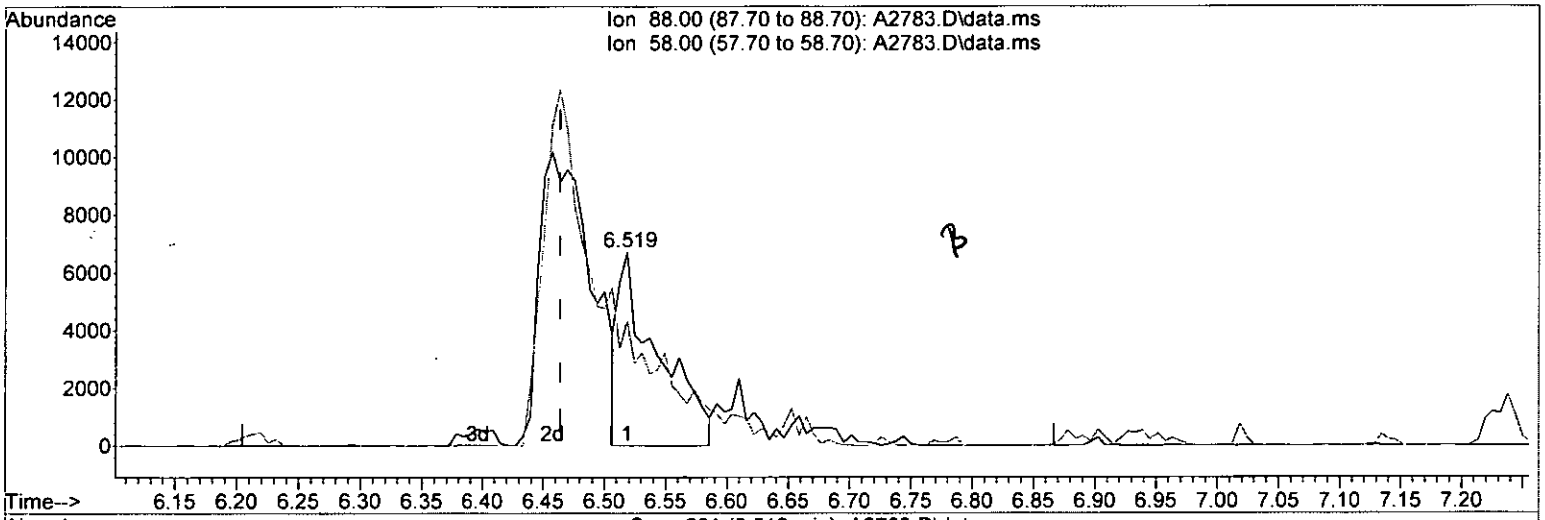
Ion	Exp%	Act%
96.00	100	100
61.00	148.30	187.31#
0.00	0.00	0.00
0.00	0.00	0.00

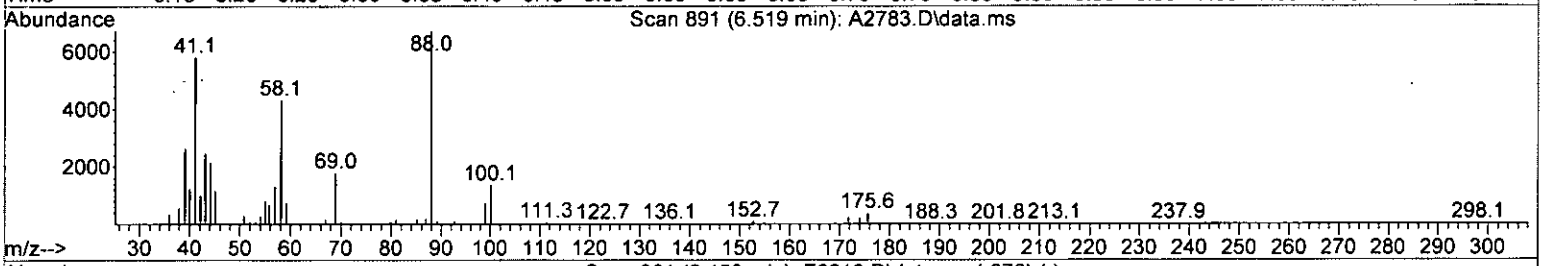
W072114.M Tue Oct 14 15:16:57 2014 MSVO10 Page: 1

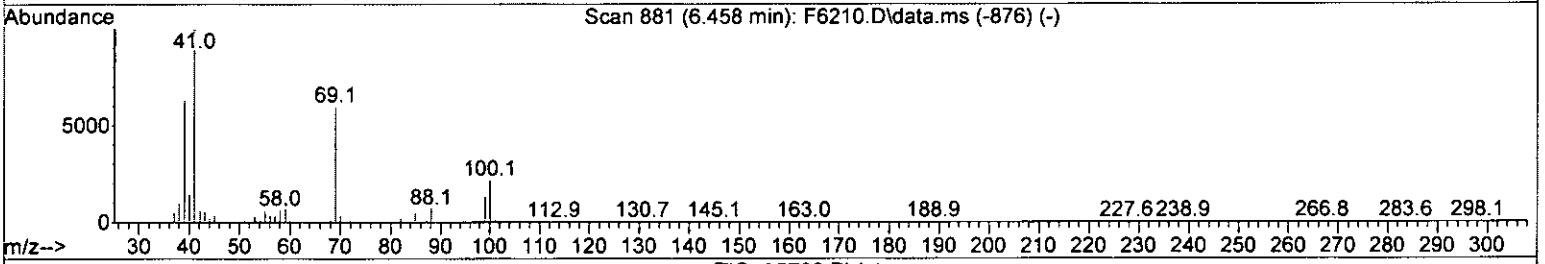
Quantitation Report (Qedit)

Sample : R1407806-011MS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 20:38:22 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2783.D\data.ms

