FINAL

GROUNDWATER SAMPLING REPORT
FIRST QUARTER 2015

FTMM-22, FTMM-53 and FTMM-68

FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

BRAC 05 Facility
Contract W912DY-09-D-0062
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Huntsville, Alabama

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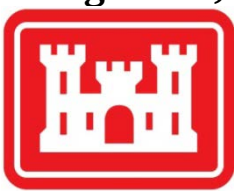

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Revision No. 0
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FINAL
GROUNDWATER SAMPLING REPORT
FIRST QUARTER 2015

Client Name:	**U.S. Army Engineering & Support Center, Huntsville (USAESCH)**
Contract Name:	**Remedial Investigation/Feasibility Study/Decision Documents, Fort Monmouth, Oceanport, Monmouth County, New Jersey**
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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 Ppurging 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 First Quarter 2015 Event performed at three sites within Fort Monmouth (FTMM) by Parsons Government Services, Inc. (Parsons) to support the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at FTMM, Oceanport, Monmouth County, New Jersey. The three sites are as follows:

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

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

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

- New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (TRSR) (N.J.A.C. 7:26E); and
- New Jersey Field Sampling Procedures Manual (FSPM) (February 2006).

1.1 PURPOSE AND SCOPE

Groundwater sampling was conducted between December 2014 and March 2015, 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 First Quarter 2015 Report includes the following sections:

- Section 1 provides an introduction and organization to the report;
- Section 2 presents general information on the first quarter 2015 groundwater sampling event, a description of any significant deviations or events that may have impacted results, and the usability of laboratory analytical data;
- Section 3 provides the applicable remedial standards for FTMM;
- Section 4 presents the references used in preparation of this report;
- Appendices A through C provide the groundwater analytical results for the first quarter 2015;
- Appendix D provides a memorandum regarding data validation for the first quarter 2015 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 of wells at each site and the number of wells sampled for this quarterly event is provided in **Table 1**. The locations of the three sites discussed in this report are provided in **Figure 1**, **Figure 2**, and **Figure 3**.

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

2.2 SUMMARY OF FIELD AND LABORATORY WORK

2.2.1 Water Level Measurements

On December 18, 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 December 18, 2014 and samples were retrieved on March 30, 2015. NJDEP approved the use of PDB sampling in a letter dated July 29, 2013 at FTMM-22 and FTMM-68, and at the time FTMM-53 was not approved for PBDs because of the historical presence of methyl tert-butyl ether (MTBE) in groundwater. However, the August 2013 baseline and 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. 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 2015 first 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 2015 first 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 2015.

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

TABLES

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

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

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

Notes:

1) MP - Main Post

2) CW - Charles Wood

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

Site / Well ID	Analytical Analysis	Sampling Method	Sample Date
FTMM-22: Former Wastewater Treatment Lime Pit (CWA-1)			
CW1MW27	VOCs & TICs-EPA Method 8260C	PDB	12/18/14, 3/30/15
CW1MW28			12/18/14, 3/30/15
CW1MW29			12/18/14, 3/30/15
CW1MW31			12/18/14, 3/30/15
CW1MW37			12/18/14, 3/30/15
CW1MW281			12/18/14, 3/30/15
FTMM-53: Former Gas Station at Building 699			
699MW01	VOCs & TICs-EPA Method 8260C	PDB	12/18/14, 3/30/15
699MW04			12/18/14, 3/30/15
699MW06			12/18/14, 3/30/15
699MW09			12/18/14, 3/30/15
699MW16			12/18/14, 3/30/15
699RW03			12/18/14, 3/30/15
699RW05			12/18/14, 3/30/15
699RW11			12/18/14, 3/30/15
FTMM-68: Former Dry Cleaners UST at Building 700			
565MW01	VOCs & TICs-EPA Method 8260C	PDB	12/18/14, 3/30/15
565MW01D			12/18/14, 3/30/15

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

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

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

Notes:

1) N/A = not applicable

2) LFPS = Low-Flow Purging and Sampling

3) PDB = Passive Diffusion Bag

FIGURES

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

Legend

Installation Boundary

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

N

1 inch = 2,500 feet

0 0.5 1 Miles

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

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

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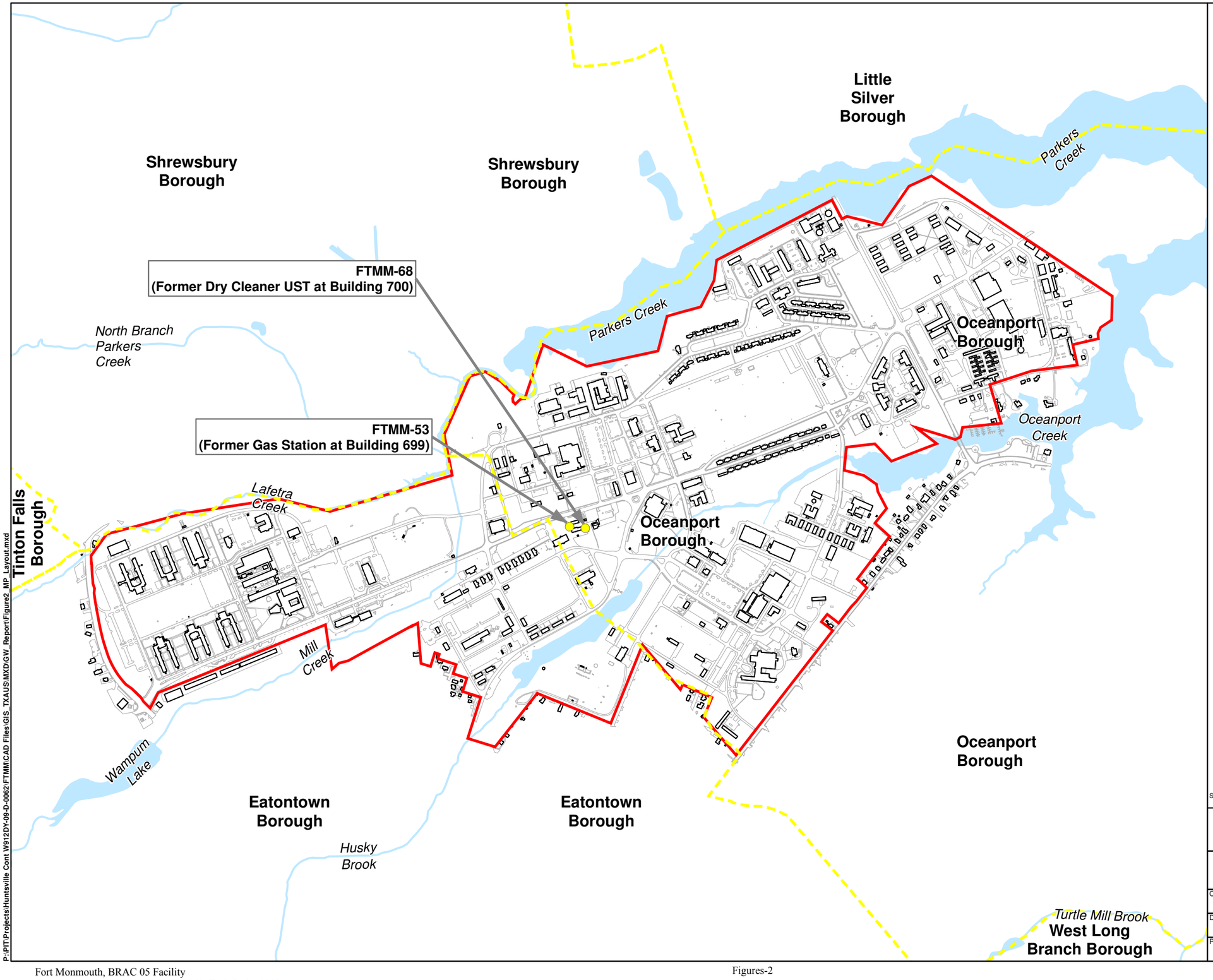

LEGEND:

- Municipal Boundary
- Installation Boundary
- Surface Water Feature

N

1 inch = 1,000 feet

0 500 1,000 2,000 Feet

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

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth New Jersey**
MAIN POST LAYOUT AND FTMM-53, FTMM-68 LOCATIONS	
CREATED BY: RR	REVIEWED BY: ME
DATE: NOV. 2015	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-03000	FILE: Figure2_MP_Layout.mxd

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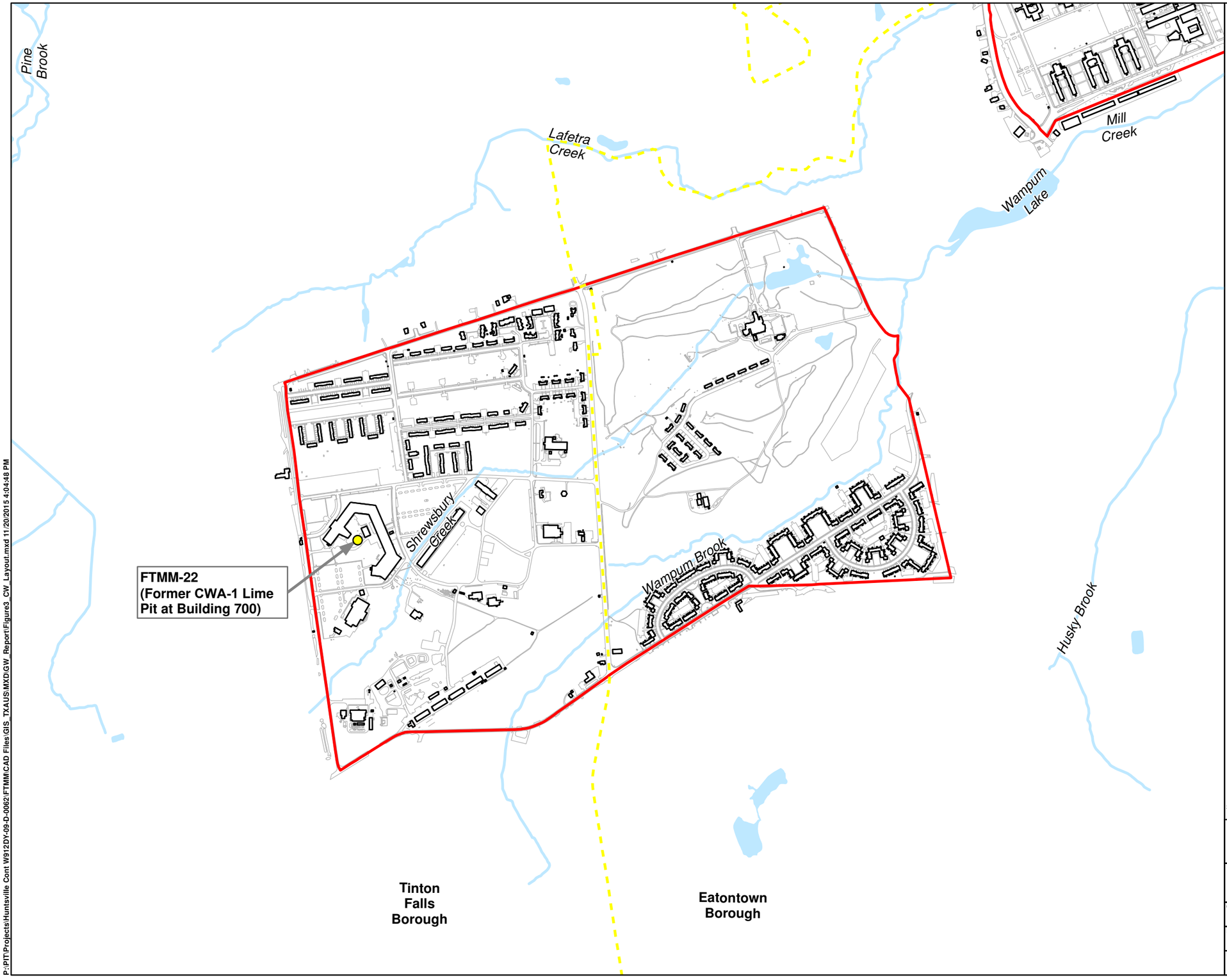

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APPENDICES

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

APPENDIX A

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

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

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2	PDB Sampling Summary
3	Groundwater Analytical Results 2014 and First Quarter 2015

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2	FTMM-22 Shallow Groundwater Contours December 18, 2014
3	FTMM-22 Deep Groundwater Contours December 18, 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 December 18, 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 49.22 (CW1MW39) to 52.60 (CW1MW27) feet above mean sea level (amsl). The inferred shallow and deep groundwater flow directions are to the east, as shown in **Figures 2 and 3**, respectively.

During the groundwater gauging, the physical condition of FTMM-22 monitoring wells were assessed. The site monitoring wells were found to be in good condition. 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 first quarter 2015 groundwater sampling event. The groundwater sampling program included measuring the depths to water in monitoring wells at FTMM-22, and sample collection in selected wells using passive diffusion bags (PDBs). PDBs were deployed December 18, 2014 and samples were retrieved on March 30, 2015. A PDB sampling summary is provided in **Table 2**. Groundwater samples were analyzed for Target Compound List (TCL) volatile organic compounds and tentatively identified compounds (VOCs+TICs) via United States Environmental Protection Agency (USEPA) Method SW8260C.

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

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

3.0 GROUNDWATER RESULTS FIRST QUARTER 2015

Several VOCs were detected in groundwater during this quarterly event. Trichloroethene (TCE) was detected in FTMM-22 monitoring wells CW1MW28 (2J µ/L), CW1MW29 (7.5 µ/L) and CW1MW281 (250 µ/L) above its NJDEP GWQS of 1 µg/L. Vinyl chloride was also detected at CW1MW281 at an estimated concentration of 1.4 µg/L, 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 2014 and first quarter 2015 groundwater sampling events are presented in **Table 3**.

TABLES

Table 1 Groundwater Gauging Data and Elevations (December 18, 2014)

Table 2 PDB Sampling Summary

Table 3 Groundwater Analytical Results 2014 and First Quarter 2015

Table 1
Groundwater Gauging Data and Elevations (December 18, 2014)
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
First Quarter 2015 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)
Shallow Monitoring Wells												
CW1MW26	12/19/1994	29-32590	532932.46	607087.71	15.0	5.0	10.0	60.81	12:04	8.56	17.11	52.25
CW1MW27	12/19/1994	29-32591	532942.54	607079.91	15.0	5.0	10.0	60.85	12:02	8.25	17.10	52.60
CW1MW28	12/19/1994	29-32592	532962.81	607087.57	15.0	5.0	10.0	59.09	12:06	6.60	14.90	52.49
CW1MW29	12/19/1994	29-32593	532952.80	607110.86	15.0	5.0	10.0	58.40	12:09	6.30	14.60	52.10
CW1MW30	7/13/2000	29-43188	532932.46	607094.40	17.0	7.0	10.0	61.93	12:33	9.40	21.62	52.53
CW1MW31	7/17/2000	29-43189	532952.95	607141.85	19.0	4.0	15.0	61.47	12:12	9.78	21.77	51.69
CW1MW32	7/17/2000	29-43190	532953.17	607188.33	22.0	7.0	15.0	62.18	12:26	11.00	22.08	51.18
CW1MW33	7/17/2000	29-43191	532902.61	607196.32	20.0	5.0	15.0	62.27	12:30	10.55	23.61	51.72
CW1MW34	7/17/2000	29-43192	533014.20	607257.78	20.0	5.0	15.0	58.63	12:20	8.35	19.63	50.28
CW1MW35	7/18/2000	29-43193	532973.91	607296.71	20.0	5.0	15.0	58.09	12:24	8.14	16.74	49.95
CW1MW36	7/18/2000	29-43194	533014.49	607319.77	20.0	5.0	15.0	58.70	12:21	8.91	16.58	49.79
CW1MW37	7/18/2000	29-43195	532953.85	607335.55	20.0	5.0	15.0	59.21	12:23	8.60	13.61	50.61
CW1MW282	5/2/1996	29-35313	533064.25	607141.33	16.0	6.0	10.0	60.29	12:18	8.20	18.16	52.09
CW1MW291	5/3/1996	29-35314	532993.64	607188.15	16.0	6.0	10.0	62.21	12:28	10.96	18.36	51.25
Deep Monitoring Wells												
CW1MW25	10/12/2010	E201010535	533033.51	607133.86	48.0	38.0	10.0	61.82	12:15	12.22	50.35	49.60
CW1MW38	7/11/2000	29-43186	532922.20	607056.76	50.0	30.0	20.0	61.93	12:00	11.86	51.27	50.07
CW1MW39	7/10/2000	29-43185	533064.22	607133.58	48.0	28.0	20.0	61.51	12:17	12.29	49.84	49.22
CW1MW40	7/14/2000	29-43187	532973.22	607149.50	50.0	30.0	20.0	62.35	12:13	12.97	49.96	49.38
CW1MW281	5/2/1996	29-35312	532962.89	607103.06	41.0	31.0	10.0	58.20	12:07	8.46	40.15	49.74

Notes:
1) The synoptic round of water levels in the wells was collected on December 18, 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
Site FTMM-22 Former Waste Water Treatment Lime Pit (CWA-1)
First Quarter 2015 Groundwater Sampling Report
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	Gauged DTW (ft. below TOC)	Gauged DTB (ft. below TOC)	GW Elevation (ft)	Saturated Screen Length (ft)	PDB Interval 1 (ft. below TOC)	PDB Interval 2 (ft. below TOC)	PDB Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
CW1MW27	8/28/2013	15.0	10.0	5-15	60.85	12/18/2014	12:02	8.25	17.10	52.60	8.85	17.63	N/A	12/18/2014	13:50	3/30/2015	13:30
CW1MW28	9/30/2014	15.0	10.0	5-15	59.09	12/18/2014	12:06	6.60	14.90	52.49	8.30	11.21	N/A	12/18/2014	13:15	3/30/2015	13:25
CW1MW29	8/28/2013	15.0	10.0	5-15	58.40	12/18/2014	12:09	6.30	14.60	52.10	8.30	10.85	N/A	12/18/2014	13:30	3/30/2015	13:45
CW1MW31	8/28/2013	19.0	15.0	4-19	61.47	12/18/2014	12:12	9.78	21.77	51.69	11.99	16.40	N/A	12/18/2014	13:44	3/30/2015	13:35
CW1MW37	8/28/2013	20.0	15.0	5-20	59.21	12/18/2014	12:23	8.60	13.61	50.61	5.01	11.78	N/A	12/18/2014	13:37	3/30/2015	13:40
CW1MW281	9/30/2014	41.0	10.0	31-41	58.20	12/18/2014	12:07	8.46	40.15	49.74	10.00	33.74	N/A	12/18/2014	13:22	3/30/2015	13:20

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

Table 3
Groundwater Analytical Results 2014 and First Quarter 2015
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		CW1MW28	CW1MW281	
Sample ID			FTMM-22-GW-CW1MW27-11.9	FTMM-22-GW-CW1MW27-11.52	FTMM-22-GW-CW1MW27-12.63	FTMM-22-GW-CW1MW27-12.63	FTMM-22-CW1MW27-12.63	FTMM-22-GW-CW1MW28-11.21	FTMM-22-GW-CW1MW28-11.21	FTMM-22-CW1MW28-11.21	FTMM-22-GW-CW1MW281-33.5	FTMM-22-GW-CW1MW281-38.5
Sample Date			1/24/2014	5/8/2014	9/30/2014	12/18/2014	3/30/2015	9/30/2014	12/18/2014	3/30/2015	1/24/2014	1/24/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sample Method			LFPS	LFPS	PDB	PDB	PDB	PDB	PDB	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
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**2 J**	**7.2**	**1.8 J**	**2.1 J**	**7.4**	**1.9 J**	**2.2 J**	< 5	< 5
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**2.6 J**	**2.4 J**
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**0.45 J**	**0.99 J**	< 1	**0.68 J**	**0.29 J**	**1.5 J**	**4.6 J**	**2 J**	**8.9**	**8.6**
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (mg/l)												
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First Quarter 2015
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				CW1MW281	CW1MW29				
Sample ID			FTMM-22-GW-CW1MW281-35.8	FTMM-22-GW-CW1MW281-33.74	FTMM-22-GW-CW1MW281-38.74	FTMM-22-GW-CW1MW281-33.74	FTMM-22-CW1MW281-33.74	FTMM-22-GW-CW1MW29-10.9	FTMM-22-GW-CW129-10.4	FTMM-22-GW-CW1MW29-10.4	FTMM-22-GW-CW1MW29-10.85	FTMM-22-GW-CW1MW29-10.85
Sample Date			5/8/2014	9/30/2014	9/30/2014	12/18/2014	3/30/2015	1/24/2014	5/8/2014	5/8/2014	9/30/2014	12/18/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sample Method			LFPS	PDB	PDB	PDB	PDB	LFPS	LFPS	LFPS	PDB	PDB
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	**0.69 J**	**0.64 J**	**0.82 J**	< 2.5	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 2.5	**0.41 J**	**0.54 J**	**0.46 J**	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**6.2**	**5.5**	< 5	< 13	< 5	< 5	< 5	**5.6**	**2.1 J**
Benzene	1	5	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 2.5	**0.33 J**	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	**3.4 J**	**14**	**14**	**23**	**16**	**6.5**	**0.59 J**	**0.55 J**	**5.6**	**0.83 J**
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 5	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 13	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	< 20	< 20	< 20	< 50	NA	NA	NA	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	**0.9 J**	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 2.5	**0.99 J**	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**14**	**150**	**160**	**330 E**	**250**	**7.4**	**13**	**13**	**3.9 J**	**4.7 J**
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	**0.52 J**	**1.1 J**	**1.1 J**	**1.8 J**	**1.4 J**	**0.78 J**	< 1	< 1	**0.47 J**	< 1
TIC VOCs (mg/l)												
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First Quarter 2015
FTMM-22 - Former Wastewater Treatment Lime Pit (CWA-1)
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	CW1MW29	CW1MW31	CW1MW31						CW1MW32		CW1MW32
Sample ID			FTMM-22-CW1MW29-10.85	FTMM-22-GW-CW1MW131-13	FTMM-22-GW-CW1MW31-13	FTMM-22-GW-CW1MW31-18.7	FTMM-22-GW-CW1MW31-14.3	FTMM-22-GW-CW1MW31-16.40	FTMM-22-GW-CW1MW31-16.4	FTMM-22-CW1MW31-16.4	FTMM-22-GW-CW1MW32-14.72	FTMM-22-GW-CW1MW32-21.55	FTMM-22-GW-CW1MW37-11.78
Sample Date			3/30/2015	1/24/2014	1/24/2014	1/24/2014	5/8/2014	9/30/2014	12/18/2014	3/30/2015	8/28/2013	8/28/2013	9/30/2014
QA/QC			SA	DU	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sample Method			PDB	LFPS	LFPS	LFPS	LFPS	PDB	PDB	PDB	Baseline - August 2013	Baseline - August 2013	PDB
Volatile Organic Compounds (µg/l)													
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	**0.26 J**	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	**0.32 J**	**0.3 J**	**0.37 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	**1.9 J**	< 5	< 5	< 5	< 5	**6.1**	< 5	**2.5 J**	**2.2 J**	**2 J**	**6.7**
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	**2.7 J**	**2.9 J**	**2.6 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20	NA	NA	NA	NA	< 20	< 20	< 20	NA	NA	< 20
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	**7.5**	**5.2**	**5.1**	**5.2**	**6.8**	**0.47 J**	**4.4 J**	**0.37 J**	< 1	**0.49 J**	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (mg/l)													
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Groundwater Analytical Results 2014 and First Quarter 2015
FTMM-22 - Former Wastewater Treatment Lime Pit (CWA-1)
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	CW1MW32	
Sample ID			FTMM-22-GW-CW1MW37-11.78	FTMM-22-CW1MW37-11.78
Sample Date			12/18/2014	3/30/2015
QA/QC			SA	SA
Sample Method			PDB	PDB
Volatile Organic Compounds (µg/l)				
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1
Acetone	6,000	NLE	< 5	**2.4 J**
Benzene	1	5	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1
Bromoform	4	80	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1
Chlorobenzene	50	100	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1
Chloroethane	5	NLE	< 1	< 1
Chloroform	70	80	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1
Cymene	100	NLE	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1
Ethyl benzene	700	700	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1
Methylene chloride	3	5	< 1	< 1
Naphthalene	300	NLE	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1
Styrene	100	100	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1
Toluene	600	1,000	< 1	< 1
Total Xylenes	1,000	10,000	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1
Trichloroethene	1	5	**0.23 J**	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1
Vinyl chloride	1	2	< 1	< 1
TIC VOCs (mg/l)				
Total TIC, Volatile	500	NLE	ND	ND

Table 3
Groundwater Analytical Results 2014 and First Quarter 2015
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 in any background sample, no background concentration available.

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 ####
  NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is
  NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXX or a NJDEP Interim Specific GWQC. Available at
- Outlined cells represent a result that is above the USEPA 2014-05 MCL.
- Bold values represent a result that is above the detection limit. ###

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/

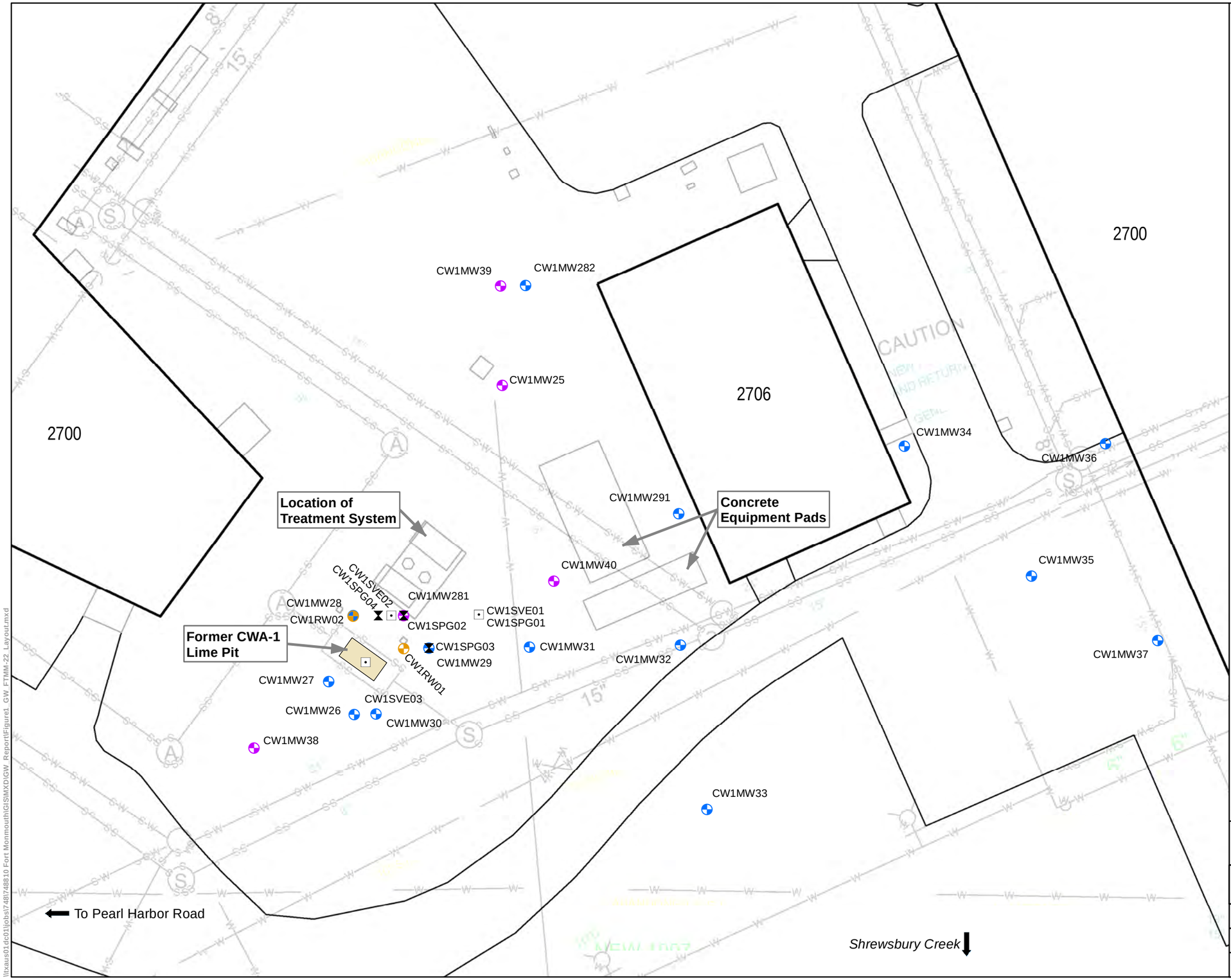
8) Sample Collected First Quarter 2015 Sample ID

FIGURES

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

Figure 2 FTMM-22 Shallow Groundwater Contours December 18, 2014

Figure 3 FTMM-22 Deep Groundwater Contours December 18, 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

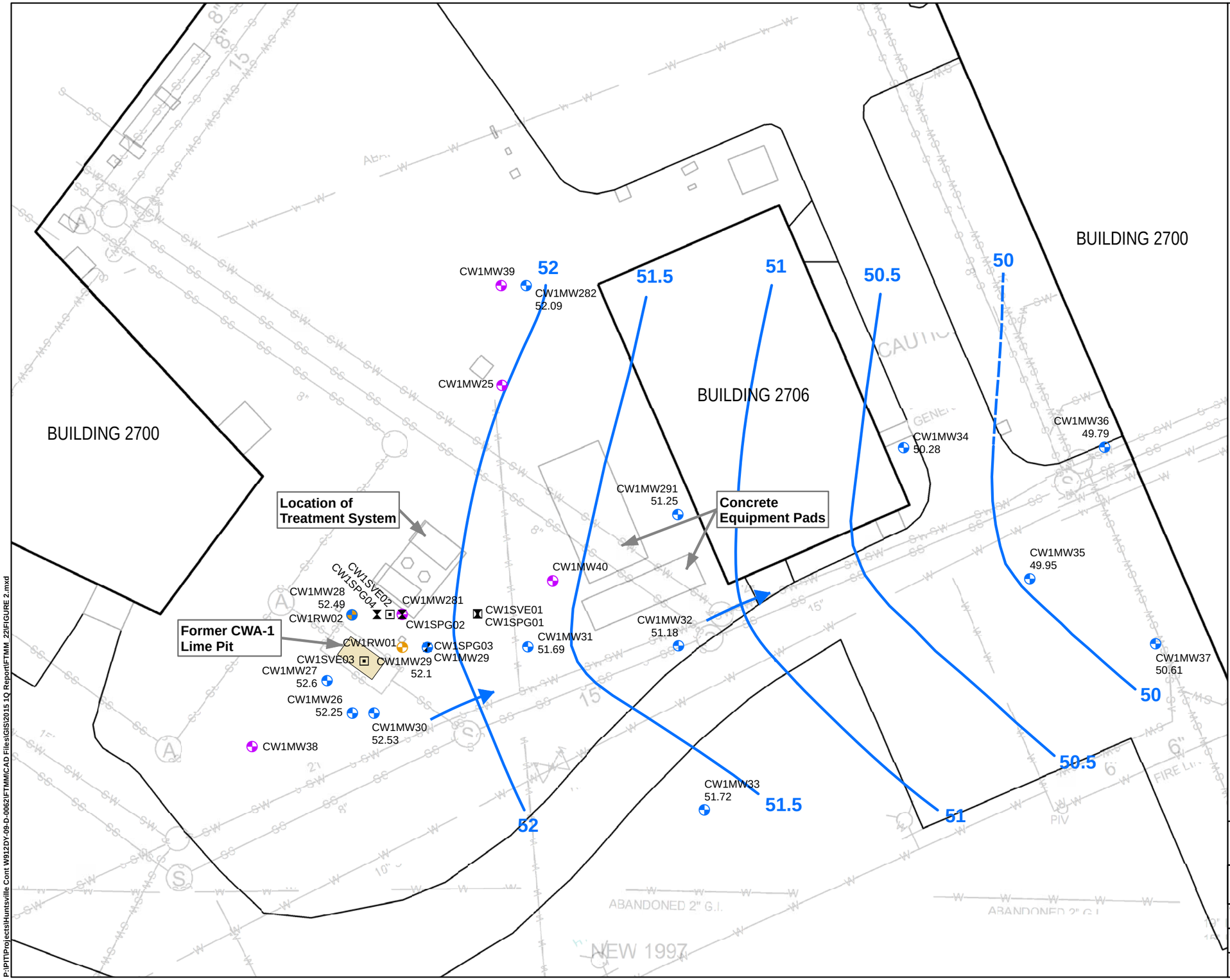
1 inch = 30 feet

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
- Former CW1 Lime Pit
- Groundwater Elevation Contour
- Inferred Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

NOTE:

The groundwater elevation at monitoring well CW1MW37 was considered anomalous and was not used to develop the groundwater contours.

N

1 inch = 30 feet

0 15 30 60 Feet

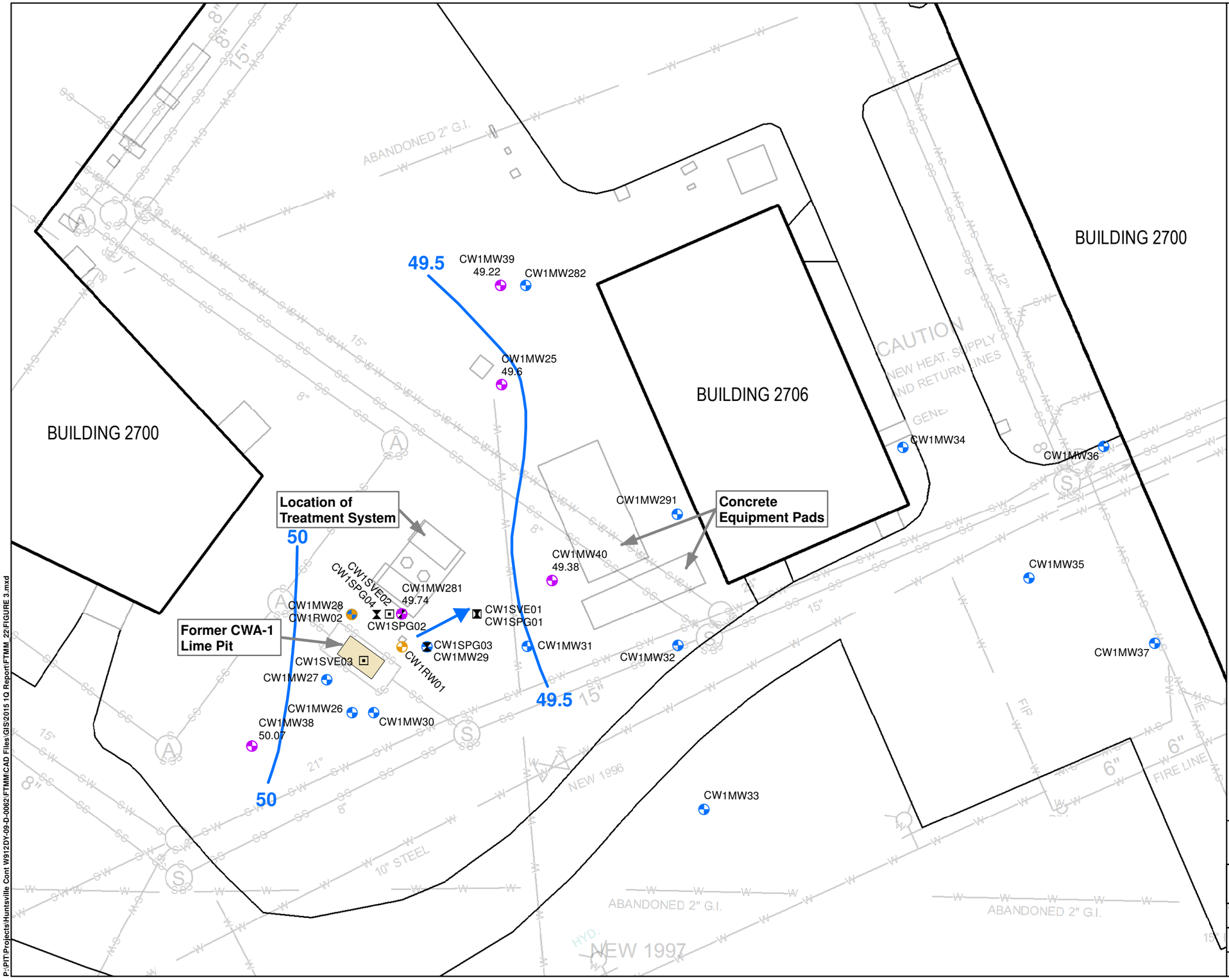
Source: FTMM Supplied CAD

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

FTMM-22 SHALLOW GROUNDWATER CONTOURS DECEMBER 18, 2014

CREATED BY: RR	REVIEWED BY: ME
DATE: DEC. 2015	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-03000	FILE: FIGURE 2.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2015 1Q Report\FTMM_22\FIGURE 2.mxd



LEGEND:

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

N

1 inch = 30 feet

0 15 30 60 Feet

Source: FTMM Supplied CAD

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

FTMM-22 DEEP GROUNDWATER CONTOURS DECEMBER 18, 2014

CREATED BY: RR	REVIEWED BY: ME
DATE: DEC. 2015	FIGURE NUMBER: FIGURE 3
PROJECT NUMBER: 748810-03000	FILE: FIGURE 3.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2015 1Q Report\FTMM_22\FIGURE 3.mxd

ATTACHMENTS

Attachment A NJDEP PDB Checklists

ATTACHMENT A
NJDEP PDB CHECKLISTS

PARSONS

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

1. Site: FTMM
2. Location: FTMM 22, CW-1
3. Well Designation: CW1MW27
4. Well Permit Number: 27-32591

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) 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: 12/18/14 Time: 1350

15. Depth to Ground Water Depth to ground water at time of deployment 8.25

16. Date and Time of Retrieval Date: 3/30/15 Time: 1330

17. Depth to Ground Water Depth to ground water at time of retrieval 7.96

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

19 Material and Mass (oz.) of PDBS Weight stainless steel 20 oz (stainless steel recommended)

20 Type of PDBS Used
☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

21 Dimensions of PDBS Length (in.) 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
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. 40°F Wind 10-15mph ☐Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval Temp. 50°F Wind 10-15 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

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

Name	Company
Chris Waters	PARSONS
Nick Lojos	

PARSONS

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

1. Site: FTMM
2. Location: FTMM-22, CW-1
3. Well Designation: CWIMW28
4. Well Permit Number: 201-32592

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. NOTE: PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) -0.3)
9. Total Well Depth (fbgs): 15.11
10. Screened interval/open hole (fbgs): 5.11 5.11
11. Well Casing: Diameter 4 Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter 4 Material ☒ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot): Screen Slot Size 0.01

14. Date and Time of Deployment: Date: 12/18/14 Time: 1315
15. Depth to Ground Water: Depth to ground water at time of deployment 6.60
16. Date and Time of Retrieval: Date: 3/30/15 Time: 1325
17. Depth to Ground Water: Depth to ground water at time of retrieval 6.28
18. Type of Deployment Line Used: Diameter: 3/16" Material: poly
19. Material and Mass (oz.) of PDBS Weight: stainless steel 20 oz (stainless steel recommended)
20. Type of PDBS Used:
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS: Length (in.) 17 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight:
    ☒ Attached to bottom of PDBS and suspended in well
    ☐ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
~~7.29~~ (11.21)			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ No, this well is being profiled during this sampling round
    ☒ Yes, this well was profiled already. Date when well was profiled: 9/30/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ No, flow testing has not been conducted in this well
    ☐ Yes, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet [Please Attach Results]
26. Weather Conditions During Deployment: Temp. 40°F Wind 10-15 mph ☐ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval: Temp. 50°F Wind SW 10-15 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician Name(s) and Company (please print clearly)

Name	Company
Chris Watson	
Nick Loizos	

PARSONS

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

1. Site: Ftmm
2. Location: Ftmm-22 Cw-1
3. Well Designation: CW1MW21
4. Well Permit Number: 24-32593

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.) 0.80

9 Total Well Depth (fbgs) 15.55

10 Screened interval/open hole (fbgs) 5.55-15.55

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

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

13 Screen Size (slot) Screen Slot Size 0.01

14 Date and Time of Deployment Date: 12/18/14 Time: 12:30

15 Depth to Ground Water Depth to ground water at time of deployment 6.30

16 Date and Time of Retrieval Date: 3/30/15 Time: 1345

17 Depth to Ground Water Depth to ground water at time of retrieval 5.98

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

19 Material and Mass (oz.) of PDBS Weight stainless steel 20 oz (stainless steel recommended)

20 Type of PDBS Used
☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

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

22 Position of PDBS Weight
☒Attached to bottom of PDBS and suspended in well
☐Attached to bottom of deployment line and suspended in well
☐Attached to bottom of deployment line and resting on bottom of well (preferred)

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

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

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

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
☐**No**, this well is being profiled during this sampling round
☒**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. 40°F Wind 10-15 mph ☐Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval Temp. 50°F Wind 10-15 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

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

Name	Company
Chris Watson	
Nick Loizos	

PARSONS

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

1. Site: ETMM
2. Location: ETMM-22, CW-1
3. Well Designation: CW1/MW37
4. Well Permit Number: 2-43195

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.) -0.54

9 Total Well Depth (fbgs) 14.24

10 Screened interval/open hole (fbgs) -14.24

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

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

13 Screen Size (slot) Screen Slot Size _____

14. Date and Time of Deployment Date: 12/18/14 Time: 1337

15. Depth to Ground Water Depth to ground water at time of deployment 8.60

16. Date and Time of Retrieval Date: 3/30/15 Time: 1340

17. Depth to Ground Water Depth to ground water at time of retrieval 8.47

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			

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. 40°F Wind 10-15 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval Temp. 50°F Wind SW 10-15 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

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

Name	Company
Chris Watson	PARSONS
Nick Loizos	

PARSONS

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

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

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

6 Well Surface Finish: ☒Stick Up ☐Flush Mount

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

8 **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.