(58) 1,4-Dioxane

6.519min (+0.055) 280.66 ug/L

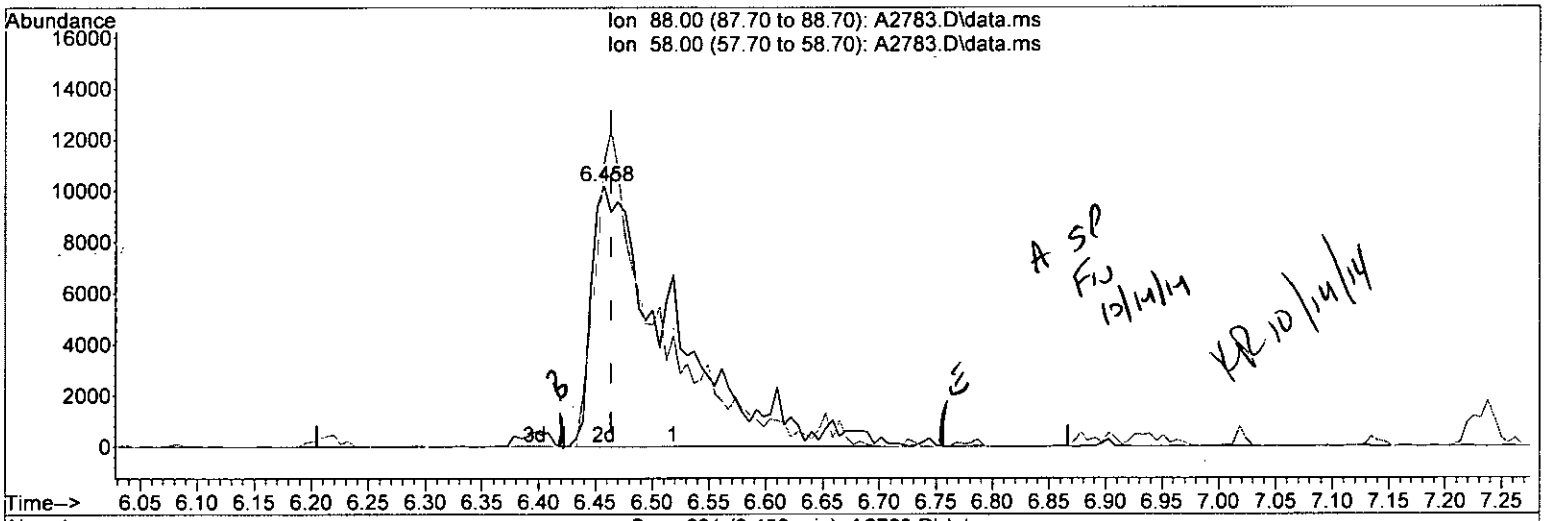
response 15065

Ion	Exp%	Act%
88.00	100	100
58.00	73.00	64.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Sample : R1407806-011MS[50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
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Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2783.D\data.ms

(58) 1,4-Dioxane

6.458min (-0.006) 948.06 ug/L m

response 50889

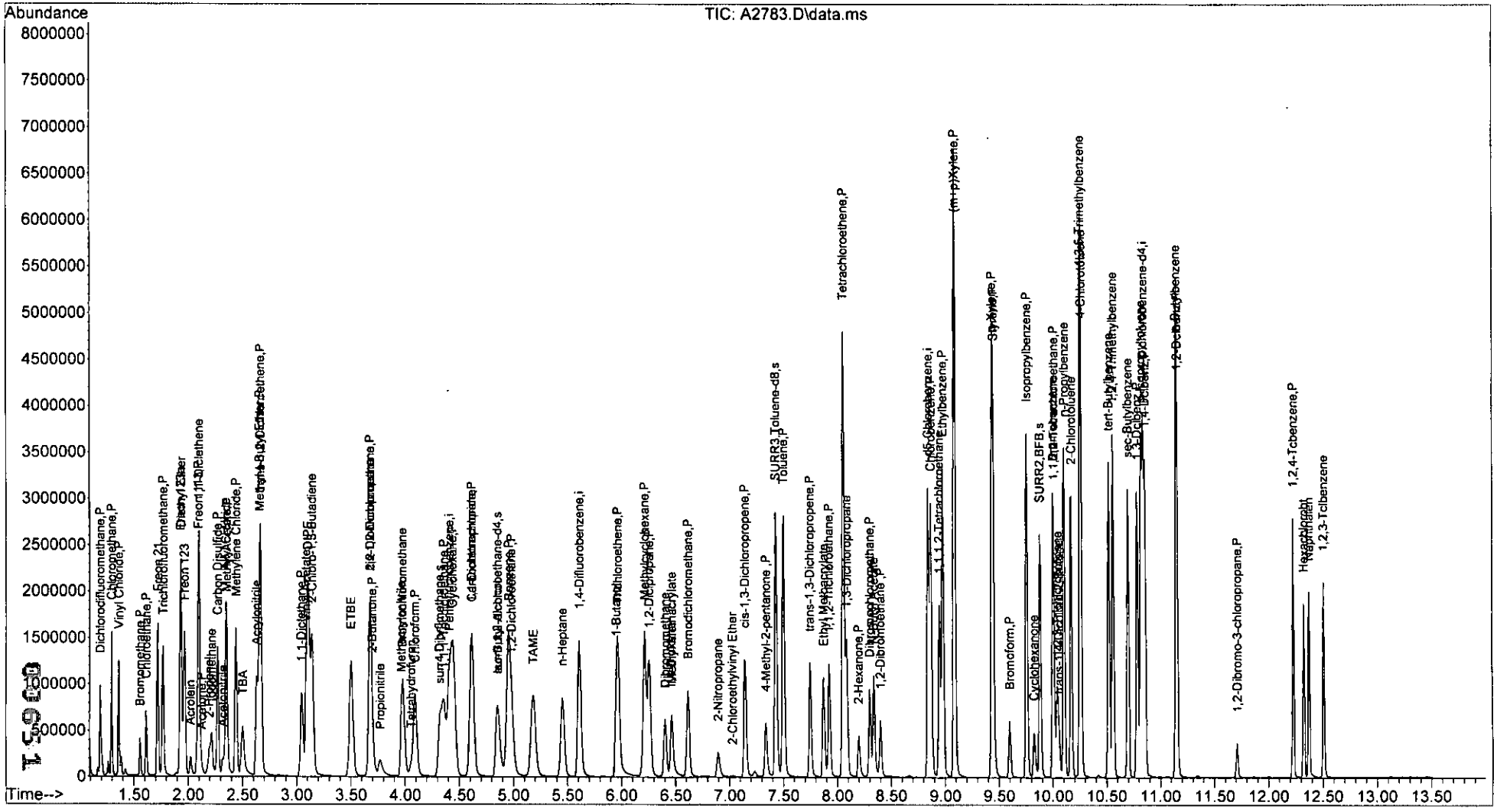
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	109.14#
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 15:17:24 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : R1407806-011MS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2783.D Vial: 22
Acq On : 9 Oct 2014 8:25 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:17:42 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Tue Oct 14 15:18:02 2014 MSVO10