Distance between measuring point and ground surface (ft.) 2.16

9 Total Well Depth (fbgs): 20.55

10 Screened interval/open hole (fbgs): 5.55-20.55

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

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

13 Screen Size (slot): Screen Slot Size 0.01

14 Date and Time of Deployment: Date: 12/18/14 Time: 1344

15 Depth to Ground Water: Depth to ground water at time of deployment 9.78

16 Date and Time of Retrieval: Date: 3/30/15 Time: 1335

17 Depth to Ground Water: Depth to ground water at time of retrieval 9.56

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

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

20 Type of PDBS Used:
☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

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

22 Position of PDBS Weight:
☒Attached to bottom of PDBS and suspended in well
☐Attached to bottom of deployment line and suspended in well
☐Attached to bottom of deployment line and resting on bottom of well (preferred)

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

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

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

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
☐**No**, this well is being profiled during this sampling round
☒**Yes**, this well was profiled already. Date when well was profiled: 8/28/13

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

26. Weather Conditions During Deployment: Temp. 40°F Wind 10-15mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval: Temp. 50°F Wind 10-15 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

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

Name	Company
Chris Watson	
Nick Loizos	

PARSONS

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

1. Site: FTMM
2. Location: FTMM-22, CW-3
3. Well Designation: CWMW281
4. Well Permit Number: 29-35312

5 Type of Well ☑ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other

6 Well Surface Finish: ☐ Stick Up ☑ Flush Mount

7 Location of Measuring Point ☑ Top of Casing ☐ Other (specify) _____

8 **NOTE**: PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.

Distance between measuring point and ground surface (ft.) -1.04

9 Total Well Depth (fbgs) 41.24

10 Screened interval/open hole (fbgs) 31.24 - 41.24

11 Well Casing Diameter 4 Material ☑ PVC ☐ Carbon Steel ☐ Stainless Steel

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

13 Screen Size (slot) Screen Slot Size .002

14. Date and Time of Deployment Date: 12/10/14 Time: 1322

15. Depth to Ground Water Depth to ground water at time of deployment 3.46

16. Date and Time of Retrieval Date: 3/30/15 Time: 1320

17. Depth to Ground Water Depth to ground water at time of retrieval 7.87

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
33.74			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

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

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

26. Weather Conditions During Deployment Temp. 40°F Wind 10-15 mph ☑ Sunny ☐ Overcast ☐ Raining ☐ Snowing

27. Weather Conditions During Retrieval Temp. 50°F Wind SW 10-15 mph ☑ Sunny ☐ Overcast ☐ Raining ☐ Snowing

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

Name	Company
Chris Watson	PARSONS
NICK LOIZOS	

APPENDIX B

FTMM-53: FORMER GAS STATION AT BUILDING 699

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

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Attachment	Title
A	NJDEP PDB Checklists

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within the FTMM-53 site were gauged on December 18, 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 9.98 (699W11) to 14.40 (699MW15) 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 first quarter 2015 groundwater sampling event. The groundwater sampling program included measuring the depths to water in monitoring wells at FTMM-53, and sample collection in selected wells using passive diffusion bags (PDBs). PDBs were deployed December 18, 2014 and samples were retrieved on March 30, 2015. A PDB sampling summary is provided in **Table 2**. Groundwater samples were analyzed for Target Compound List (TCL) volatile organic compounds and tentatively identified compounds (VOCs+TICs) via United States Environmental Protection Agency (USEPA) Method SW8260C.

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

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

3.0 GROUNDWATER RESULTS FIRST QUARTER 2015

Several VOCs were detected in groundwater during this quarterly event. However, benzene, 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene were the only individual VOCs detected at FTMM-53 above their NJDEP GWQS of 1 µg/L. Benzene was detected at monitoring wells 699RW05 (1.2 J µg/L) and 699RW05 (7.1 µg/L). The compounds 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene were detected at 699RW05 above their NJDEP GWQS of 100 µg/L at concentrations of 680 E µg/L and 120 µg/L, respectively. Total xylenes were also detected at 699RW05 above its NJDEP GWQS of 1000 µg/L, at a concentration of 1,340 µg/L. Total tentatively identified volatile compounds were detected at 699RW11 at a concentration of 2,062 µg/L which is above the GWQS of 500 µg/L. Groundwater analytical detections from samples collected during the 2014 and first quarter 2015 groundwater sampling events are presented in **Table 3**.

TABLES

Table 1 Groundwater Gauging Data and Elevations (December 18, 2014)

Table 2 PDB Sampling Summary

Table 3 Groundwater Analytical Results 2014 and First Quarter 2015

Table 1
Groundwater Gauging Data and Elevations (December 18, 2014)
Site FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - First Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	PID Reading (ppm)	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)
Shallow Monitoring Wells													
616MW01	8/17/1995	29-33760	539282.81	618630.81	14.0	4.0	10.0	17.64	8:28	0.0	3.45	16.52	14.19
699MW01	11/2/1989	29-23677-1	539094.96	618689.92	15.0	2.0	13.0	14.48	8:26	0.0	2.61	13.30	11.87
699MW02	11/2/1989	29-23678-9	539212.46	618724.12	17.0	2.0	15.0	15.13	8:25	0.0	1.89	16.60	13.24
699MW03	11/2/1989	29-23679	539127.36	618797.76	15.0	1.5	13..5	15.80	8:52	0.0	2.83	12.14	12.97
699MW04	11/2/1989	29-23680-7	539111.31	618732.39	20.0	2.0	18.0	15.03	8:38	0.0	2.65	17.48	12.38
699MW05	11/30/1989	29-23808	539142.50	618894.90	15.0	3.0	12.0	13.22	8:56	0.0	2.63	14.87	10.59
699MW06	12/1/1989	29-23809-1	539071.24	618810.05	15.0	2.0	13.0	16.75	8:24	0.0	4.45	14.95	12.30
699MW08	12/1/1989	29-23811	539060.01	618593.22	15.0	2.0	13.0	14.88	8:41	0.0	3.00	13.32	11.88
699MW09	5/1/1990	29-24639	538950.01	618849.41	15.0	2.0	13.0	14.70	8:49	0.0	2.39	12.16	12.31
699MW12	10/14/1992	29-28907	538918.90	618702.39	15.0	5.0	10.0	15.50	8:48	0.0	3.71	14.20	11.79
699MW15	8/17/1995	29-33753	539404.56	618692.15	13.5	3.5	10.0	15.70	8:31	0.0	1.30	13.95	14.40
699MW16	8/17/1995	29-33757	538859.18	618896.35	13.5	3.5	10.0	15.27	9:21	0.0	1.82	14.09	13.45
699RW03	10/26/2000	29-43891	539070.64	618693.86	20.0	5.0	15.0	14.87	8:33	0.0	2.81	17.70	12.06
699RW04	10/26/2000	29-43892	538969.45	618694.38	19.0	4.0	15.0	15.38	8:46	0.0	2.75	14.90	12.63
699RW05	9/18/2007	29-56509	539121.71	618786.56	15.0	4.5	10.0	13.91	8:42	0.0	1.71	12.86	12.20
699RW11	5/20/1992	29-28031	539063.44	618770.99	20.0	5.0	15.0	13.13	8:38	0.0	3.15	17.68	9.98
600MW01	7/8/1994	29-30968	539100.48	618593.01	15.0	2.0	13.0	15.27	8:46	0.0	2.63	4.20	12.64

Notes:
1) The synoptic round of water levels in the wells was collected on December 18, 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
Site FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - First Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Profile Date	Depth (ft. bgs)	Screen Length (ft.)	Screen Interval (ft. bgs)	TOC Elev. (ft)	Gauge Date	Gauge Time	Gauged DTW (ft. below TOC)	Gauged DTB (ft. below TOC)	GW Elevation (ft)	Saturated Screen Length (ft)	PDB Interval 1 (ft. below TOC)	PDB Interval 2 (ft. below TOC)	PDB Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
699MW01	3/31/2014	15.0	13.0	2-15	14.48	12/18/2014	8:26	2.61	13.30	11.87	10.69	7.50	N/A	12/18/2014	9:53	3/30/2015	10:05
699MW04	3/31/2014	20.0	18.0	2-20	15.03	12/18/2014	8:38	2.65	17.48	12.38	14.83	7.68	N/A	12/18/2014	10:15	3/30/2015	10:35
699MW06	3/31/2014	15.0	13.0	2-15	16.75	12/18/2014	8:24	4.45	14.95	12.30	10.50	10.20	N/A	12/18/2014	9:36	3/30/2015	10:25
699MW09	3/31/2014	15.0	13.0	2-15	14.70	12/18/2014	8:49	2.39	12.16	12.31	9.77	7.35	N/A	12/18/2014	9:42	3/30/2015	10:15
699MW16	3/31/2014	13.5	10.0	3.5-13.5	15.27	12/18/2014	8:39	1.82	14.09	13.45	12.27	7.50	N/A	12/18/2014	10:06	3/30/2015	10:20
699RW03	3/31/2014	20.0	15.0	5-20	14.87	12/18/2014	8:33	2.81	17.70	12.06	14.89	8.20	N/A	12/18/2014	9:30	3/30/2015	10:50
699RW05	3/31/2014	15.0	10.0	5-15	13.91	12/18/2014	15:01	1.71	12.86	12.20	11.15	10.00	N/A	12/18/2014	10:08	3/30/2015	10:00
699RW11	3/31/2014	20.0	15.0	5-20	13.13	12/18/2014	8:38	3.15	17.68	9.98	14.53	8.30	N/A	12/18/2014	9:48	3/30/2015	10:40

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

Table 3
Groundwater Analytical Results 2014 and First Quarter 2015
FTMM-53 Former Gas Station at Building 699
Groundwater Sampling Report - First Quarter 2015 FTMM-22,
FTMM-53 and FTMM-68
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-699MW01-7.5	FTMM-53-699MW01-7.5	FTMM-53-GW-699MW04-10.3	FTMM-53-GW-699MW04-13.85	FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW04-6.85
Sample Date			3/12/2014	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/16/2014	3/30/2015	3/12/2014	3/31/2014	3/31/2014	7/1/2014
QA/QC			SA	DU	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)														
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	**0.31 J**	**0.26 J**	< 1	< 1	**0.3 J**	**1.3 J**	< 1	< 1	< 1	**1.9 J**	**2.3 J**	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.78 J**	**0.99 J**	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	< 5	< 5	< 5	**1.7 J**	**6.4**	< 5	**2.3 J**	**1.5 J**	< 5	< 5	**2.2 J**
Benzene	1	5	< 1	< 1	< 1	< 1	**0.31 J**	**0.52 J**	< 1	< 1	< 1	**0.23 J**	**0.23 J**	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 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	< 1	< 1	**0.87 J**	**1.1 J**	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	**0.25 J**	**0.28 J**	< 1	< 1	< 1	**0.29 J**	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**3 J**	**3.4 J**	< 2
Methyl bromide	10	NLE	< 1	< 1	**0.32 J**	< 1	< 1	< 1	< 1	< 1	< 1	**0.33 J**	**0.47 J**	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	< 1	< 1	< 1	**0.3 J**	**0.39 J**	< 1	< 1	< 1	**1.5 J**	**0.52 J**	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	**0.4 J**	< 1	< 1	< 1	**2.4 J**	**2.5 J**	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	**0.42 J**	**0.43 J**	< 1	< 1	< 1	**0.39 J**	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	NA	NA	< 20	< 20	< 20	NA	NA	NA	NA
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	**0.27 J**	< 1	< 1	< 1	< 1	< 1	< 1
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	**0.4 J**	< 3	< 3	< 3	**5.4 J**	**5.9 J**	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699MW04			699MW06		699MW06						
Sample ID			FTMM-53-GW-699MW04-6.85	FTMM-53-GW-699MW04-8.0	FTMM-53-699MW04-8.0	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	FTMM-53-GW-699MW06-10.2	FTMM-53-GW-699MW106-10.2	FTMM-53-699MW06-10.2	FTMM-53-699MW106-10.2
Sample Date			9/30/2014	12/18/2014	3/30/2015	3/12/2014	3/31/2014	7/1/2014	9/30/2014	9/30/2014	12/18/2014	12/18/2014	3/30/2015	3/30/2015
QA/QC			SA	SA	SA	SA	SA	SA	SA	DU	SA	DU	SA	DU
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)														
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	**0.26 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	**0.25 J**	**4.6 J**	< 1	**0.8 J**	< 1	< 1	**54**	**52**	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	**3 J**	< 1	< 1	< 1	< 1	**5.7**	**5.7**	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	**11**	**8.4**	**2.1 J**	< 5	**2.2 J**	**2.6 J**	**12**	**12**	**2.2 J**	**2 J**	**1.6 J**	**1.6 J**
Benzene	1	5	**0.37 J**	< 1	< 1	< 1	< 1	< 1	**9**	**9.2**	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	**0.28 J**	< 1	< 1	**1.5 J**	< 1	< 1	**140**	**150**	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	**0.23 J**	< 1	< 1	**14**	**14**	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	**1.2 J**	< 2	< 2	**120**	**120**	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	< 1	< 1	< 1	**0.43 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	< 1	**0.25 J**	< 1	**0.23 J**	< 1	< 1	**22**	**22**	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	**0.27 J**	**0.25 J**	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	**1 J**	**0.52 J**	< 1	**0.31 J**	< 1	< 1	**9.3**	**9.2**	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	**0.24 J**	< 1	< 1	**11**	**11**	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	**0.48 J**	**0.35 J**	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20	< 20	< 20	NA	NA	NA	< 20	< 20	< 20	< 20	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	**0.27 J**	< 1	< 1	< 1	< 1	< 1	**1.5 J**	**1.4 J**	< 1	< 1	< 1	< 1
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	**138**	**137.5**	ND	ND	ND	ND
Total Xylenes	1,000	10,000	< 3	**0.52 J**	< 3	**1.51 J**	< 3	< 3	**129.3**	**129.2**	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699MW09		699MW09				699MW16					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-699MW09-7.75	FTMM-53-699MW09-7.75	FTMM-53-GW-699MW16-8.5	FTMM-53-GW-699MW16-11.5	FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699MW16-6.5	FTMM-53-GW-699MW16-7.5
Sample Date			3/12/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)														
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	< 5	**1.5 J**	**1.4 J**	**6.6**	**1.8 J**	**2.2 J**	< 5	**1.7 J**	**1.4 J**	**2.2 J**	**6.3**	**2 J**
Benzene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	**0.25 J**	< 1	< 1	< 1	< 1	**5.2**	**8**	**7.7**	**3.1 J**	**1.6 J**	**7.8**
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta/Para Xylene	1,000	NLE	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	< 1	**0.34 J**	< 1	< 1	< 1	< 1	< 1	**0.34 J**	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	**0.49 J**	**0.58 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**0.26 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	NA	< 20	< 20	< 20	NA	NA	NA	NA	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	< 1	< 1	< 1	**0.33 J**	< 1	< 1	**0.9 J**	**0.47 J**	**0.34 J**	**0.48 J**	**1.3 J**	**0.89 J**
Toluene	600	1,000	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total TIC, Volatile	500	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	1,000	10,000	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699MW16	699RW03							699RW05			
Sample ID			FTMM-53-699MW16-7.5	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-699RW03-8.2	FTMM-53-699RW03-8.2	FTMM-53-GW-699RW05-8.6	FTMM-53-GW-699RW05-4.8	FTMM-53-GW-699RW05-9.80	FTMM-53-GW-699RW05-4.8
Sample Date			3/30/2015	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	3/12/2014	3/31/2014	3/31/2014	7/1/2014
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)														
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 1	**0.27 J**	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2,4-Trimethylbenzene	100	NLE	< 1	**130**	**120**	**110**	**42**	**26**	**3 J**	**1.1 J**	**790**	**150**	**130**	**7.8**
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,3,5-Trimethylbenzene	100	NLE	< 1	**32**	**17**	**16**	**3.1 J**	< 1	**0.26 J**	**0.45 J**	**160**	**30**	**23**	**3.9 J**
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Acetone	6,000	NLE	**1.4 J**	< 5	< 5	< 5	< 5	< 5	< 5	**1.6 J**	< 25	< 10	< 13	< 5
Benzene	1	5	< 1	**4.8 J**	**3.7 J**	**3.5 J**	**0.88 J**	**0.46 J**	< 1	< 1	**7.2 J**	**2.8 J**	**3.1 J**	**0.21 J**
Bromobenzene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Bromodichloromethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Bromoform	4	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Chlorobenzene	50	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Chloroethane	5	NLE	< 1	**0.47 J**	< 1	< 1	< 1	< 1	< 1	< 1	**1.6 J**	< 2	< 2.5	< 1
Chloroform	70	80	**4.5 J**	< 1	< 1	< 1	**0.28 J**	**0.29 J**	< 1	< 1	< 5	< 2	< 2.5	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Cymene	100	NLE	< 1	**3.2 J**	**0.91 J**	**0.8 J**	**0.59 J**	**0.63 J**	**0.29 J**	< 1	**3.7 J**	< 2	< 2.5	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Ethyl benzene	700	700	< 1	**50**	**49**	**46**	**17**	**8.4**	**0.58 J**	< 1	**700**	**150**	**160**	**0.74 J**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Isopropylbenzene	700	NLE	< 1	**21**	**14**	**13**	**7**	**3.7 J**	**0.37 J**	< 1	**52**	**7.4 J**	**8.1 J**	**0.45 J**
Meta/Para Xylene	1,000	NLE	< 2	**71**	**62**	**59**	**9.8 J**	**0.77 J**	**0.45 J**	< 2	**1,600**	**430**	**390**	**6.3 J**
Methyl bromide	10	NLE	< 1	< 1	< 1	**0.33 J**	< 1	< 1	< 1	< 1	< 5	< 2	**0.88 J**	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 10	< 13	< 5
Methyl chloride	100	NLE	< 1	**0.29 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Methylene chloride	3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Naphthalene	300	NLE	< 1	**29**	**19**	**15**	**6.5**	**2.9 J**	< 1	< 1	**270**	**60**	**54**	**7.6**
n-Butylbenzene	100	NLE	< 1	**12**	< 1	< 1	**0.9 J**	**1.2 J**	< 1	< 1	< 5	< 2	< 2.5	< 1
Ortho Xylene	1,000	NLE	< 1	**90**	**78**	**76**	**14**	**6.4**	**0.86 J**	**2.3 J**	**810**	**290**	**270**	**16**
p-Chlorotoluene	100	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Propylbenzene	100	NLE	< 1	**34**	**18**	**16**	**12**	**6.6**	**0.38 J**	< 1	**100**	**8.9 J**	**9.7 J**	< 1
sec-Butylbenzene	100	NLE	< 1	**7.4**	**1.9 J**	**1.6 J**	**1.3 J**	**1.5 J**	< 1	< 1	**6.3 J**	< 2	< 2.5	< 1
Styrene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Tert Butyl Alcohol	100	NLE	< 20	NA	NA	NA	NA	< 20	< 20	< 20	NA	NA	NA	NA
tert-Butylbenzene	100	NLE	< 1	**0.68 J**	**0.26 J**	**0.29 J**	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Tetrachloroethene	1	5	**0.95 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	**0.8 J**	< 1
Toluene	600	1,000	< 1	**1.7 J**	**1.4 J**	**1.3 J**	**0.22 J**	**0.21 J**	< 1	< 1	**23 J**	**7.1 J**	**7 J**	**0.46 J**
Total TIC, Volatile	500	NLE	ND	**813**	**362**	**302**	**7.1**	**129.7**	**16**	ND	**2,338**	**417.8**	**369.4**	ND
Total Xylenes	1,000	10,000	< 3	**161**	**140**	**135**	**23.8 J**	**7.17 J**	**1.31 J**	**2.3 J**	**2,410**	**720**	**660**	**22.3 J**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Trichloroethene	1	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1
Vinyl chloride	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 2	< 2.5	< 1

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	699RW05			699RW11		699RW11				
Sample ID			FTMM-53-GW-699RW05-4.8	FTMM-53-GW-699RW05-10	FTMM-53-GW-699RW05-10.0	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	FTMM-53-GW-699RW11-5.3	FTMM-53-699RW11-8.3
Sample Date			9/30/2014	12/18/2014	3/30/2015	3/12/2014	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015
QA/QC			SA	SA	SA	SA	SA	SA	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	**1.4 J**	**200**	**680 E**	**0.24 J**	< 1	< 1	**0.21 J**	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	**0.22 J**	**69**	**120**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	**14**	< 5	< 13	< 5	< 5	< 5	< 5	< 5	**28**	< 5
Benzene	1	5	< 1	**1.9 J**	**1.2 J**	**11**	**6.5**	**6.5**	**2.7 J**	**2.4 J**	**3 J**	**7.1**
Bromobenzene	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	< 1	**1.3 J**	**2.1 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	**0.51 J**	**120**	**330**	**0.45 J**	**0.26 J**	**0.25 J**	**0.28 J**	< 1	< 1	**0.3 J**
Hexachlorobutadiene	1	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	< 1	**7.7**	**23**	**8.9**	**1.2 J**	**1.2 J**	**4.3 J**	**6.3**	**1.3 J**	**6.1**
Meta/Para Xylene	1,000	NLE	**0.88 J**	**330**	**820**	**0.45 J**	**0.33 J**	**0.35 J**	< 2	< 2	< 2	**0.55 J**
Methyl bromide	10	NLE	< 1	< 1	< 2.5	< 1	**0.35 J**	**0.29 J**	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	< 5	< 5	< 13	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	< 1	< 1	< 2.5	**0.23 J**	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	**0.33 J**	**71**	**160**	**1.5 J**	**0.61 J**	**0.75 J**	**0.74 J**	**0.59 J**	**0.98 J**	**0.96 J**
n-Butylbenzene	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	**0.29 J**	< 1	< 1
Ortho Xylene	1,000	NLE	**1 J**	**280 E**	**520 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	< 1	**9.7**	**39**	**9.4**	**0.71 J**	**0.68 J**	**5.1**	**3.5 J**	**0.28 J**	**4.4 J**
sec-Butylbenzene	100	NLE	< 1	**1.2 J**	**2.7 J**	**1.6 J**	< 1	< 1	**0.33 J**	**1.1 J**	**0.6 J**	**0.89 J**
Styrene	100	100	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20	< 20	< 50	NA	NA	NA	NA	< 20	< 20	< 20
tert-Butylbenzene	100	NLE	< 1	**0.28 J**	< 2.5	**0.36 J**	< 1	< 1	< 1	< 1	**0.3 J**	**0.37 J**
Tetrachloroethene	1	5	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	< 1	**6.8**	**7.4 J**	**0.37 J**	**0.3 J**	**0.36 J**	**0.22 J**	< 1	< 1	< 1
Total TIC, Volatile	500	NLE	**5.7**	**1,181**	**2,062**	**122.9**	ND	ND	ND	**83.2**	**76.9**	**195**
Total Xylenes	1,000	10,000	**0.88 J**	**610 E**	**1,340 E**	**0.45 J**	**0.33 J**	**0.35 J**	< 3	< 3	< 3	**0.55 J**
Trans-1,2-Dichloroethene	100	100	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	< 1	< 1	< 2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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

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

6) Chemical result qualifiers are assigned by the laboratory and 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.

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

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

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a GWQS or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).
- Bold Outline represent a result that is above the USEPA 2014-05 MCL. ###

8) Criteria action level source document and web address.
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
  http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf
- The 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) Sample Collected First Quarter 2015 Sample ID

FIGURES

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

Figure 2 FTMM-53 Shallow Groundwater Contours December 18, 2014

699MW15
BUILDING 616
BUILDING 620
616MW01
699MW02
Saltzman Avenue
699VP11
699SP10
699RW05
699SP09
699MW03
699MW05
699SP04
699RW02
699MW13
699MW04
699VP05
600MW01
699VP10
Former Gasoline USTs (Estimated)
699VP07
699MW01
699RW01
699RW03
699VP04
699MW14
699MW06
699VP09
699VP06
699SP05
699MW08
699VP08
699RW11
699SP06
699SP08
699SP07
FTMM53-MW02
FTMM-68-MW-01
BUILDING Canopy
Former Gasoline USTs (Estimated)
699VP01
699SP01
699VP02
BUILDING 700
699MW07
699SP03
565MW01D
565MW01
699RW04
699SP02
Fuel Dispenser Islands
BUILDING 699
699MW09
699MW12
FTMM53-MW01
BUILDING S-563
699MW16
BUILDING 686

LEGEND:

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

N

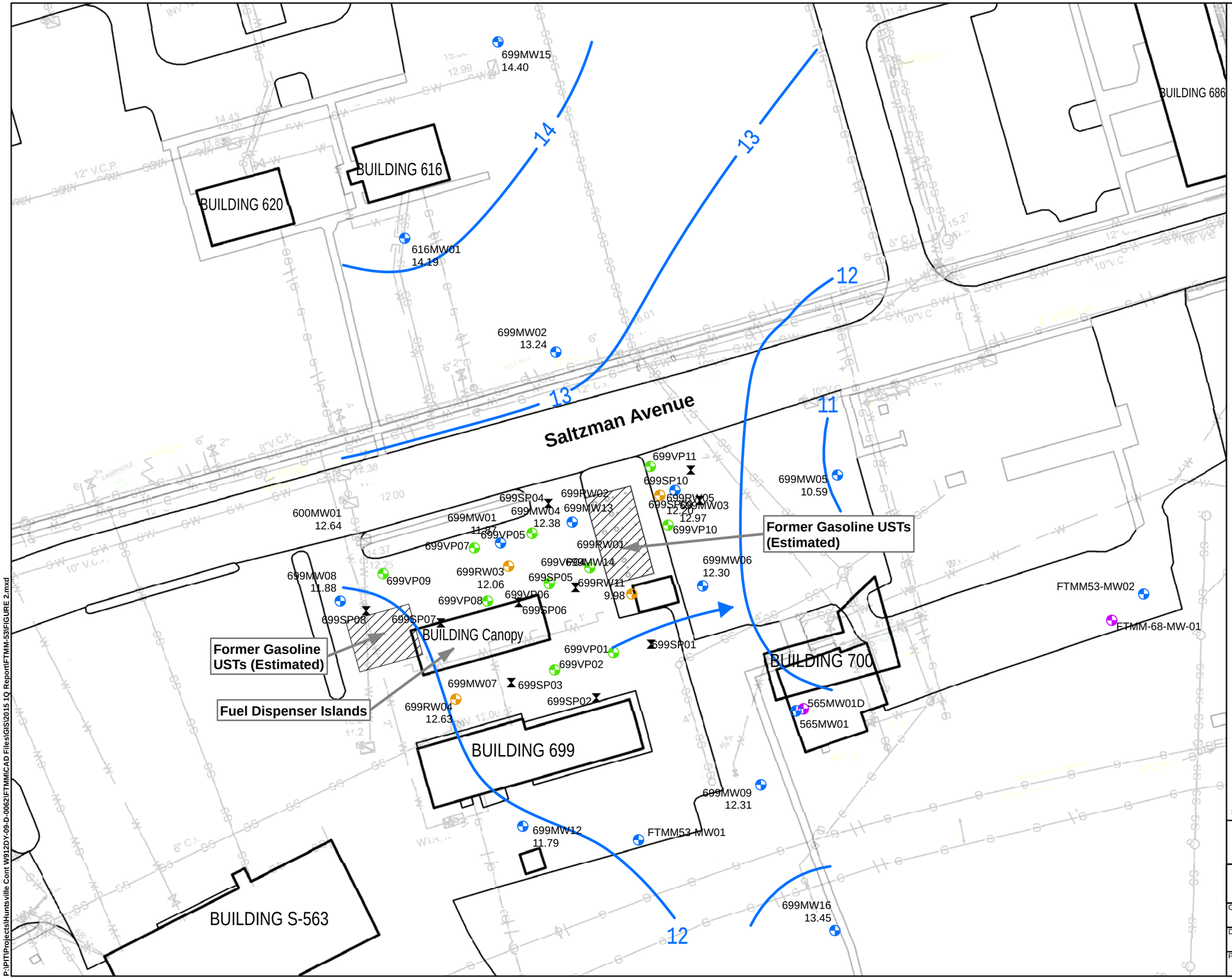
1 inch = 60 feet

0 30 60 120 Feet

Source: FTMM Supplied CAD

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

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
LAYOUT OF FTMM-53 FORMER GAS STATION AT BUILDING 699	
CREATED BY: RR	REVIEWED BY: ME
DATE: NOV. 2015	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1.mxd



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
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

NOTE:

Groundwater elevations in monitoring wells 699MW01, 699MW03, and 699RW11 were considered anomalous compared to the fluid levels at neighboring wells.

N

1 inch = 60 feet

0 30 60 120 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
FTMM-53 GROUNDWATER CONTOURS DECEMBER 18, 2014	
CREATED BY: RR	REVIEWED BY: ME
DATE: NOV. 2015	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-03000	FILE: FIGURE 2.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2015 1Q Report\FTMM-53\FIGURE 2.mxd

ATTACHMENTS

Attachment A NJDEP PDB Checklists

ATTACHMENT A
NJDEP PDB CHECKLISTS

PARSONS

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

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: 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: 12/18/14 Time: 1008
15. Depth to Ground Water: Depth to ground water at time of deployment 1.71
16. Date and Time of Retrieval: Date: 3/30/15 Time: 1000
17. Depth to Ground Water: Depth to ground water at time of retrieval 1.25
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
16			

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. 35°F Wind 0-5mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval: Temp. 40°F Wind 10-20 mph SW ☐Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Chris Watson	PARSONS
Nick Lojos	

PARSONS

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

1. Site: FTMM
2. Location: FTMM-53
3. Well Designation: C99/MW01
4. Well Permit Number: 25236 77-1

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.) -.75
9. Total Well Depth (fbgs) 14.12
10. Screened interval/open hole (fbgs) 1.12 - 14.12
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: 12/18/14 Time: 0953
15. Depth to Ground Water Depth to ground water at time of deployment 2.61
16. Date and Time of Retrieval Date: 3/30/15 Time: 1005
17. Depth to Ground Water Depth to ground water at time of retrieval 2.19
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
7.5			

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

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☑ **Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment Temp. 35°F Wind 0-5 mph ☑ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval Temp. 40°F Wind SW 10-20 mph ☐ Sunny ☑ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Chris Watson	PARSONS
Nick Gozos	

PARSONS

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

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

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

6 Well Surface Finish: ☐ Stick Up ☑ Flush Mount

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

8. **NOTE**: PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) -0.3

9 Total Well Depth (fbgs): 12.5

10 Screened interval/open hole (fbgs): 0.5 - 12.5

11 Well Casing: Diameter: 4 Material: ☑ PVC ☐ Carbon Steel ☐ Stainless Steel

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

13 Screen Size (slot): Screen Slot Size: 0.02

14 Date and Time of Deployment: Date: 12/18/14 Time: 0942

15 Depth to Ground Water: Depth to ground water at time of deployment: 2.39

16 Date and Time of Retrieval: Date: 3/30/15 Time: 1015

17 Depth to Ground Water: Depth to ground water at time of retrieval: 2.10

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

19 Material and Mass (oz.) of PDBS Weight: 5 stainless steel 2.0 oz (stainless steel recommended)

20 Type of PDBS Used:
☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
☑ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

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

22 Position of PDBS Weight:
☑ Attached to bottom of PDBS and suspended in well
☐ Attached to bottom of deployment line and suspended in well
☐ Attached to bottom of deployment line and resting on bottom of well (preferred)

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

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

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

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
☐ **No**, this well is being profiled during this sampling round
☑ **Yes**, this well was profiled already. Date when well was profiled: 3/31/14

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

26. Weather Conditions During Deployment: Temp. 35°F Wind 0-5mph ☐ Sunny ☐ Overcast ☐ Raining ☐ Snowing

27. Weather Conditions During Retrieval: Temp. 40°F Wind SW 10-20 mph ☐ Sunny ☑ Overcast ☐ Raining ☐ Snowing

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

Name	Company
Chris Watson	PARSONS
Nick Lorenz	

PARSONS

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

1. Site: FTMM
2. Location: FTMM 22, CW-1
3. Well Designation: CW1MW27
4. Well Permit Number: 27-32591

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) 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: 12/18/14 Time: 1350

15. Depth to Ground Water Depth to ground water at time of deployment 8.25

16. Date and Time of Retrieval Date: 3/30/15 Time: 1330

17. Depth to Ground Water Depth to ground water at time of retrieval 7.96

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

19 Material and Mass (oz.) of PDBS Weight stainless steel 20 oz (stainless steel recommended)

20 Type of PDBS Used
☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

21 Dimensions of PDBS Length (in.) 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
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. 40°F Wind 10-15mph ☐Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval Temp. 50°F Wind 10-15 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

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

Name	Company
Chris Waters	PARSONS
Nick Lojos	

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

14. Date and Time of Deployment: Date: 12/18/14 Time: 1006
15. Depth to Ground Water: Depth to ground water at time of deployment 1.82
16. Date and Time of Retrieval: Date: 3/30/15 Time: 1020
17. Depth to Ground Water: Depth to ground water at time of retrieval 1.84
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
7.5			

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

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☒ **Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment: Temp. 35°F Wind 0-5 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval: Temp. 40°F Wind 10-20 mph ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

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

Name	Company
Chris Watson	PARSONS
Nick Loizos	

PARSONS

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

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

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify) _____
8. **NOTE**: PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.
   Distance between measuring point and ground surface (ft.) 1.04
9. Total Well Depth (fbgs): 13.50
10. Screened interval/open hole (fbgs): 0.90-13.50
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
14. Date and Time of Deployment: Date: 12/18/14 Time: 0936
15. Depth to Ground Water: Depth to ground water at time of deployment 4.45
16. Date and Time of Retrieval: Date: 3/30/15 Time: 1025
17. Depth to Ground Water: Depth to ground water at time of retrieval 4.15
18. Type of Deployment Line Used: Diameter: 3/16" Material: poly
19. Material and Mass (oz.) of PDBS Weight: Stainless Steel 20oz (stainless steel recommended)
20. Type of PDBS Used:
    ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS: Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight:
    ☐ Attached to bottom of PDBS and suspended in well
    ☑ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

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

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ No, this well is being profiled during this sampling round
    ☒ Yes, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ No, flow testing has not been conducted in this well
    ☐ Yes, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment: Temp. 35°F Wind 0-5 mph ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval: Temp. 40°F Wind SW 10-20 mph ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Chris Watson	Parsons
Nick Loizos	

PARSONS

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

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

5. Type of Well: ☑ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☑ Flush Mount
7. Location of Measuring Point: ☑ Top of Casing ☐ Other (specify) _____
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head

   Distance between measuring point and ground surface (ft.) -0.31
9. Total Well Depth (fbgs) 17.61
10. Screened interval/open hole (fbgs) 0.61-17.61
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: 12/18/14 Time: 1015
15. Depth to Ground Water — Depth to ground water at time of deployment: 2.605
16. Date and Time of Retrieval — Date: 3/30/15 Time: 1035
17. Depth to Ground Water — Depth to ground water at time of retrieval: 2.21
18. Type of Deployment Line Used — Diameter: 3/16" Material: poly

19. Material and Mass (oz.) of PDBS Weight: Stainless 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
8.0			

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

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☑ **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. 35°F Wind 0-5mph ☑ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval — Temp. 40°F Wind SW 10-20 mph ☐ Sunny ☑ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician Name(s) and Company (please print clearly)

Name	Company
Chris Watson	PARSONS
Nick Lorz	

PARSONS

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

1. Site: FtMm
2. Location: FtMM-53
3. Well Designation: 699RW11
4. Well Permit Number: 24-28031

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

14. Date and Time of Deployment: Date: 12/18/14 Time: 0948
15. Depth to Ground Water: Depth to ground water at time of deployment 3.15
16. Date and Time of Retrieval: Date: 3/30/15 Time: 1040
17. Depth to Ground Water: Depth to ground water at time of retrieval 2.81
18. Type of Deployment Line Used: Diameter: 3/16" Material: poly
19. Material and Mass (oz.) of PDBS Weight: stainless steel 20 oz (stainless steel recommended)
20. Type of PDBS Used:
    ☐Lab Filled (Modified Trip Blank must be taken at time of deployment)
    ☒Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS: Length (in.) 18 Diameter (in.) 1.5 Filled _____
22. Position of PDBS Weight:
    ☒Attached to bottom of PDBS and suspended in well
    ☐Attached to bottom of deployment line and suspended in well
    ☐Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
8.3			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐**No**, this well is being profiled during this sampling round
    ☒**Yes**, this well was profiled already. Date when well was profiled: 3/31/14
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐**No**, flow testing has not been conducted in this well
    ☐**Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment: Temp. 35°F Wind 0-5 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing
27. Weather Conditions During Retrieval: Temp. 40°F Wind SW 10-20 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing
28. Field Sampling Technician. Name(s) and Company (please print clearly)

Name	Company
Chris Watson	Parsons
Nick Cozos	

PARSONS

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

1. Site: FtMM
2. Location: FtMM-53
3. Well Designation: 699RW03
4. Well Permit Number: 25-43851

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

6 Well Surface Finish: ☐Stick Up ☒Flush Mount

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

8 **NOTE**: PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.

Distance between measuring point and ground surface (ft.) -0.9

9 Total Well Depth (fbgs): 17.87

10 Screened interval/open hole (fbgs): 2.87 - 17.87

11 Well Casing: Diameter 6 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel

12 Well Screen (or open hole diameter): Diameter 6 Material: ☒PVC ☐Carbon Steel ☐Stainless Steel

13 Screen Size (slot): Screen Slot Size 0.01

14. Date and Time of Deployment: Date: 12/18/14 Time: 0930

15. Depth to Ground Water: Depth to ground water at time of deployment 2.81

16. Date and Time of Retrieval: Date: 3/30/15 Time: 1050

17. Depth to Ground Water: Depth to ground water at time of retrieval 2.50

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
8.2			
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. 35°F Wind 0-5 mph ☒Sunny ☐Overcast ☐Raining ☐Snowing

27. Weather Conditions During Retrieval: Temp. 40°F Wind SW 10-20 mph ☐Sunny ☒Overcast ☐Raining ☐Snowing

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

Name	Company
Chris Watson	PARSONS
Nick Lopez	

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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2	PDB Sampling Summary
3	Groundwater Analytical Results 2014 and First Quarter 2015

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

LIST OF ATTACHMENTS

Attachment	Title
A	NJDEP PDB Checklists

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within FTMM-68 were gauged on December 18, 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 5.37 and 6.25 feet, respectively. Well details, including the top of well casing elevations, were not available at the time of this report and therefore groundwater elevations could not be calculated. Groundwater is expected to flow towards the east toward Huskey Brook based on groundwater elevations calculated in nearby monitoring wells at FTMM-53.

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

2.0 GROUNDWATER SAMPLING

Groundwater samples were collected from two monitoring wells located within FTMM-68 as part of the first quarter 2015 groundwater sampling event. The groundwater sampling program included measuring the depth to groundwater in the two FTMM-68 monitoring wells prior to sampling and collection of groundwater samples using passive diffusion bags (PDBs) methodology. PDBs were deployed in FTMM-68 monitoring wells on December 18, 2014 and samples were retrieved on March 30, 2015. A PDB sampling summary is provided in **Table 2**. Groundwater samples were analyzed for Target Compound List (TCL) volatile organic compounds and tentatively identified compounds (VOCs+TICs) via United States Environmental Protection Agency (USEPA) Method SW8260C.

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

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

3.0 GROUNDWATER RESULTS – FIRST QUARTER 2015

Four chlorinated VOCs were detected in groundwater during this quarterly event. Groundwater analytical detections from samples collected during the 2014 and first quarter 2015 groundwater sampling events are presented in **Table 3**. In the first quarter 2015 the compounds, tetrachloroethene (94 µg/L), trichloroethene (25 µg/L), and vinyl chloride (1.7 J µg/L) were detected above their NJDEP GWQS of 1 µg/L in monitoring well 565MW01. The same three compounds, tetrachloroethene (860 µg/L), trichloroethene (45 µg/L), and vinyl chloride (2.5 J µg/L), were detected above their NJDEP GWQS of 1 µg/L in monitoring well 565MW01D. Cis-1,2,Dichloethene was detected in both wells but at concentration below the NJDEP GWQS of 70 µg/L.

TABLES

Table 1 Groundwater Gauging Data and Elevations (December 18, 2014)

Table 2 PDB Sampling Summary

Table 3 Groundwater Analytical Results – 2014 and First Quarter 2015

Table 1
Groundwater Gauging Data and Elevations (December 18, 2014)
Site FTMM-68 Former Dry Cleaners UST at Building 700
Groundwater Sampling Report - First Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	PID Reading (ppm)	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)
Shallow Monitoring Wells													
565MW01	8/16/2011	N/A	N/A	N/A	15.0	5.0	10.0	0.00	8:54	0.0	5.37	17.10	N/A
Deep Monitoring Wells													
565MW01D	8/16/2011	N/A	N/A	N/A	23.0	18.0	5.0	0.00	8:51	0.0	6.25	25.40	N/A

Notes:
1) The synoptic round of water levels in the wells was collected on December 18, 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
Site FTMM-68 Former Dry Cleaners UST at Building 700
Groundwater Sampling Report - First Quarter 2015 FTMM-22, FTMM-53 and FTMM-68
Fort Monmouth, New Jersey

Site/Well ID	Profile Date	Depth (ft. bgs)	Screen Length (ft.)	Screen Interval (ft. bgs)	TOC Elev. (ft)	Gauge Date	Gauge Time	PID Reading (ppm)	Gauged DTW (ft. below TOC)	Gauged DTB (ft. below TOC)	GW Elevation (ft)	Saturated Screen Length (ft)	PDB Interval 1 (ft. below TOC)	PDB Interval 2 (ft. below TOC)	PDB Deploy Date	PDB Deploy Time	PDB Sample Date	PDB Sample Time
565MW01	8/29/2013	15.0	10.0	5-15	0.00	12/18/2015	8:54	0.0	5.37	17.10	N/A	10.00	11.99	N/A	12/18/2015	10:36	3/30/2015	9:45
565MW01D	8/29/2013	23.0	5.0	18-23	0.00	12/18/2015	8:51	0.0	6.25	25.40	N/A	5.00	22.31	N/A	12/18/2015	10:28	3/30/2015	9:50

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

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

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	565MW01					565MW01D					
Sample ID			FTMM-68-GW-565MW01	FTMM-68-GW-565MW01-11.99	FTMM-68-GW-565MW01-11.99_2014-Q3	FTMM-68-GW-565MW01-11.99	FTMM-68-565MW01-11.99	FTMM-68-GW-565MW01D-22.31	FTMM-68-GW-565MW101D-22.31	FTMM-68-GW-565MW01D-22.31	FTMM-68-GW-565MW01D-22.31	FTMM-68-GW-565MW01D-22.31	FTMM-68-565MW01D-22.31
Sample Date			3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015	3/31/2014	3/31/2014	7/1/2014	9/30/2014	12/18/2014	3/30/2015
QA/QC			SA	SA	SA	SA	SA	SA	DU	SA	SA	SA	SA
Sampling Method			PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB	PDB
Volatile Organic Compounds (µg/l)													
1,1,1,2-Tetrachloroethane	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,1,1-Trichloroethane	30	200	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,1,2,2-Tetrachloroethane	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,1,2-Trichloroethane	3	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,1-Dichloroethane	50	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,1-Dichloroethene	1	7	**2 J**	**2.1 J**	**3.2 J**	< 2	< 1	**0.67 J**	< 10	< 10	< 50	< 20	< 5
1,1-Dichloropropene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2,3-Trichlorobenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2,3-Trichloropropane	0.03	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2,4-Trichlorobenzene	9	70	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2,4-Trimethylbenzene	100	NLE	**0.83 J**	< 2.5	< 5	< 2	< 1	< 1	**4.6 J**	< 10	< 50	< 20	< 5
1,2-Dibromo-3-chloropropane	0.02	0.2	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2-Dibromoethane	0.03	0.05	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2-Dichlorobenzene	600	600	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2-Dichloroethane	2	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,2-Dichloropropane	1	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,3,5-Trimethylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,3-Dichlorobenzene	600	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,3-Dichloropropane	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
1,4-Dichlorobenzene	75	75	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
2,2-Dichloropropane	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
2-Chlorotoluene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Acetone	6,000	NLE	< 13	**3.2 J**	**13 J**	< 10	**1.7 J**	**1.5 J**	< 50	< 50	< 250	< 100	< 25
Benzene	1	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Bromobenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Bromochloromethane	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Bromodichloromethane	1	80	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Bromoform	4	80	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Carbon tetrachloride	1	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Chlorobenzene	50	100	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Chlorodibromomethane	1	80	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Chloroethane	5	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Chloroform	70	80	**0.85 J**	< 2.5	< 5	< 2	< 1	< 1	**2.7 J**	< 10	< 50	< 20	< 5
Cis-1,2-Dichloroethene	70	70	**270**	**190**	**210**	**110**	**40**	**140**	**120**	**34 J**	< 50	**49 J**	**53**
Cis-1,3-Dichloropropene	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Cymene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Dichlorodifluoromethane	1,000	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Ethyl benzene	700	700	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Hexachlorobutadiene	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Isopropylbenzene	700	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Meta/Para Xylene	1,000	NLE	< 5	< 5	< 10	< 4	< 2	< 2	< 20	< 20	< 100	< 40	< 10
Methyl bromide	10	NLE	< 2.5	< 2.5	< 5	< 2	< 1	**0.33 J**	< 10	< 10	< 50	< 20	< 5
Methyl butyl ketone	300	NLE	< 13	< 13	< 25	< 10	< 5	< 5	< 50	< 50	< 250	< 100	< 25
Methyl chloride	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Methyl ethyl ketone	300	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Methyl isobutyl ketone	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Methyl Tertbutyl Ether	70	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Methylene chloride	3	5	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Naphthalene	300	NLE	**4.8 J**	< 2.5	< 5	< 2	< 1	< 1	**12 J**	< 10	< 50	< 20	< 5
n-Butylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Ortho Xylene	1,000	NLE	**0.58 J**	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
p-Chlorotoluene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Propylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
sec-Butylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Styrene	100	100	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Tert Butyl Alcohol	100	NLE	NA	NA	< 100	< 40	< 20	NA	NA	NA	< 1000	< 400	< 100
tert-Butylbenzene	100	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Tetrachloroethene	1	5	**440**	**350**	**700**	**180**	**94**	**1,500**	**1,500**	**1,800**	**4,800**	**2,400**	**860**
Toluene	600	1,000	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Total TIC, Volatile	0.5	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Total Xylenes	1,000	10,000	**0.58 J**	< 7.5	< 15	< 6	< 3	< 3	< 30	< 30	< 150	NA	< 15
Trans-1,2-Dichloroethene	100	100	**1.9 J**	**1.3 J**	< 5	**0.78 J**	< 1	**1.4 J**	< 10	< 10	< 50	< 20	**1.9 J**
Trans-1,3-Dichloropropene	1	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Trichloroethene	1	5	**230**	**160**	**210**	**86**	**25**	**110**	**96**	**42 J**	**18 J**	**41 J**	**45**
Trichlorofluoromethane	2,000	NLE	< 2.5	< 2.5	< 5	< 2	< 1	< 1	< 10	< 10	< 50	< 20	< 5
Vinyl chloride	1	2	**18**	**13**	**16 J**	**1.3 J**	**1.7 J**	**6.1**	**5.5 J**	< 10	< 50	< 20	**2.5 J**

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

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

6) Chemical result qualifiers are assigned by the laboratory and 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.

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

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

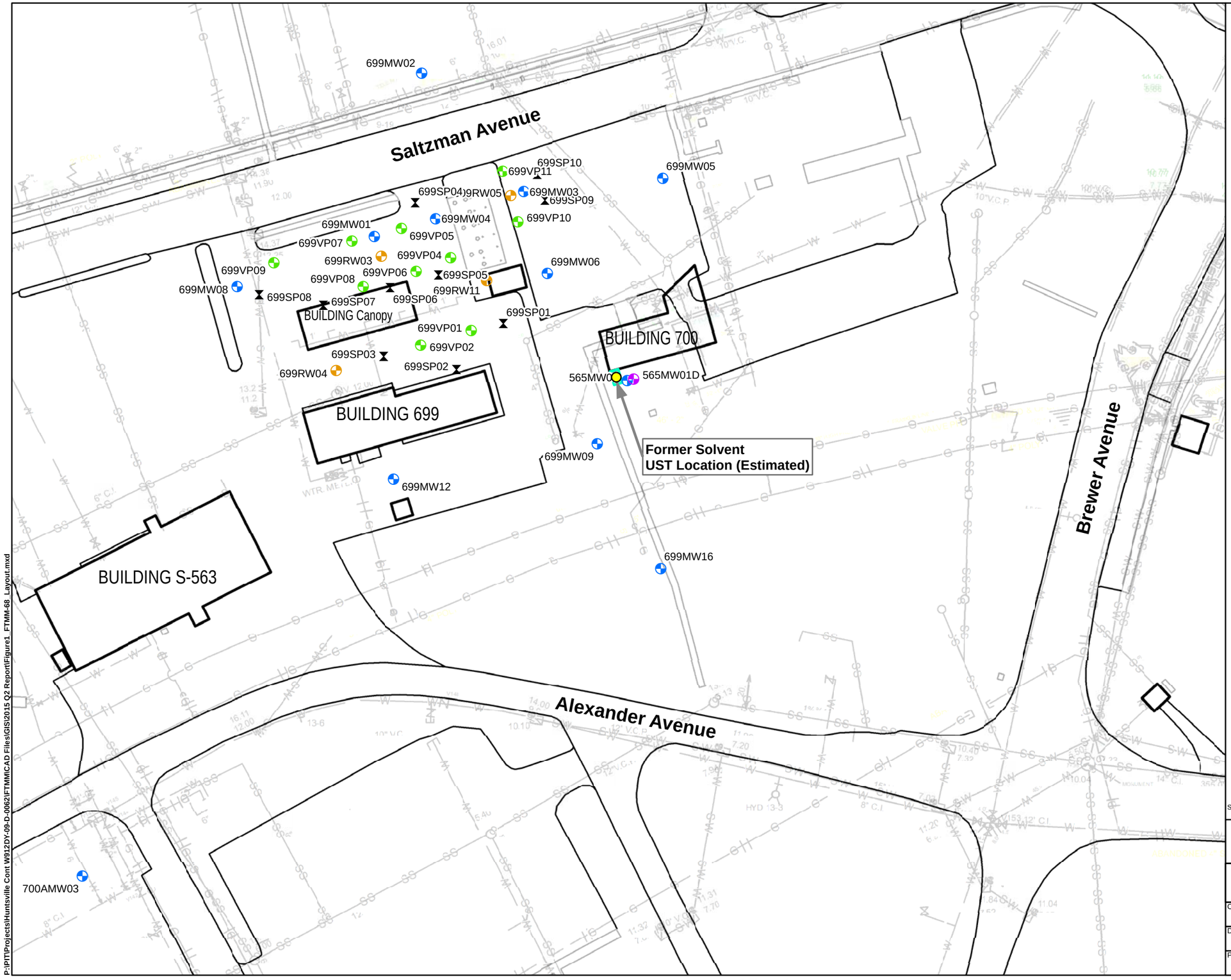
NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a GWQS or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).
- Bold Outline represent a result that is above the USEPA 2014-05 MCL. ###

8) Criteria action level source document and web address.
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
  http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf
- The 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) Sample Collected First Quarter 2015 Sample ID

FIGURES

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



LEGEND:

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

N

1 inch = 70 feet

0 35 70 140 Feet

Source: FTMM Supplied CAD

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

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

CREATED BY: RR	REVIEWED BY: TV
DATE: DEC. 2015	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-03000	FILE: Figure1_FTMM-68_Layout.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2015 Q2 Report\Figure1_FTMM-68_Layout.mxd

ATTACHMENTS

Attachment A NJDEP PDB Checklists

ATTACHMENT A
NJDEP PDB CHECKLISTS

PARSONS

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

1. Site: FTMA
2. Location: FTMA-68
3. Well Designation: 56GMW01D
4. Well Permit Number: ~~2013-68-27~~ (CH)

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.) 1.85
9. Total Well Depth (fbgs): 23.46
10. Screened interval/open hole (fbgs): 18.46 - 23.46
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: 12/18/14 Time: 1028
15. Depth to Ground Water: Depth to ground water at time of deployment 6.25
16. Date and Time of Retrieval: Date: 3/30/15 Time: 0950
17. Depth to Ground Water: Depth to ground water at time of retrieval 6.01
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
22.31			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☑ **Yes**, this well was profiled already. Date when well was profiled: 8/29/13
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**
26. Weather Conditions During Deployment: Temp. 35°F Wind 0-5mph ☑ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval: Temp. 40°F Wind SW 10-20 mph ☐ Sunny ☑ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Chris Watson	Parsons
Nick Ioiza	

PARSONS

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

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

5 Type of Well ☑ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other

6 Well Surface Finish ☑ Stick Up ☐ Flush Mount

7 Location of Measuring Point ☑ Top of Casing ☐ Other (specify) _____

8 **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below, any differences between the measuring point identified above and actual ground surface at the well head.

Distance between measuring point and ground surface (ft.) 1.79

9. Total Well Depth (fbgs) 15.29
10. Screened interval/open hole (fbgs) 5.29 - 15.29
11. Well Casing — Diameter 4 — Material ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter) — Diameter 4 — Material ☑ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) — Screen Slot Size 0.01

14. Date and Time of Deployment — Date: 12/18/14 Time: 1036
15. Depth to Ground Water — Depth to ground water at time of deployment 5.37
16. Date and Time of Retrieval — Date: 3/30/15 Time: 0945
17. Depth to Ground Water — Depth to ground water at time of retrieval 5.09
18. Type of Deployment Line Used — Diameter: 3/16" Material: poly

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

20 Type of PDBS Used
- ☐ Lab Filled (Modified Trip Blank must be taken at time of deployment)
- ☑ Field Filled (Modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)

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

22 Position of PDBS Weight
- ☐ Attached to bottom of PDBS and suspended in well
- ☑ Attached to bottom of deployment line and suspended in well
- ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)

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

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
11.99			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

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

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

26. Weather Conditions During Deployment — Temp. 35°F Wind 0-5 mph ☐ Sunny ☐ Overcast ☐ Raining ☐ Snowing
27. Weather Conditions During Retrieval — Temp. 40°F Wind 10-20 mph SW ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

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

Name	Company
Chris Watson	PARSONS
NICK LOIZOS	

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: April 28, 2015

Parsons - Austin

INTRODUCTION

The following data validation summary report covers water samples and the associated field quality control (QC) samples collected from Fort Monmouth in Oceanport, New Jersey on March 30, 2015 as part of the 1st GW Quarterly event for 2015. Samples were logged in under the following Sample Delivery Group (SDG):

R1502204

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 1.2°C, which was just below the 2-6°C range recommended by the project-specific UFP-QAPP.

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

SAMPLE IDs AND REQUESTED PARAMETERS

Sample ID	SDG	Matrix	VOCs, plus TICS	Comments
FTMM-TB-03302015	R1502204	W	X	Trip Blank
FTMM-68-565MW01D-22.31	R1502204	W	X	
FTMM-68-565MW01-11.99	R1502204	W	X	
FTMM-53-699RW05-10.0	R1502204	W	X	
FTMM-53-699MW01-7.5	R1502204	W	X	
FTMM-53-699MW09-7.75	R1502204	W	X	
FTMM-53-699MW16-7.5	R1502204	W	X	
FTMM-53-699MW06-10.2	R1502204	W	X	MS/MSD
FTMM-53-699MW106-10.2	R1502204	W	X	FD of FTMM-53-699MW06-10.2
FTMM-53-699MW04-8.0	R1502204	W	X	
FTMM-53-699RW11-8.3	R1502204	W	X	
FTMM-53-699RW03-8.2	R1502204	W	X	
FTMM-22-CW1MW29-10.85	R1502204	W	X	
FTMM-22-CW1MW37-11.78	R1502204	W	X	
FTMM-22-CW1MW31-16.4	R1502204	W	X	
FTMM-22-CW1MW27-12.63	R1502204	W	X	
FTMM-22-CW1MW28-11.21	R1502204	W	X	
FTMM-22-CW1MW281-33.74	R1502204	W	X	

W = Water

It should be noted that an equipment blank and DI water blank were analyzed as part of this 1st GW Quarterly Event for 2015 in R1410310. Results of these samples are discussed in the blank section below.

EXTRACTION AND ANALYTICAL METHODS:

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

EVALUATION CRITERIA

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

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

VOLATILE ORGANIC COMPOUNDS

General

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

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

The following samples in this SDG reported TICs:

FTMM-53-699MW05-10.0
FTMM-53-699RW11-8.3

The samples for VOCs were analyzed in three batches (#438870, #439004 and #439385) under a single ICAL. All analyses were performed undiluted, except as follows:

FTMM-68-565MW01D-22.31 was analyzed at 5x for all analytes
FTMM-53-699RW05-10.0 was analyzed at 2.5x for all analytes except 1,2,4-Trimethylbenzene and o-xylene were analyzed at 5x.

Accuracy

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

All LCS, MS, MSD and surrogate recoveries were within acceptance criteria.

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-53-699MW106-10.2 was collected as the field duplicate of FTMM-53-699MW06-10.2.

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; therefore precision calculations were not performed.

Representativeness

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

- Comparing the COC procedures to those described in the Work Plan;
- Comparing actual analytical procedures to those described in the Work Plan;
- Evaluating holding times; and
- Examining the laboratory blank for cross contamination of samples during sample analysis.

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

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

Inst #, CCV Date	Analyte	%R	Criteria
R-MS-07, 04/02/15 11:55	Bromomethane Chloroethane	78.7 77.2	80-120%

Inst #, CCV Date	Analyte	%R	Criteria
R-MS-07, 04/03/15 10:34	Acetone Bromoform	63.6 121	80-120%

Inst #, CCV Date	Analyte	%R	Criteria
R-MS-07, 04/07/15 11:07	Bromoform Bromomethane Chloroethane Dichlorodifluoromethane Methylene Chloride	122 78.4 74.2 74.5 78.2	80-120%

The high bromoform recoveries in the CCVs do not require qualifying since the bromoform recoveries were high and all associated sample results were non-detect for bromoform. The samples listed below required "J" flagging to the non-detect analyte results due to low recoveries in the CCVs. It should be noted that some analyte results were previously flagged "J" due to detected results between the LOD and LOQ. Acetone results previously qualified with a "J" were not included in the list below.

FTMM-68-565MW01D-22.31	Bromomethane, Chloroethane, dichlorodifluoromethane and methylene chloride
FTMM-53-699RW05-10.0	Bromomethane and Chloroethane
FTMM-53-699MW04-8.0	Bromomethane and Chloroethane
FTMM-53-699RW11-8.3	Acetone
FTMM-22-CW1MW281-33.74	Bromomethane, Chloroethane, dichlorodifluoromethane and methylene chloride

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

Three method blanks and one trip blank were analyzed for VOCs. All method blanks and the trip blank were non-detect for all analytes.

In addition to the analytical method blanks analyzed in this data package, an equipment blank and DI water blank were associated with this sampling event and reported in SDG R1410310.

Equipment Blank (from R1410310):

FTMM-EB-121814 had detections of Toluene at 0.24 µg/L. Future sample results for the 1st Quarterly GW event for 2015 may require flagging due to the Toluene contamination in the EB sample.

Source (DI) Water Blank (from R1410310):

FTMM-DI-121814 had detection of Acetone at 1.6 µg/L. Future sample results for the 1st Quarterly GW event for 2015 may require flagging due to the Acetone contamination in the DI sample.

Since all toluene results in this current data package were previously flagged "J" due to detected results between the LOD and LOQ, no further corrective action was required. Similarly, all acetone detections were previously flagged "J" due to low CCV recoveries, therefore no additional qualifiers were required.

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.

DATA VERIFICATION SUMMARY REPORT

for samples collected from

FORT MONMOUTH

OCEANPORT, NEW JERSEY

Data Verification by: Sandra de las Fuentes

Date: January 28, 2015

Parsons - Austin

INTRODUCTION

The following data verification summary report covers water samples and the associated field quality control (QC) samples collected from Fort Monmouth in Oceanport, New Jersey on December 18, 2014 as part of the 4th Groundwater Quarterly Event. Samples were logged in under the following Sample Delivery Group (SDG):

R1410310

This verification report covers all of the analyses in the SDG listed above.

The samples in this SDG were analyzed for volatile organic compounds (VOCs) plus tentatively identified compounds (TICs). The table below lists all samples associated with this SDG. The QC samples collected including a trip blank, an equipment blank and source blank sample.

All samples were collected by Parsons and shipped to ALS Environmental in Rochester, New York in one cooler. All cooler was received by the laboratory at temperature of 0.3°C. The project-specific UFP-QAPP recommends cooler temperatures to be within the 2-6°C range. Although the cooler was received at less than the recommended range, there were no signs of freezing, therefore sample integrity remained intact.

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

QC IDENTIFICATION TABLE:

Sample ID	SDG	Matrix	VOCs, plus TICS	Comments
FTMM-TB-121814	R1410310	W	X	Trip blank
FTMM-EB-121814	R1410310	W	X	Equipment Blank
FTMM-DI-121814	R1410310	W	X	Di water source blank

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 verified following the guidelines outlined in the project-specific UFP-QAPP. A verification was performed and the information reviewed in the data packages included sample results; field and laboratory quality control results; case narratives; 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.

This verification report discusses only the non-compliant QC issues that required qualifying the data. All other QC not detailed in this report was either compliant or did not require flagging (i.e. high biased QC associated with non-detected results).

VOLATILE ORGANIC COMPOUNDS

General

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.

All analyses were performed undiluted. There were no TICs detected in any of the samples.

Accuracy

Accuracy was evaluated using the percent recovery obtained from the LCS and the surrogate spikes.

All LCS and surrogate spike recoveries were within acceptance criteria.

Precision

Precision is generally evaluated using the RPDs obtained from the MS/MSD and field duplicate concentrations. Since these samples were not collected in association with this SDG, precision could not be evaluated.

Representativeness

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

- Comparing the COC procedures to those described in the Work Plan;
- Comparing actual analytical procedures to those described in the Work Plan;
- Evaluating holding times; and
- Examining the laboratory blank for cross contamination of samples during sample analysis.

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

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

Inst #, CCV Date	Analyte	%R	Criteria
MSVOA-12, 12/30/14 12:10	Tert-butyl alcohol	71.3	80-120%

Since the only samples included in this VOC SDG are field QC samples, no flags were deemed necessary.

- 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.

There was one method blank, one equipment blank, one trip blank, and one source blank sample analyzed for VOCs. See below for details.

Method Blanks:

The method blank was analyzed for VOCs. The method blank had a detection less than one-half the LOQ for bromomethane (0.030 µg/L), as required by the project-specific UFP-QAPP; therefore no corrective action was required. In addition, there were no detections for Bromomethane in any of the associated samples.

Trip Blank:

FTMM-TB-121814 had no detections above the MDLs.

Equipment Blank:

FTMM-EB-121814 had detections of Toluene at 0.24 µg/L. Future sample results for the 1st Quarterly GW event for 2015 may require flagging due to the Toluene contamination in the EB sample.

Source (DI) Water Blank:

FTMM-DI-121814 had detection of Acetone at 1.6 µg/L. Future sample results for the 1st Quarterly GW event for 2015 may require flagging due to the Acetone contamination in the DI sample.

Completeness

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

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

COMPARABILITY

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

DATA USABILITY

The purpose of this data validation report is to ensure the integrity and reliability of analytical laboratory data. The data quality is evaluated based on precision, accuracy, representativeness, comparability, and completeness (PARCC) characteristics of the data. The validated data indicated that the laboratory correctly performed the analyses. Based on the data quality assessment, none of the data were qualified as rejected.

All data in this SDG are considered usable for the purposes of this project. All sample LODs and LOQs met the requirements listed in the project QAPP. All Method Quality Objectives have been met.

APPENDIX E

LABORATORY ANALYTICAL RESULTS

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

January 12, 2015

Analytical Report for Service Request No: R1410310

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

Laboratory Results for: FTMM 1Q 2015 GW/748810-03000

Dear Tammy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 20, 2014. For your reference, these analyses have been assigned our service request number **R1410310**.

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

CASE NARRATIVE

Client:	Parsons Engineering Science	**Service Request No.:**	R1410310
Project:	FTMM 1Q 2015	**Project No.:**	748810-03000
Sample Matrix:	Water	**Date Received:**	12/20/14

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 cooler temperatures of 0.2-2.3 °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

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

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

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except tert-Butyl alcohol on the 12/29/14 CCV. No data was affected.

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 not requested on these samples.

The Method Blanks associated with these samples were free of contamination except the 12/29/14 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: R1410310	Diskette Requested: No	Date Due: 1/15/15
Client: Parsons Engineering Science	Date: 12/26/14	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: FTMM 1Q 2015 GW	Chain of Custody: Present/Absent:	SDG #: FTMM-TB-121814

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1410310-001	FTMM-TB-121814	Water	8260C	12/18/14	12/20/14			
R1410310-002	FTMM-EB-121814	Water	8260C	12/18/14	12/20/14			
R1410310-003	FTMM-DI-121814	Water	8260C	12/18/14	12/20/14			

Folder Comments: DoD reporting

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

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

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

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

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

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

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

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

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

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

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

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

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

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

C Confirmed by GC/MS

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

X See Case Narrative for discussion.

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

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

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

20663

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 5 OF 5

Project Name: 1Q 2015 GW FTMM ~~1Q 2014 GW~~	Project Number: 748510-03000
Project Manager: Chris Grill	Report CC:
Company/Address: 100 High St, Boston, MA 02210	
Phone #: (617) 449-1583	Email: chris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: N. Lozzo, C. Watson

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

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	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-TB-121814		12/18/14	—	TB	3	X							
FTMM-EB-121814		↓	1100	EB	3	X							
FTMM-DI-121814		↓	1100	EB	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 New Jersey

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature						
Printed Name	Chris Watson	J Seward				
Firm	PARSONS	ALS				
Date/Time	12/19/14 1100	12/20/14 1015				

R1410310 5
Parsons, Inc.
FTMM Baseline

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

©2012 ALS Group

R1410310 5
Parsons, Inc.
FTMM Baseline

Cooler Receipt and Preservation Check Form

Project/Client Parsons Folder Number R14-10310

Cooler received on 12/20 by: JM 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: 12/20 Time: 1020 ID: IR#3 IR#4 From: Temp Blank Sample Bottle

Observed Temp (°C)	0.3	2.4					
Correction Factor (°C)	-0.1	-0.1					
Corrected Temp (°C)	0.2	2.3					
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: Area by JM on 12/20 at 1020
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 12/22/14

Cooler Breakdown: Date: 12/22/14 Time: 1420 by: A

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	**	**	4114050	11/5				

**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: 4-258-004
Other Comments:

PC Secondary Review: JMS 12/26/14 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Collected: 12/18/14
Date Received: 12/20/14
Date Analyzed: 12/29/14 13:56

Sample Name: FTMM-TB-121814
Lab Code: R1410310-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\

Analysis Lot: 427219
Instrument Name: R-MS-12
Dilution Factor: 1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 13:56
Sample Name:	FTMM-TB-121814	**Units:**	µg/L
Lab Code:	R1410310-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 13:56
Sample Name:	FTMM-TB-121814	**Units:**	µg/L
Lab Code:	R1410310-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	75-120	12/29/14 13:56	
Dibromofluoromethane	101	85-115	12/29/14 13:56	
Toluene-d8	100	85-120	12/29/14 13:56	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Collected: 12/18/14
Date Received: 12/20/14
Date Analyzed: 12/29/14 1356

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

Sample Name: FTMM-TB-121814
Lab Code: R1410310-001

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:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:27
Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:27
Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:27
Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	75-120	12/29/14 14:27	
Dibromofluoromethane	102	85-115	12/29/14 14:27	
Toluene-d8	100	85-120	12/29/14 14:27	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 1427

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

Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:59
Sample Name:	FTMM-DI-121814	**Units:**	µg/L
Lab Code:	R1410310-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	**J**	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:59
Sample Name:	FTMM-DI-121814	**Units:**	µg/L
Lab Code:	R1410310-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:59
Sample Name:	FTMM-DI-121814	**Units:**	µg/L
Lab Code:	R1410310-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	12/29/14 14:59	
Dibromofluoromethane	100	85-115	12/29/14 14:59	
Toluene-d8	99	85-120	12/29/14 14:59	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 1459

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

Sample Name:	FTMM-DI-121814	**Units:**	µg/L
Lab Code:	R1410310-003	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 12:52
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 12:52
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 12:52
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	12/29/14 12:52	
Dibromofluoromethane	98	85-115	12/29/14 12:52	
Toluene-d8	99	85-120	12/29/14 12:52	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 1252

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Analyzed: 12/29/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 427219

Analyte Name	Lab Control Sample RQ1415949-03 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	19.1	20.0	96	80 - 130
1,1,1-Trichloroethane (TCA)	17.1	20.0	85	65 - 130
1,1,2,2-Tetrachloroethane	18.9	20.0	95	65 - 130
1,1,2-Trichloroethane	18.2	20.0	91	75 - 125
1,1-Dichloroethane (1,1-DCA)	17.7	20.0	88	70 - 135
1,1-Dichloroethene (1,1-DCE)	17.8	20.0	89	70 - 130
1,1-Dichloropropene	17.2	20.0	86	75 - 130
1,2,3-Trichlorobenzene	22.1	20.0	111	75 - 125
1,2,3-Trichloropropane	18.1	20.0	90	75 - 125
1,2,4-Trichlorobenzene	22.8	20.0	114	65 - 135
1,2,4-Trimethylbenzene	19.6	20.0	98	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	18.8	20.0	94	50 - 130
1,2-Dibromoethane	19.1	20.0	96	80 - 120
1,2-Dichlorobenzene	19.4	20.0	97	70 - 120
1,2-Dichloroethane	17.7	20.0	88	70 - 130
1,2-Dichloropropane	17.7	20.0	88	75 - 125
1,3,5-Trimethylbenzene	19.1	20.0	96	75 - 130
1,3-Dichlorobenzene	19.1	20.0	96	75 - 125
1,3-Dichloropropane	18.9	20.0	95	75 - 125
1,4-Dichlorobenzene	19.1	20.0	95	75 - 125
2,2-Dichloropropane	16.5	20.0	82	70 - 135
2-Butanone (MEK)	19.5	20.0	98	30 - 150
2-Chlorotoluene	19.2	20.0	96	75 - 125
2-Hexanone	16.3	20.0	82	55 - 130
tert-Butyl Alcohol	300	400	75	50 - 150
4-Chlorotoluene	18.5	20.0	93	75 - 130
p-Isopropyltoluene	20.6	20.0	103	75 - 130
4-Methyl-2-pentanone	15.8	20.0	79	60 - 135
Acetone	21.4	20.0	107	40 - 140
Benzene	18.3	20.0	91	80 - 120
Bromobenzene	19.1	20.0	96	75 - 125
Bromochloromethane	19.1	20.0	96	65 - 130
Bromodichloromethane	18.4	20.0	92	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 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Analyzed: 12/29/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 427219

Lab Control Sample
RQ1415949-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	20.2	20.0	101	70 - 130
Bromomethane	16.6	20.0	83	30 - 145
Carbon Tetrachloride	17.7	20.0	88	65 - 140
Chlorobenzene	18.7	20.0	94	80 - 120
Chloroethane	19.9	20.0	99	60 - 135
Chloroform	18.1	20.0	90	65 - 135
Chloromethane	22.8	20.0	114	40 - 125
Dibromochloromethane	19.8	20.0	99	60 - 135
Dichlorodifluoromethane (CFC 12)	24.2	20.0	121	30 - 155
Methylene Chloride	17.9	20.0	90	55 - 140
Ethylbenzene	16.9	20.0	85	75 - 125
Hexachlorobutadiene	24.1	20.0	120	50 - 140
Isopropylbenzene (Cumene)	19.6	20.0	98	75 - 125
Methyl tert-Butyl Ether	17.6	20.0	88	65 - 125
Naphthalene	22.8	20.0	114	55 - 140
Styrene	18.4	20.0	92	65 - 135
Tetrachloroethene (PCE)	19.0	20.0	95	45 - 150
Toluene	18.5	20.0	92	75 - 120
Trichloroethene (TCE)	18.9	20.0	95	70 - 125
Trichlorofluoromethane (CFC 11)	17.9	20.0	90	60 - 145
Vinyl Chloride	22.8	20.0	114	50 - 145
cis-1,2-Dichloroethene	18.3	20.0	92	70 - 125
cis-1,3-Dichloropropene	17.3	20.0	86	70 - 130
m,p-Xylenes	38.4	40.0	96	75 - 130
n-Butylbenzene	20.7	20.0	103	70 - 135
n-Propylbenzene	19.8	20.0	99	70 - 130
o-Xylene	18.4	20.0	92	80 - 120
sec-Butylbenzene	20.0	20.0	100	70 - 125
tert-Butylbenzene	19.8	20.0	99	70 - 130
trans-1,2-Dichloroethene	18.8	20.0	94	60 - 140
trans-1,3-Dichloropropene	17.3	20.0	86	55 - 140

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

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

ALS Environmental
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January 12, 2015

Analytical Report for Service Request No: R1410310

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

Laboratory Results for: FTMM 1Q 2015 GW/748810-03000

Dear Tammy:

Enclosed are the results of the sample(s) submitted to our laboratory on December 20, 2014. For your reference, these analyses have been assigned our service request number **R1410310**.

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

Parsons, Inc.
R1410310

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ALS Environmental

SDG NARRATIVE

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
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RIGHT SOLUTIONS | RIGHT PARTNER

CASE NARRATIVE

Client:	Parsons Engineering Science	**Service Request No.:**	R1410310
Project:	FTMM 1Q 2015	**Project No.:**	748810-03000
Sample Matrix:	Water	**Date Received:**	12/20/14

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 cooler temperatures of 0.2-2.3 °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

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

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

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except tert-Butyl alcohol on the 12/29/14 CCV. No data was affected.

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 not requested on these samples.

The Method Blanks associated with these samples were free of contamination except the 12/29/14 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: R1410310	Diskette Requested: No	Date Due: 1/15/15
Client: Parsons Engineering Science	Date: 12/26/14	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: FTMM 1Q 2015 GW	Chain of Custody: Present/Absent:	SDG #: FTMM-TB-121814

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1410310-001	FTMM-TB-121814	Water	8260C	12/18/14	12/20/14			
R1410310-002	FTMM-EB-121814	Water	8260C	12/18/14	12/20/14			
R1410310-003	FTMM-DI-121814	Water	8260C	12/18/14	12/20/14			

Folder Comments: DoD reporting

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

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

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

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

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

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

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

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

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

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

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

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

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

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

C Confirmed by GC/MS

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

X See Case Narrative for discussion.