ALS Group USA, Corp. dba ALS Environmental

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 20:55
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	RQ1412440-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2784.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**2680**		250	50	11	
71-55-6	1,1,1-Trichloroethane (TCA)	**2710**		250	50	18	
79-34-5	1,1,2,2-Tetrachloroethane	**2860**		250	50	13	
79-00-5	1,1,2-Trichloroethane	**2650**		250	50	17	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**2480**		250	50	10	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**2810**		250	50	29	
563-58-6	1,1-Dichloropropene	**2800**		250	50	15	
87-61-6	1,2,3-Trichlorobenzene	**2970**		250	50	41	
96-18-4	1,2,3-Trichloropropane	**2680**		250	50	35	
120-82-1	1,2,4-Trichlorobenzene	**2760**		250	50	12	
95-63-6	1,2,4-Trimethylbenzene	**2580**		250	50	10	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**3270**		250	50	37	
106-93-4	1,2-Dibromoethane	**2870**		250	50	12	
95-50-1	1,2-Dichlorobenzene	**2540**		250	50	11	
107-06-2	1,2-Dichloroethane	**2840**		250	50	18	
78-87-5	1,2-Dichloropropane	**2680**		250	50	10	
108-67-8	1,3,5-Trimethylbenzene	**2560**		250	50	10	
541-73-1	1,3-Dichlorobenzene	**2510**		250	50	10	
142-28-9	1,3-Dichloropropane	**2810**		250	50	14	
106-46-7	1,4-Dichlorobenzene	**2480**		250	50	10	
594-20-7	2,2-Dichloropropane	**2410**		250	50	14	
78-93-3	2-Butanone (MEK)	**2580**		250	50	41	
95-49-8	2-Chlorotoluene	**2640**		250	50	10	
591-78-6	2-Hexanone	**2930**		250	250	83	
75-65-0	tert-Butyl Alcohol	**63300**		5000	1000	540	
106-43-4	4-Chlorotoluene	**2610**		250	50	12	
99-87-6	p-Isopropyltoluene	**2550**		250	50	10	
108-10-1	4-Methyl-2-pentanone	**2960**		250	50	34	
67-64-1	Acetone	**1880**		250	250	62	
71-43-2	Benzene	**2600**		250	50	10	
108-86-1	Bromobenzene	**2590**		250	50	15	
74-97-5	Bromochloromethane	**2420**		250	50	16	
75-27-4	Bromodichloromethane	**2840**		250	50	16	
75-25-2	Bromoform	**2880**		250	50	21	
74-83-9	Bromomethane	**2200**		250	50	15	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 20:55
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	RQ1412440-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2784.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**2870**		250	50	23	
108-90-7	Chlorobenzene	**2570**		250	50	15	
75-00-3	Chloroethane	**2440**		250	50	12	
67-66-3	Chloroform	**2600**		250	50	13	
74-87-3	Chloromethane	**2490**		250	50	11	
124-48-1	Dibromochloromethane	**2800**		250	50	16	
75-71-8	Dichlorodifluoromethane (CFC 12)	**2600**		250	50	23	
75-09-2	Methylene Chloride	**2460**		250	50	16	
100-41-4	Ethylbenzene	**2430**		250	50	10	
87-68-3	Hexachlorobutadiene	**2850**		250	50	31	
98-82-8	Isopropylbenzene (Cumene)	**2670**		250	50	10	
1634-04-4	Methyl tert-Butyl Ether	**2840**		250	50	15	
91-20-3	Naphthalene	**2980**		250	50	10	
100-42-5	Styrene	**2730**		250	50	10	
127-18-4	Tetrachloroethene (PCE)	**6660**		250	50	15	
108-88-3	Toluene	**2540**		250	50	10	
79-01-6	Trichloroethene (TCE)	**2520**		250	50	11	
75-69-4	Trichlorofluoromethane (CFC 11)	**2650**		250	50	10	
75-01-4	Vinyl Chloride	**2330**		250	50	16	
156-59-2	cis-1,2-Dichloroethene	**2410**		250	50	15	
10061-01-5	cis-1,3-Dichloropropene\	**2830**		250	50	12	
179601-23-1	m,p-Xylenes	**5290**		500	100	17	
104-51-8	n-Butylbenzene	**2670**		250	50	11	
103-65-1	n-Propylbenzene	**2680**		250	50	10	
95-47-6	o-Xylene	**2620**		250	50	10	
135-98-8	sec-Butylbenzene	**2480**		250	50	14	
98-06-6	tert-Butylbenzene	**2490**		250	50	10	
156-60-5	trans-1,2-Dichloroethene	**2430**		250	50	17	
10061-02-6	trans-1,3-Dichloropropene	**3070**		250	50	10	

Client:	Parsons Engineering Science	**Service Request:**	R1407806
Project:	FTMM 3 Quarter 2014/748810-03000	**Date Collected:**	9/30/14 1018
Sample Matrix:	Water	**Date Received:**	10/ 3/14
		Date Analyzed:	10/9/14 20:55
Sample Name:	FTMM-68-GW-565MW01D-22.31	**Units:**	µg/L
Lab Code:	RQ1412440-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	415420
Data File Name:	I:\ACQUDATA\msvoa10\data\100914\A2784.D\	**Instrument Name:**	R-MS-10
		Dilution Factor:	50

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	75-120	10/9/14 20:55	
Dibromofluoromethane	107	85-115	10/9/14 20:55	
Toluene-d8	101	85-120	10/9/14 20:55	

Quantitation Report (QT Reviewed)

Sample : R1407806-011DMS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

1412445-56
RQ 1444
EJ 10/14/14

Quant Time: Oct 14 15:19:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

FJ 10/14/14

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.409	168	979625	50.00	ug/L		0.00
43) 1,4-Difluorobenzene	5.610	114	1378101	50.00	ug/L		0.00
71) d5-Chlorobenzene	8.841	117	1205763	50.00	ug/L		0.00
91) 1,4-Dichlorobenzene-d4	10.835	152	657062	50.00	ug/L		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.324	113	468027	53.26	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.52%				
48) surr1,1,2-dichloroetha...	4.848	65	519557	56.02	ug/L		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 112.04%				
65) SURR3,Toluene-d8	7.427	98	1564300	50.54	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.08%				
70) SURR2,BFB	9.878	95	615378	50.53	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.06%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.190	85	549103	52.08	ug/L		99
3) Chloromethane	1.294	50	699063	49.73	ug/L		100
4) Vinyl Chloride	1.361	62	598095	46.58	ug/L		100
5) Bromomethane	1.556	94	164174	43.98	ug/L		96
6) Chloroethane	1.611	64	317525	48.81	ug/L		95
7) Freon 21	1.721	67	979611	54.22	ug/L		97
8) Trichlorofluoromethane	1.770	101	770379	52.97	ug/L		99
9) Diethyl Ether	1.934	59	386579	50.47	ug/L		80
10) Freon 123a	1.928	67	594225	52.23	ug/L		93
11) Freon 123	1.965	83	607677	50.19	ug/L		98
12) Acrolein	2.026	56	122278	102.06	ug/L		97
13) 1,1-Diclethene	2.099	96	384303	56.29	ug/L	#	78
14) Freon 113	2.093	101	426292	49.42	ug/L		96
15) Acetone	2.123	43	112189	37.61	ug/L		99
16) 2-Propanol	2.196	45	470506	1115.48	ug/L		95
17) Iodomethane	2.215	142	388070	49.89	ug/L		99
18) Carbon Disulfide	2.270	76	1207650	41.81	ug/L		99
19) Acetonitrile	2.318	40	80849	252.85	ug/L		94
20) Allyl Chloride	2.349	76	204790	47.72	ug/L	#	34
21) Methyl Acetate	2.355	43	330100	55.78	ug/L		86
22) Methylene Chloride	2.440	84	440428	49.15	ug/L	#	74
23) TBA	2.501	59	642546	1265.40	ug/L		85
24) Acrylonitrile	2.629	53	745452	271.94	ug/L		97
25) Methyl-t-Butyl Ether	2.660	73	1112392	56.87	ug/L		88
26) trans-1,2-Dichloroethene	2.666	96	427784	48.60	ug/L	#	79
28) 1,1-Diclethane	3.044	63	922561	49.56	ug/L		97
29) Vinyl Acetate	3.086	86	61873m	56.50	ug/L		
30) DIPE	3.105	45	2017371	47.21	ug/L		89
31) 2-Chloro-1,3-Butadiene	3.141	53	926974	50.63	ug/L		79
32) ETBE	3.501	59	1368483	47.76	ug/L		90
33) 2,2-Dichloropropane	3.678	77	554821	48.12	ug/L		98
34) cis-1,2-Dichloroethene	3.678	96	464307	48.23	ug/L	#	78
35) 2-Butanone	3.696	43	202939	51.62	ug/L		87
36) Propionitrile	3.769	54	258949	272.75	ug/L		95
37) Bromochloromethane	3.983	130	286084	48.33	ug/L	#	71

Quantitation Report (QT Reviewed)

Sample : R1407806-011DMS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:19:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.964	67	128461	60.39	ug/L	#	49
39)	Tetrahydrofuran	4.056	42	125977	57.86	ug/L		79
40)	Chloroform	4.092	83	844189	52.05	ug/L		97
41)	1,1,1-Trichloroethane	4.354	97	727173	54.19	ug/L		97
42)	TAME	5.184	73	981864	50.78	ug/L		88
44)	Cyclohexane	4.440	41	600586	48.13	ug/L		90
46)	Carbontetrachloride	4.617	121	201790	57.48	ug/L		91
47)	1,1-Dichloropropene	4.617	75	603135	55.96	ug/L		95
49)	Benzene	4.952	78	1749528	51.94	ug/L		88
50)	1,2-Dichloroethane	4.989	62	664320	56.84	ug/L		94
51)	Iso-Butyl Alcohol	4.854	43	328042	1198.38	ug/L		97
52)	n-Heptane	5.452	43	591707	46.57	ug/L	#	79
53)	1-Butanol	5.946	56	396480	3252.28	ug/L		86
54)	Trichloroethene	5.964	130	473092	50.37	ug/L		98
55)	Methylcyclohexane	6.214	55	640578	49.48	ug/L	#	78
56)	1,2-Diclpropane	6.257	63	526990	53.67	ug/L		97
57)	Dibromomethane	6.403	93	249141	52.63	ug/L		95
58)	1,4-Dioxane	6.458	88	61168m	1094.78	ug/L		
59)	Methyl Methacrylate	6.464	69	221662	63.56	ug/L	#	59
60)	Bromodichloromethane	6.616	83	611458	56.88	ug/L		97
61)	2-Nitropropane	6.891	41	168033	123.93	ug/L		91
62)	2-Chloroethylvinyl Ether	7.019	63	2763	0.67	ug/L		78
63)	cis-1,3-Dichloropropene	7.141	75	643498	56.67	ug/L		97
64)	4-Methyl-2-pentanone	7.336	43	434385	59.15	ug/L		91
66)	Toluene	7.500	91	1793022	50.80	ug/L		99
67)	trans-1,3-Dichloropropene	7.744	75	551681	61.39	ug/L		97
68)	Ethyl Methacrylate	7.872	69	431012	58.86	ug/L	#	57
69)	1,1,2-Trichloroethane	7.921	97	329736	52.95	ug/L		94
72)	Tetrachloroethene	8.055	164	928748	133.20	ug/L		99
73)	2-Hexanone	8.195	43	298678	58.61	ug/L		89
74)	1,3-Dichloropropane	8.085	76	580158	56.15	ug/L	#	77
75)	Dibromochloromethane	8.299	129	412141	55.97	ug/L		98
76)	N-Butyl Acetate	8.335	43	728930	64.28	ug/L		94
77)	1,2-Dibromoethane	8.396	107	336064	57.37	ug/L		98
79)	Chlorobenzene	8.866	112	1194841	51.40	ug/L		99
81)	1,1,1,2-Tetrachloroethane	8.945	131	435631	53.54	ug/L		98
82)	Ethylbenzene	8.976	106	563624	48.65	ug/L		97
83)	(m+p)Xylene	9.085	106	1511927	105.83	ug/L		99
84)	o-Xylene	9.433	106	730499	52.30	ug/L		100
85)	Styrene	9.445	104	1266778	54.59	ug/L		99
86)	Bromoform	9.597	173	243313	57.52	ug/L		100
88)	Isopropylbenzene	9.756	105	1873467	53.33	ug/L		99
89)	Cyclohexanone	9.823	55	226793	204.33	ug/L		99
90)	trans-1,4-Dichloro-2-B...	10.055	53	81829	45.61	ug/L		80
92)	1,1,2,2-Tetrachloroethane	10.006	83	412167	57.17	ug/L		99
93)	Bromobenzene	10.000	156	513338	51.75	ug/L		94
94)	1,2,3-Trichloropropane	10.036	110	108129	53.64	ug/L		98
95)	n-Propylbenzene	10.103	91	2195579	53.55	ug/L		99
96)	2-Chlorotoluene	10.170	91	1336636	52.83	ug/L		97
98)	4-Chlorotoluene	10.256	91	1586381	52.12	ug/L		98
99)	1,3,5-Trimethylbenzene	10.250	105	1528261	51.26	ug/L		98
100)	tert-Butylbenzene	10.518	119	1242839	49.73	ug/L		99

Quantitation Report (QT Reviewed)

Sample : R1407806-011DMS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:19:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration

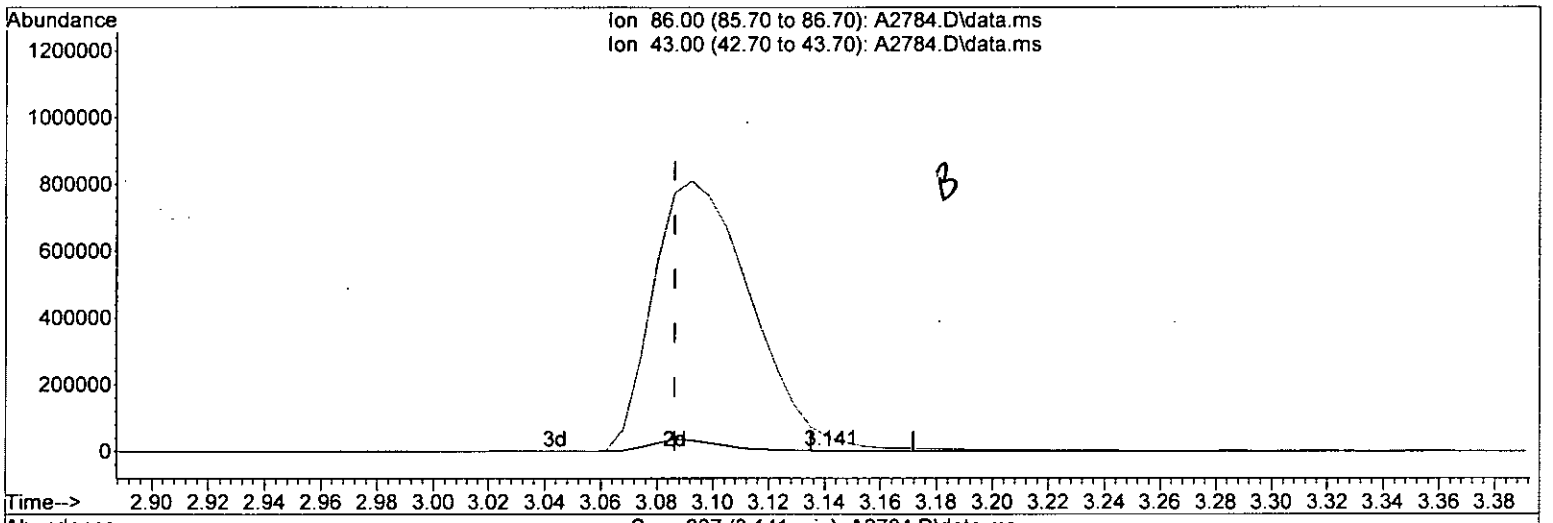
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101)	1,2,4-Trimethylbenzene	10.555	105	1554691	51.58	ug/L	100
103)	sec-Butylbenzene	10.695	105	1739163	49.64	ug/L	99
104)	p-Isopropyltoluene	10.817	119	1550621	51.02	ug/L	98
105)	1,3-Dclbenz	10.780	146	950907	50.11	ug/L	98
106)	1,4-Dclbenz	10.853	146	974405	49.57	ug/L	99
109)	n-Butylbenzene	11.140	91	1373243	53.32	ug/L	99
110)	1,2-Dclbenz	11.152	146	904202	50.71	ug/L	99
111)	1,2-Dibromo-3-chloropr...	11.707	157	71750	65.37	ug/L	90
115)	1,2,4-Tcbenzene	12.225	180	558341	55.27	ug/L	97
116)	Hexachlorobt	12.322	225	235892	57.05	ug/L	97
117)	Naphthalen	12.371	128	1032902	59.51	ug/L	99
118)	1,2,3-Tclbenzene	12.505	180	439031	59.30	ug/L	94