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

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

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

ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

20663

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 5 OF 5

Project Name: 1Q 2015 GW FTMM ~~10-30-30~~	Project Number: 748510-03000
Project Manager: Chris Grill	Report CC:
Company/Address: 100 High St, Boston, MA 02210	
Phone #: (617) 449-1583	Email: chris.grill@parsons.com
Sampler's Signature:	Sampler's Printed Name: N. Lorzo, C. Watson

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

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

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	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-TB-121814		12/18/14	—	TB	3	X							
FTMM-EB-121814		↓	1100	EB	3	X							
FTMM-DI-121814		↓	1100	EB	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 New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	
Printed Name: Chris Watson	Printed Name:	Printed Name:	Printed Name:	Printed Name:	
Firm: PARSONS	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 12/19/14 1100	Date/Time: 12/20/14 1015	Date/Time:	Date/Time:	Date/Time:	

R1410310 5
Parsons, Inc.
FTMM Baseline

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

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R1410310 5
Parsons, Inc.
FTMM Baseline

Cooler Receipt and Preservation-Check Form

Project/Client Parsons Folder Number R14-10310

Cooler received on 12/20 by: JM

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: 12/20 Time: 1020 ID: IR#3 (IR#4) From: Temp Blank Sample Bottle

Observed Temp (°C)	0.3	2.4					
Correction Factor (°C)	-0.1	-0.1					
Corrected Temp (°C)	0.2	2.3					
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: Room by JM on 12/20 at 1020
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 12/22/14

Cooler Breakdown: Date: 12/22/14 Time: 1420 by: [illegible]

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	**	**	4114050	4/15				

**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: 4-258-004

Other Comments:

PC Secondary Review: JMS 12/26/14

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1410310
Project: FTMM 1Q 2015 GW/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1410310-001.01					
	8260C				
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
		12/29/14	1155	In Lab / KRUEST	
		12/29/14	1158	R-001-S12 / KRUEST	
R1410310-001.02					
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
R1410310-001.03					
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
R1410310-002.01					
	8260C				
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
		12/29/14	1155	In Lab / KRUEST	
		12/29/14	1158	R-001-S12 / KRUEST	
R1410310-002.02					
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
R1410310-002.03					
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
R1410310-003.01					
	8260C				
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
		12/29/14	1155	In Lab / KRUEST	
		12/29/14	1158	R-001-S12 / KRUEST	
R1410310-003.02					
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	
R1410310-003.03					
		12/22/14	1419	SMO / JSEWARD	
		12/22/14	1419	R-001 / JSEWARD	

ALS Environmental

VOLATILE ORGANICS QC SUMMARY

ALS Environmental - Rochester, NY
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Phone (585) 288-5380 Fax (585) 288-8475
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Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Analyzed: 12/29/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 427219

Analyte Name	Lab Control Sample RQ1415949-03 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	19.1	20.0	96	80 - 130
1,1,1-Trichloroethane (TCA)	17.1	20.0	85	65 - 130
1,1,2,2-Tetrachloroethane	18.9	20.0	95	65 - 130
1,1,2-Trichloroethane	18.2	20.0	91	75 - 125
1,1-Dichloroethane (1,1-DCA)	17.7	20.0	88	70 - 135
1,1-Dichloroethene (1,1-DCE)	17.8	20.0	89	70 - 130
1,1-Dichloropropene	17.2	20.0	86	75 - 130
1,2,3-Trichlorobenzene	22.1	20.0	111	75 - 125
1,2,3-Trichloropropane	18.1	20.0	90	75 - 125
1,2,4-Trichlorobenzene	22.8	20.0	114	65 - 135
1,2,4-Trimethylbenzene	19.6	20.0	98	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	18.8	20.0	94	50 - 130
1,2-Dibromoethane	19.1	20.0	96	80 - 120
1,2-Dichlorobenzene	19.4	20.0	97	70 - 120
1,2-Dichloroethane	17.7	20.0	88	70 - 130
1,2-Dichloropropane	17.7	20.0	88	75 - 125
1,3,5-Trimethylbenzene	19.1	20.0	96	75 - 130
1,3-Dichlorobenzene	19.1	20.0	96	75 - 125
1,3-Dichloropropane	18.9	20.0	95	75 - 125
1,4-Dichlorobenzene	19.1	20.0	95	75 - 125
2,2-Dichloropropane	16.5	20.0	82	70 - 135
2-Butanone (MEK)	19.5	20.0	98	30 - 150
2-Chlorotoluene	19.2	20.0	96	75 - 125
2-Hexanone	16.3	20.0	82	55 - 130
tert-Butyl Alcohol	300	400	75	50 - 150
4-Chlorotoluene	18.5	20.0	93	75 - 130
p-Isopropyltoluene	20.6	20.0	103	75 - 130
4-Methyl-2-pentanone	15.8	20.0	79	60 - 135
Acetone	21.4	20.0	107	40 - 140
Benzene	18.3	20.0	91	80 - 120
Bromobenzene	19.1	20.0	96	75 - 125
Bromochloromethane	19.1	20.0	96	65 - 130
Bromodichloromethane	18.4	20.0	92	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 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Analyzed: 12/29/14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 427219

Analyte Name	Lab Control Sample RQ1415949-03 Result	Spike Amount	% Rec	% Rec Limits
Bromoform	20.2	20.0	101	70 - 130
Bromomethane	16.6	20.0	83	30 - 145
Carbon Tetrachloride	17.7	20.0	88	65 - 140
Chlorobenzene	18.7	20.0	94	80 - 120
Chloroethane	19.9	20.0	99	60 - 135
Chloroform	18.1	20.0	90	65 - 135
Chloromethane	22.8	20.0	114	40 - 125
Dibromochloromethane	19.8	20.0	99	60 - 135
Dichlorodifluoromethane (CFC 12)	24.2	20.0	121	30 - 155
Methylene Chloride	17.9	20.0	90	55 - 140
Ethylbenzene	16.9	20.0	85	75 - 125
Hexachlorobutadiene	24.1	20.0	120	50 - 140
Isopropylbenzene (Cumene)	19.6	20.0	98	75 - 125
Methyl tert-Butyl Ether	17.6	20.0	88	65 - 125
Naphthalene	22.8	20.0	114	55 - 140
Styrene	18.4	20.0	92	65 - 135
Tetrachloroethene (PCE)	19.0	20.0	95	45 - 150
Toluene	18.5	20.0	92	75 - 120
Trichloroethene (TCE)	18.9	20.0	95	70 - 125
Trichlorofluoromethane (CFC 11)	17.9	20.0	90	60 - 145
Vinyl Chloride	22.8	20.0	114	50 - 145
cis-1,2-Dichloroethene	18.3	20.0	92	70 - 125
cis-1,3-Dichloropropene	17.3	20.0	86	70 - 130
m,p-Xylenes	38.4	40.0	96	75 - 130
n-Butylbenzene	20.7	20.0	103	70 - 135
n-Propylbenzene	19.8	20.0	99	70 - 130
o-Xylene	18.4	20.0	92	80 - 120
sec-Butylbenzene	20.0	20.0	100	70 - 125
tert-Butylbenzene	19.8	20.0	99	70 - 130
trans-1,2-Dichloroethene	18.8	20.0	94	60 - 140
trans-1,3-Dichloropropene	17.3	20.0	86	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.

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Analyzed:**	12/29/14 12:52
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-12
Lab Code:	RQ1415949-04	**File ID:**	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\
Analytical Method:	8260C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1415949-03	I:\ACQUDATA\msvoa12\Data\122914\MM1853.D\	12/29/14 11:17
FTMM-TB-121814	R1410310-001	I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\	12/29/14 13:56
FTMM-EB-121814	R1410310-002	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	12/29/14 14:27
FTMM-DI-121814	R1410310-003	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	12/29/14 14:59

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000

Service Request: R1410310
Date Analyzed: 10/27/14 15:08

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\102714\MM0095.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	23.1	98133	Pass
75	95	30	60	53.6	227669	Pass
95	95	100	100	100.0	424533	Pass
96	95	5	9	6.7	28573	Pass
173	174	0	2	1.1	3648	Pass
174	95	50	120	76.3	324011	Pass
175	174	5	9	7.7	25107	Pass
176	174	95	101	96.8	313536	Pass
177	176	5	9	6.8	21386	Pass

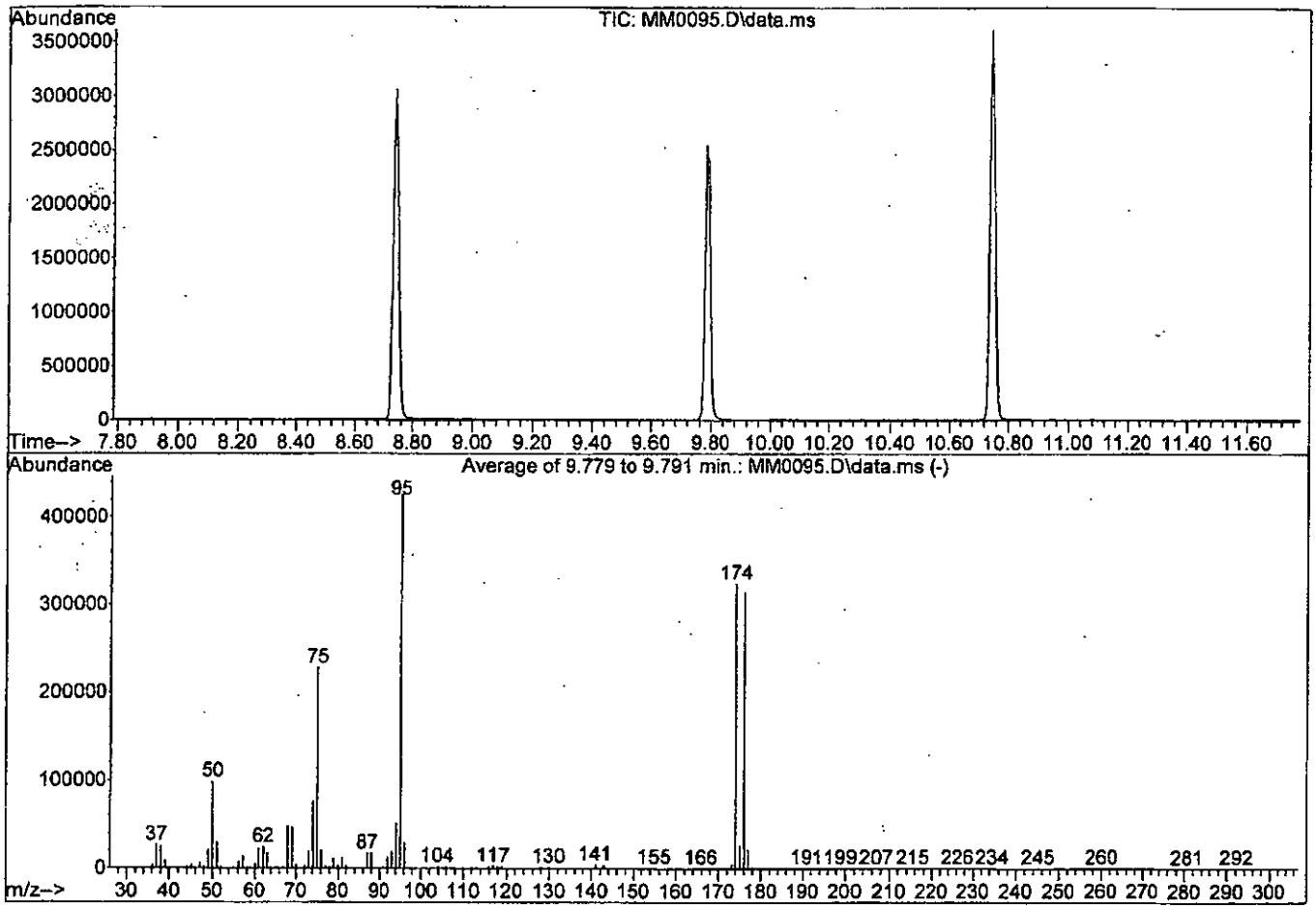
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0097.D\	10/27/14 16:13	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0098.D\	10/27/14 16:45	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0099.D\	10/27/14 17:17	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0101.D\	10/27/14 17:49	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0102.D\	10/27/14 18:21	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0102.D\	10/27/14 18:54	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0103.D\	10/27/14 19:26	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0104.D\	10/27/14 19:58	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0105.D\	10/27/14 20:31	

```
Data Path : I:\ACQUDATA\msvoa12\Data\102714\
Data File : MM0095.D
Acq On    : 27 Oct 2014   3:08 pm
Operator  : K.Ruest
Sample    : TUNE
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Integration File: INTP60.P

Method    : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title     : MS#12 - 8260B WATERS 10mL Purge
Last Update  : Mon Oct 27 15:07:21 2014
```

KR 10/27/14



AutoFind: Scans 1424, 1425, 1426; Background Corrected with Scan 1419

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	98133	PASS
75	95	30	60	53.6	227669	PASS
95	95	100	100	100.0	424533	PASS
96	95	5	9	6.7	28573	PASS
173	174	0.00	2	1.1	3648	PASS
174	95	50	120	76.3	324011	PASS
175	174	5	9	7.7	25107	PASS
176	174	95	101	96.8	313536	PASS
177	176	5	9	6.8	21386	PASS

W102714.M Mon Oct 27 16:29:58 2014 Page: 1

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000

Service Request: R1410310
Date Analyzed: 12/29/14 10:14

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\122914\MM1851.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 427219

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	21.76	89317	Pass
75	95	30	60	51.04	209451	Pass
95	95	100	100	100.00	410389	Pass
96	95	5	9	6.90	28301	Pass
173	174	0	2	1.04	3604	Pass
174	95	50	120	84.11	345195	Pass
175	174	5	9	7.66	26428	Pass
176	174	95	101	97.52	336640	Pass
177	176	5	9	6.25	21047	Pass

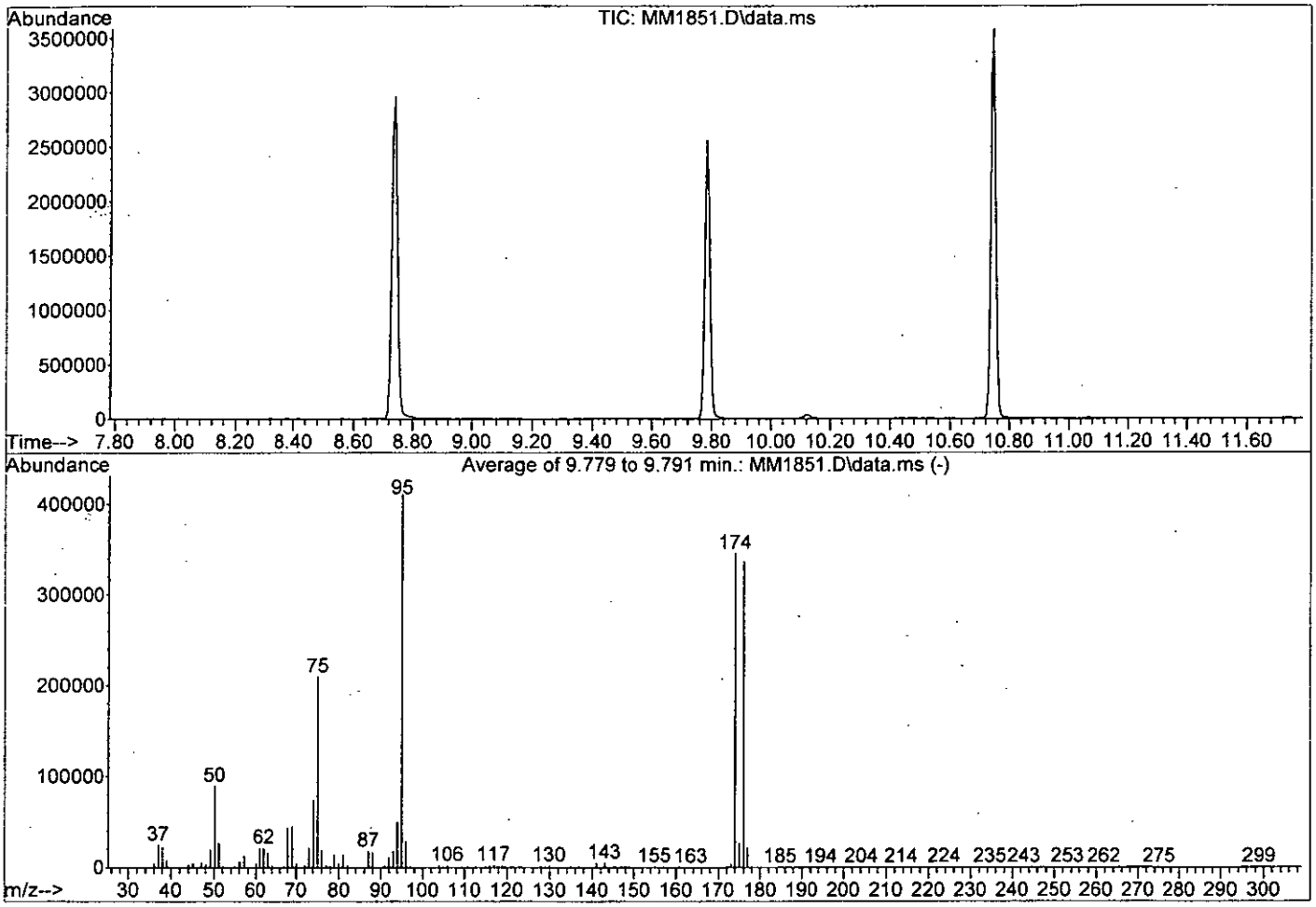
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1415949-02	I:\ACQUDATA\msvoa12\Data\122914\MM1852.D\	12/29/14 10:45	
Lab Control Sample	RQ1415949-03	I:\ACQUDATA\msvoa12\Data\122914\MM1853.D\	12/29/14 11:17	
Method Blank	RQ1415949-04	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\	12/29/14 12:52	
FTMM-TB-121814	R1410310-001	I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\	12/29/14 13:56	
FTMM-EB-121814	R1410310-002	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	12/29/14 14:27	
FTMM-DI-121814	R1410310-003	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	12/29/14 14:59	

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1851.D
Acq On : 29 Dec 2014 10:14 am
Operator : K.Ruest
Sample : TUNE RQ1415949-01
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Oct 28 10:54:16 2014

KR 12/29/14



AutoFind: Scans 1424, 1425, 1426; Background Corrected with Scan 1419

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	89317	PASS
75	95	30	60	51.0	209451	PASS
95	95	100	100	100.0	410389	PASS
96	95	5	9	6.9	28301	PASS
173	174	0.00	2	1.0	3604	PASS
174	95	50	120	84.1	345195	PASS
175	174	5	9	7.7	26428	PASS
176	174	95	101	97.5	336640	PASS
177	176	5	9	6.3	21047	PASS

W102714.M Mon Dec 29 10:29:44 2014 Page: 1

0001

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000

Service Request: R1410310
Date Analyzed: 12/29/14 10:45

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

File ID: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1415949-02
Analysis Lot: 427219
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	751,808	10.75	1,341,979	5.44	1,248,765	8.74
	Upper Limit ==>	1,503,616	11.25	2,683,958	5.94	2,497,530	9.24
	Lower Limit ==>	375,904	10.25	670,990	4.94	624,383	8.24
	ICAL Result ==>	744,954	10.75	1,362,156	5.45	1,272,285	8.74
Associated Analyses							
Lab Control Sample	RQ1415949-03	720,154	10.75	1,355,907	5.44	1,251,162	8.74
Method Blank	RQ1415949-04	653,611	10.75	1,341,246	5.44	1,213,860	8.74
FTMM-TB-121814	R1410310-001	627,265	10.75	1,306,716	5.44	1,195,185	8.74
FTMM-EB-121814	R1410310-002	621,156	10.75	1,312,194	5.44	1,190,971	8.74
FTMM-DI-121814	R1410310-003	630,830	10.75	1,305,886	5.44	1,188,386	8.74

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

QA/QC Report

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000

Service Request: R1410310
Date Analyzed: 12/29/14 10:45

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

File ID: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1415949-02
Analysis Lot: 427219
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	902,925	4.25
	Upper Limit ==>	1,805,850	4.75
	Lower Limit ==>	451,463	3.75
	ICAL Result ==>	896,470	4.24
Associated Analyses			
Lab Control Sample	RQ1415949-03	904,307	4.24
Method Blank	RQ1415949-04	892,318	4.24
FTMM-TB-121814	R1410310-001	865,465	4.24
FTMM-EB-121814	R1410310-002	870,304	4.24
FTMM-DI-121814	R1410310-003	862,905	4.24

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

ALS Environmental

VOLATILE ORGANICS SAMPLE DATA

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

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Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 13:56
Sample Name:	FTMM-TB-121814	**Units:**	µg/L
Lab Code:	R1410310-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 13:56
Sample Name:	FTMM-TB-121814	**Units:**	µg/L
Lab Code:	R1410310-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 13:56
Sample Name:	FTMM-TB-121814	**Units:**	µg/L
Lab Code:	R1410310-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1858.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	75-120	12/29/14 13:56	
Dibromofluoromethane	101	85-115	12/29/14 13:56	
Toluene-d8	100	85-120	12/29/14 13:56	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Collected: 12/18/14
Date Received: 12/20/14
Date Analyzed: 12/29/14 1356

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

Sample Name: FTMM-TB-121814
Lab Code: R1410310-001

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 : R1410310-001|1.0
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1858.D
Misc : PARSONS 11603 T4
Acq On : 29 Dec 2014 1:56 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 14:31:10 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.243	168	865465	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1306716	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1195185	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	627265	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	383878	50.45	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.90%				
48) surr1,1,2-dichloroetha...	4.658	65	441029	47.60	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 95.20%				
65) SURR3,Toluene-d8	7.322	98	1605131	50.11	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.22%				
70) SURR2,BFB	9.785	95	581737	46.80	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.60%				
Target Compounds							Qvalue
5) Bromomethane	1.518	94	1527	0.27	ppb	#	27
18) Carbon Disulfide	2.207	76	6002	0.24	ppb		97
116) Hexachlorobt	12.266	225	769	0.21	ppb		85
119) 2,4,5-Trichlorotolene	12.845	159	1496	0.28	ppb	#	83
120) 2,3,6-Trichlorotoluene	12.906	159	2078	0.42	ppb	#	77

KR 12/29/14

NTD

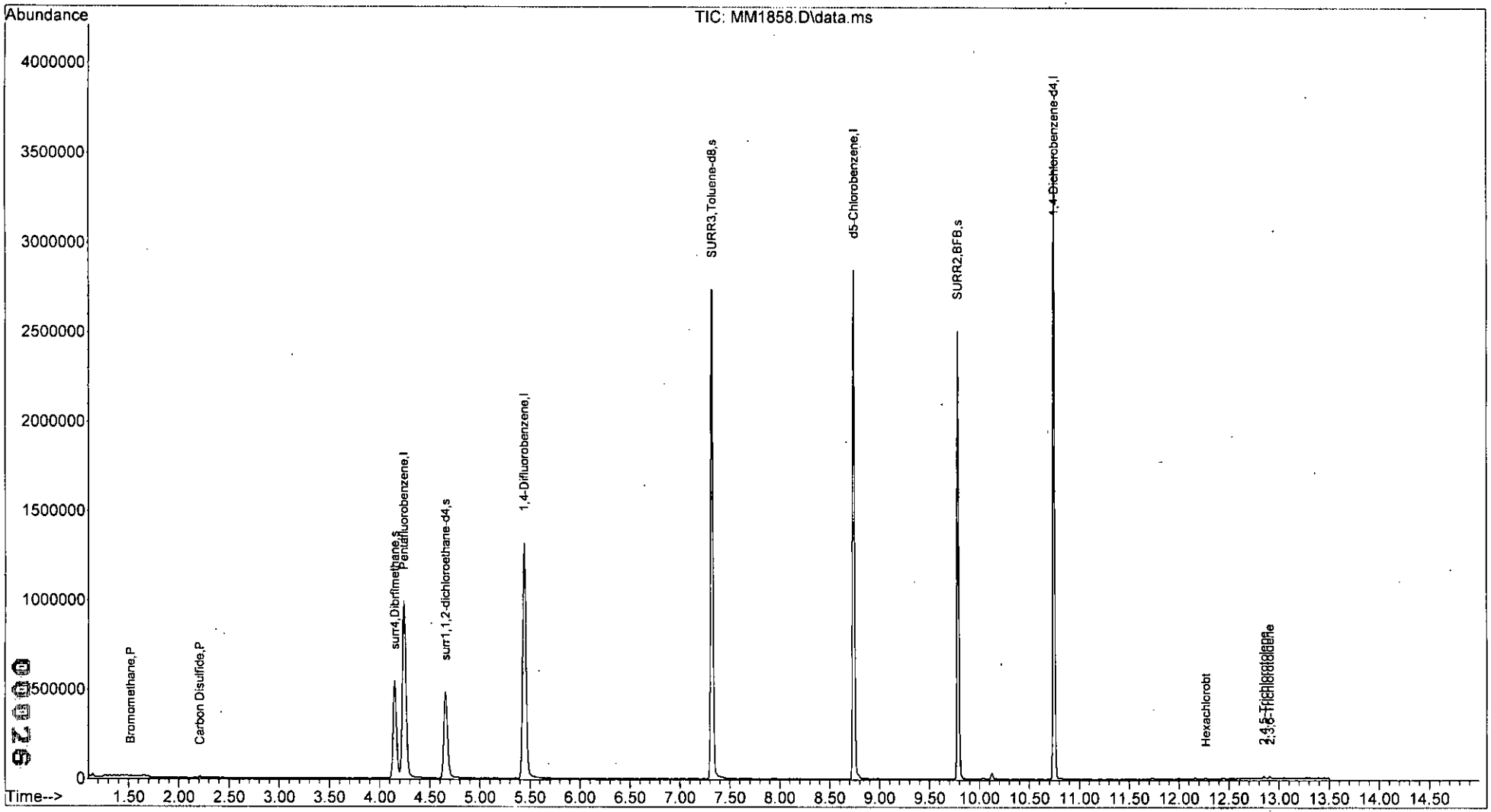
(#) = qualifier out of range (m) = manual integration (+) = signals summed

W102714.M Mon Dec 29 14:34:04 2014 Page: 1

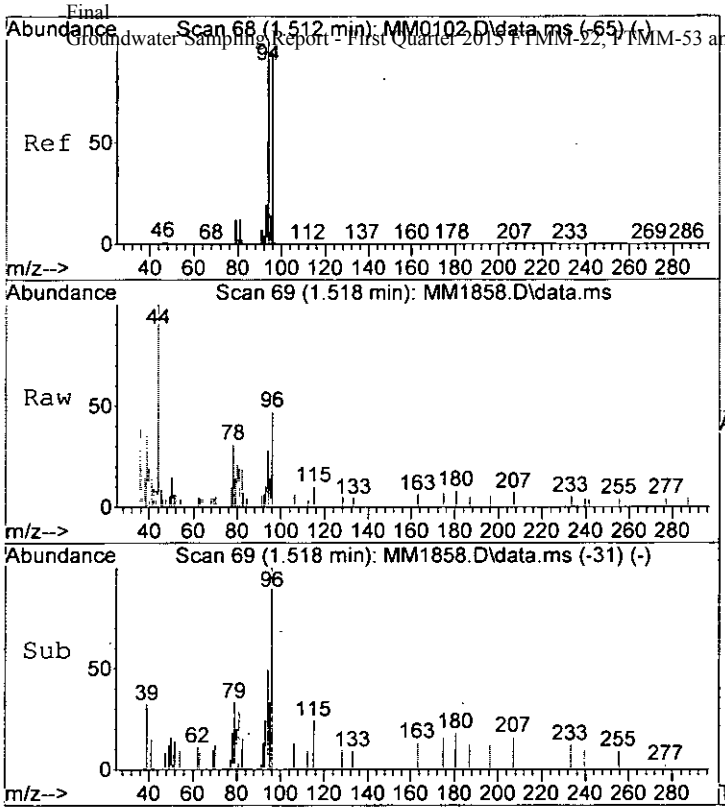
Quantitation Report (QT Reviewed)

Sample : R1410310-001|1.0
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1858.D
Misc : PARSONS 11603 T4
Acq On : 29 Dec 2014 1:56 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 14:31:10 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



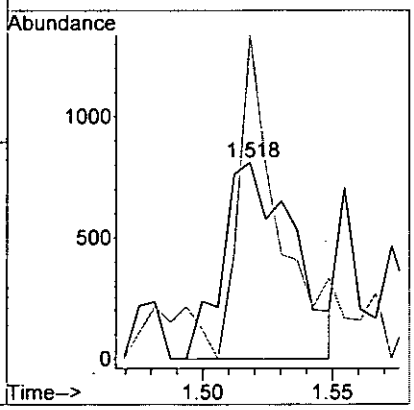
W102714.M Mon Dec 29 14:34:06 2014 Page: 2

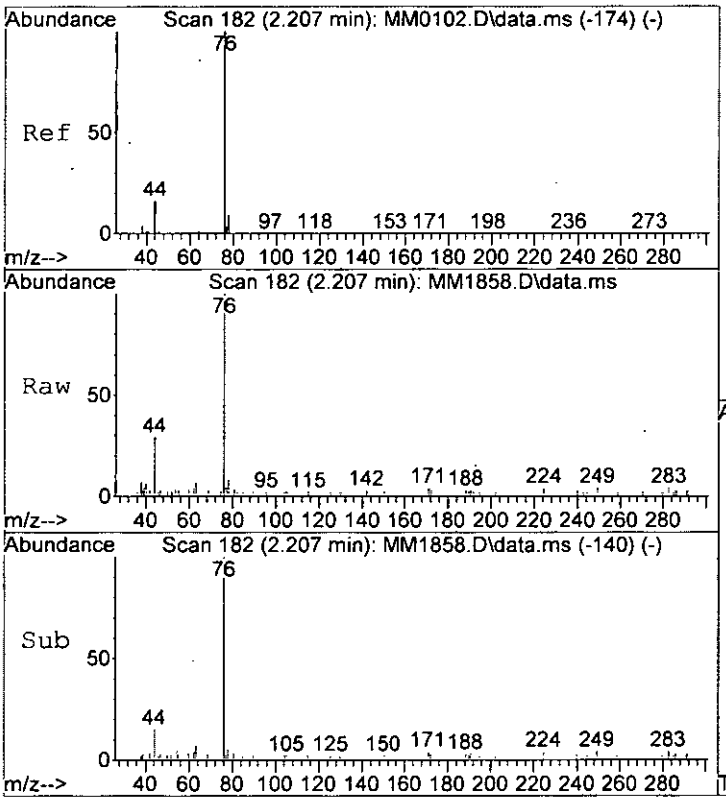


#5
Bromomethane
Concen: 0.27 ppb
RT: 1.518 min Scan# 69
Delta R.T. 0.006 min
Lab File: MM1858.D
Acq: 29 Dec 2014 1:56 pm

Tgt Ion: 94 Resp: 1527

Ion	Ratio	Lower	Upper
94	100		
96	164.7	74.3	114.3#

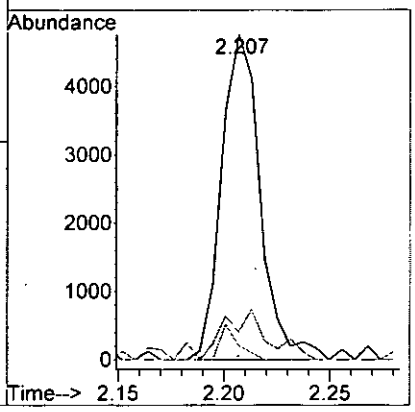


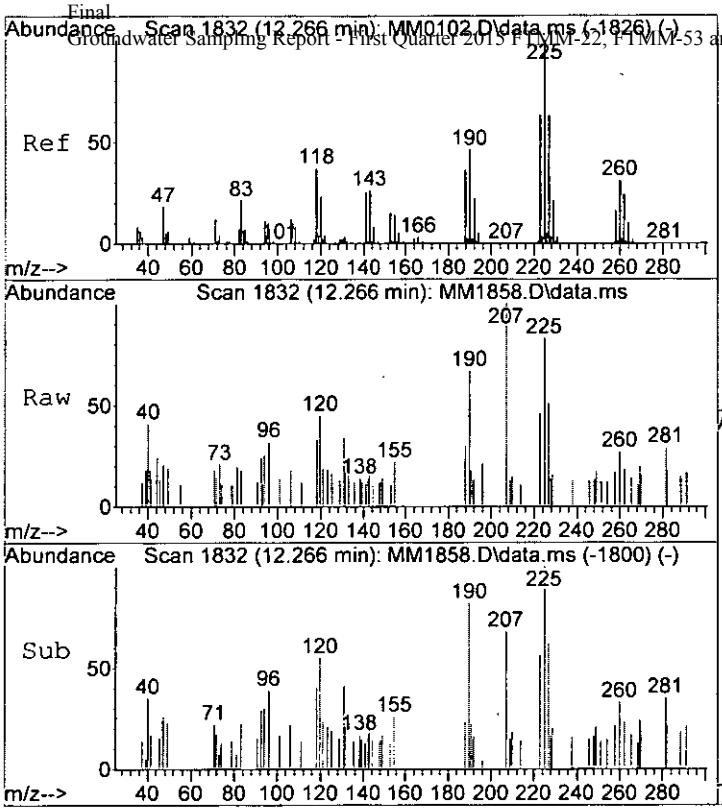


#18
Carbon Disulfide
Concen: 0.24 ppb
RT: 2.207 min Scan# 182
Delta R.T. 0.000 min
Lab File: MM1858.D
Acq: 29 Dec 2014 1:56 pm

Tgt Ion: 76 Resp: 6002

Ion	Ratio	Lower	Upper
76	100		
78	8.5	0.0	29.1
77	4.3	0.0	22.6

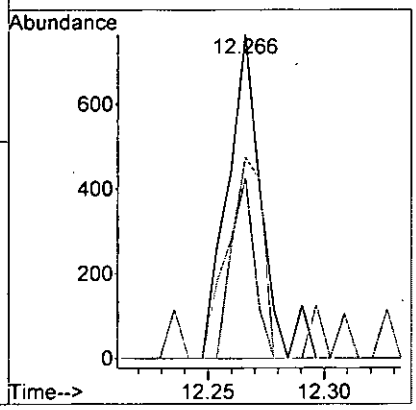


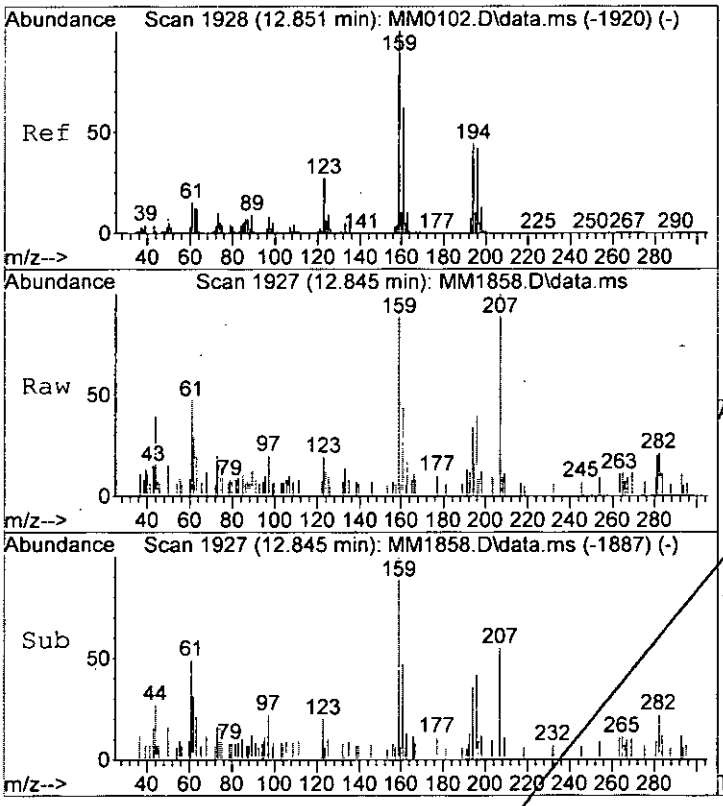


#116
Hexachlorobt
Concen: 0.21 ppb
RT: 12.266 min Scan# 1832
Delta R.T. 0.000 min
Lab File: MM1858.D
Acq: 29 Dec 2014 1:56 pm

Tgt Ion:225 Resp: 769

Ion	Ratio	Lower	Upper
225	100		
223	55.8	42.5	82.5
227	78.7	42.6	82.6

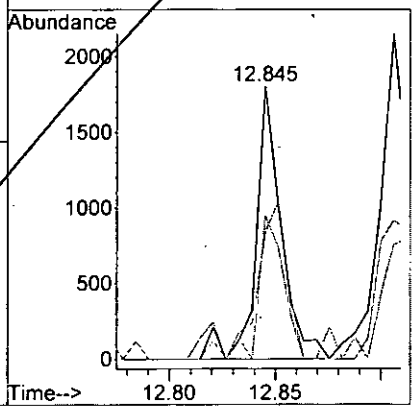




#119
2,4,5-Trichlorotolene
Concen: 0.28 ppb
RT: 12.845 min Scan# 1927
Delta R.T. -0.006 min
Lab File: MM1858.D
Acq: 29 Dec 2014 1:56 pm

Tgt Ion:159 Resp: 1496

Ion	Ratio	Lower	Upper
159	100		
161	46.6	49.7	74.5#
194	52.4	35.0	52.4



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1858.D
Acq On : 29 Dec 2014 1:56 pm
Operator : K.Ruest
Sample : R1410310-001|1.0
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

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

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

Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM1858.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.152	489	501	508	rBV	543162	1269722	29.72%	5.524%
2	4.243	508	516	533	rVB	985717	2458372	57.54%	10.695%
3	4.658	574	584	600	rBV2	482698	1245461	29.15%	5.418%
4	5.444	704	713	729	rBV	1317002	3049242	71.37%	13.265%
5	7.316	1014	1020	1031	rBV	2739104	4272321	100.00%	18.586%
6	8.742	1248	1254	1268	rBV	2848587	3775279	88.37%	16.424%
7	9.785	1420	1425	1437	rVB	2504995	2943542	68.90%	12.806%
8	10.120	1476	1480	1486	rBV	33425	47500	1.11%	0.207%
9	10.748	1578	1583	1593	rBV	3502343	3924943	91.87%	17.075%