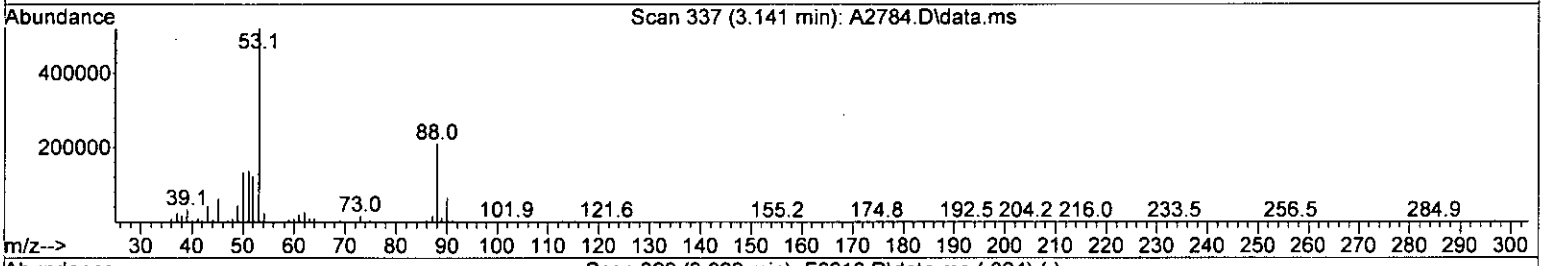
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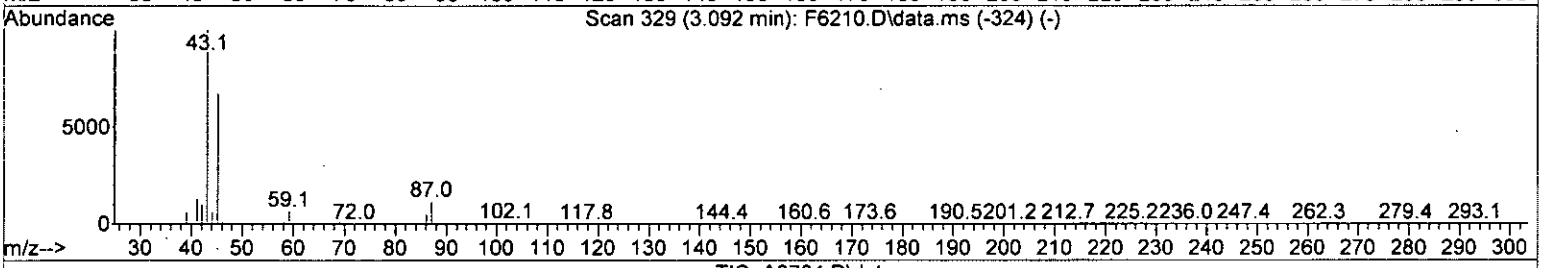
Quantitation Report (Qedit)

Sample : R1407806-011DMS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 21:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2784.D\data.ms

(29) Vinyl Acetate

3.141min (+0.055) 1.80 ug/L

response 1972

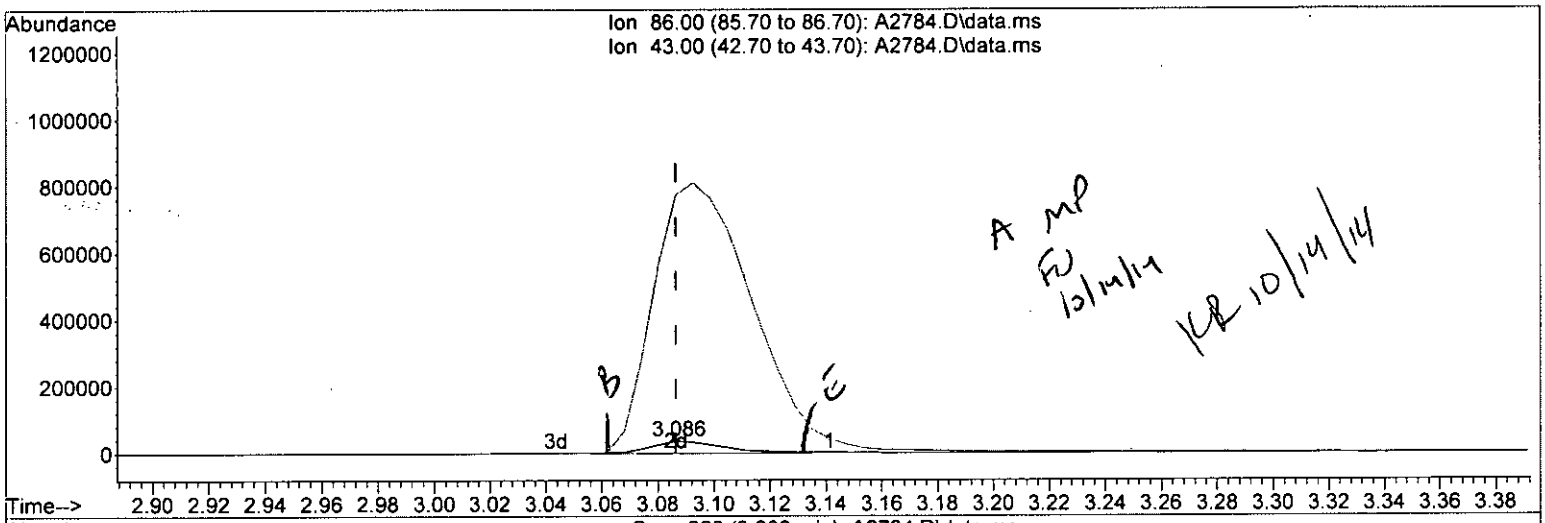
Ion	Exp%	Act%
86.00	100	100
43.00	1729.40	1741.04
0.00	0.00	0.00
0.00	0.00	0.00

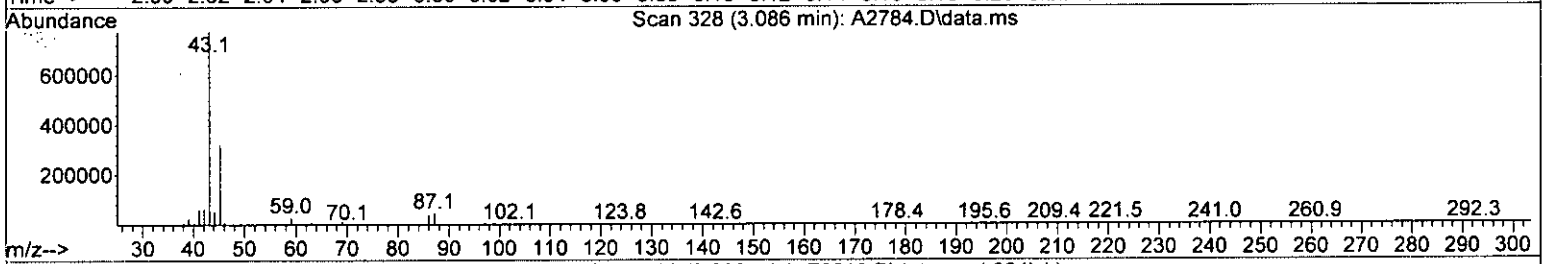
W072114.M Tue Oct 14 15:18:22 2014 MSVO10 Page: 1

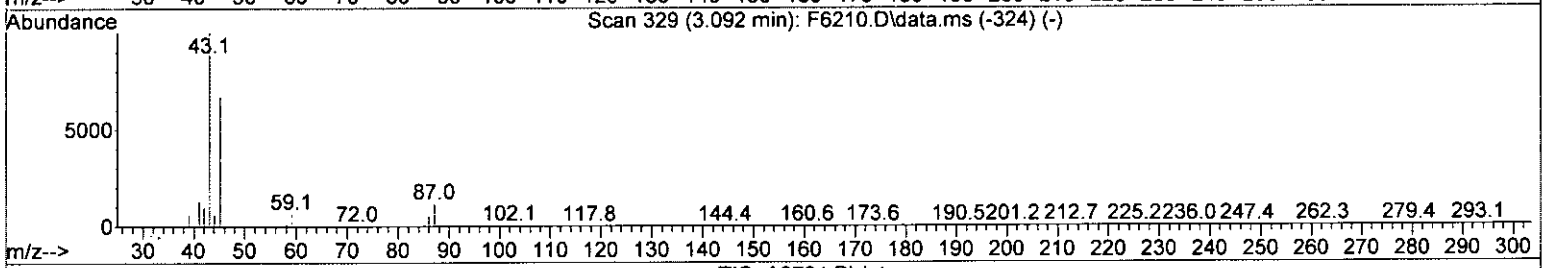
Quantitation Report (Qedit)

Sample : R1407806-011DMS 50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 21:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2784.D\data.ms

(29) Vinyl Acetate

3.086min (-0.000) 56.50 ug/L m

response 61873

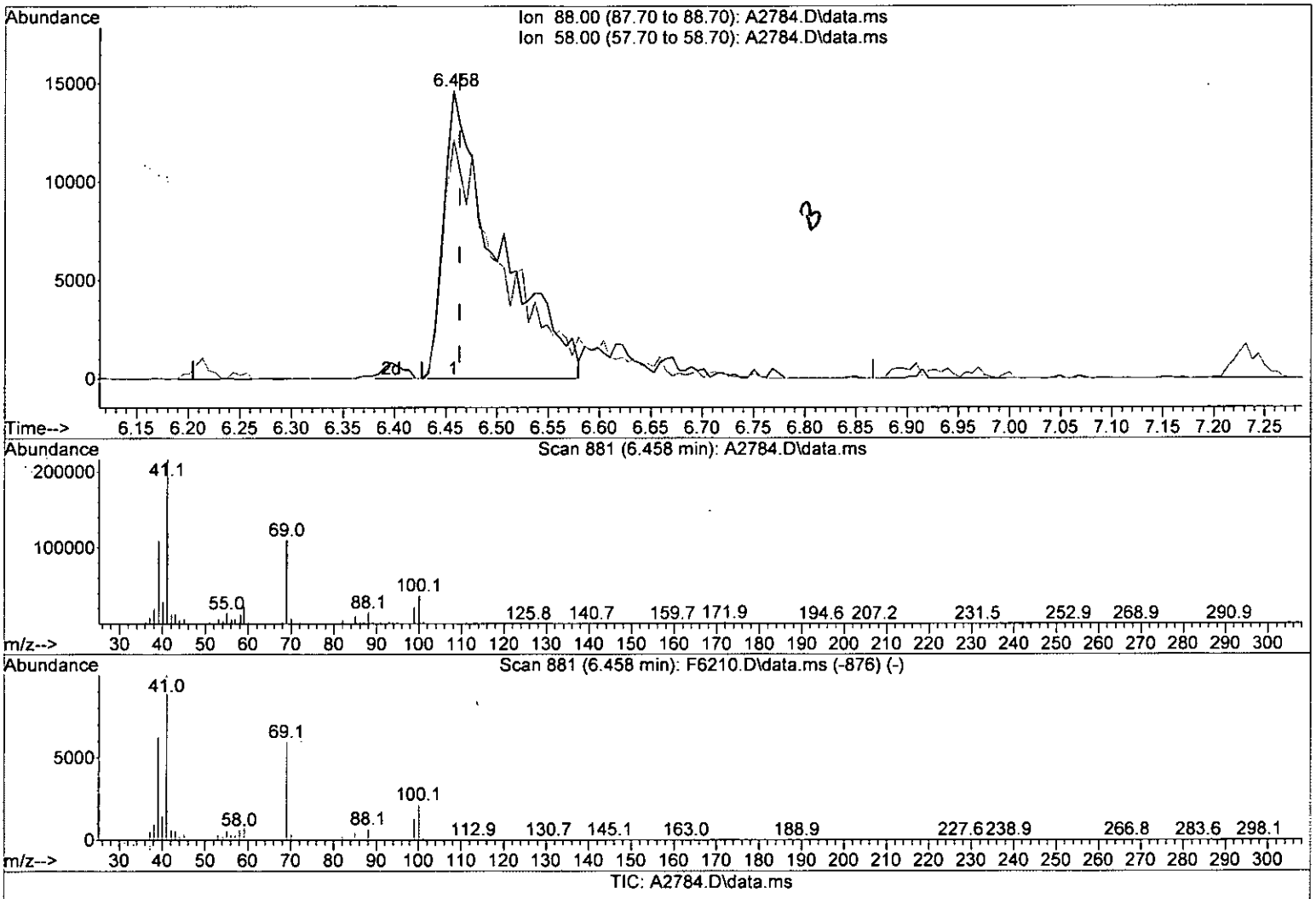
Ion	Exp%	Act%
86.00	100	100
43.00	1729.40	2136.57#
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 15:18:28 2014 MSVO10 Page: 1

Quantitation Report (Qedit)

Sample : R1407806-011DMS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 21:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



TIC: A2784.D\data.ms

(58) 1,4-Dioxane

6.458min (-0.006) 954.41 ug/L

response 53325

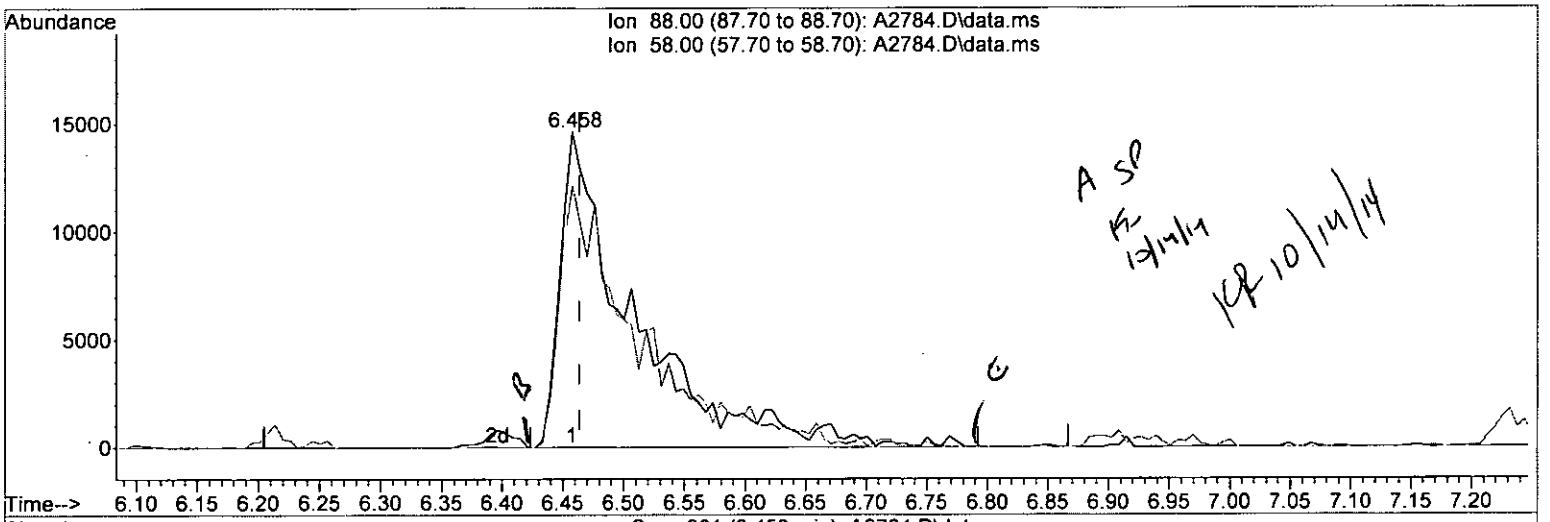
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	82.87
0.00	0.00	0.00
0.00	0.00	0.00