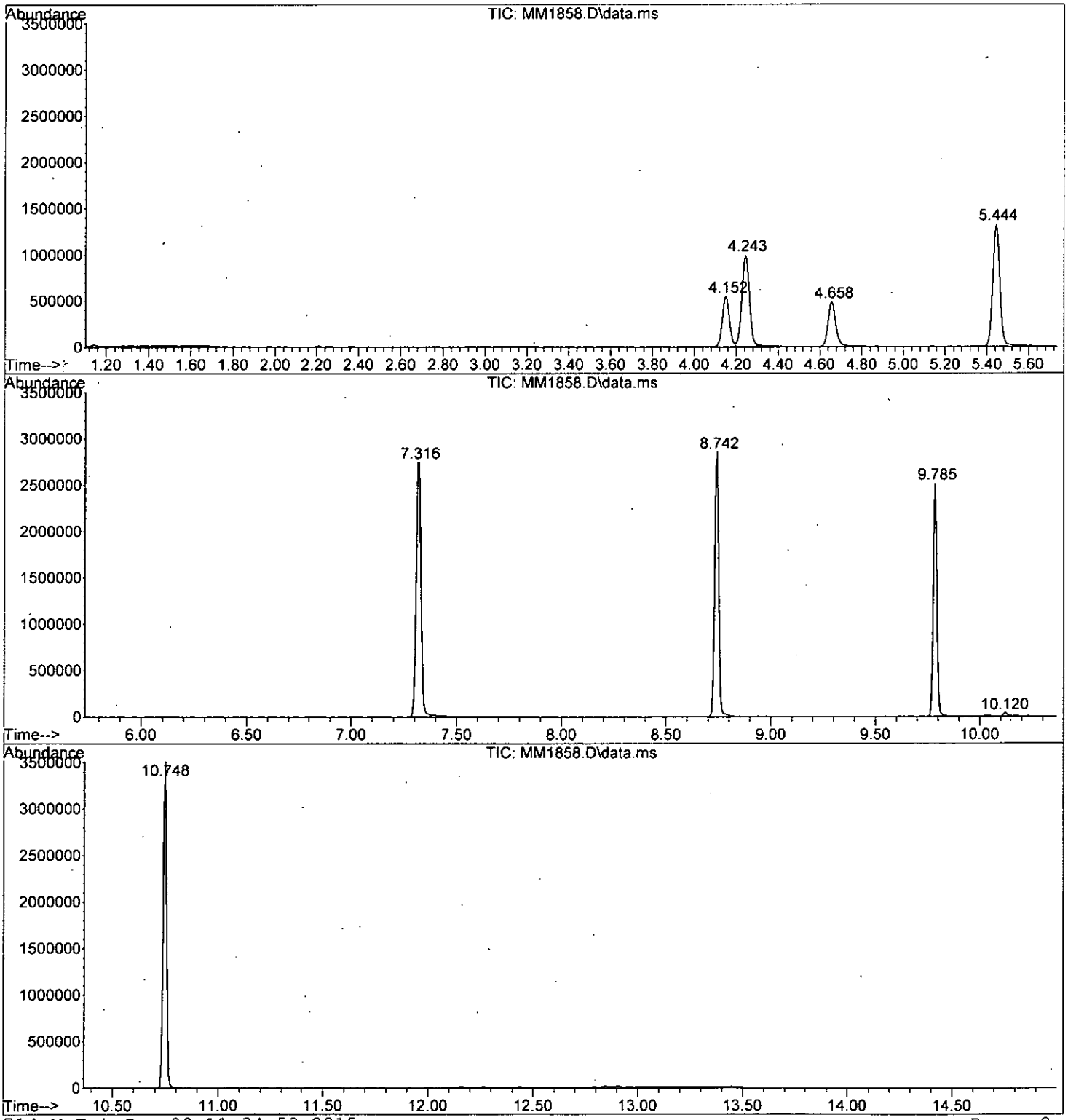
Sum of corrected areas: 22986382

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1858.D
Acq On : 29 Dec 2014 1:56 pm
Operator : K.Ruest
Sample : R1410310-001|1.0
Misc : PARSONS 11603 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

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



W102714.M Fri Jan 09 11:34:53 2015 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\122914\\
Data File : MM1858.D
Acq On : 29 Dec 2014 1:56 pmm
Operator : K.Ruestt
Sample : R1410310-001|1.00
Misc : PARSONS 11603 T44
ALS Vial : 10 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

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

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

No Library Search Compounds Detected
****

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:27
Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:27
Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:27
Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1859.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	75-120	12/29/14 14:27	
Dibromofluoromethane	102	85-115	12/29/14 14:27	
Toluene-d8	100	85-120	12/29/14 14:27	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 1427

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

Sample Name:	FTMM-EB-121814	**Units:**	µg/L
Lab Code:	R1410310-002	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Sample : R1410310-002|1.0
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1859.D
Misc : PARSONS 11603 T4
Acq On : 29 Dec 2014 2:27 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 15:06:05 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.243	168	870304	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1312194	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1190971	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	621156	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	388295	50.81	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.62%				
48) surr1,1,2-dichloroetha...	4.658	65	440913	47.39	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 94.78%				
65) SURR3,Toluene-d8	7.322	98	1600414	49.75	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.50%				
70) SURR2,BFB	9.785	95	576555	46.19	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.38%				
Target Compounds							Qvalue
5) Bromomethane	1.524	94	1345	0.23	ppb	#	65
15) Acetone	2.055	43	2308	1.25	ppb	#	63
66) Toluene	7.395	91	8557	0.24	ppb		79
119) 2,4,5-Trichlorotolene	12.845	159	1273	0.24	ppb	#	83 MTD
120) 2,3,6-Trichlorotoluene	12.912	159	1326	0.27	ppb	#	75 MTD

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

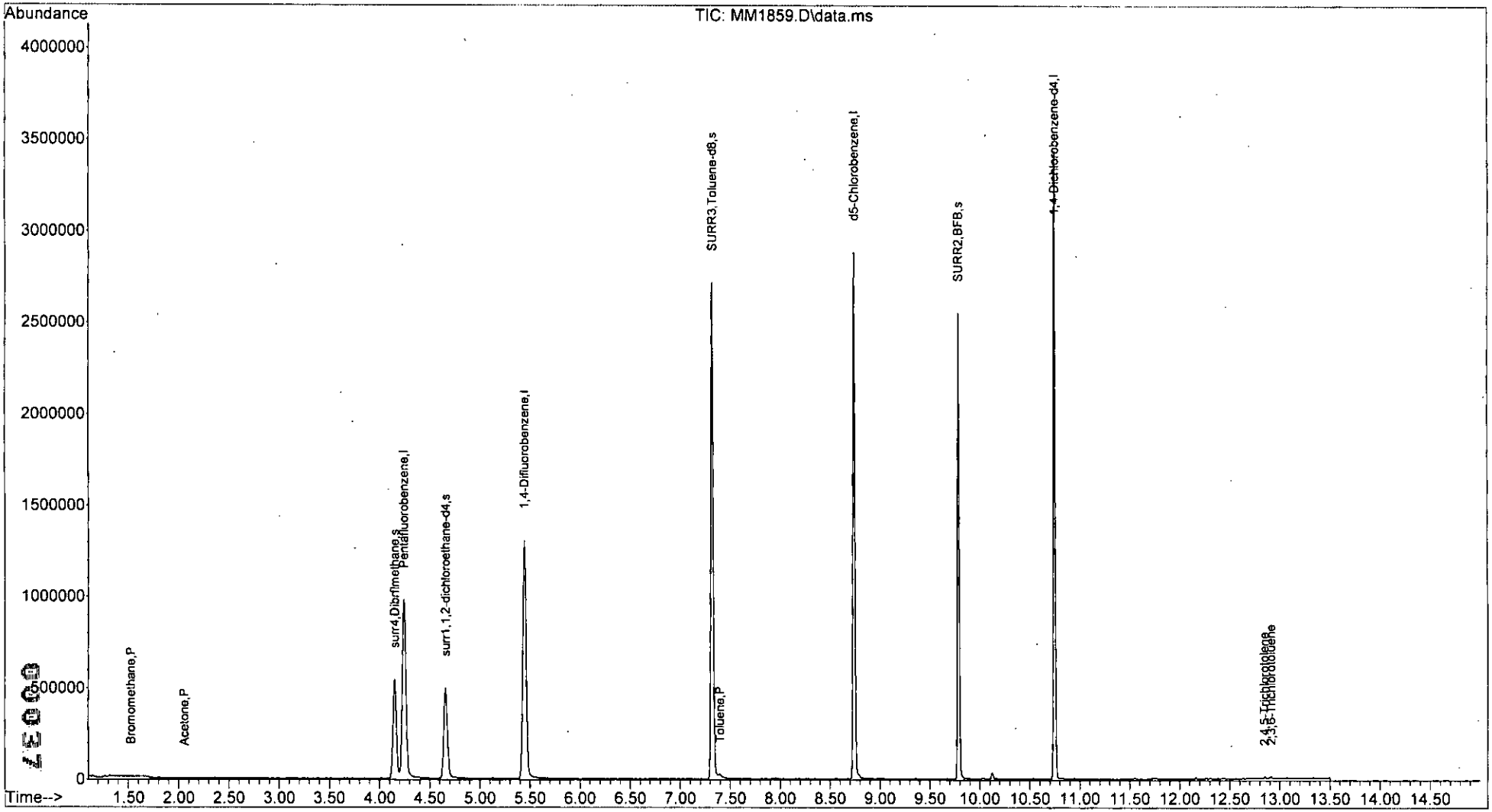
12/29/14

W102714.M Mon Dec 29 15:06:52 2014 Page: 1

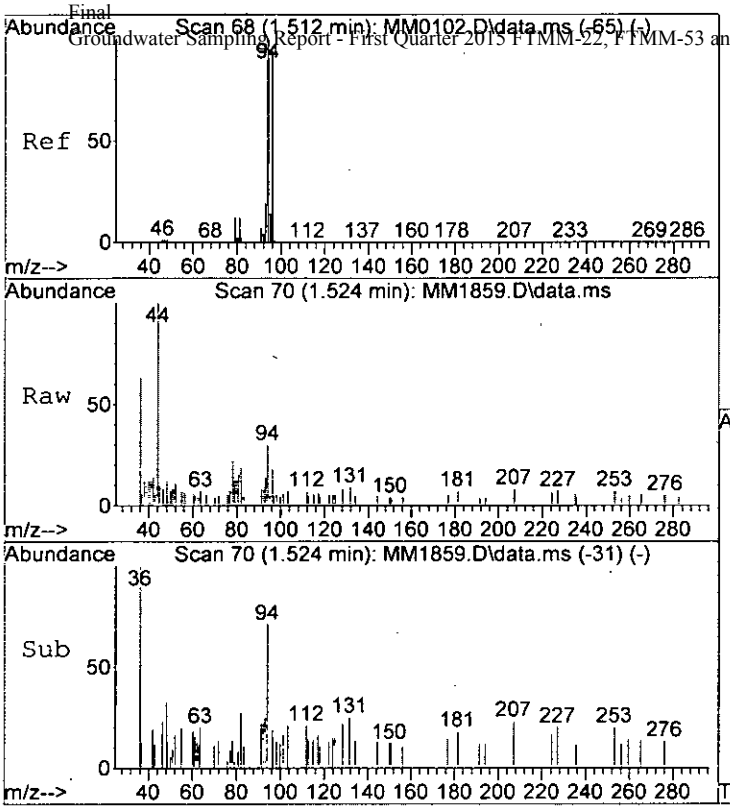
Quantitation Report (QT Reviewed)

Sample : R1410310-002|1.0
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1859.D
Misc : PARSONS 11603 T4
Acq On : 29 Dec 2014 2:27 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 15:06:05 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



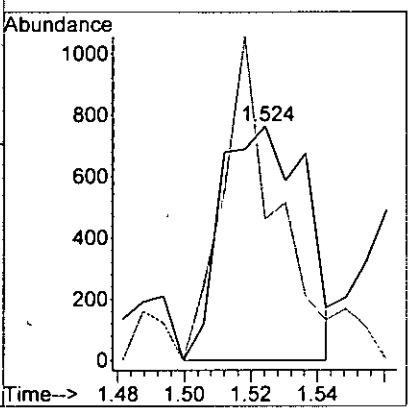
W102714.M Mon Dec 29 15:06:54 2014 Page: 2

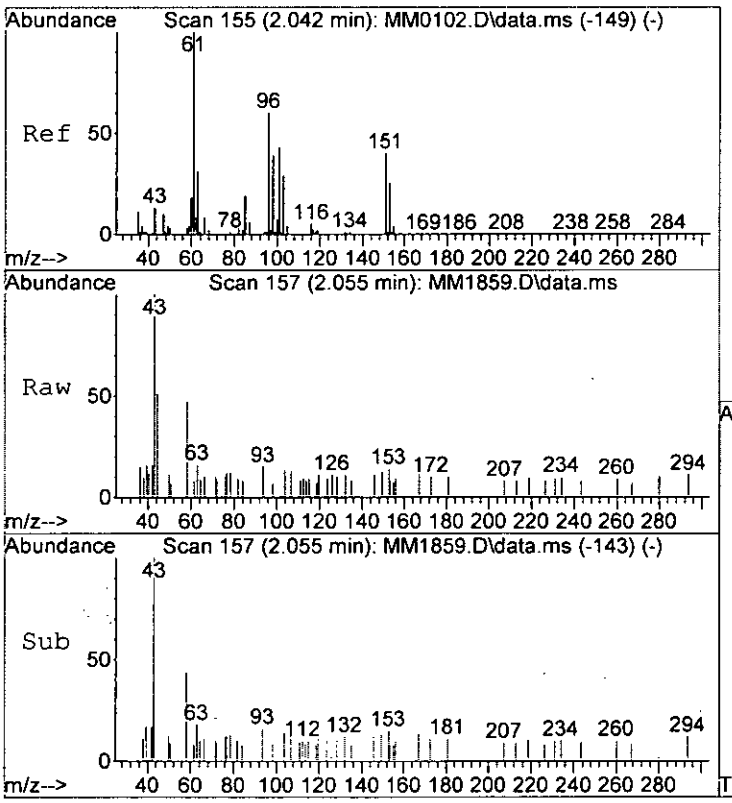


#5
Bromomethane
Concen: 0.23 ppb
RT: 1.524 min Scan# 70
Delta R.T. 0.012 min
Lab File: MM1859.D
Acq: 29 Dec 2014 2:27 pm

Tgt Ion: 94 Resp: 1345

Ion	Ratio	Lower	Upper
94	100		
96	60.4	74.3	114.3#

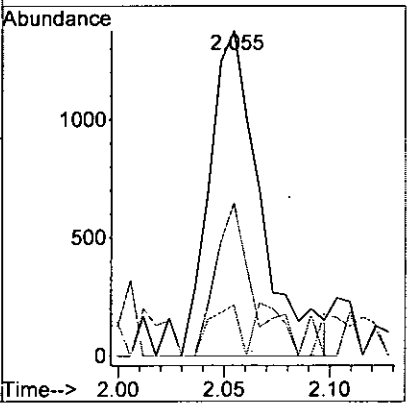


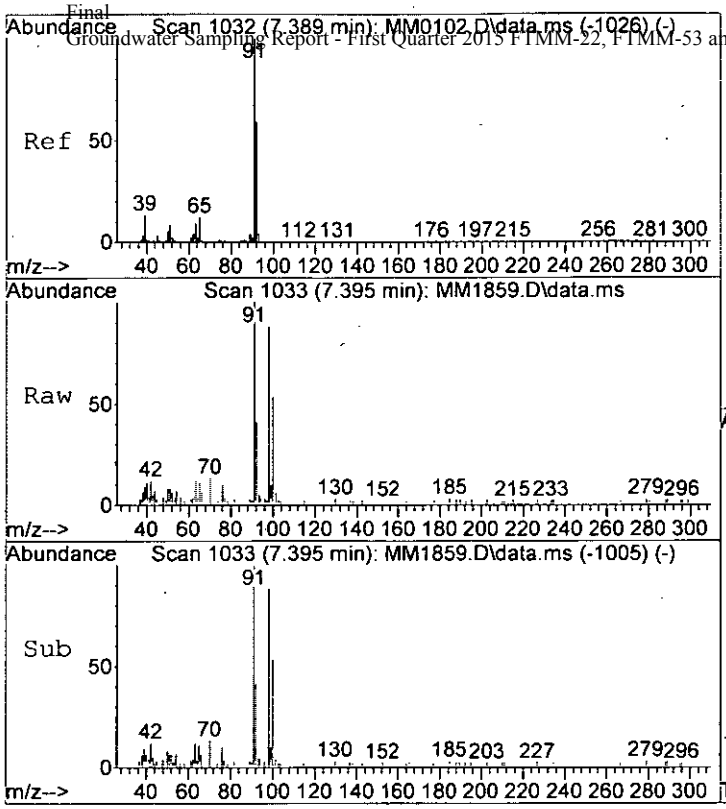


#15
Acetone
Concen: 1.25 ppb
RT: 2.055 min Scan# 157
Delta R.T. 0.012 min
Lab File: MM1859.D
Acq: 29 Dec 2014 2:27 pm

Tgt Ion: 43 Resp: 2308

Ion	Ratio	Lower	Upper
43	100		
58	47.1	6.2	46.2#
42	15.6	0.0	27.2

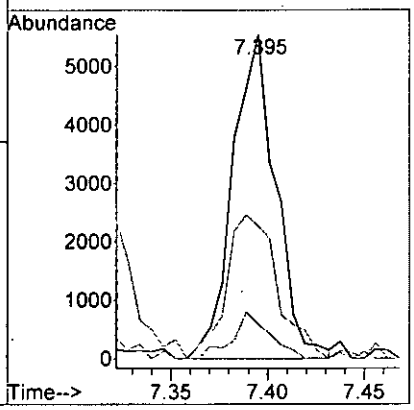


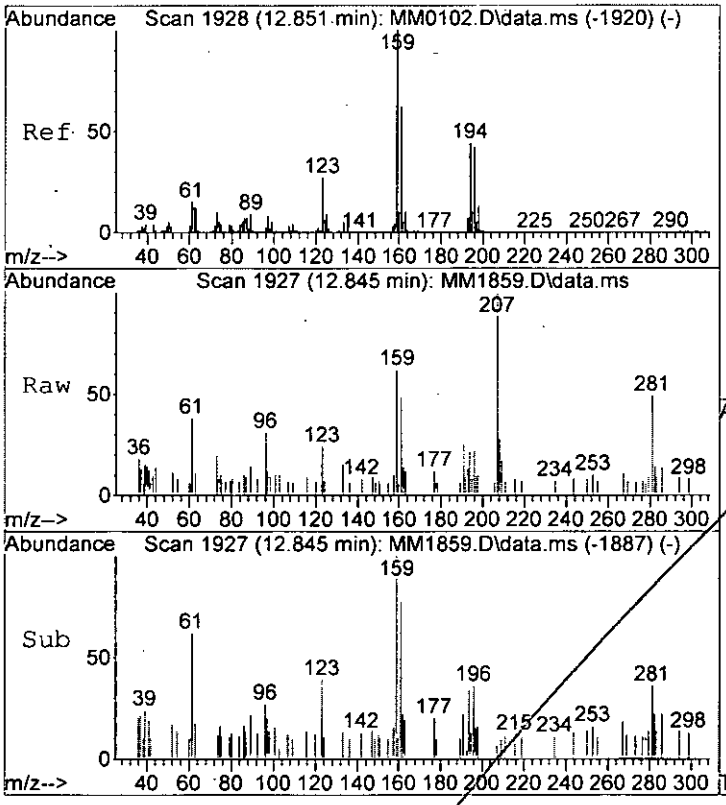


#66
Toluene
Concen: 0.24 ppb
RT: 7.395 min Scan# 1033
Delta R.T. 0.000 min
Lab File: MM1859.D
Acq: 29 Dec 2014 2:27 pm

Tgt Ion: 91 Resp: 8557

Ion	Ratio	Lower	Upper
91	100		
92	40.8	39.3	79.3
65	10.6	0.0	32.5



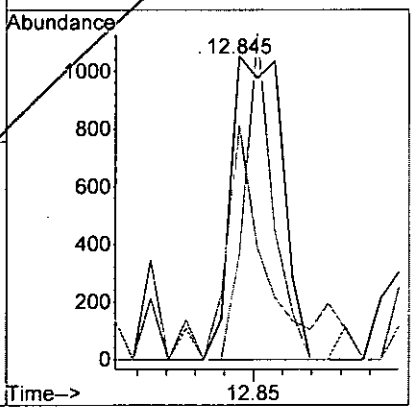


#119
2,4,5-Trichlorotolene
Concen: 0.24 ppb
RT: 12.845 min Scan# 1927
Delta R.T. -0.006 min
Lab File: MM1859.D
Acq: 29 Dec 2014 2:27 pm

MD

Tgt Ion:159 Resp: 1273

Ion	Ratio	Lower	Upper
159	100		
161	76.9	49.7	74.5#
194	34.4	35.0	52.4#



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1859.D
Acq On : 29 Dec 2014 2:27 pm
Operator : K.Ruest
Sample : R1410310-002|1.0
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

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

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

Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM1859.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.152	492	501	508	rBV	539456	1254441	29.40%	5.474%
2	4.243	508	516	533	rVB	973793	2453645	57.51%	10.708%
3	4.658	576	584	597	rBV	493229	1225787	28.73%	5.349%
4	5.444	703	713	737	rBV	1304371	3071562	71.99%	13.405%
5	7.322	1012	1021	1030	rBV	2716992	4266643	100.00%	18.620%
6	8.742	1248	1254	1267	rBV	2881596	3751678	87.93%	16.373%
7	9.785	1420	1425	1435	rBV	2551125	2937688	68.85%	12.820%
8	10.120	1477	1480	1485	rBV2	34246	46033	1.08%	0.201%
9	10.748	1578	1583	1591	rBV	3431811	3906862	91.57%	17.050%

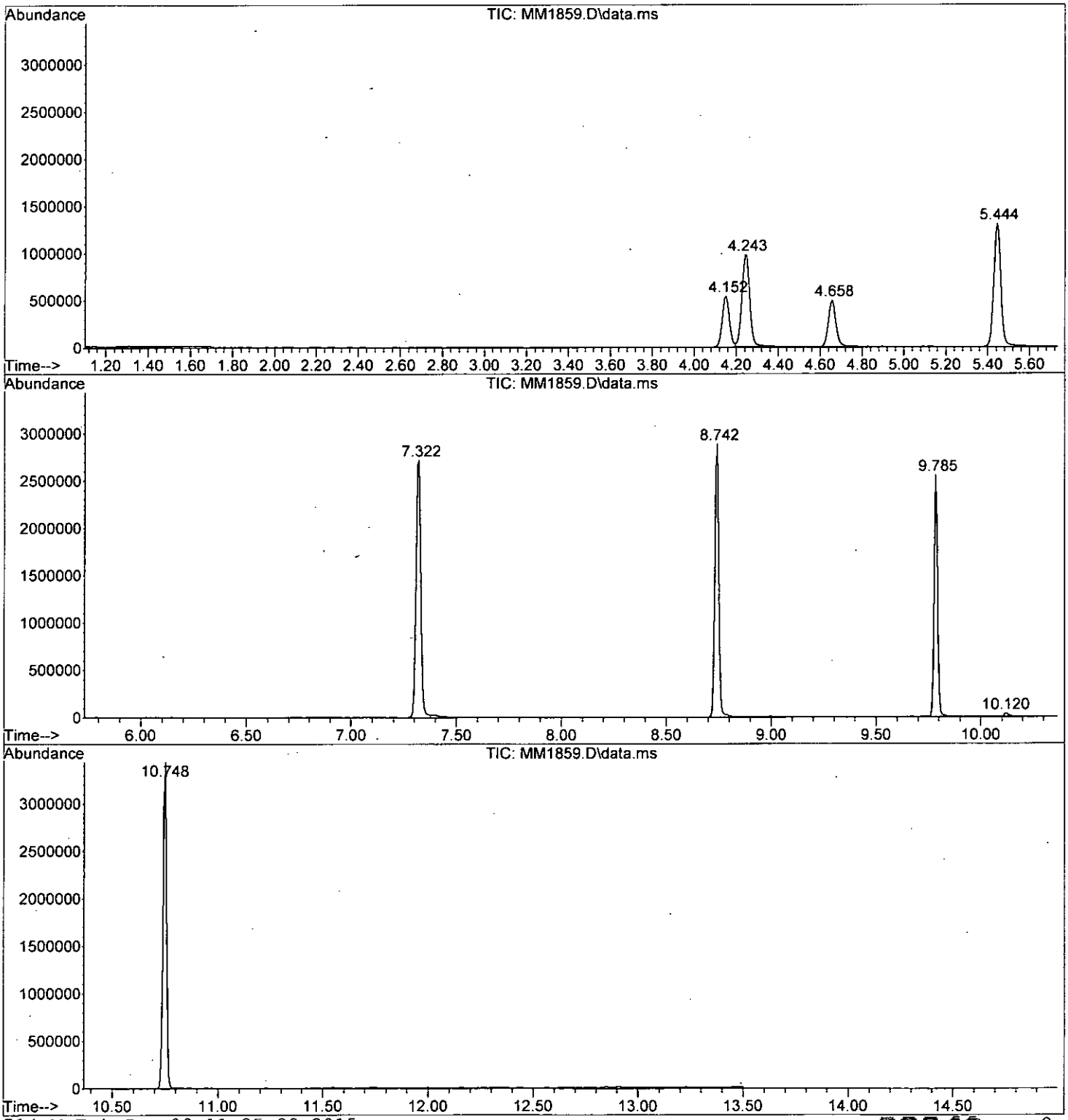
Sum of corrected areas: 22914339

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1859.D
Acq On : 29 Dec 2014 2:27 pm
Operator : K.Ruest
Sample : R1410310-002|1.0
Misc : PARSONS 11603 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

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



W102714.M Fri Jan 09 11:35:38 2015 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\122914\\
Data File : MM1859.D
Acq On : 29 Dec 2014 2:27 pmm
Operator : K.Ruestt
Sample : R1410310-002|1.00
Misc : PARSONS 11603 T44
ALS Vial : 11 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

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

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

No Library Search Compounds Detected
****

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:59
Sample Name:	FTMM-DI-121814	**Units:**	µg/L
Lab Code:	R1410310-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:59
Sample Name:	FTMM-DI-121814	**Units:**	µg/L
Lab Code:	R1410310-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	12/18/14 1100
Sample Matrix:	Water	**Date Received:**	12/20/14
		Date Analyzed:	12/29/14 14:59
Sample Name:	FTMM-DI-121814	**Units:**	µg/L
Lab Code:	R1410310-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1860.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	12/29/14 14:59	
Dibromofluoromethane	100	85-115	12/29/14 14:59	
Toluene-d8	99	85-120	12/29/14 14:59	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000
Sample Matrix: Water

Service Request: R1410310
Date Collected: 12/18/14
Date Received: 12/20/14
Date Analyzed: 12/29/14 1459

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

Sample Name: FTMM-DI-121814
Lab Code: R1410310-003

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 : R1410310-003|1.0
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1860.D
Misc : PARSONS 11603 T4
Acq On : 29 Dec 2014 2:59 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 17:39:10 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.243	168	862905	50.00	ppb	0.00
43) 1,4-Difluorobenzene	5.444	114	1305886	50.00	ppb	0.00
71) d5-Chlorobenzene	8.742	117	1188386	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	630830	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.152	113	381166	50.12	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.24%			
48) surr1,1,2-dichloroetha...	4.658	65	446482	48.22	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 96.44%			
65) SURR3,Toluene-d8	7.322	98	1591172	49.70	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.40%			
70) SURR2,BFB	9.785	95	577590	46.50	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.00%			
Target Compounds						Qvalue
15) Acetone	2.048	43	2895	1.58	ppb	84
23) TBA	2.408	59	687	1.15	ppb	99

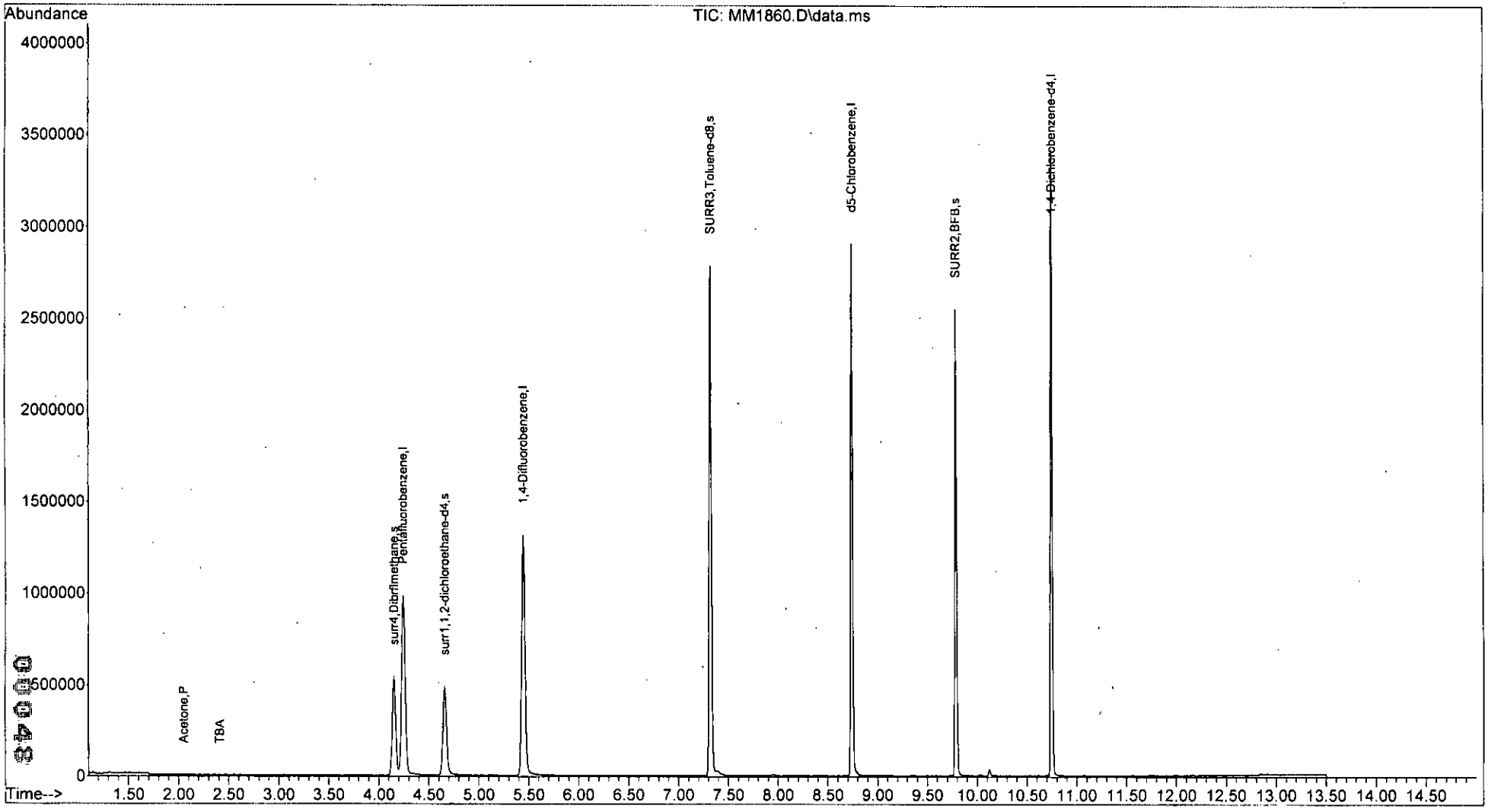
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KR 12/29/14

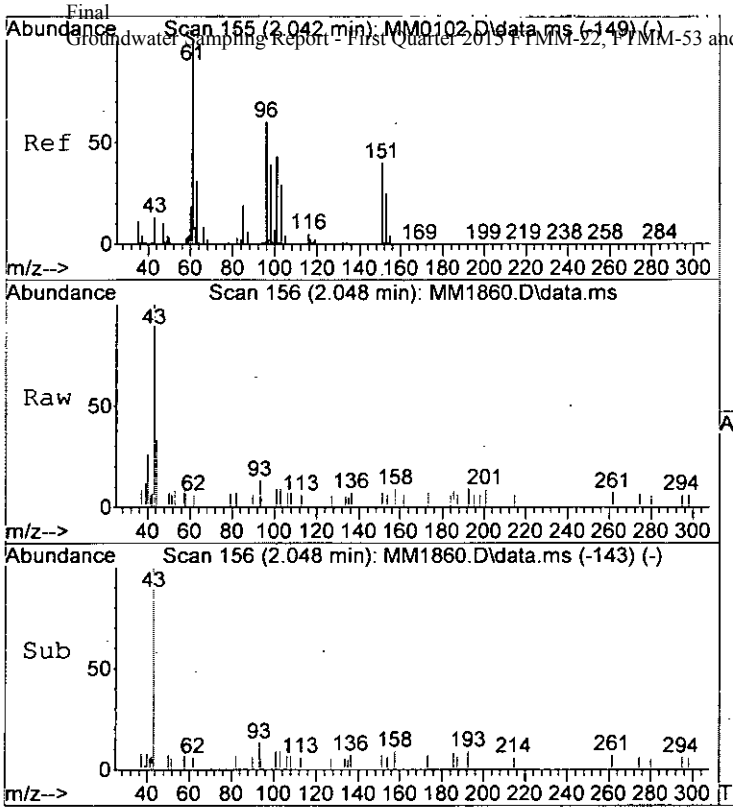
Quantitation Report (QT Reviewed)

Sample : R1410310-003|1.0
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1860.D
Misc : PARSONS 11603 T4
Acq On : 29 Dec 2014 2:59 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 17:39:10 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



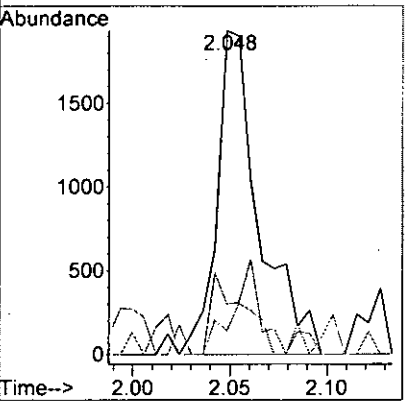
W102714.M Mon Dec 29 17:40:32 2014 Page: 2

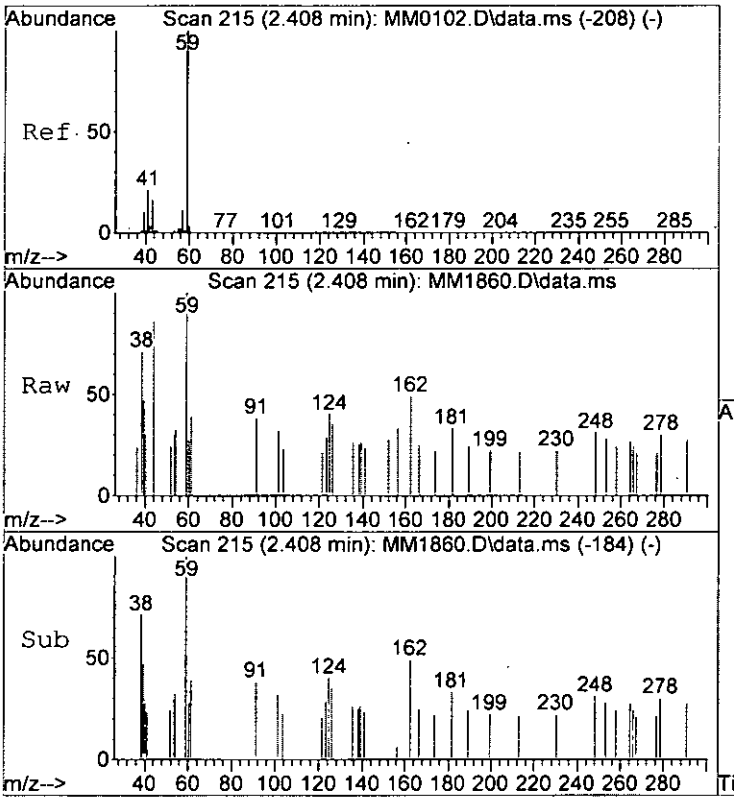


#15
Acetone
Concen: 1.58 ppb
RT: 2.048 min Scan# 156
Delta R.T. 0.006 min
Lab File: MM1860.D
Acq: 29 Dec 2014 2:59 pm

Tgt Ion: 43 Resp: 2895

Ion	Ratio	Lower	Upper
43	100		
58	15.5	6.2	46.2
42	7.2	0.0	27.2

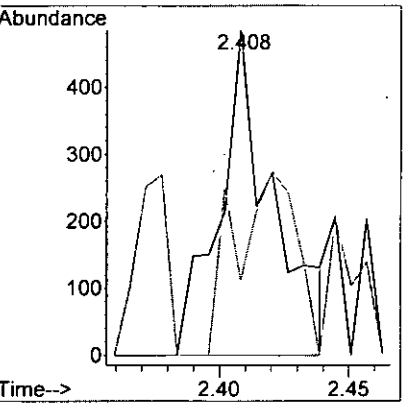




#23
TBA
Concen: 1.15 ppb
RT: 2.408 min Scan# 215
Delta R.T. 0.000 min
Lab File: MM1860.D
Acq: 29 Dec 2014 2:59 pm

Tgt Ion: 59 Resp: 687

Ion	Ratio	Lower	Upper
59	100		
41	22.9	3.4	43.4



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1860.D
Acq On : 29 Dec 2014 2:59 pm
Operator : K.Ruest
Sample : R1410310-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

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

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

Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM1860.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.152	492	501	508	rBV	539204	1246970	29.57%	5.448%
2	4.243	508	516	530	rVB	975089	2432458	57.68%	10.627%
3	4.658	572	584	598	rBV	486404	1249215	29.62%	5.458%
4	5.444	703	713	727	rBV	1312524	3029157	71.83%	13.234%
5	7.322	1014	1021	1029	rBV	2784782	4217193	100.00%	18.425%
6	8.742	1248	1254	1266	rBV	2907271	3746473	88.84%	16.368%
7	9.785	1420	1425	1435	rBV	2551373	2962262	70.24%	12.942%
8	10.120	1477	1480	1486	rBV	36921	49567	1.18%	0.217%
9	10.748	1578	1583	1599	rVB	3414516	3955383	93.79%	17.281%

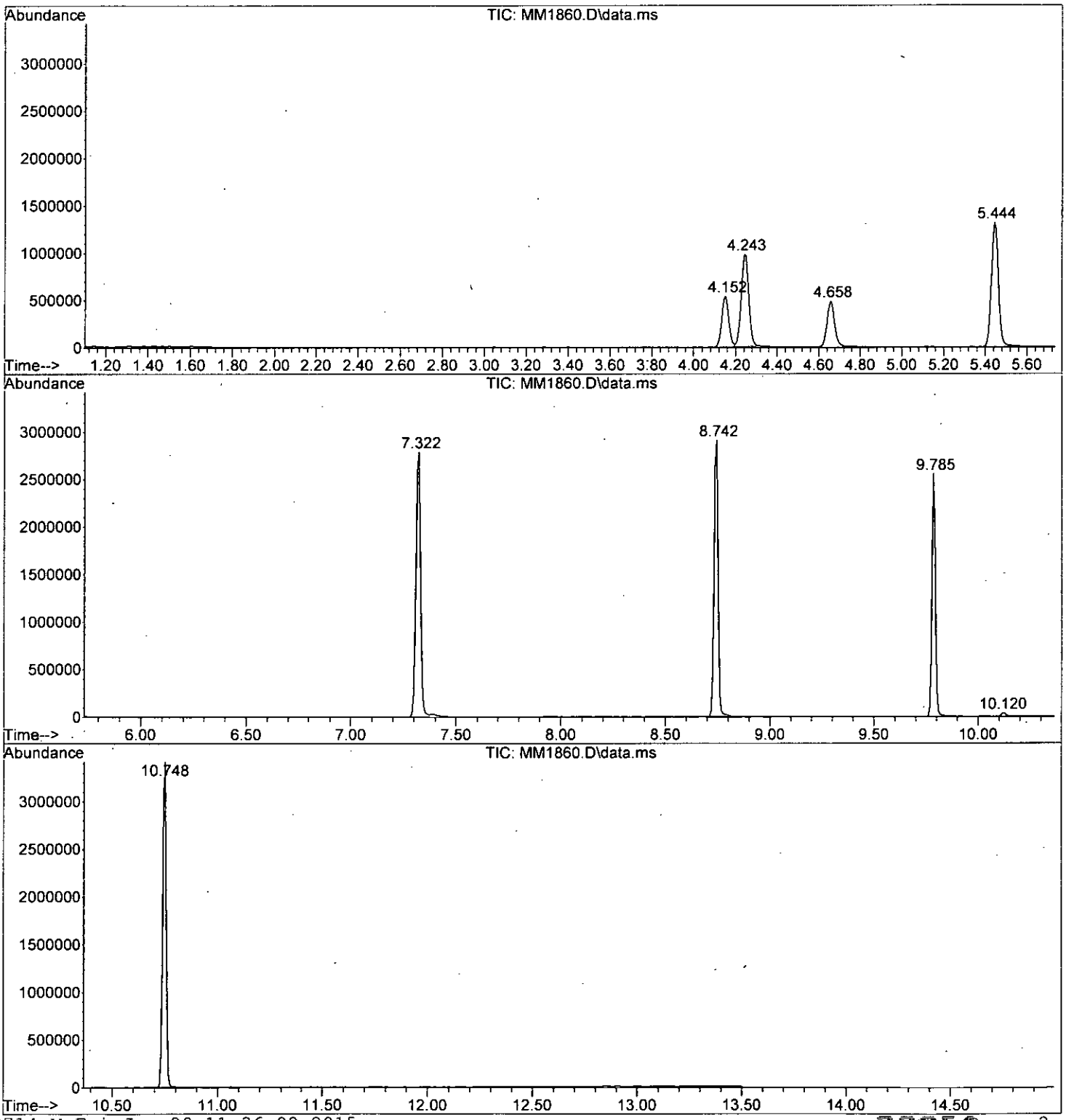
Sum of corrected areas: 22888678

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1860.D
Acq On : 29 Dec 2014 2:59 pm
Operator : K.Ruest
Sample : R1410310-003|1.0
Misc : PARSONS 11603 T4
ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

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



W102714.M Fri Jan 09 11:36:02 2015 0005 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\122914\\
Data File : MM1860.D
Acq On : 29 Dec 2014 2:59 pmm
Operator : K.Ruestt
Sample : R1410310-003|1.00
Misc : PARSONS 11603 T44
ALS Vial : 12 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

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

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

No Library Search Compounds Detected
****

W102714.M Fri Jan 09 11:36:02 2015 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

Initial Calibration - Summary Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
8260 Waters W1027141 **Column Name:** 1 KR 10/28/14

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3183	<=20	9.7
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7789	<=20	7.4
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.5200	<=20	5.1
1,1,2-Trichloroethane	T	Average RF		0.100	0.2327	<=20	4.8
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4424	<=20	3.0
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.8626	<=20	4.4
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4319	<=20	7.7
1,1-Dichloropropene	T	Average RF			0.4368	<=20	3.0
1,2,3-Trichlorobenzene	T	Average RF			0.6298	<=20	6.8
1,2,3-Trichloropropane	T	Average RF			0.1577	<=20	14.4
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.7405	<=20	6.8
1,2,4-Trimethylbenzene	T	Average RF			2.270	<=20	6.1
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.08752	<=20	8.5
1,2-Dibromoethane	T	Average RF		0.100	0.2348	<=20	6.2
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5897	<=20	5.9
1,2-Dichlorobenzene	T	Average RF		0.400	1.265	<=20	2.6
1,2-Dichloroethane	T	Average RF		0.100	0.4315	<=20	4.5
1,2-Dichloropropane	T	Average RF		0.100	0.3355	<=20	4.5
1,3,5-Trichlorobenzene	T	Average RF			0.8672	<=20	3.6
1,3,5-Trimethylbenzene	T	Average RF			2.314	<=20	4.6
1,3-Dichlorobenzene	T	Average RF		0.600	1.344	<=20	3.3
1,3-Dichloropropane	T	Average RF			0.4486	<=20	4.7
1,4-Dichlorobenzene	T	Average RF		0.500	1.406	<=20	5.9
1,4-Dioxane	T	Average RF			0.002526	<=20	10.8
1-Butanol	T	Average RF			0.006254	<=20	7.5
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.4746	<=20	5.5
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6221	<=20	3.5
2,2-Dichloropropane	T	Average RF			0.7655	<=20	4.7
2,3,6-Trichlorotoluene	T	Average RF			0.3936	<=20	6.5
2,4,5-Trichlorotoluene	T	Average RF			0.4265	<=20	6.1
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.037	<=20	4.1
2,4-Dichlorobenzotrifluoride	T	Average RF			0.5688	<=20	2.5
2,5-Dichlorobenzotrifluoride	T	Average RF			0.6438	<=20	4.4
2-Bromo-2-chloro-1,1,1-trifluoroethane	T	Average RF				<=20	
2-Butanone (MEK)	T	Average RF		0.05	0.1508	<=20	3.9
2-Chloro-1,3-butadiene	T	Average RF			0.7976	<=20	3.9
2-Chlorobenzotrifluoride	T	Average RF			0.8807	<=20	4.1
2-Chloroethyl Vinyl Ether	T	Average RF			0.1564	<=20	3.3
2-Chlorotoluene	T	Average RF			1.874	<=20	5.8
2-Hexanone	T	Average RF		0.05	0.1683	<=20	4.1
2-Methyl-1-propanol	T	Average RF			0.01014	<=20	9.8
2-Methyl-2-propanol	T	Average RF			0.03476	<=20	5.6
2-Nitropropane	T	Average RF			0.05290	<=20	12.3
2-Propanol	T	Average RF			0.02100	<=20	5.9
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.086	<=20	5.5
3,4-Dichlorobenzotrifluoride	T	Average RF			0.6633	<=20	7.0
3-Chloro-1-propene	T	Average RF			0.2447	<=20	8.7
3-Chlorobenzotrifluoride	T	Average RF			0.5304	<=20	5.7
3-Chlorotoluene	T	Average RF			1.994	<=20	5.4
4-Chlorotoluene	T	Average RF			2.350	<=20	4.8
4-Isopropyltoluene	T	Average RF			2.283	<=20	6.5
4-Methyl-2-pentanone	T	Average RF		0.05	0.2284	<=20	5.5

Initial Calibration - Summary Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetone	T	Average RF		0.05	0.1059	<=20	3.7
Acetonitrile	T	Average RF			0.01684	<=20	9.2
Acrolein	T	Average RF			0.02090	<=20	16.1
Acrylonitrile	T	Average RF			0.1138	<=20	5.3
Benzene	T	Average RF		0.500	1.281	<=20	2.8
Bromobenzene	T	Average RF			0.7038	<=20	2.9
Bromochloromethane	T	Average RF			0.2863	<=20	8.0
Bromodichloromethane	T	Average RF		0.200	0.3975	<=20	3.8
Bromoform	T	Average RF		0.100	0.2484	<=20	15.3
Bromomethane	T	Average RF		0.100	0.3313	<=20	9.6
Carbon Disulfide	T	Average RF		0.100	1.452	<=20	10.1
Carbon Tetrachloride	T	Average RF		0.05	0.1306	<=20	3.7
Chlorobenzene	T	Average RF		0.500	0.9683	<=20	3.8
Chloroethane	T	Average RF		0.100	0.4268	<=20	5.6
Chloroform	T	Average RF		0.200	0.8684	<=20	7.3
Chloromethane	T	Average RF		0.100	0.6451	<=20	8.5
Cyclohexane	T	Average RF		0.100	0.3702	<=20	6.5
Cyclohexanone	T	Average RF			0.02932	<=20	17.8
Dibromochloromethane	T	Average RF		0.100	0.2690	<=20	8.9
Dibromomethane	T	Average RF			0.1587	<=20	4.0
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.4730	<=20	5.4
Dichlorofluoromethane (CFC 21)	T	Average RF			1.066	<=20	7.0
Dichloromethane	T	Average RF		0.100	0.4706	<=20	7.6
Diethyl Ether	T	Average RF			0.3709	<=20	6.5
Diisopropyl Ether	T	Average RF			1.734	<=20	4.6
Ethyl Methacrylate	T	Average RF			0.3285	<=20	8.0
Ethyl tert-Butyl Ether	T	Average RF			1.505	<=20	3.7
Ethylbenzene	T	Average RF		0.100	0.5223	<=20	4.5
Hexachlorobutadiene	T	Average RF			0.2928	<=20	8.5
Iodomethane	T	Average RF			0.6235	<=20	5.9
Isopropylbenzene (Cumene)	T	Average RF		0.100	2.668	<=20	8.0
Methacrylonitrile	T	Average RF			0.1320	<=20	5.5
Methyl Acetate	T	Average RF		0.100	0.2444	<=20	5.6
Methyl Methacrylate	T	Average RF			0.1548	<=20	7.1
Methyl tert-Butyl Ether	T	Average RF		0.100	1.211	<=20	3.2
Methylcyclohexane	T	Average RF		0.100	0.4296	<=20	6.9
Naphthalene	T	Average RF			1.407	<=20	5.5
Propionitrile	T	Average RF			0.04437	<=20	8.1
Styrene	T	Average RF		0.300	1.051	<=20	10.3
Tetrachloroethene (PCE)	T	Average RF		0.200	0.2877	<=20	4.3
Tetrahydrofuran (THF)	T	Average RF			0.1015	<=20	3.6
Toluene	T	Average RF		0.400	1.381	<=20	3.2
Trichloroethene (TCE)	T	Average RF		0.200	0.3348	<=20	5.2
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.8147	<=20	4.6
Vinyl Acetate	T	Average RF			0.07817	<=20	7.5
Vinyl Chloride	T	Average RF		0.100	0.6851	<=20	7.7
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5060	<=20	2.0
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4952	<=20	4.9
m,p-Xylenes	T	Average RF		0.100	0.6320	<=20	6.5
n-Butyl Acetate	T	Average RF			0.4346	<=20	5.8
n-Butylbenzene	T	Average RF			2.020	<=20	5.2
n-Heptane	T	Average RF			0.4142	<=20	11.5

Initial Calibration - Summary Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
n-Propylbenzene	T	Average RF			3.094	<=20	10.2
o-Xylene	T	Average RF		0.300	0.6354	<=20	6.8
sec-Butylbenzene	T	Average RF			2.628	<=20	7.3
tert-Amyl Methyl Ether	T	Average RF			1.260	<=20	3.6
tert-Butylbenzene	T	Average RF			1.869	<=20	5.2
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4668	<=20	3.5
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4221	<=20	8.1
trans-1,4-Dichloro-2-butene	T	Average RF			0.1604	<=20	8.2
1,2-Dichloroethane-d4	S	Average RF			0.3545	<=20	4.1
4-Bromofluorobenzene	S	Average RF			0.4756	<=20	2.1
Dibromofluoromethane	S	Average RF			0.2912	<=20	2.9
Toluene-d8	S	Average RF			1.226	<=20	3.4

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
DI&U Waters W102714 **Signal ID:** 1 KR 10/28/14

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1400098-01	0.5ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0097.D	10/27/14 16:13
02	RC1400098-02	1.0ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0098.D	10/27/14 16:45
03	RC1400098-03	2.0ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0099.D	10/27/14 17:17
04	RC1400098-04	5.0ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0100.D	10/27/14 17:49
05	RC1400098-05	20ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0101.D	10/27/14 18:21
06	RC1400098-06	50ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0102.D	10/27/14 18:54
07	RC1400098-07	100ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0103.D	10/27/14 19:26
08	RC1400098-08	150ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0104.D	10/27/14 19:58
09	RC1400098-09	200ppb	I:\ACQUDATA\msvoa12\Data\102714\MM0105.D	10/27/14 20:31

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

1,1,1,2-Tetrachloroethane Average RF RSD = 9.7 Average RF = 0.3183

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2987	02	1.000	0.2688	03	2.000	0.2935	04	5.000	0.2938
05	20.000	0.3286	06	50.000	0.3329	07	100.000	0.3382	08	150.000	0.3475
09	200.000	0.3629									

1,1,1-Trichloroethane (TCA) Average RF RSD = 7.4 Average RF = 0.7789

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9197	02	1.000	0.7699	03	2.000	0.7901	04	5.000	0.7527
05	20.000	0.7986	06	50.000	0.7630	07	100.000	0.7310	08	150.000	0.7441
09	200.000	0.7408									

1,1,2,2-Tetrachloroethane Average RF RSD = 5.1 Average RF = 0.5200

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4712	02	1.000	0.5503	03	2.000	0.5352	04	5.000	0.5275
05	20.000	0.5519	06	50.000	0.5186	07	100.000	0.5161	08	150.000	0.4893
09	200.000	0.5203									

1,1,2-Trichloroethane Average RF RSD = 4.8 Average RF = 0.2327

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2091	02	1.000	0.2297	03	2.000	0.2289	04	5.000	0.2331
05	20.000	0.2487	06	50.000	0.2322	07	100.000	0.2380	08	150.000	0.2311
09	200.000	0.2438									

1,1,2-Trichlorotrifluoroethane Average RF RSD = 3.0 Average RF = 0.4424

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4372	02	1.000	0.4652	03	2.000	0.4266	04	5.000	0.4375
05	20.000	0.4591	06	50.000	0.4393	07	100.000	0.4267	08	150.000	0.4417
09	200.000	0.4479									

1,1-Dichloroethane (1,1-DCA) Average RF RSD = 4.4 Average RF = 0.8626

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8883	02	1.000	0.9305	03	2.000	0.8679	04	5.000	0.8560
05	20.000	0.8974	06	50.000	0.8560	07	100.000	0.8199	08	150.000	0.8237
09	200.000	0.8235									

1,1-Dichloroethene (1,1-DCE) Average RF RSD = 7.7 Average RF = 0.4319

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5117	02	1.000	0.4421	03	2.000	0.4132	04	5.000	0.3957
05	20.000	0.4319	06	50.000	0.4177	07	100.000	0.4119	08	150.000	0.4259
09	200.000	0.4375									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Weighting

1,1-Dichloropropene Average RF RSD = 3.0 Average RF = 0.4368

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4479	02	1.000	0.4568	03	2.000	0.4332	04	5.000	0.4238
05	20.000	0.4553	06	50.000	0.4335	07	100.000	0.4241	08	150.000	0.4274
09	200.000	0.4294									

1,2,3-Trichlorobenzene Average RF RSD = 6.8 Average RF = 0.6298

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6427	02	1.000	0.7150	03	2.000	0.6081	04	5.000	0.6188
05	20.000	0.6715	06	50.000	0.6422	07	100.000	0.5997	08	150.000	0.5853
09	200.000	0.5847									

1,2,3-Trichloropropane Average RF RSD = 14.4 Average RF = 0.1577

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2078	02	1.000	0.1745	03	2.000	0.1460	04	5.000	0.1687
05	20.000	0.1528	06	50.000	0.1454	07	100.000	0.1463	08	150.000	0.1337
09	200.000	0.1442									

1,2,4-Trichlorobenzene Average RF RSD = 6.8 Average RF = 0.7405

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8196	02	1.000	0.6583	03	2.000	0.7456	04	5.000	0.7518
05	20.000	0.7898	06	50.000	0.7756	07	100.000	0.7114	08	150.000	0.7102
09	200.000	0.7022									

1,2,4-Trimethylbenzene Average RF RSD = 6.1 Average RF = 2.270

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.220	02	1.000	2.400	03	2.000	2.234	04	5.000	2.309
05	20.000	2.472	06	50.000	2.384	07	100.000	2.226	08	150.000	2.160
09	200.000	2.022									

1,2-Dibromo-3-chloropropane (DBCP) Average RF RSD = 8.5 Average RF = 0.08752

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.07249	02	1.000	0.08449	03	2.000	0.08218	04	5.000	0.08677
05	20.000	0.09012	06	50.000	0.09217	07	100.000	0.09738	08	150.000	0.08723
09	200.000	0.09486									

1,2-Dibromoethane Average RF RSD = 6.2 Average RF = 0.2348

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2170	02	1.000	0.2150	03	2.000	0.2176	04	5.000	0.2386
05	20.000	0.2535	06	50.000	0.2433	07	100.000	0.2439	08	150.000	0.2359
09	200.000	0.2481									

1,2-Dichloro-1,1,2-trifluoroethane (CFC Average RF RSD = 5.9 Average RF = 0.5897

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6251	02	1.000	0.6394	03	2.000	0.6262	04	5.000	0.5868
05	20.000	0.5933	06	50.000	0.5772	07	100.000	0.5411	08	150.000	0.5525
09	200.000	0.5655									

1,2-Dichlorobenzene Average RF RSD = 2.6 Average RF = 1.265

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.252	02	1.000	1.287	03	2.000	1.194	04	5.000	1.254
05	20.000	1.311	06	50.000	1.276	07	100.000	1.266	08	150.000	1.262
09	200.000	1.283									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Weighting

1,2-Dichloroethane RSD = 4.5 Average RF = 0.4315

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4722	02	1.000	0.4183	03	2.000	0.4188	04	5.000	0.4390
05	20.000	0.4504	06	50.000	0.4248	07	100.000	0.4215	08	150.000	0.4115
09	200.000	0.4273									

1,2-Dichloroethane-d4 Average RF RSD = 4.1 Average RF = 0.3545

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3603	03	60.000	0.3696	04	70.000	0.3686	05	100.000	0.3481
07	125.000	0.3487	08	150.000	0.3319						

1,2-Dichloropropane Average RF RSD = 4.5 Average RF = 0.3355

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3373	02	1.000	0.3705	03	2.000	0.3380	04	5.000	0.3277
05	20.000	0.3435	06	50.000	0.3294	07	100.000	0.3195	08	150.000	0.3214
09	200.000	0.3323									

1,3,5-Trichlorobenzene Average RF RSD = 3.6 Average RF = 0.8672

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8924	02	1.000	0.8966	03	2.000	0.8924	04	5.000	0.8698
05	20.000	0.8874	06	50.000	0.8851	07	100.000	0.8337	08	150.000	0.8263
09	200.000	0.8213									

1,3,5-Trimethylbenzene Average RF RSD = 4.6 Average RF = 2.314

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.414	02	1.000	2.384	03	2.000	2.284	04	5.000	2.286
05	20.000	2.444	06	50.000	2.401	07	100.000	2.278	08	150.000	2.231
09	200.000	2.108									

1,3-Dichlorobenzene Average RF RSD = 3.3 Average RF = 1.344

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.370	02	1.000	1.397	03	2.000	1.351	04	5.000	1.331
05	20.000	1.410	06	50.000	1.357	07	100.000	1.306	08	150.000	1.294
09	200.000	1.282									

1,3-Dichloropropane Average RF RSD = 4.7 Average RF = 0.4486

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4843	02	1.000	0.4082	03	2.000	0.4311	04	5.000	0.4527
05	20.000	0.4621	06	50.000	0.4514	07	100.000	0.4508	08	150.000	0.4396
09	200.000	0.4574									

1,4-Dichlorobenzene Average RF RSD = 5.9 Average RF = 1.406

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.541	02	1.000	1.523	03	2.000	1.357	04	5.000	1.363
05	20.000	1.460	06	50.000	1.409	07	100.000	1.348	08	150.000	1.331
09	200.000	1.319									

1,4-Dioxane Average RF RSD = 10.8 Average RF = 0.002526

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.002918	04	100.000	0.002886	05	400.000	0.002410	06	1000.000	0.002314
07	2000.000	0.002431	08	3000.000	0.002222	09	4000.000	0.002499			

1-Butanol Average RF RSD = 7.5 Average RF = 0.006254

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.006394	03	100.000	0.006237	04	250.000	0.005875	05	1000.000	0.005789
06	2500.000	0.006061	07	5000.000	0.006829	08	7500.000	0.005821	09	10000.000	0.007026

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

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

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 5.5 Average RF = 0.4746

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4653	02	1.000	0.4524	03	2.000	0.4547	04	5.000	0.4386
05	20.000	0.4677	06	50.000	0.4808	07	100.000	0.4929	08	150.000	0.4991
09	200.000	0.5201									

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 3.5 Average RF = 0.6221

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5791	02	1.000	0.6319	03	2.000	0.6307	04	5.000	0.6250
05	20.000	0.6505	06	50.000	0.6354	07	100.000	0.6000	08	150.000	0.6125
09	200.000	0.6337									

2,2-Dichloropropane Average RF RSD = 4.7 Average RF = 0.7655

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7679	02	1.000	0.8371	03	2.000	0.7217	04	5.000	0.7428
05	20.000	0.8007	06	50.000	0.7834	07	100.000	0.7436	08	150.000	0.7523
09	200.000	0.7397									

2,3,6-Trichlorotoluene Average RF RSD = 6.5 Average RF = 0.3936

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3823	02	1.000	0.4478	03	2.000	0.3550	04	5.000	0.3963
05	20.000	0.3937	06	50.000	0.4120	07	100.000	0.3842	08	150.000	0.3797
09	200.000	0.3912									

2,4,5-Trichlorotoluene Average RF RSD = 6.1 Average RF = 0.4265

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4877	02	1.000	0.4134	03	2.000	0.4389	04	5.000	0.4277
05	20.000	0.4093	06	50.000	0.4362	07	100.000	0.4104	08	150.000	0.4027
09	200.000	0.4125									

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut Average RF RSD = 4.1 Average RF = 1.037

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.028	02	3.000	1.072	03	6.000	1.029	04	15.000	1.047
05	60.000	1.076	06	150.000	1.091	07	300.000	1.038	08	450.000	0.9963
09	600.000	0.9560									

2,4-Dichlorobenzotrifluoride Average RF RSD = 2.5 Average RF = 0.5688

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5938	02	1.000	0.5485	03	2.000	0.5603	04	5.000	0.5616
05	20.000	0.5685	06	50.000	0.5883	07	100.000	0.5702	08	150.000	0.5619
09	200.000	0.5663									

2,5-Dichlorobenzotrifluoride Average RF RSD = 4.4 Average RF = 0.6438

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6505	02	1.000	0.7013	03	2.000	0.5929	04	5.000	0.6260
05	20.000	0.6466	06	50.000	0.6573	07	100.000	0.6422	08	150.000	0.6347
09	200.000	0.6426									

2-Butanone (MEK) Average RF RSD = 3.9 Average RF = 0.1508

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1480	04	5.000	0.1468	05	20.000	0.1477	06	50.000	0.1457
07	100.000	0.1590	08	150.000	0.1490	09	200.000	0.1595			

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Weighting

2-Chloro-1,3-butadiene Average RF RSD = 3.9 Average RF = 0.7976

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8282	02	1.000	0.8451	03	2.000	0.7575	04	5.000	0.7991
05	20.000	0.8357	06	50.000	0.7795	07	100.000	0.7684	08	150.000	0.7817
09	200.000	0.7829									

2-Chlorobenzotrifluoride Average RF RSD = 4.1 Average RF = 0.8807

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8652	02	1.000	0.9468	03	2.000	0.9240	04	5.000	0.9002
05	20.000	0.8720	06	50.000	0.8746	07	100.000	0.8554	08	150.000	0.8417
09	200.000	0.8467									

2-Chloroethyl Vinyl Ether Average RF RSD = 3.3 Average RF = 0.1564

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1587	02	1.000	0.1522	03	2.000	0.1463	04	5.000	0.1550
05	20.000	0.1601	06	50.000	0.1556	07	100.000	0.1622	08	150.000	0.1545
09	200.000	0.1628									

2-Chlorotoluene Average RF RSD = 5.8 Average RF = 1.874

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.878	02	1.000	1.971	03	2.000	1.848	04	5.000	1.912
05	20.000	2.058	06	50.000	1.926	07	100.000	1.816	08	150.000	1.767
09	200.000	1.694									

2-Hexanone Average RF RSD = 4.1 Average RF = 0.1683

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1596	04	5.000	0.1658	05	20.000	0.1710	06	50.000	0.1655
07	100.000	0.1779	08	150.000	0.1626	09	200.000	0.1759			

2-Methyl-1-propanol Average RF RSD = 9.8 Average RF = 0.01014

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.01006	03	40.000	0.008150	04	100.000	0.009697	05	400.000	0.01042
06	1000.000	0.01032	07	2000.000	0.01116	08	3000.000	0.009934	09	4000.000	0.01136

2-Methyl-2-propanol Average RF RSD = 5.6 Average RF = 0.03476

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.03148	03	40.000	0.03523	04	100.000	0.03649	05	400.000	0.03507
06	1000.000	0.03417	07	2000.000	0.03659	08	3000.000	0.03241	09	4000.000	0.03667

2-Nitropropane Average RF RSD = 12.3 Average RF = 0.05290

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.06311	02	2.000	0.04522	03	4.000	0.05145	04	10.000	0.04396
05	40.000	0.04998	06	100.000	0.05063	07	200.000	0.05585	08	300.000	0.05460
09	400.000	0.06129									

2-Propanol Average RF RSD = 5.9 Average RF = 0.02100

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.01921	03	40.000	0.02027	04	100.000	0.01999	05	400.000	0.02173
06	1000.000	0.02199	07	2000.000	0.02218	08	3000.000	0.02015	09	4000.000	0.02251

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 5.5 Average RF = 1.086

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.076	02	2.000	1.084	03	4.000	1.087	04	10.000	1.134
05	40.000	1.146	06	100.000	1.158	07	200.000	1.093	08	300.000	1.028
09	400.000	0.9679									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

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

3,4-Dichlorobenzotrifluoride Average RF RSD = 7.0 Average RF = 0.6633

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6851	02	1.000	0.6154	03	2.000	0.5915	04	5.000	0.6222
05	20.000	0.6488	06	50.000	0.6788	07	100.000	0.6957	08	150.000	0.7033
09	200.000	0.7292									

3-Chloro-1-propene Average RF RSD = 8.7 Average RF = 0.2447

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2712	02	1.000	0.2180	03	2.000	0.2437	04	5.000	0.2374
05	20.000	0.2736	06	50.000	0.2611	07	100.000	0.2343	08	150.000	0.2492
09	200.000	0.2139									

3-Chlorobenzotrifluoride Average RF RSD = 5.7 Average RF = 0.5304

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5388	02	1.000	0.5009	03	2.000	0.4892	04	5.000	0.5106
05	20.000	0.5095	06	50.000	0.5380	07	100.000	0.5447	08	150.000	0.5586
09	200.000	0.5834									

3-Chlorotoluene Average RF RSD = 5.4 Average RF = 1.994

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.046	02	1.000	2.099	03	2.000	2.043	04	5.000	2.080
05	20.000	2.059	06	50.000	2.026	07	100.000	1.954	08	150.000	1.851
09	200.000	1.788									

4-Bromofluorobenzene Average RF RSD = 2.1 Average RF = 0.4756

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.4876	03	60.000	0.4840	04	70.000	0.4767	05	100.000	0.4598
07	125.000	0.4758	08	150.000	0.4699						

4-Chlorotoluene Average RF RSD = 4.8 Average RF = 2.350

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.448	02	1.000	2.414	03	2.000	2.362	04	5.000	2.344
05	20.000	2.502	06	50.000	2.409	07	100.000	2.296	08	150.000	2.245
09	200.000	2.129									

4-Isopropyltoluene Average RF RSD = 6.5 Average RF = 2.283

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.432	02	1.000	2.298	03	2.000	2.312	04	5.000	2.266
05	20.000	2.485	06	50.000	2.394	07	100.000	2.204	08	150.000	2.156
09	200.000	2.004									

4-Methyl-2-pentanone Average RF RSD = 5.5 Average RF = 0.2284

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2060	04	5.000	0.2248	05	20.000	0.2332	06	50.000	0.2278
07	100.000	0.2426	08	150.000	0.2225	09	200.000	0.2419			

Acetone Average RF RSD = 3.7 Average RF = 0.1059

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1096	04	5.000	0.1007	05	20.000	0.1059	06	50.000	0.1021
07	100.000	0.1101	08	150.000	0.1033	09	200.000	0.1095			

Acetonitrile Average RF RSD = 9.2 Average RF = 0.01684

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.01344	03	10.000	0.01803	04	25.000	0.01803	05	100.000	0.01686
06	250.000	0.01592	07	500.000	0.01703	08	750.000	0.01781	09	1000.000	0.01756

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Weighting

Acrolein Average RF RSD = 16.1 Average RF = 0.02090

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.02174	03	10.000	0.02092	04	25.000	0.01812	05	100.000	0.01778
06	250.000	0.01609	07	500.000	0.02237	08	750.000	0.02437	09	1000.000	0.02581

Acrylonitrile Average RF RSD = 5.3 Average RF = 0.1138

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1102	02	5.000	0.1085	03	10.000	0.1019	04	25.000	0.1165
05	100.000	0.1184	06	250.000	0.1151	07	500.000	0.1188	08	750.000	0.1133
09	1000.000	0.1212									

Benzene Average RF RSD = 2.8 Average RF = 1.281

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.329	02	1.000	1.278	03	2.000	1.281	04	5.000	1.272
05	20.000	1.349	06	50.000	1.273	07	100.000	1.242	08	150.000	1.248
09	200.000	1.256									

Bromobenzene Average RF RSD = 2.9 Average RF = 0.7038

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7391	02	1.000	0.7201	03	2.000	0.7095	04	5.000	0.6872
05	20.000	0.7232	06	50.000	0.7010	07	100.000	0.6828	08	150.000	0.6785
09	200.000	0.6931									

Bromochloromethane Average RF RSD = 8.0 Average RF = 0.2863

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3406	02	1.000	0.2947	03	2.000	0.2746	04	5.000	0.2867
05	20.000	0.2944	06	50.000	0.2794	07	100.000	0.2677	08	150.000	0.2673
09	200.000	0.2715									

Bromodichloromethane Average RF RSD = 3.8 Average RF = 0.3975

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3792	02	1.000	0.4064	03	2.000	0.3789	04	5.000	0.3774
05	20.000	0.4138	06	50.000	0.3986	07	100.000	0.4032	08	150.000	0.4030
09	200.000	0.4165									

Bromoform Average RF RSD = 15.3 Average RF = 0.2484

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1787	02	1.000	0.2167	03	2.000	0.2239	04	5.000	0.2332
05	20.000	0.2597	06	50.000	0.2693	07	100.000	0.2819	08	150.000	0.2749
09	200.000	0.2976									

Bromomethane Average RF RSD = 9.6 Average RF = 0.3313

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3337	02	1.000	0.3526	03	2.000	0.2877	04	5.000	0.2967
05	20.000	0.3026	06	50.000	0.3241	07	100.000	0.3363	08	150.000	0.3689
09	200.000	0.3792									

Carbon Disulfide Average RF RSD = 10.1 Average RF = 1.452

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.814	02	1.000	1.496	03	2.000	1.412	04	5.000	1.406
05	20.000	1.485	06	50.000	1.402	07	100.000	1.354	08	150.000	1.363
09	200.000	1.336									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: I

Analyte **Curve Fit** Average RF **Weighting**

Carbon Tetrachloride Average RF RSD = 3.7 Average RF = 0.1306

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1344	02	1.000	0.1354	03	2.000	0.1250	04	5.000	0.1217
05	20.000	0.1349	06	50.000	0.1290	07	100.000	0.1293	08	150.000	0.1312
09	200.000	0.1341									

Chlorobenzene Average RF RSD = 3.8 Average RF = 0.9683

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.045	02	1.000	0.9265	03	2.000	0.9319	04	5.000	0.9357
05	20.000	0.9962	06	50.000	0.9687	07	100.000	0.9641	08	150.000	0.9705
09	200.000	0.9765									

Chloroethane Average RF RSD = 5.6 Average RF = 0.4268

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4729	02	1.000	0.4430	03	2.000	0.4153	04	5.000	0.4332
05	20.000	0.4443	06	50.000	0.4230	07	100.000	0.4027	08	150.000	0.4056
09	200.000	0.4016									

Chloroform Average RF RSD = 7.3 Average RF = 0.8684

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9523	02	1.000	0.9843	03	2.000	0.8878	04	5.000	0.8430
05	20.000	0.8762	06	50.000	0.8324	07	100.000	0.8081	08	150.000	0.8148
09	200.000	0.8164									

Chloromethane Average RF RSD = 8.5 Average RF = 0.6451

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7759	02	1.000	0.6571	03	2.000	0.6266	04	5.000	0.6014
05	20.000	0.6755	06	50.000	0.6386	07	100.000	0.6127	08	150.000	0.6041
09	200.000	0.6144									

Cyclohexane Average RF RSD = 6.5 Average RF = 0.3702

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4210	02	1.000	0.3797	03	2.000	0.3678	04	5.000	0.3698
05	20.000	0.3846	06	50.000	0.3676	07	100.000	0.3448	08	150.000	0.3432
09	200.000	0.3531									

Cyclohexanone Average RF RSD = 17.8 Average RF = 0.02932

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.03775	02	20.000	0.03583	03	40.000	0.02990	04	100.000	0.03096
05	400.000	0.02766	06	1000.000	0.02323	07	2000.000	0.02634	08	3000.000	0.02206
09	4000.000	0.03014									

Dibromochloromethane Average RF RSD = 8.9 Average RF = 0.2690

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2599	02	1.000	0.2388	03	2.000	0.2558	04	5.000	0.2347
05	20.000	0.2705	06	50.000	0.2768	07	100.000	0.2884	08	150.000	0.2898
09	200.000	0.3059									

Dibromofluoromethane Average RF RSD = 2.9 Average RF = 0.2912

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.2960	03	60.000	0.3008	04	70.000	0.2973	05	100.000	0.2859
07	125.000	0.2889	08	150.000	0.2782						

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting**

Dibromomethane RSD = 4.0 Average RF = 0.1587

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1725	02	1.000	0.1512	03	2.000	0.1602	04	5.000	0.1570
05	20.000	0.1621	06	50.000	0.1577	07	100.000	0.1551	08	150.000	0.1524
09	200.000	0.1603									

Dichlorodifluoromethane (CFC 12) Average RF RSD = 5.4 Average RF = 0.4730

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4746	02	1.000	0.4562	03	2.000	0.4648	04	5.000	0.4296
05	20.000	0.5219	06	50.000	0.4966	07	100.000	0.4747	08	150.000	0.4687
09	200.000	0.4702									

Dichlorofluoromethane (CFC 21) Average RF RSD = 7.0 Average RF = 1.066

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.162	02	1.000	1.105	03	2.000	1.138	04	5.000	1.078
05	20.000	1.119	06	50.000	1.069	07	100.000	0.9825	08	150.000	0.9734
09	200.000	0.9659									

Dichloromethane Average RF RSD = 7.6 Average RF = 0.4706

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5615	02	1.000	0.4610	03	2.000	0.4711	04	5.000	0.4695
05	20.000	0.4729	06	50.000	0.4519	07	100.000	0.4360	08	150.000	0.4523
09	200.000	0.4594									

Diethyl Ether Average RF RSD = 6.5 Average RF = 0.3709

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4307	02	1.000	0.3729	03	2.000	0.3533	04	5.000	0.3564
05	20.000	0.3737	06	50.000	0.3646	07	100.000	0.3611	08	150.000	0.3521
09	200.000	0.3736									

Diisopropyl Ether Average RF RSD = 4.6 Average RF = 1.734

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.795	02	1.000	1.767	03	2.000	1.795	04	5.000	1.807
05	20.000	1.777	06	50.000	1.721	07	100.000	1.706	08	150.000	1.561
09	200.000	1.677									

Ethyl Methacrylate Average RF RSD = 8.0 Average RF = 0.3285

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3124	02	1.000	0.2802	03	2.000	0.3046	04	5.000	0.3199
05	20.000	0.3420	06	50.000	0.3427	07	100.000	0.3551	08	150.000	0.3369
09	200.000	0.3622									

Ethyl tert-Butyl Ether Average RF RSD = 3.7 Average RF = 1.505

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.515	02	1.000	1.514	03	2.000	1.527	04	5.000	1.576
05	20.000	1.544	06	50.000	1.499	07	100.000	1.503	08	150.000	1.373
09	200.000	1.498									

Ethylbenzene Average RF RSD = 4.5 Average RF = 0.5223

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5454	02	1.000	0.5059	03	2.000	0.4745	04	5.000	0.5029
05	20.000	0.5358	06	50.000	0.5345	07	100.000	0.5234	08	150.000	0.5357
09	200.000	0.5428									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** RSD = 8.5 Average RF = 0.2928

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3295	02	1.000	0.3104	03	2.000	0.2852	04	5.000	0.3021
05	20.000	0.3138	06	50.000	0.3017	07	100.000	0.2560	08	150.000	0.2722
09	200.000	0.2642									

Hexachlorobutadiene

Iodomethane Average RF RSD = 5.9 Average RF = 0.6235

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6758	03	2.000	0.5749	04	5.000	0.5793	05	20.000	0.6641
06	50.000	0.6448	07	100.000	0.6235	08	150.000	0.6158	09	200.000	0.6095

Isopropylbenzene (Cumene) Average RF RSD = 8.0 Average RF = 2.668

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.768	02	1.000	2.885	03	2.000	2.686	04	5.000	2.762
05	20.000	2.920	06	50.000	2.740	07	100.000	2.549	08	150.000	2.432
09	200.000	2.273									

Methacrylonitrile Average RF RSD = 5.5 Average RF = 0.1320

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1192	03	2.000	0.1440	04	5.000	0.1309	05	20.000	0.1328
06	50.000	0.1329	07	100.000	0.1321	08	150.000	0.1269	09	200.000	0.1375

Methyl Acetate Average RF RSD = 5.6 Average RF = 0.2444

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2347	02	1.000	0.2200	03	2.000	0.2309	04	5.000	0.2566
05	20.000	0.2597	06	50.000	0.2551	07	100.000	0.2516	08	150.000	0.2397
09	200.000	0.2517									

Methyl Methacrylate Average RF RSD = 7.1 Average RF = 0.1548

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1384	02	1.000	0.1462	03	2.000	0.1414	04	5.000	0.1527
05	20.000	0.1646	06	50.000	0.1606	07	100.000	0.1644	08	150.000	0.1556
09	200.000	0.1696									

Methyl tert-Butyl Ether Average RF RSD = 3.2 Average RF = 1.211

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.260	02	1.000	1.174	03	2.000	1.148	04	5.000	1.227
05	20.000	1.248	06	50.000	1.209	07	100.000	1.214	08	150.000	1.173
09	200.000	1.245									

Methylcyclohexane Average RF RSD = 6.9 Average RF = 0.4296

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5030	02	1.000	0.4130	03	2.000	0.4288	04	5.000	0.4157
05	20.000	0.4403	06	50.000	0.4264	07	100.000	0.4041	08	150.000	0.4105
09	200.000	0.4247									

Naphthalene Average RF RSD = 5.5 Average RF = 1.407

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.372	02	1.000	1.351	03	2.000	1.353	04	5.000	1.455
05	20.000	1.519	06	50.000	1.511	07	100.000	1.453	08	150.000	1.319
09	200.000	1.330									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

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

Propionitrile Average RF RSD = 8.1 Average RF = 0.04437

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.05288	02	5.000	0.04358	03	10.000	0.04026	04	25.000	0.04246
05	100.000	0.04446	06	250.000	0.04342	07	500.000	0.04498	08	750.000	0.04159
09	1000.000	0.04575									