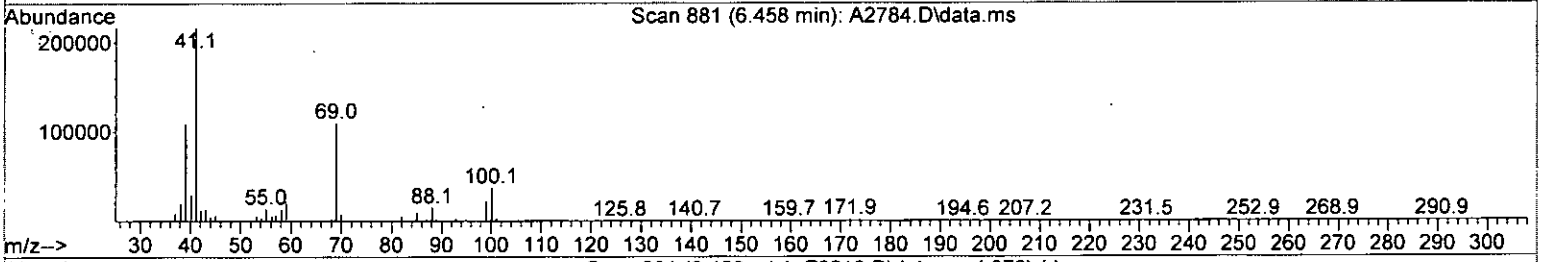
W072114.M Tue Oct 14 15:18:45 2014 MSVO10 Page: 1

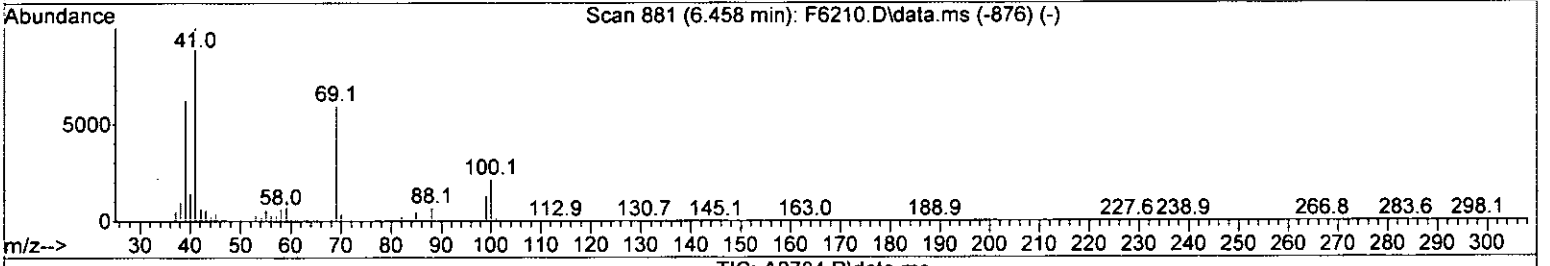
Quantitation Report (Qedit)

Sample : R1407806-011DMS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 09 21:08:08 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration







TIC: A2784.D\data.ms

(58) 1,4-Dioxane

6.458min (-0.006) 1094.78 ug/L m

response 61168

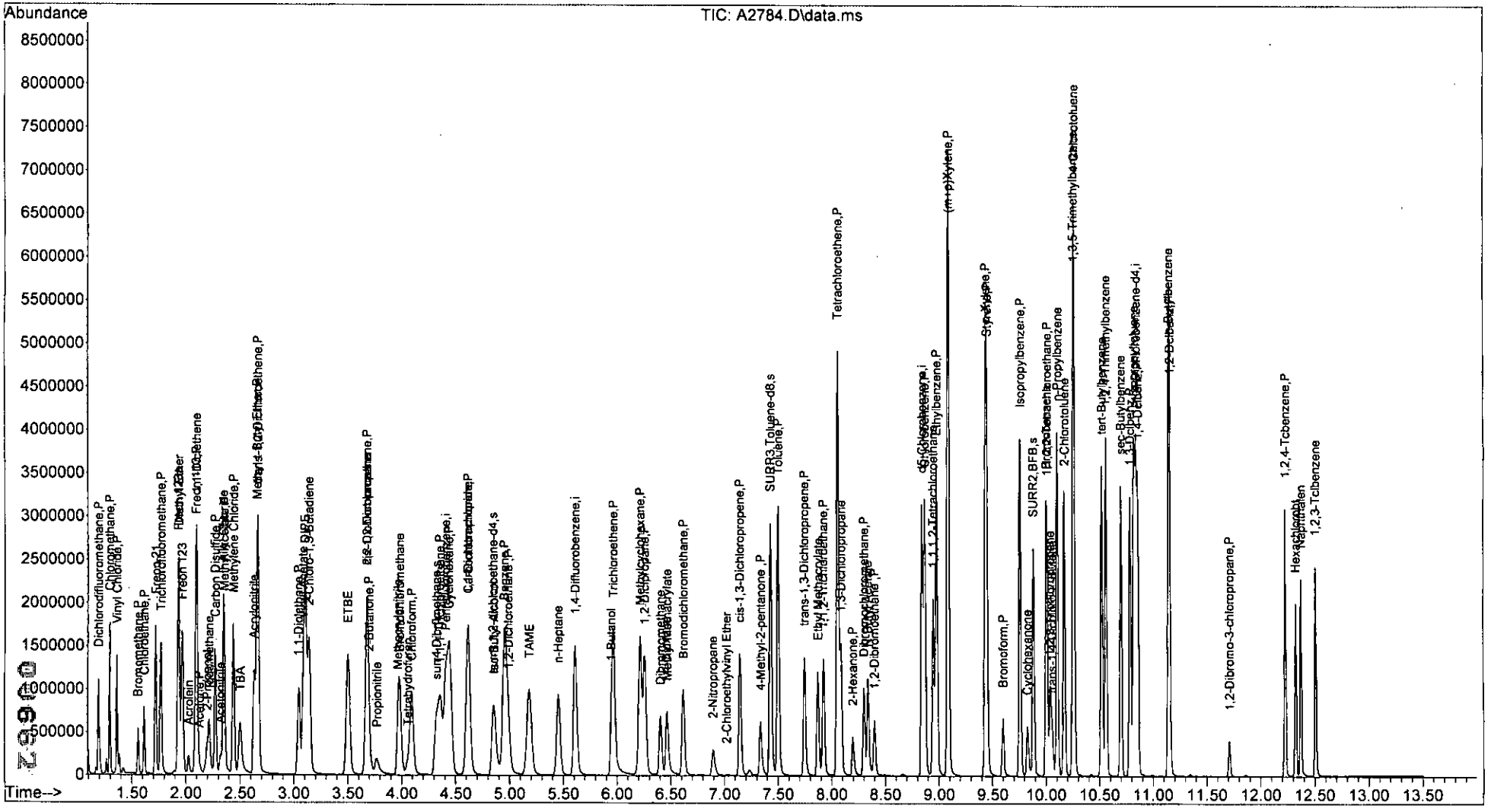
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	82.87
0.00	0.00	0.00
0.00	0.00	0.00

W072114.M Tue Oct 14 15:18:53 2014 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Sample : R1407806-011DMS|50.0
Data File : I:\ACQUDATA\msvoa10\data\100914\A2784.D Vial: 23
Acq On : 9 Oct 2014 8:55 pm
Operator : F.NAEGLER
InstName : MSVOA10
Misc : PARSONS 11603 T4

Quant Time: Oct 14 15:19:12 2014
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W072114.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Jul 22 13:18:57 2014
Response via : Initial Calibration



W072114.M Tue Oct 14 15:19:32 2014 MSVO10

Analysis: 8260C
Analyst: F. Naegler
Tune Method: T072114.M
Date: 7/21/14
Data Path: j:\acqudata\msvoa10\072114
Run Method: W072114.M
Instr. MS#10
LIMS Run# : —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								A0506	Y	
2	BLK								A0507	Y	
1	TUNE								08	Y	
2	ICAL BLK								09	Y	
3	0.5ppb Std								10	Y	
4	1.0								11	Y	
5	2.0								12	Y	
6	5.0								13	Y	
7	10								14	Y	
8	50								15	Y	
9	100								16	Y	
10	150								17	Y	
11	200								18	Y	
12	BLK								19	Y	
13	BLK								20	Y	
14	50ppb ICV								21	Y	
15	BLK								22	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	10	50	100	150	200
T/G = 72623	10mL/1mL 5mL/500µL	10mL/5mL	20mL/5mL	50mL/5mL	2mL/100mL	5mL/50mL	10mL/5mL	15mL/5mL	20mL/5mL
HSL = 72499	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fr = 72625	↓	↓	↓	↓	↓	↓	↓	↓	↓
HBO = 72046	↓	↓	↓	↓	↓	↓	↓	↓	↓
OCC = 72130	↓	↓	↓	↓	↓	↓	↓	↓	↓
SURR = 72622	—	—	—	1mL/50mL	4mL/100mL	—	5mL/50mL	7.5mL/50mL	10mL/50mL

T/G Primary 500 : SEE ICAL TABLE
HSL Primary :
Fr Primary :
HBO Primary :
OCC Primary :

Fr Secondary 500 : 72454 - 12.5mL
T/G Secondary 200 : 72050 - 5mL
HSL Secondary : 72064 -
HBO Secondary : 72455 -
OCC Secondary : 72140 -

50mL (ICV)

Combined IS/Surr 500 : 72621
Surrogate : —
Internal Std : —

Runlog-MSVOAr2 9/20/13
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Analysis: 8260C Analyst: F. Naegler Tune Method: T072114.M
Date: 10/9/14 Data Path: j:\acqudata\msvoa_01\100914 Run Method: W072114.M
Instr. MS #10 LIMS Run#: 415420

Pos.	Sample	Diln.	Diln. Prep:	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	TUNE								A2761	(N)	
1	TUNE								62	Y	
2	CCV								63	Y	
3	LCS								64	Y	
4	MBLK								65	(N)	
5	MBLK								66	Y	BQ1412440-01
6	BI407806-016	1.0		[redacted]	11603	4	1	<2	67	Y	
7	-017	1.0					1	<2	68	Y	
8	-018	1.0					1	<2	69	Y	
9	-019	1.0					1	<2	70	Y	
10	-011	50.0	1/5mL				2	<2	71	Y	DE FU 10/14/14
11	-001	1.0					2	<2	72	Y	
12	-002	1.0					2	<2	73	Y	
13	-004	1.0					2	<2	74	Y	
14	-005	1.0					2	<2	75	Y	
15	-006	1.0					2	<2	76	Y	
16	-014	1.0					2	<2	77	Y	
17	-015	1.0					2	<2	78	Y	
18	-008	1.0					2	<2	79	Y	
19	-013	1.0					2	<2	80	Y	
20	-010	5.0	10/5mL				2	<2	81	Y	
21	-007	1.0					2	<2	82	Y	
22	-011MS	50.0	1/5mL				2	<2	83	Y	
23	-011MSD	50.0	↓				2	<2	84	Y	
24	BLK								85	Y	

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

T/G Primary 500 : 75337 - 5mL/5mL
HSL Primary : 75338 -
Fr Primary : 75277 - (CCV)
HBO Primary : 75032 -
Primary :

Fr Secondary 200 : 75142 - 5mL | 5mL | -12.5mL | 5mL
T/G Secondary 500 : 75033 - 2mL | | -5mL |
HSL Secondary : 75084 - 1 | | (LCS) | (SPK)
HBO Secondary : 74908 - 1 | |
Secondary

Combined IS/Surr 500 : 75442
Surrogate :
Internal Std :

Analysis: 8260C Analyst: F. Naegler Tune Method: T072114.M
Date: 10/14/14 Data Path: j:\acqudata\msvoa10\101414 Run Method: W072114.M
Instr. MS #10 LIMS Run#: 416090

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	TUNE								A2938	Y	
2	CCV								39	Y	
3	LCS								40	Y	
4	MBLK								41	(N)	
5	MBLK								42	Y	BQ1412540-01
6	R1408097-001	1.0		[redacted]	6691	1	2	<2	43	Y	
7	-002	1.0					2	<2	44	Y	
8	-003	1.0					2	<2	45	Y	
9	-004	1.0					2	<2	46	Y	
10	-005	1.0					2	<2	47	Y	
11	R1407806-012	1.0		[redacted]	11603	4	2	<2	48	Y	
12	-003	1.0					2	<2	49	Y	
13	-009	1.0					2	<2	50	Y	
14	BLK								51	Y	
15	R1407825-001	1.0		[redacted]	11603	4	1	<2	52	Y	
16	-002	1.0					1	<2	53	Y	
17	-003	1.0					1	<2	54	Y	
18	-004	1.0					1	<2	55	Y	
19	-009	1.0					1	<2	56	Y	
20	-010	1.0					1	<2	57	Y	
21	-003MS	1.0					2	<2	58	Y	
22	-003MSD	1.0					3	<2	59	Y	
23	R1407806-003MS	1.0		[redacted]	11603	4	4	<2	60	Y	
24	-003MSD	1.0					5	<2	61	Y	
25	BLK								62	Y	

RD 10/15/14

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

VOA Primary 500 : 75337 - 5mL | 50mL
HSL Primary : 75338 -
Fr Primary : 75277 - | (CCV)
HBs Primary : 75032 -
Primary :

Fr Secondary 200 : 75142 - 5mL | -125mL
T/Gs Secondary 500 : 75033 - 2mL | -5mL
HSL Secondary : 75084 - | 50mL (LCS)
HBs Secondary : 74908 - | 50mL (SPK)
Secondary

Combined IS/Surr 500 : 75442
Surrogate : —
Internal Std : —