Styrene Average RF RSD = 10.3 Average RF = 1.051

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9371	02	1.000	0.9061	03	2.000	0.9288	04	5.000	0.9923
05	20.000	1.112	06	50.000	1.124	07	100.000	1.137	08	150.000	1.160
09	200.000	1.162									

Tetrachloroethene (PCE) Average RF RSD = 4.3 Average RF = 0.2877

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2853	02	1.000	0.2837	03	2.000	0.2623	04	5.000	0.2819
05	20.000	0.2956	06	50.000	0.2926	07	100.000	0.2848	08	150.000	0.2991
09	200.000	0.3043									

Tetrahydrofuran (THF) Average RF RSD = 3.6 Average RF = 0.1015

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.1072	04	5.000	0.1010	05	20.000	0.1033	06	50.000	0.1008
07	100.000	0.1014	08	150.000	0.09499	09	200.000	0.1021			

Toluene Average RF RSD = 3.2 Average RF = 1.381

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.345	02	1.000	1.397	03	2.000	1.358	04	5.000	1.381
05	20.000	1.481	06	50.000	1.400	07	100.000	1.376	08	150.000	1.360
09	200.000	1.331									

Toluene-d8 Average RF RSD = 3.4 Average RF = 1.226

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.269	03	60.000	1.266	04	70.000	1.250	05	100.000	1.207
07	125.000	1.200	08	150.000	1.164						

Trichloroethene (TCE) Average RF RSD = 5.2 Average RF = 0.3348

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3717	02	1.000	0.3156	03	2.000	0.3139	04	5.000	0.3283
05	20.000	0.3463	06	50.000	0.3324	07	100.000	0.3288	08	150.000	0.3345
09	200.000	0.3414									

Trichlorofluoromethane (CFC 11) Average RF RSD = 4.6 Average RF = 0.8147

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8486	02	1.000	0.8420	03	2.000	0.8214	04	5.000	0.8299
05	20.000	0.8686	06	50.000	0.8079	07	100.000	0.7577	08	150.000	0.7787
09	200.000	0.7774									

Vinyl Acetate Average RF RSD = 7.5 Average RF = 0.07817

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.07252	02	1.000	0.08383	03	2.000	0.06777	04	5.000	0.07162
05	20.000	0.07981	06	50.000	0.08176	07	100.000	0.08095	08	150.000	0.08232
09	200.000	0.08293									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

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

Vinyl Chloride Average RF RSD = 7.7 Average RF = 0.6851

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8058	02	1.000	0.6729	03	2.000	0.6523	04	5.000	0.6512
05	20.000	0.7307	06	50.000	0.6920	07	100.000	0.6642	08	150.000	0.6496
09	200.000	0.6475									

cis-1,2-Dichloroethene Average RF RSD = 2.0 Average RF = 0.5060

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4981	02	1.000	0.4923	03	2.000	0.5066	04	5.000	0.5015
05	20.000	0.5229	06	50.000	0.5105	07	100.000	0.4962	08	150.000	0.5075
09	200.000	0.5187									

cis-1,3-Dichloropropene Average RF RSD = 4.9 Average RF = 0.4952

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4455	02	1.000	0.4905	03	2.000	0.4776	04	5.000	0.4813
05	20.000	0.5262	06	50.000	0.5126	07	100.000	0.5068	08	150.000	0.5028
09	200.000	0.5134									

m,p-Xylenes Average RF RSD = 6.5 Average RF = 0.6320

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5573	02	2.000	0.6129	03	4.000	0.5872	04	10.000	0.6137
05	40.000	0.6695	06	100.000	0.6590	07	200.000	0.6581	08	300.000	0.6691
09	400.000	0.6611									

n-Butyl Acetate Average RF RSD = 5.8 Average RF = 0.4346

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4109	02	1.000	0.3932	03	2.000	0.4230	04	5.000	0.4206
05	20.000	0.4499	06	50.000	0.4535	07	100.000	0.4675	08	150.000	0.4312
09	200.000	0.4620									

n-Butylbenzene Average RF RSD = 5.2 Average RF = 2.020

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.117	02	1.000	2.018	03	2.000	1.931	04	5.000	1.994
05	20.000	2.187	06	50.000	2.126	07	100.000	1.997	08	150.000	1.964
09	200.000	1.851									

n-Heptane Average RF RSD = 11.5 Average RF = 0.4142

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5167	02	1.000	0.4698	03	2.000	0.3845	04	5.000	0.3759
05	20.000	0.4154	06	50.000	0.4045	07	100.000	0.3872	08	150.000	0.3879
09	200.000	0.3863									

n-Propylbenzene Average RF RSD = 10.2 Average RF = 3.094

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.456	02	1.000	3.211	03	2.000	3.188	04	5.000	3.211
05	20.000	3.420	06	50.000	3.202	07	100.000	2.925	08	150.000	2.733
09	200.000	2.496									

o-Xylene Average RF RSD = 6.8 Average RF = 0.6354

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6127	02	1.000	0.6034	03	2.000	0.5751	04	5.000	0.5861
05	20.000	0.6530	06	50.000	0.6487	07	100.000	0.6568	08	150.000	0.6823
09	200.000	0.7006									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** Weighting

sec-Butylbenzene Average RF RSD = 7.3 Average RF = 2.628

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.741	02	1.000	2.794	03	2.000	2.687	04	5.000	2.609
05	20.000	2.850	06	50.000	2.745	07	100.000	2.544	08	150.000	2.429
09	200.000	2.256									

tert-Amyl Methyl Ether Average RF RSD = 3.6 Average RF = 1.260

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.313	02	1.000	1.285	03	2.000	1.254	04	5.000	1.270
05	20.000	1.279	06	50.000	1.245	07	100.000	1.268	08	150.000	1.149
09	200.000	1.273									

tert-Butylbenzene Average RF RSD = 5.2 Average RF = 1.869

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.899	02	1.000	1.874	03	2.000	1.949	04	5.000	1.923
05	20.000	2.001	06	50.000	1.911	07	100.000	1.798	08	150.000	1.774
09	200.000	1.693									

trans-1,2-Dichloroethene Average RF RSD = 3.5 Average RF = 0.4668

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4537	02	1.000	0.4488	03	2.000	0.4570	04	5.000	0.4509
05	20.000	0.4902	06	50.000	0.4722	07	100.000	0.4594	08	150.000	0.4793
09	200.000	0.4897									

trans-1,3-Dichloropropene Average RF RSD = 8.1 Average RF = 0.4221

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3865	02	1.000	0.3602	03	2.000	0.4058	04	5.000	0.4047
05	20.000	0.4487	06	50.000	0.4467	07	100.000	0.4481	08	150.000	0.4407
09	200.000	0.4579									

trans-1,4-Dichloro-2-butene Average RF RSD = 8.2 Average RF = 0.1604

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1929	02	1.000	0.1594	03	2.000	0.1649	04	5.000	0.1534
05	20.000	0.1556	06	50.000	0.1535	07	100.000	0.1588	08	150.000	0.1480
09	200.000	0.1566									

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.2	02	1.000	0.84	-15.6	03	2.000	1.84	-7.8
04	5.000	4.61	-7.7	05	20.000	20.65	3.2	06	50.000	52.29	4.6
07	100.000	106.26	6.3	08	150.000	163.75	9.2	09	200.000	227.98	14.0

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.1	02	1.000	0.99	-1.2	03	2.000	2.03	1.4
04	5.000	4.83	-3.4	05	20.000	20.51	2.5	06	50.000	48.98	-2.0
07	100.000	93.85	-6.2	08	150.000	143.30	-4.5	09	200.000	190.22	-4.9

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.4	02	1.000	1.06	5.8	03	2.000	2.06	2.9
04	5.000	5.07	1.4	05	20.000	21.23	6.1	06	50.000	49.87	-0.3
07	100.000	99.24	-0.8	08	150.000	141.14	-5.9	09	200.000	200.09	0.0

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.2	02	1.000	0.99	-1.3	03	2.000	1.97	-1.7
04	5.000	5.01	0.1	05	20.000	21.37	6.9	06	50.000	49.90	-0.2
07	100.000	102.26	2.3	08	150.000	148.93	-0.7	09	200.000	209.47	4.7

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.2	02	1.000	1.05	5.2	03	2.000	1.93	-3.6
04	5.000	4.95	-1.1	05	20.000	20.76	3.8	06	50.000	49.66	-0.7
07	100.000	96.47	-3.5	08	150.000	149.76	-0.2	09	200.000	202.50	1.3

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	3.0	02	1.000	1.08	7.9	03	2.000	2.01	0.6
04	5.000	4.96	-0.8	05	20.000	20.81	4.0	06	50.000	49.62	-0.8
07	100.000	95.05	-4.9	08	150.000	143.23	-4.5	09	200.000	190.95	-4.5

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.5	02	1.000	1.02	2.3	03	2.000	1.91	-4.3
04	5.000	4.58	-8.4	05	20.000	20.00	0.0	06	50.000	48.35	-3.3
07	100.000	95.36	-4.6	08	150.000	147.90	-1.4	09	200.000	202.57	1.3

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.5	02	1.000	1.05	4.6	03	2.000	1.98	-0.8
04	5.000	4.85	-3.0	05	20.000	20.85	4.2	06	50.000	49.62	-0.8
07	100.000	97.08	-2.9	08	150.000	146.76	-2.2	09	200.000	196.61	-1.7

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.1	02	1.000	1.14	13.5	03	2.000	1.93	-3.5
04	5.000	4.91	-1.7	05	20.000	21.33	6.6	06	50.000	50.99	2.0
07	100.000	95.22	-4.8	08	150.000	139.41	-7.1	09	200.000	185.70	-7.2

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.66	31.7	02	1.000	1.11	10.7	03	2.000	1.85	-7.4
04	5.000	5.35	7.0	05	20.000	19.38	-3.1	06	50.000	46.10	-7.8
07	100.000	92.76	-7.2	08	150.000	127.20	-15.2	09	200.000	182.86	-8.6

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.7	02	1.000	0.89	-11.1	03	2.000	2.01	0.7
04	5.000	5.08	1.5	05	20.000	21.33	6.7	06	50.000	52.37	4.7
07	100.000	96.07	-3.9	08	150.000	143.86	-4.1	09	200.000	189.67	-5.2

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.2	02	1.000	1.06	5.8	03	2.000	1.97	-1.6
04	5.000	5.09	1.7	05	20.000	21.78	8.9	06	50.000	52.52	5.0
07	100.000	98.06	-1.9	08	150.000	142.73	-4.8	09	200.000	178.20	-10.9

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.41	-17.2	02	1.000	0.97	-3.5	03	2.000	1.88	-6.1
04	5.000	4.96	-0.9	05	20.000	20.59	3.0	06	50.000	52.65	5.3
07	100.000	111.26	11.3	08	150.000	149.49	-0.3	09	200.000	216.78	8.4

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.6	02	1.000	0.92	-8.4	03	2.000	1.85	-7.3
04	5.000	5.08	1.6	05	20.000	21.60	8.0	06	50.000	51.82	3.6
07	100.000	103.88	3.9	08	150.000	150.73	0.5	09	200.000	211.35	5.7

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.0	02	1.000	1.08	8.4	03	2.000	2.12	6.2
04	5.000	4.98	-0.5	05	20.000	20.12	0.6	06	50.000	48.94	-2.1
07	100.000	91.77	-8.2	08	150.000	140.53	-6.3	09	200.000	191.78	-4.1

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-1.0	02	1.000	1.02	1.7	03	2.000	1.89	-5.6
04	5.000	4.96	-0.9	05	20.000	20.72	3.6	06	50.000	50.45	0.9
07	100.000	100.06	0.1	08	150.000	149.68	-0.2	09	200.000	202.82	1.4

Initial Calibration - Detailed Report

Calibration ID:	RC1400098	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.4	02	1.000	0.97	-3.1	03	2.000	1.94	-3.0
04	5.000	5.09	1.7	05	20.000	20.87	4.4	06	50.000	49.22	-1.6
07	100.000	97.69	-2.3	08	150.000	143.04	-4.6	09	200.000	198.03	-1.0

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	50.82	1.6	03	60.000	62.55	4.2	04	70.000	72.78	4.0
05	100.000	98.19	-1.8	07	125.000	122.94	-1.7	08	150.000	140.41	-6.4

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.5	02	1.000	1.10	10.4	03	2.000	2.01	0.7
04	5.000	4.88	-2.3	05	20.000	20.48	2.4	06	50.000	49.08	-1.8
07	100.000	95.24	-4.8	08	150.000	143.68	-4.2	09	200.000	198.08	-1.0

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.9	02	1.000	1.03	3.4	03	2.000	2.06	2.9
04	5.000	5.01	0.3	05	20.000	20.47	2.3	06	50.000	51.03	2.1
07	100.000	96.13	-3.9	08	150.000	142.92	-4.7	09	200.000	189.42	-5.3

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.3	02	1.000	1.03	3.0	03	2.000	1.97	-1.3
04	5.000	4.94	-1.2	05	20.000	21.12	5.6	06	50.000	51.87	3.7
07	100.000	98.41	-1.6	08	150.000	144.57	-3.6	09	200.000	182.17	-8.9

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.9	02	1.000	1.04	3.9	03	2.000	2.01	0.5
04	5.000	4.95	-1.0	05	20.000	20.98	4.9	06	50.000	50.47	0.9
07	100.000	97.16	-2.8	08	150.000	144.43	-3.7	09	200.000	190.75	-4.6

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.0	02	1.000	0.91	-9.0	03	2.000	1.92	-3.9
04	5.000	5.05	0.9	05	20.000	20.60	3.0	06	50.000	50.31	0.6
07	100.000	100.48	0.5	08	150.000	146.98	-2.0	09	200.000	203.90	2.0

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.6	02	1.000	1.08	8.4	03	2.000	1.93	-3.5
04	5.000	4.85	-3.0	05	20.000	20.77	3.9	06	50.000	50.11	0.2
07	100.000	95.92	-4.1	08	150.000	142.06	-5.3	09	200.000	187.61	-6.2

Initial Calibration - Detailed Report

Calibration ID:	RC1400098	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	46.21	15.5	04	100.000	114.25	14.3	05	400.000	381.67	-4.6
06	1000.000	916.13	-8.4	07	2000.000	1,925.16	-3.7	08	3000.000	2,639.46	-12.0
09	4000.000	3,958.01	-1.0								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	51.12	2.2	03	100.000	99.72	-0.3	04	250.000	234.83	-6.1
05	1000.000	925.69	-7.4	06	2500.000	2,422.67	-3.1	07	5000.000	5,459.85	9.2
08	7500.000	6,981.08	-6.9	09	10000.000	11,235.09	12.4				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.0	02	1.000	0.95	-4.7	03	2.000	1.92	-4.2
04	5.000	4.62	-7.6	05	20.000	19.71	-1.5	06	50.000	50.65	1.3
07	100.000	103.84	3.8	08	150.000	157.74	5.2	09	200.000	219.18	9.6

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.9	02	1.000	1.02	1.6	03	2.000	2.03	1.4
04	5.000	5.02	0.5	05	20.000	20.91	4.6	06	50.000	51.07	2.1
07	100.000	96.44	-3.6	08	150.000	147.68	-1.5	09	200.000	203.74	1.9

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.3	02	1.000	1.09	9.4	03	2.000	1.89	-5.7
04	5.000	4.85	-3.0	05	20.000	20.92	4.6	06	50.000	51.17	2.3
07	100.000	97.14	-2.9	08	150.000	147.42	-1.7	09	200.000	193.25	-3.4

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.9	02	1.000	1.14	13.8	03	2.000	1.80	-9.8
04	5.000	5.03	0.7	05	20.000	20.01	0.0	06	50.000	52.34	4.7
07	100.000	97.61	-2.4	08	150.000	144.72	-3.5	09	200.000	198.78	-0.6

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.4	02	1.000	0.97	-3.1	03	2.000	2.06	2.9
04	5.000	5.01	0.3	05	20.000	19.19	-4.0	06	50.000	51.14	2.3
07	100.000	96.23	-3.8	08	150.000	141.62	-5.6	09	200.000	193.40	-3.3

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.49	-0.9	02	3.000	3.10	3.4	03	6.000	5.95	-0.8
04	15.000	15.15	1.0	05	60.000	62.25	3.7	06	150.000	157.87	5.2
07	300.000	300.14	0.0	08	450.000	432.31	-3.9	09	600.000	553.11	-7.8

Initial Calibration - Detailed Report

Calibration ID:	RC1400098	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.4	02	1.000	0.96	-3.6	03	2.000	1.97	-1.5
04	5.000	4.94	-1.3	05	20.000	19.99	-0.1	06	50.000	51.71	3.4
07	100.000	100.23	0.2	08	150.000	148.18	-1.2	09	200.000	199.12	-0.4

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.0	02	1.000	1.09	8.9	03	2.000	1.84	-7.9
04	5.000	4.86	-2.8	05	20.000	20.09	0.4	06	50.000	51.05	2.1
07	100.000	99.76	-0.2	08	150.000	147.88	-1.4	09	200.000	199.64	-0.2

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.96	-1.9	04	5.000	4.87	-2.7	05	20.000	19.59	-2.1
06	50.000	48.31	-3.4	07	100.000	105.40	5.4	08	150.000	148.16	-1.2
09	200.000	211.56	5.8								

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.8	02	1.000	1.06	6.0	03	2.000	1.90	-5.0
04	5.000	5.01	0.2	05	20.000	20.96	4.8	06	50.000	48.87	-2.3
07	100.000	96.34	-3.7	08	150.000	147.02	-2.0	09	200.000	196.32	-1.8

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.8	02	1.000	1.08	7.5	03	2.000	2.10	4.9
04	5.000	5.11	2.2	05	20.000	19.80	-1.0	06	50.000	49.65	-0.7
07	100.000	97.12	-2.9	08	150.000	143.36	-4.4	09	200.000	192.28	-3.9

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.5	02	1.000	0.97	-2.7	03	2.000	1.87	-6.4
04	5.000	4.96	-0.9	05	20.000	20.48	2.4	06	50.000	49.76	-0.5
07	100.000	103.74	3.7	08	150.000	148.18	-1.2	09	200.000	208.20	4.1

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.2	02	1.000	1.05	5.2	03	2.000	1.97	-1.4
04	5.000	5.10	2.0	05	20.000	21.96	9.8	06	50.000	51.38	2.8
07	100.000	96.89	-3.1	08	150.000	141.40	-5.7	09	200.000	180.75	-9.6

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.90	-5.2	04	5.000	4.93	-1.5	05	20.000	20.32	1.6
06	50.000	49.16	-1.7	07	100.000	105.69	5.7	08	150.000	144.87	-3.4
09	200.000	208.98	4.5								

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	19.85	-0.7	03	40.000	32.16	-19.6	04	100.000	95.66	-4.3
05	400.000	410.96	2.7	06	1000.000	1,017.95	1.8	07	2000.000	2,201.77	10.1
08	3000.000	2,939.73	-2.0	09	4000.000	4,483.16	12.1				

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	9.06	-9.4	03	40.000	40.53	1.3	04	100.000	104.97	5.0
05	400.000	403.52	0.9	06	1000.000	982.90	-1.7	07	2000.000	2,105.10	5.3
08	3000.000	2,796.54	-6.8	09	4000.000	4,219.87	5.5				

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.19	19.3	02	2.000	1.71	-14.5	03	4.000	3.89	-2.7
04	10.000	8.31	-16.9	05	40.000	37.80	-5.5	06	100.000	95.72	-4.3
07	200.000	211.17	5.6	08	300.000	309.63	3.2	09	400.000	463.47	15.9

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	9.15	-8.5	03	40.000	38.61	-3.5	04	100.000	95.18	-4.8
05	400.000	413.75	3.4	06	1000.000	1,046.94	4.7	07	2000.000	2,111.72	5.6
08	3000.000	2,878.75	-4.0	09	4000.000	4,286.13	7.2				

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-1.0	02	2.000	2.00	-0.2	03	4.000	4.00	0.1
04	10.000	10.44	4.4	05	40.000	42.22	5.6	06	100.000	106.65	6.6
07	200.000	201.30	0.7	08	300.000	283.98	-5.3	09	400.000	356.48	-10.9

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.3	02	1.000	0.93	-7.2	03	2.000	1.78	-10.8
04	5.000	4.69	-6.2	05	20.000	19.56	-2.2	06	50.000	51.17	2.3
07	100.000	104.87	4.9	08	150.000	159.04	6.0	09	200.000	219.87	9.9

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.8	02	1.000	0.89	-10.9	03	2.000	1.99	-0.4
04	5.000	4.85	-3.0	05	20.000	22.36	11.8	06	50.000	53.36	6.7
07	100.000	95.76	-4.2	08	150.000	152.73	1.8	09	200.000	174.78	-12.6

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.6	02	1.000	0.94	-5.6	03	2.000	1.84	-7.8
04	5.000	4.81	-3.7	05	20.000	19.21	-3.9	06	50.000	50.72	1.4
07	100.000	102.70	2.7	08	150.000	157.96	5.3	09	200.000	219.99	10.0

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.05	5.2	03	2.000	2.05	2.4
04	5.000	5.22	4.3	05	20.000	20.65	3.3	06	50.000	50.80	1.6
07	100.000	98.00	-2.0	08	150.000	139.27	-7.2	09	200.000	179.31	-10.3

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.26	2.5	03	60.000	61.05	1.8	04	70.000	70.16	0.2
05	100.000	96.68	-3.3	07	125.000	125.05	0.0	08	150.000	148.20	-1.2

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.2	02	1.000	1.03	2.7	03	2.000	2.01	0.5
04	5.000	4.99	-0.3	05	20.000	21.29	6.5	06	50.000	51.26	2.5
07	100.000	97.72	-2.3	08	150.000	143.28	-4.5	09	200.000	181.20	-9.4

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.5	02	1.000	1.01	0.6	03	2.000	2.02	1.2
04	5.000	4.96	-0.7	05	20.000	21.77	8.8	06	50.000	52.43	4.9
07	100.000	96.54	-3.5	08	150.000	141.60	-5.6	09	200.000	175.52	-12.2

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.80	-9.8	04	5.000	4.92	-1.6	05	20.000	20.42	2.1
06	50.000	49.86	-0.3	07	100.000	106.23	6.2	08	150.000	146.12	-2.6
09	200.000	211.81	5.9								

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.07	3.5	04	5.000	4.75	-4.9	05	20.000	20.00	0.0
06	50.000	48.22	-3.6	07	100.000	104.00	4.0	08	150.000	146.30	-2.5
09	200.000	206.82	3.4								

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.00	-20.2	03	10.000	10.71	7.1	04	25.000	26.77	7.1
05	100.000	100.16	0.2	06	250.000	236.42	-5.4	07	500.000	505.74	1.1
08	750.000	793.46	5.8	09	1000.000	1,043.07	4.3				

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	5.20	4.0	03	10.000	10.01	0.1	04	25.000	21.67	-13.3
05	100.000	85.09	-14.9	06	250.000	192.45	-23.0	07	500.000	535.09	7.0
08	750.000	874.73	16.6	09	1000.000	1,234.80	23.5				

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.42	-3.1	02	5.000	4.77	-4.6	03	10.000	8.96	-10.4
04	25.000	25.60	2.4	05	100.000	104.04	4.0	06	250.000	252.84	1.1
07	500.000	522.03	4.4	08	750.000	746.78	-0.4	09	1000.000	1,065.44	6.5

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.8	02	1.000	1.00	-0.2	03	2.000	2.00	0.0
04	5.000	4.96	-0.7	05	20.000	21.07	5.4	06	50.000	49.70	-0.6
07	100.000	96.94	-3.1	08	150.000	146.13	-2.6	09	200.000	196.13	-1.9

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.0	02	1.000	1.02	2.3	03	2.000	2.02	0.8
04	5.000	4.88	-2.4	05	20.000	20.55	2.8	06	50.000	49.80	-0.4
07	100.000	97.01	-3.0	08	150.000	144.60	-3.6	09	200.000	196.94	-1.5

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	19.0	02	1.000	1.03	2.9	03	2.000	1.92	-4.1
04	5.000	5.01	0.1	05	20.000	20.57	2.8	06	50.000	48.79	-2.4
07	100.000	93.51	-6.5	08	150.000	140.03	-6.6	09	200.000	189.63	-5.2

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.6	02	1.000	1.02	2.3	03	2.000	1.91	-4.7
04	5.000	4.75	-5.0	05	20.000	20.82	4.1	06	50.000	50.14	0.3
07	100.000	101.45	1.5	08	150.000	152.10	1.4	09	200.000	209.59	4.8

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.36	-28.1	02	1.000	0.87	-12.8	03	2.000	1.80	-9.9
04	5.000	4.69	-6.1	05	20.000	20.91	4.5	06	50.000	54.21	8.4
07	100.000	113.45	13.5	08	150.000	166.01	10.7	09	200.000	239.59	19.8

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.7	02	1.000	1.06	6.4	03	2.000	1.74	-13.2
04	5.000	4.48	-10.5	05	20.000	18.27	-8.7	06	50.000	48.91	-2.2
07	100.000	101.51	1.5	08	150.000	167.01	11.3	09	200.000	228.93	14.5

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	24.9	02	1.000	1.03	3.0	03	2.000	1.94	-2.8
04	5.000	4.84	-3.2	05	20.000	20.46	2.3	06	50.000	48.29	-3.4
07	100.000	93.22	-6.8	08	150.000	140.83	-6.1	09	200.000	184.08	-8.0

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
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Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.9	02	1.000	1.04	3.7	03	2.000	1.92	-4.2
04	5.000	4.66	-6.8	05	20.000	20.67	3.3	06	50.000	49.41	-1.2
07	100.000	99.01	-1.0	08	150.000	150.69	0.5	09	200.000	205.47	2.7

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.9	02	1.000	0.96	-4.3	03	2.000	1.92	-3.8
04	5.000	4.83	-3.4	05	20.000	20.58	2.9	06	50.000	50.02	0.0
07	100.000	99.56	-0.4	08	150.000	150.33	0.2	09	200.000	201.69	0.8

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.8	02	1.000	1.04	3.8	03	2.000	1.95	-2.7
04	5.000	5.07	1.5	05	20.000	20.82	4.1	06	50.000	49.55	-0.9
07	100.000	94.34	-5.7	08	150.000	142.53	-5.0	09	200.000	188.17	-5.9

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.7	02	1.000	1.13	13.4	03	2.000	2.04	2.2
04	5.000	4.85	-2.9	05	20.000	20.18	0.9	06	50.000	47.93	-4.1
07	100.000	93.06	-6.9	08	150.000	140.74	-6.2	09	200.000	188.03	-6.0

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	20.3	02	1.000	1.02	1.8	03	2.000	1.94	-2.9
04	5.000	4.66	-6.8	05	20.000	20.94	4.7	06	50.000	49.49	-1.0
07	100.000	94.97	-5.0	08	150.000	140.46	-6.4	09	200.000	190.47	-4.8

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.7	02	1.000	1.03	2.6	03	2.000	1.99	-0.6
04	5.000	4.99	-0.1	05	20.000	20.78	3.9	06	50.000	49.66	-0.7
07	100.000	93.13	-6.9	08	150.000	139.06	-7.3	09	200.000	190.79	-4.6

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	12.88	28.8	02	20.000	24.44	22.2	03	40.000	40.79	2.0
04	100.000	105.59	5.6	05	400.000	377.32	-5.7	06	1000.000	792.40	-20.8
07	2000.000	1,796.92	-10.2	08	3000.000	2,257.63	-24.7	09	4000.000	4,112.11	2.8

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.4	02	1.000	0.89	-11.2	03	2.000	1.90	-4.9
04	5.000	4.36	-12.7	05	20.000	20.12	0.6	06	50.000	51.45	2.9
07	100.000	107.23	7.2	08	150.000	161.64	7.8	09	200.000	227.47	13.7

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	50.82	1.6	03	60.000	61.99	3.3	04	70.000	71.46	2.1
05	100.000	98.18	-1.8	07	125.000	124.02	-0.8	08	150.000	143.32	-4.5

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.7	02	1.000	0.95	-4.8	03	2.000	2.02	0.9
04	5.000	4.94	-1.1	05	20.000	20.42	2.1	06	50.000	49.68	-0.6
07	100.000	97.74	-2.3	08	150.000	144.03	-4.0	09	200.000	202.01	1.0

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.3	02	1.000	0.96	-3.6	03	2.000	1.97	-1.7
04	5.000	4.54	-9.2	05	20.000	22.07	10.3	06	50.000	52.49	5.0
07	100.000	100.34	0.3	08	150.000	148.63	-0.9	09	200.000	198.82	-0.6

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	9.0	02	1.000	1.04	3.7	03	2.000	2.14	6.8
04	5.000	5.06	1.1	05	20.000	20.99	5.0	06	50.000	50.16	0.3
07	100.000	92.19	-7.8	08	150.000	137.00	-8.7	09	200.000	181.26	-9.4

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	19.3	02	1.000	0.98	-2.0	03	2.000	2.00	0.1
04	5.000	4.99	-0.2	05	20.000	20.10	0.5	06	50.000	48.01	-4.0
07	100.000	92.64	-7.4	08	150.000	144.16	-3.9	09	200.000	195.24	-2.4

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.1	02	1.000	1.01	0.5	03	2.000	1.90	-4.8
04	5.000	4.80	-3.9	05	20.000	20.15	0.7	06	50.000	49.15	-1.7
07	100.000	97.35	-2.7	08	150.000	142.40	-5.1	09	200.000	201.43	0.7

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.5	02	1.000	1.02	1.9	03	2.000	2.07	3.5
04	5.000	5.21	4.2	05	20.000	20.49	2.5	06	50.000	49.62	-0.8
07	100.000	98.36	-1.6	08	150.000	135.05	-10.0	09	200.000	193.39	-3.3

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.9	02	1.000	0.85	-14.7	03	2.000	1.85	-7.3
04	5.000	4.87	-2.6	05	20.000	20.83	4.1	06	50.000	52.17	4.3
07	100.000	108.11	8.1	08	150.000	153.86	2.6	09	200.000	220.56	10.3

Initial Calibration - Detailed Report

Calibration ID:	RC1400098	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.7	02	1.000	1.01	0.6	03	2.000	2.03	1.4
04	5.000	5.23	4.7	05	20.000	20.51	2.5	06	50.000	49.77	-0.5
07	100.000	99.83	-0.2	08	150.000	136.83	-8.8	09	200.000	199.06	-0.5

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.4	02	1.000	0.97	-3.1	03	2.000	1.82	-9.1
04	5.000	4.81	-3.7	05	20.000	20.52	2.6	06	50.000	51.16	2.3
07	100.000	100.20	0.2	08	150.000	153.84	2.6	09	200.000	207.85	3.9

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.5	02	1.000	1.06	6.0	03	2.000	1.95	-2.6
04	5.000	5.16	3.2	05	20.000	21.44	7.2	06	50.000	51.52	3.0
07	100.000	87.43	-12.6	08	150.000	139.48	-7.0	09	200.000	180.49	-9.8

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.4	03	2.000	1.84	-7.8	04	5.000	4.65	-7.1
05	20.000	21.30	6.5	06	50.000	51.71	3.4	07	100.000	100.00	0.0
08	150.000	148.16	-1.2	09	200.000	195.53	-2.2				

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.7	02	1.000	1.08	8.1	03	2.000	2.01	0.7
04	5.000	5.18	3.5	05	20.000	21.89	9.4	06	50.000	51.34	2.7
07	100.000	95.52	-4.5	08	150.000	136.71	-8.9	09	200.000	170.36	-14.8

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.90	-9.7	03	2.000	2.18	9.0	04	5.000	4.96	-0.8
05	20.000	20.11	0.6	06	50.000	50.34	0.7	07	100.000	100.05	0.1
08	150.000	144.11	-3.9	09	200.000	208.28	4.1				

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.0	02	1.000	0.90	-10.0	03	2.000	1.89	-5.5
04	5.000	5.25	5.0	05	20.000	21.25	6.3	06	50.000	52.18	4.4
07	100.000	102.95	2.9	08	150.000	147.08	-1.9	09	200.000	205.91	3.0

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.6	02	1.000	0.94	-5.6	03	2.000	1.83	-8.7
04	5.000	4.93	-1.4	05	20.000	21.26	6.3	06	50.000	51.86	3.7
07	100.000	106.17	6.2	08	150.000	150.74	0.5	09	200.000	219.03	9.5

Initial Calibration - Detailed Report

Calibration ID:	RC1400098	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.1	02	1.000	0.97	-3.1	03	2.000	1.90	-5.2
04	5.000	5.07	1.3	05	20.000	20.61	3.1	06	50.000	49.93	-0.1
07	100.000	100.22	0.2	08	150.000	145.30	-3.1	09	200.000	205.69	2.8

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.1	02	1.000	0.96	-3.9	03	2.000	2.00	-0.2
04	5.000	4.84	-3.2	05	20.000	20.50	2.5	06	50.000	49.63	-0.7
07	100.000	94.06	-5.9	08	150.000	143.33	-4.4	09	200.000	197.71	-1.1

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.5	02	1.000	0.96	-4.0	03	2.000	1.92	-3.8
04	5.000	5.17	3.4	05	20.000	21.59	8.0	06	50.000	53.69	7.4
07	100.000	103.25	3.2	08	150.000	140.66	-6.2	09	200.000	189.09	-5.5

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.98	19.2	02	5.000	4.91	-1.8	03	10.000	9.07	-9.3
04	25.000	23.92	-4.3	05	100.000	100.19	0.2	06	250.000	244.64	-2.1
07	500.000	506.81	1.4	08	750.000	702.89	-6.3	09	1000.000	1,030.94	3.1

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.8	02	1.000	0.86	-13.8	03	2.000	1.77	-11.6
04	5.000	4.72	-5.6	05	20.000	21.15	5.8	06	50.000	53.47	6.9
07	100.000	108.16	8.2	08	150.000	165.60	10.4	09	200.000	221.19	10.6

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.8	02	1.000	0.99	-1.4	03	2.000	1.82	-8.8
04	5.000	4.90	-2.0	05	20.000	20.55	2.7	06	50.000	50.85	1.7
07	100.000	98.98	-1.0	08	150.000	155.93	4.0	09	200.000	211.50	5.8

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.11	5.6	04	5.000	4.97	-0.5	05	20.000	20.35	1.7
06	50.000	49.64	-0.7	07	100.000	99.84	-0.2	08	150.000	140.32	-6.5
09	200.000	201.06	0.5								

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.6	02	1.000	1.01	1.2	03	2.000	1.97	-1.7
04	5.000	5.00	0.0	05	20.000	21.45	7.2	06	50.000	50.68	1.4
07	100.000	99.62	-0.4	08	150.000	147.72	-1.5	09	200.000	192.75	-3.6

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.75	3.5	03	60.000	61.96	3.3	04	70.000	71.36	1.9
05	100.000	98.50	-1.5	07	125.000	122.32	-2.1	08	150.000	142.39	-5.1

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.0	02	1.000	0.94	-5.7	03	2.000	1.88	-6.2
04	5.000	4.90	-1.9	05	20.000	20.69	3.4	06	50.000	49.65	-0.7
07	100.000	98.22	-1.8	08	150.000	149.87	-0.1	09	200.000	203.95	2.0

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.2	02	1.000	1.03	3.4	03	2.000	2.02	0.8
04	5.000	5.09	1.9	05	20.000	21.32	6.6	06	50.000	49.58	-0.8
07	100.000	93.00	-7.0	08	150.000	143.38	-4.4	09	200.000	190.84	-4.6

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.2	02	1.000	1.07	7.2	03	2.000	1.73	-13.3
04	5.000	4.58	-8.4	05	20.000	20.42	2.1	06	50.000	52.30	4.6
07	100.000	103.55	3.6	08	150.000	157.97	5.3	09	200.000	212.19	6.1

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.6	02	1.000	0.98	-1.8	03	2.000	1.90	-4.8
04	5.000	4.75	-4.9	05	20.000	21.33	6.6	06	50.000	50.50	1.0
07	100.000	96.94	-3.1	08	150.000	142.22	-5.2	09	200.000	189.03	-5.5

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.6	02	1.000	0.97	-2.7	03	2.000	2.00	0.1
04	5.000	4.96	-0.9	05	20.000	20.67	3.3	06	50.000	50.44	0.9
07	100.000	98.05	-1.9	08	150.000	150.45	0.3	09	200.000	205.02	2.5

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.0	02	1.000	0.99	-0.9	03	2.000	1.93	-3.6
04	5.000	4.86	-2.8	05	20.000	21.25	6.3	06	50.000	51.76	3.5
07	100.000	102.34	2.3	08	150.000	152.31	1.5	09	200.000	207.34	3.7

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.88	-11.8	02	2.000	1.94	-3.0	03	4.000	3.72	-7.1
04	10.000	9.71	-2.9	05	40.000	42.38	5.9	06	100.000	104.27	4.3
07	200.000	208.27	4.1	08	300.000	317.62	5.9	09	400.000	418.43	4.6

Initial Calibration - Detailed Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Signal ID: 1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.5	02	1.000	0.90	-9.5	03	2.000	1.95	-2.7
04	5.000	4.84	-3.2	05	20.000	20.70	3.5	06	50.000	52.17	4.3
07	100.000	107.57	7.6	08	150.000	148.81	-0.8	09	200.000	212.60	6.3

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.8	02	1.000	1.00	-0.1	03	2.000	1.91	-4.4
04	5.000	4.93	-1.3	05	20.000	21.65	8.3	06	50.000	52.60	5.2
07	100.000	98.84	-1.2	08	150.000	145.81	-2.8	09	200.000	183.23	-8.4

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	24.7	02	1.000	1.13	13.4	03	2.000	1.86	-7.2
04	5.000	4.54	-9.2	05	20.000	20.06	0.3	06	50.000	48.82	-2.4
07	100.000	93.46	-6.5	08	150.000	140.45	-6.4	09	200.000	186.51	-6.7

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.7	02	1.000	1.04	3.8	03	2.000	2.06	3.0
04	5.000	5.19	3.8	05	20.000	22.11	10.6	06	50.000	51.76	3.5
07	100.000	94.54	-5.5	08	150.000	132.52	-11.7	09	200.000	161.36	-19.3

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.6	02	1.000	0.95	-5.0	03	2.000	1.81	-9.5
04	5.000	4.61	-7.8	05	20.000	20.55	2.8	06	50.000	51.05	2.1
07	100.000	103.36	3.4	08	150.000	161.05	7.4	09	200.000	220.52	10.3

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.3	02	1.000	1.06	6.3	03	2.000	2.04	2.2
04	5.000	4.96	-0.7	05	20.000	21.69	8.4	06	50.000	52.22	4.4
07	100.000	96.78	-3.2	08	150.000	138.60	-7.6	09	200.000	171.69	-14.2

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.3	02	1.000	1.02	2.0	03	2.000	1.99	-0.5
04	5.000	5.04	0.8	05	20.000	20.31	1.6	06	50.000	49.43	-1.1
07	100.000	100.69	0.7	08	150.000	136.86	-8.8	09	200.000	202.06	1.0

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.6	02	1.000	1.00	0.3	03	2.000	2.09	4.3
04	5.000	5.14	2.9	05	20.000	21.41	7.1	06	50.000	51.11	2.2
07	100.000	96.19	-3.8	08	150.000	142.39	-5.1	09	200.000	181.16	-9.4

Initial Calibration - Detailed Report

Calibration ID:	RC1400098	**Instrument ID:**	R-MS-12
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.8	02	1.000	0.96	-3.9	03	2.000	1.96	-2.1
04	5.000	4.83	-3.4	05	20.000	21.00	5.0	06	50.000	50.58	1.2
07	100.000	98.42	-1.6	08	150.000	154.02	2.7	09	200.000	209.82	4.9

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.4	02	1.000	0.85	-14.7	03	2.000	1.92	-3.9
04	5.000	4.79	-4.1	05	20.000	21.26	6.3	06	50.000	52.90	5.8
07	100.000	106.16	6.2	08	150.000	156.61	4.4	09	200.000	216.93	8.5

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.60	20.3	02	1.000	0.99	-0.6	03	2.000	2.06	2.8
04	5.000	4.78	-4.3	05	20.000	19.40	-3.0	06	50.000	47.87	-4.3
07	100.000	99.00	-1.0	08	150.000	138.48	-7.7	09	200.000	195.38	-2.3

Quantitation Report (QT Reviewed)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:51:19 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.243	168	864640	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1308913	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1223196	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	640092	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	384713	50.47	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.94%				
48) surr1,1,2-dichloroetha...	4.658	65	482931	52.03	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 104.06%				
65) SURR3,Toluene-d8	7.322	98	1646922	51.32	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.64%				
70) SURR2,BFB	9.785	95	623001	50.03	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.06%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.158	85	4104	0.50	ppb		91
3) Chloromethane	1.262	50	6709	0.60	ppb		99
4) Vinyl Chloride	1.323	62	6967	0.59	ppb		98
5) Bromomethane	1.512	94	2885	0.50	ppb		84
6) Chloroethane	1.567	64	4089	0.55	ppb		96
7) Freon 21	1.664	67	10043	0.54	ppb		94
8) Trichlorofluoromethane	1.719	101	7337	0.52	ppb		85
9) Diethyl Ether	1.878	59	3724	0.58	ppb	#	74
10) Freon 123a	1.871	67	5405	0.53	ppb		95
11) Freon 123	1.908	83	5007	0.47	ppb		90
12) Acrolein	1.957	56	1809	5.14	ppb		87
13) 1,1-Diclethene	2.036	96	4424	0.59	ppb		89
14) Freon 113	2.036	101	3780	0.49	ppb		80
16) 2-Propanol	2.115	45	3322	9.15	ppb		89
17) Iodomethane	2.146	142	5843	0.54	ppb		98
18) Carbon Disulfide	2.207	76	15686	0.62	ppb		95
19) Acetonitrile	2.225	40	581	2.00	ppb	#	63
20) Allyl Chloride	2.280	76	2345	0.56	ppb	#	83
21) Methyl Acetate	2.280	43	2029	0.48	ppb		84
22) Methylene Chloride	2.353	84	4855	0.60	ppb		96
23) TBA	2.408	59	5444	9.06	ppb		73
24) Acrylonitrile	2.524	53	4766	2.42	ppb		91
25) Methyl-t-Butyl Ether	2.579	73	10897	0.52	ppb		94
26) trans-1,2-Dichloroethene	2.585	96	3923	0.49	ppb		90
28) 1,1-Diclethane	2.938	63	7681	0.51	ppb		94
29) Vinyl Acetate	2.981	86	627	0.46	ppb	#	70
30) DIPE	3.018	45	15520m	0.52	ppb		
31) 2-Chloro-1,3-Butadiene	3.042	53	7161	0.52	ppb		98
32) ETBE	3.396	59	13103	0.50	ppb		97
33) 2,2-Dichloropropane	3.548	77	6640	0.50	ppb		91
34) cis-1,2-Dichloroethene	3.542	96	4307	0.49	ppb	#	81
36) Propionitrile	3.603	54	2286m	3.23	ppb		
37) Bromochloromethane	3.828	130	2945	0.60	ppb		92
40) Chloroform	3.938	83	8234	0.55	ppb		84
41) 1,1,1-Trichloroethane	4.206	97	7952	0.59	ppb	#	1

KLR 10/28/14

W102714.M Tue Oct 28 09:51:38 2014 Page: 1

00085

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:51:19 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) TAME	5.023	73	11355m	0.52	ppb		
44) Cyclohexane	4.310	41	5511	0.57	ppb		82
46) Carbontetrachloride	4.475	121	1759m	0.51	ppb		
47) 1,1-Dichloropropene	4.462	75	5862	0.51	ppb		90
49) Benzene	4.779	78	17395	0.52	ppb		95
50) 1,2-Dichloroethane	4.786	62	6181	0.55	ppb		88
52) n-Heptane	5.322	43	6763	0.62	ppb		87
54) Trichloroethene	5.828	130	4865	0.55	ppb	#	63
55) Methylcyclohexane	6.102	55	6584	0.59	ppb		88
56) 1,2-Diclpropane	6.121	63	4415	0.50	ppb		95
57) Dibromomethane	6.255	93	2258	0.54	ppb		91
59) Methyl Methacrylate	6.340	69	1812m	0.45	ppb		
60) Bromodichloromethane	6.474	83	4964	0.48	ppb		96
61) 2-Nitropropane	6.755	41	1652	1.19	ppb	#	37
62) 2-Chloroethylvinyl Ether	6.889	63	2077	0.51	ppb		86
63) cis-1,3-Dichloropropene	7.023	75	5831	0.45	ppb		97
66) Toluene	7.395	91	17609	0.49	ppb		94
67) trans-1,3-Dichloropropene	7.633	75	5059	0.46	ppb		75
68) Ethyl Methacrylate	7.779	69	4089m	0.48	ppb		
69) 1,1,2-Trichloroethane	7.809	97	2737	0.45	ppb		90
72) Tetrachloroethene	7.962	164	3490	0.50	ppb		83
74) 1,3-Dichloropropane	7.968	76	5924	0.54	ppb		98
75) Dibromochloromethane	8.193	129	3179	0.48	ppb		83
76) N-Butyl Acetate	8.248	43	5026	0.48	ppb		88
77) 1,2-Dibromoethane	8.291	107	2654	0.46	ppb		82
78) Chlorobenzene	8.773	112	12779	0.54	ppb		90
79) 3-CBTF	8.785	180	6591	0.51	ppb		90
80) 4-CBTF	8.840	180	5692	0.49	ppb		89
81) 1,1,1,2-Tetrachloroethane	8.846	131	3654	0.47	ppb		89
82) Ethylbenzene	8.895	106	6671	0.52	ppb	#	58
83) (m+p)Xylene	8.998	106	13633	0.88	ppb	#	81
84) o-Xylene	9.346	106	7495	0.48	ppb		100
85) Styrene	9.358	104	11462	0.45	ppb		91
87) Bromoform	9.492	173	1144	0.36	ppb		95
88) 2-CBTF	9.577	180	5538	0.49	ppb		93
89) Isopropylbenzene	9.669	105	17715	0.52	ppb		95
90) Cyclohexanone	9.724	55	4833	12.88	ppb		88
91) trans-1,4-Dichloro-2-B...	9.961	53	1235	0.60	ppb	#	54
92) 1,1,2,2-Tetrachloroethane	9.913	83	3016	0.45	ppb	#	76
93) Bromobenzene	9.913	156	4731	0.53	ppb		95
94) 1,2,3-Trichloropropane	9.937	110	1330	0.66	ppb	#	87
95) n-Propylbenzene	10.022	91	22120	0.56	ppb		96
96) 2-Chlorotoluene	10.083	91	12018	0.50	ppb		97
97) 3-Chlorotoluene	10.132	91	13099m	0.51	ppb		
98) 4-Chlorotoluene	10.175	91	15671	0.52	ppb		92
99) 1,3,5-Trimethylbenzene	10.169	105	15450	0.52	ppb		92
100) tert-Butylbenzene	10.437	119	12158	0.51	ppb		97
101) 1,2,4-Trimethylbenzene	10.480	105	14207	0.49	ppb		90
102) 3,4-DCBTF	10.534	214	4385	0.52	ppb	#	87
103) sec-Butylbenzene	10.620	105	17547	0.52	ppb		97
104) p-Isopropyltoluene	10.742	119	15565	0.53	ppb		90
105) 1,3-Dclbenz	10.699	146	8768	0.51	ppb		99

W102714.M Tue Oct 28 09:51:38 2014

Quantification Report (QT Reviewed)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:51:19 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
106) 1,4-Dclbenz	10.766	146	9862	0.55 ppb		86
107) 2,4-DCBTF	10.821	214	3801	0.52 ppb		97
108) 2,5-DCBTF	10.858	214	4164	0.51 ppb	#	86
109) n-Butylbenzene	11.065	91	13550	0.52 ppb		98
110) 1,2-Dclbenz	11.065	146	8016	0.50 ppb		93
111) 1,2-Dibromo-3-chloropr...	11.626	157	464	0.41 ppb	#	58
112) Trielution Dichlorotol...	11.735	125	19733	1.49 ppb		93
113) 1,3,5 Trichlorobenzene	11.778	180	5712	0.51 ppb		88
114) Coelution Dichlorotoluene	11.998	125	13771	0.99 ppb		98
115) 1,2,4-Tcbenzene	12.162	180	5246	0.55 ppb		84
116) Hexachlorobt	12.266	225	2109	0.56 ppb	#	82
117) Naphthalen	12.302	128	8785	0.49 ppb		91
118) 1,2,3-Tclbenzene	12.443	180	4114	0.51 ppb		94
119) 2,4,5-Trichlorotolene	12.851	159	3122m	0.57 ppb		
120) 2,3,6-Trichlorotoluene	12.912	159	2447	0.49 ppb		91

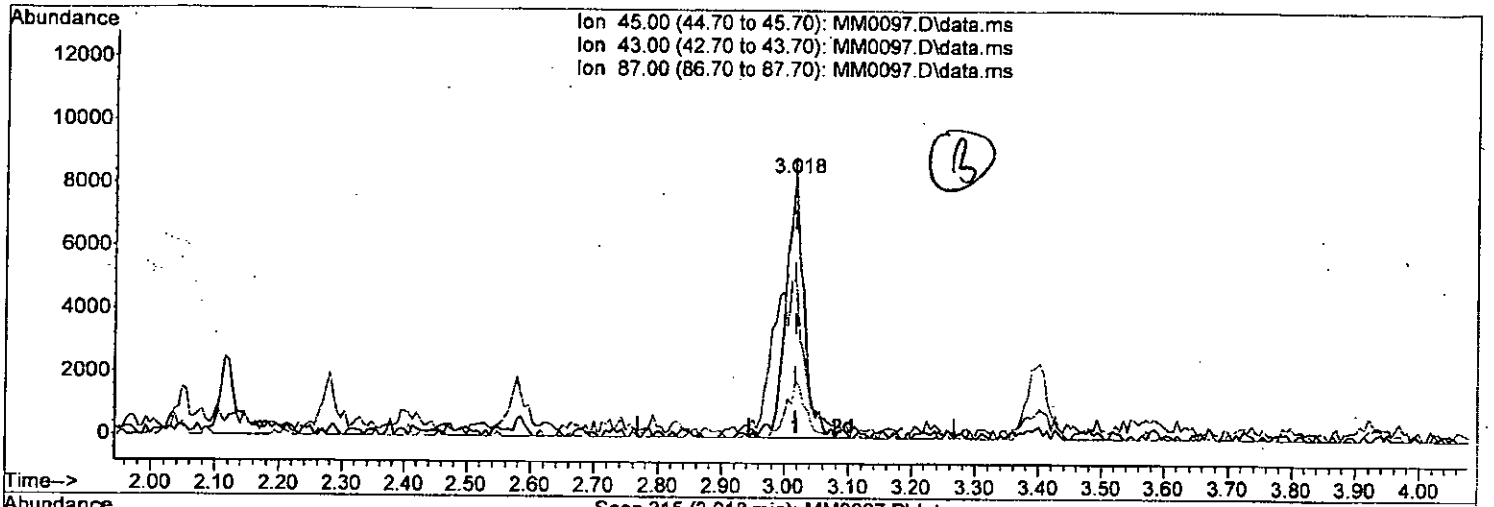
(#) = qualifier out of range (m) = manual integration (+) = signals summed

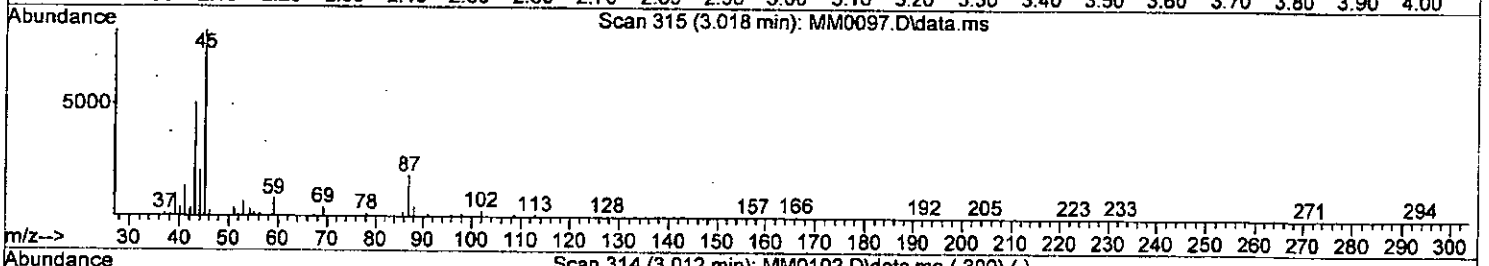
W102714.M Tue Oct 28 09:51:38 2014 Page: 3

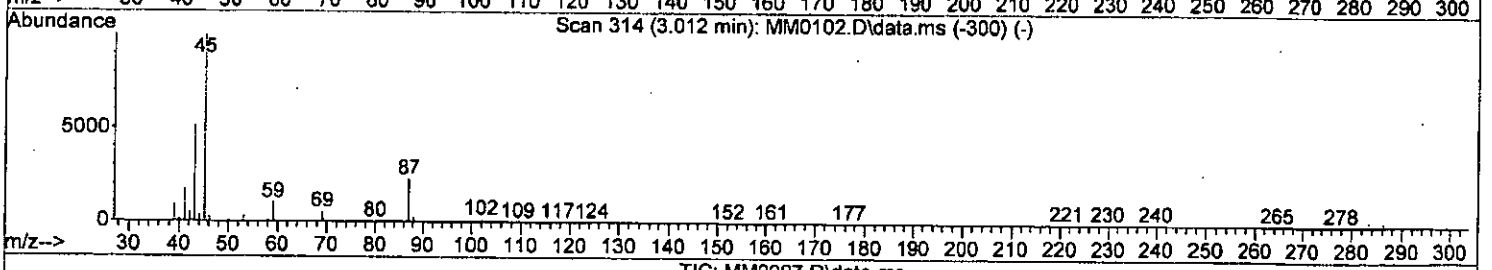
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(30) DIPE

3.018min (-0.000) 0.54 ppb

response 16124

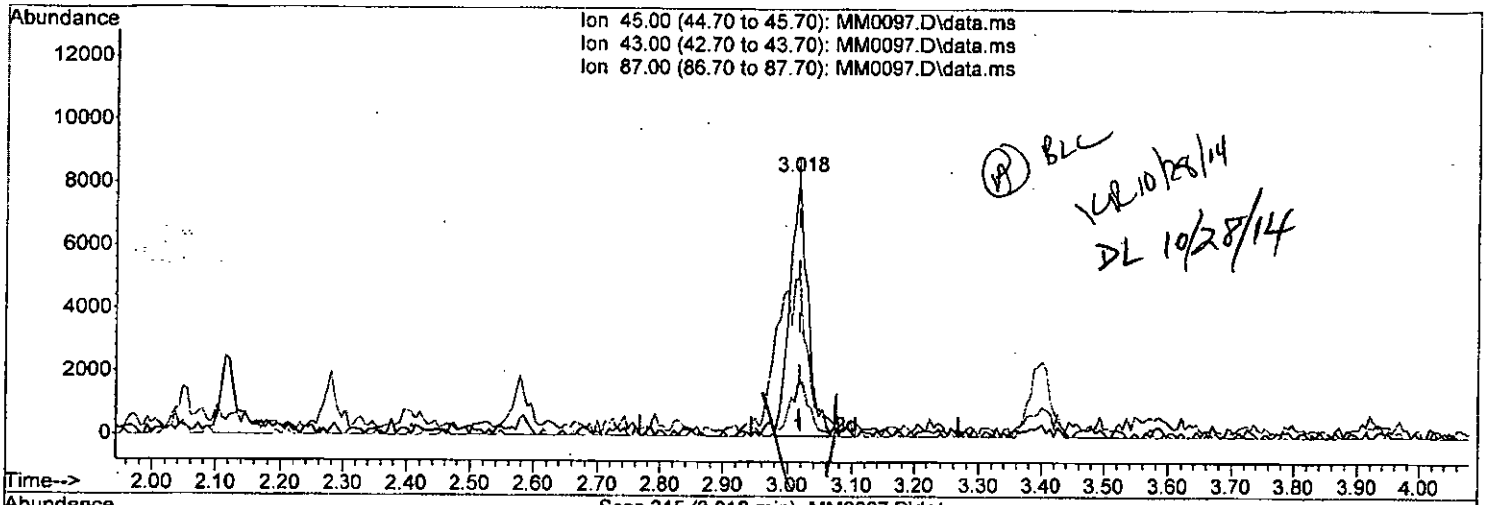
Ion	Exp%	Act%
45.00	100	100
43.00	51.40	60.81
87.00	23.30	22.71
0.00	0.00	0.00

W102714.M Tue Oct 28 09:46:53 2014 Page: 1

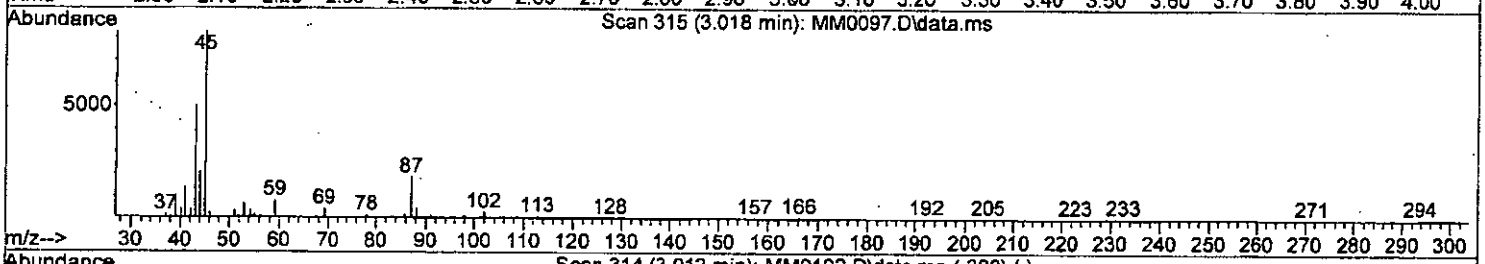
Quantitation Report (Qedit)

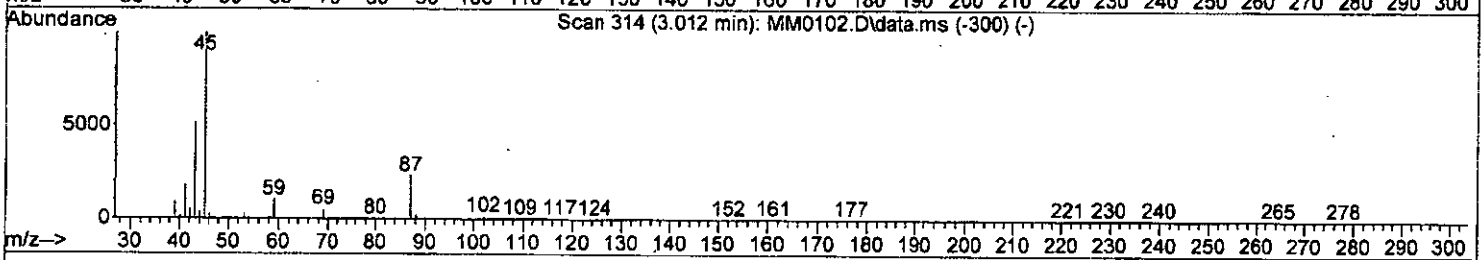
Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



BLC 10/28/14
KLR 10/28/14
DL 10/28/14





TIC: MM0097.D\data.ms

(30) DIPE

3.018min (-0.000) 0.52 ppb m

response 15520

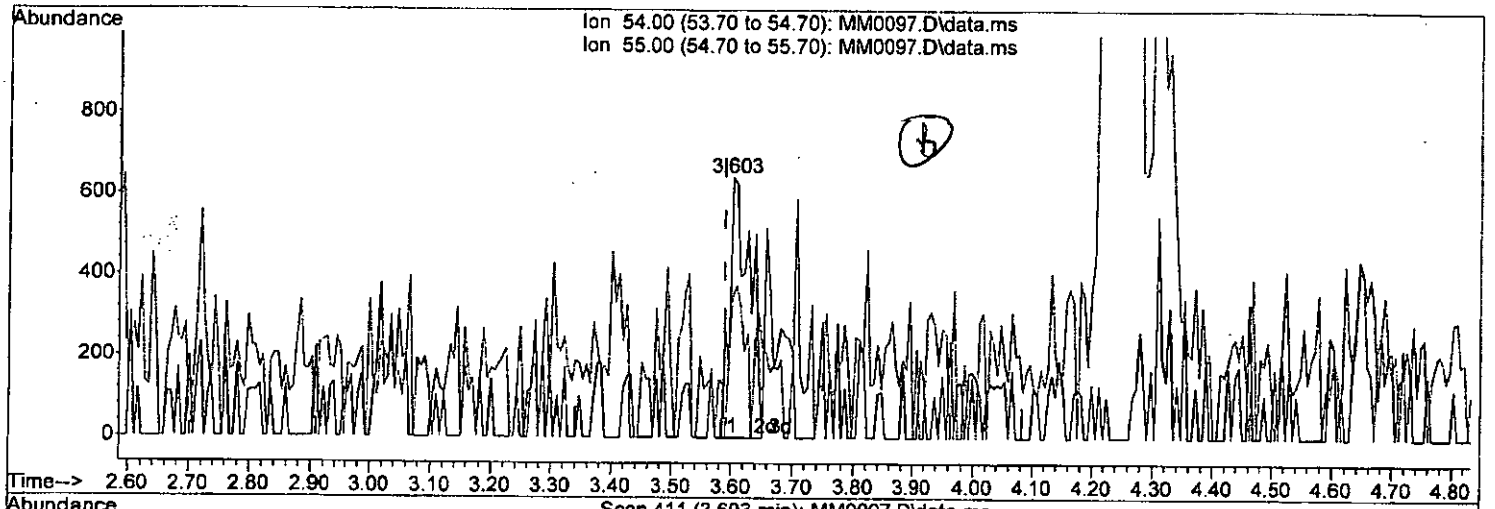
Ion	Exp%	Act%
45.00	100	100
43.00	51.40	60.81
87.00	23.30	22.71
0.00	0.00	0.00

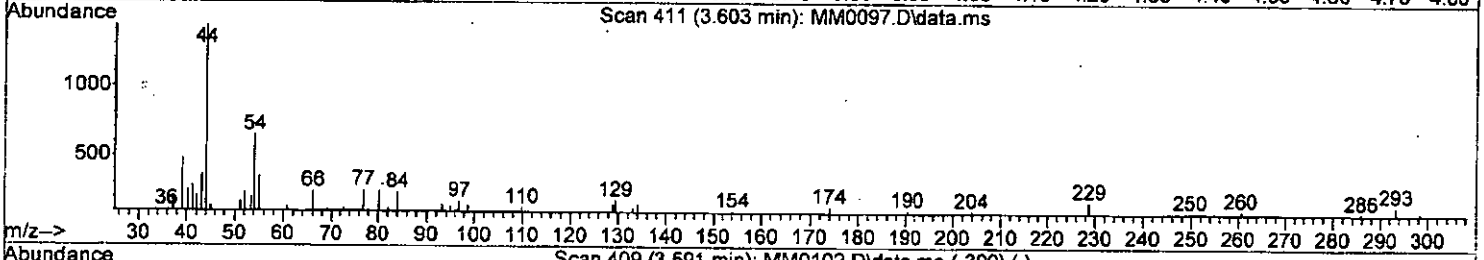
W102714.M Tue Oct 28 09:47:05 2014 Page: 1

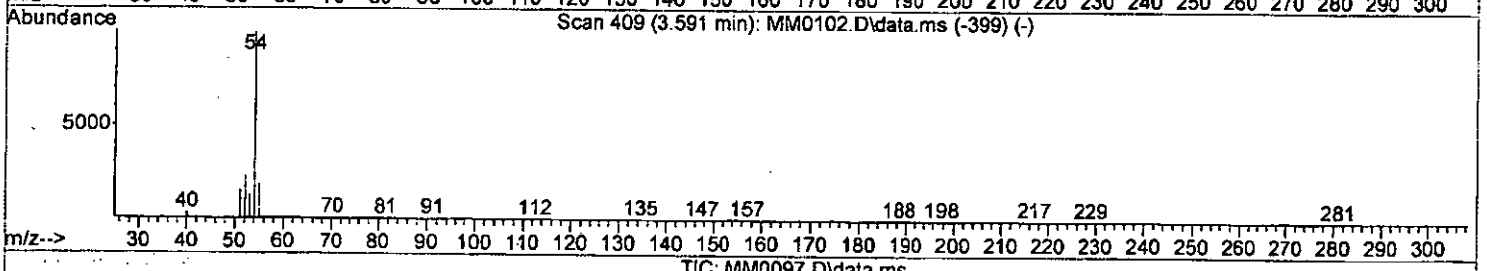
00089

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(36) Propionitrile

3.603min (+0.013) 2.07 ppb

response 1467

Ion	Exp%	Act%
54.00	100	100
55.00	18.80	53.89#
0.00	0.00	0.00
0.00	0.00	0.00

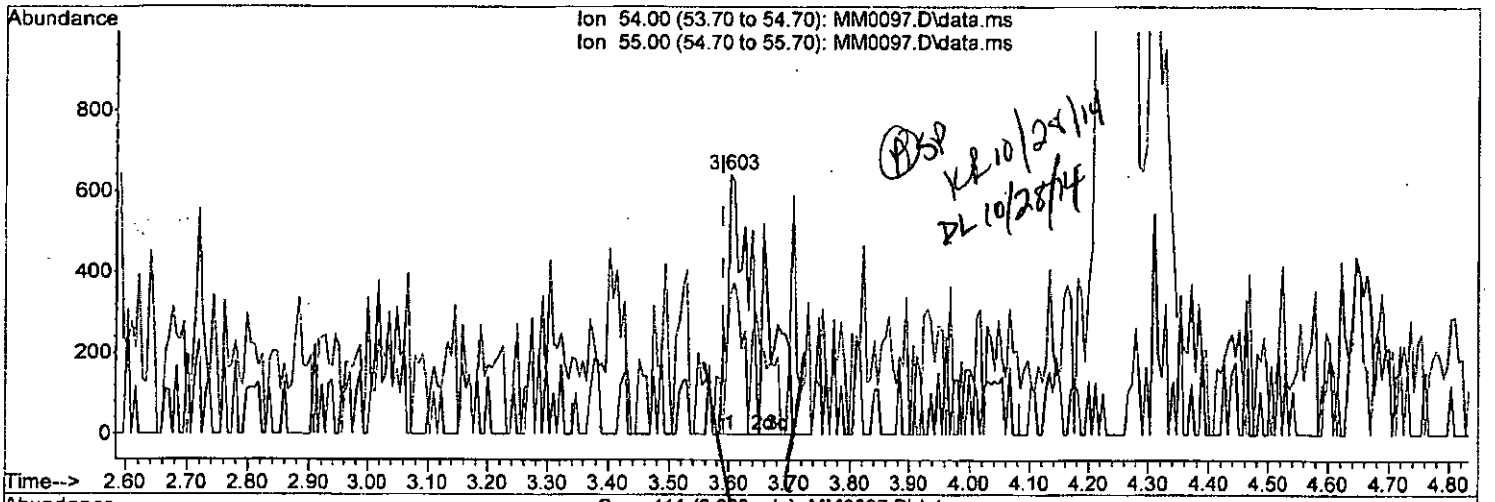
W102714.M Tue Oct 28 09:47:20 2014 Page: 1

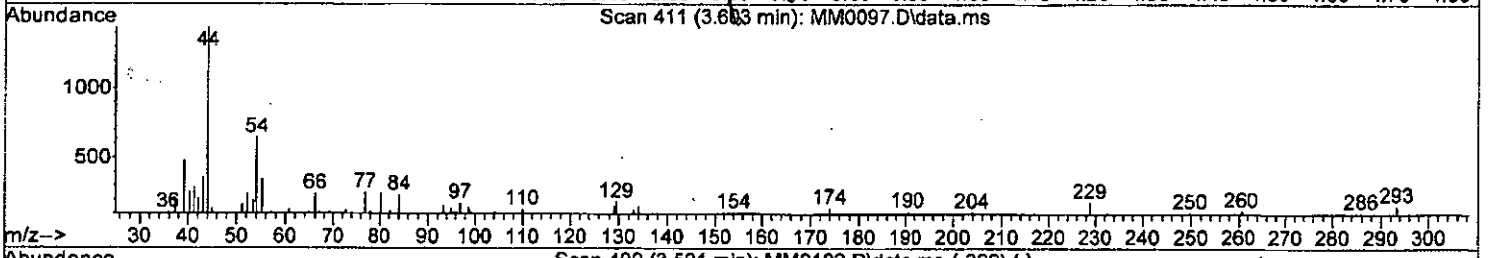
00090

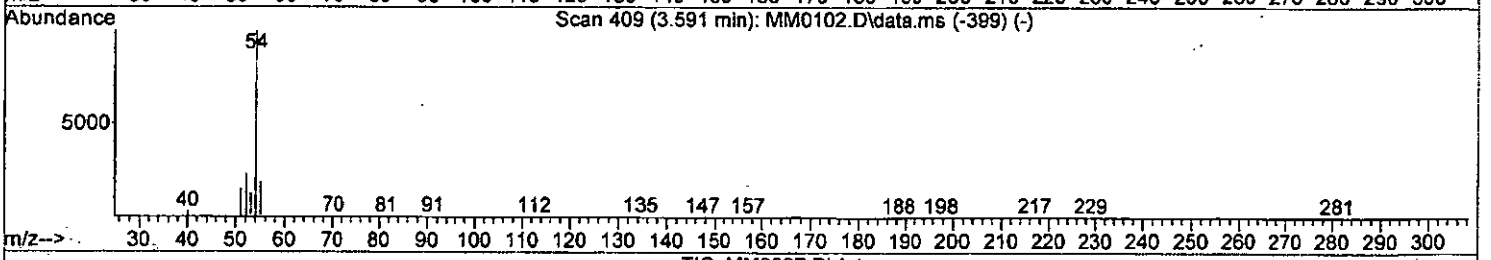
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(36) Propionitrile

3.603min (+0.013) 3.23 ppb m

response 2286

Ion	Exp%	Act%
54.00	100	100
55.00	18.80	53.89#
0.00	0.00	0.00
0.00	0.00	0.00

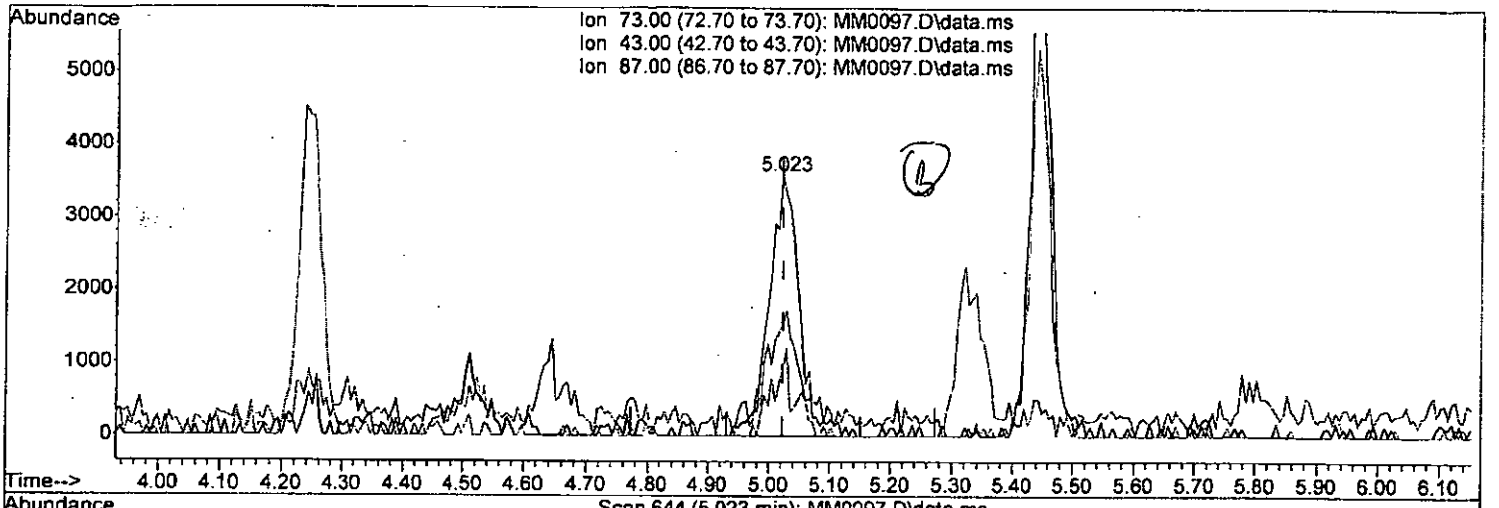
W102714.M Tue Oct 28 09:47:27 2014 Page: 1

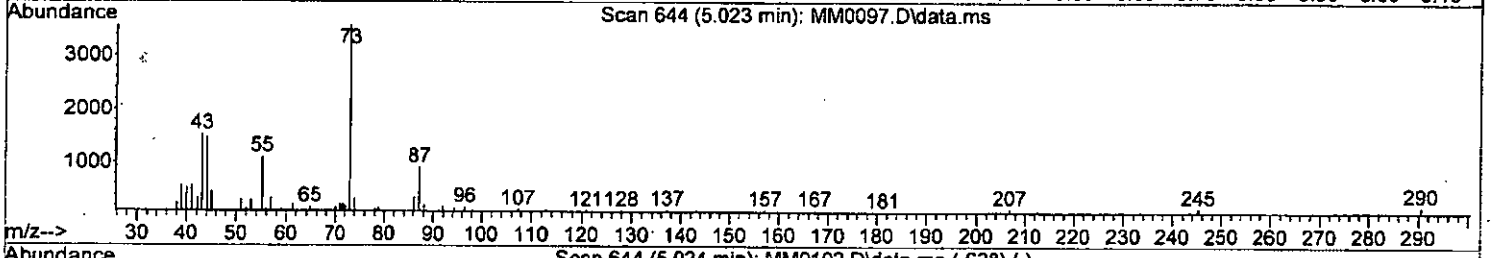
00091

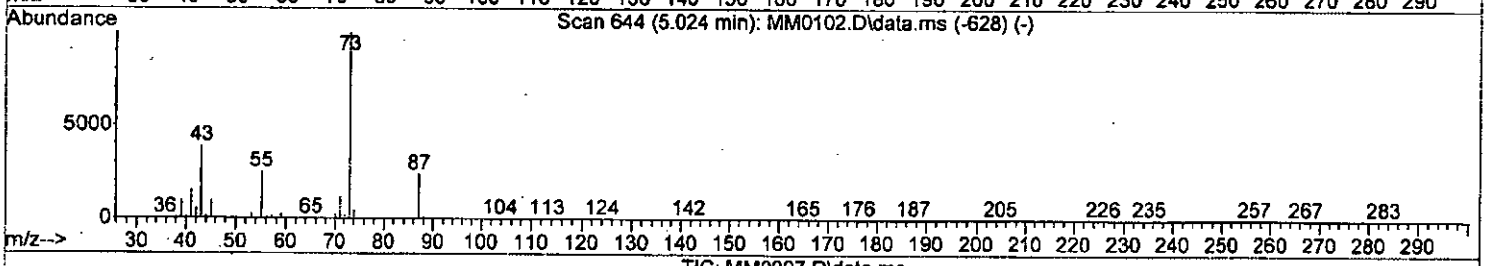
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(42) TAME

5.023min (-0.000) 0.55 ppb

response 12088

Ion	Exp%	Act%
73.00	100	100
43.00	38.80	42.82
87.00	23.60	25.60
0.00	0.00	0.00

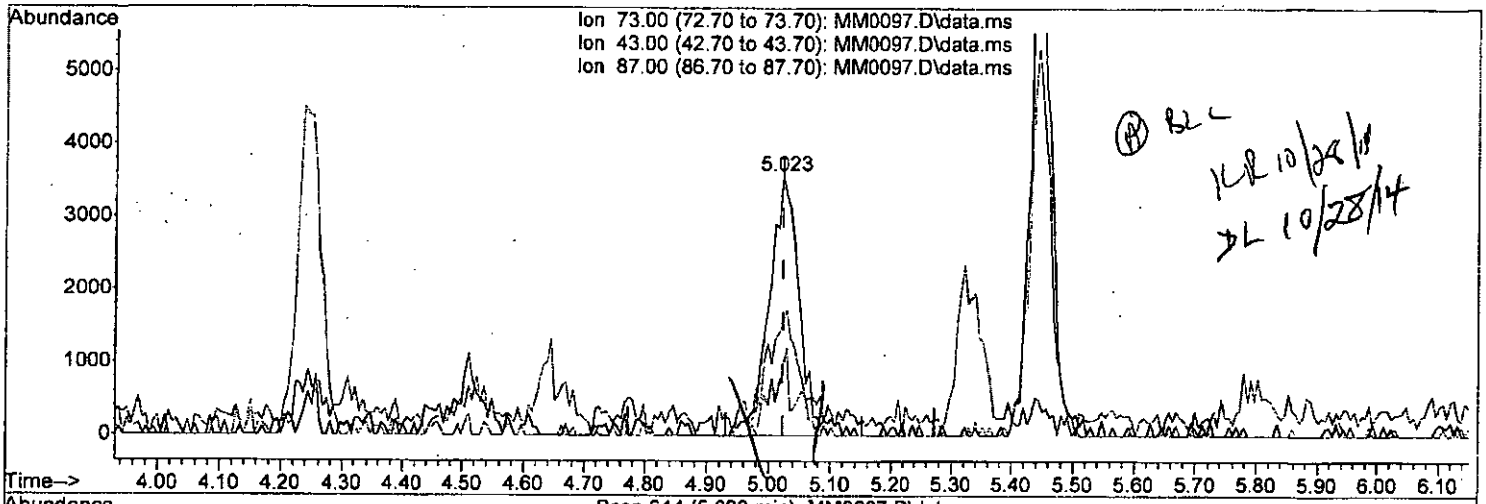
W102714.M Tue Oct 28 09:48:17 2014 Page: 1

00092

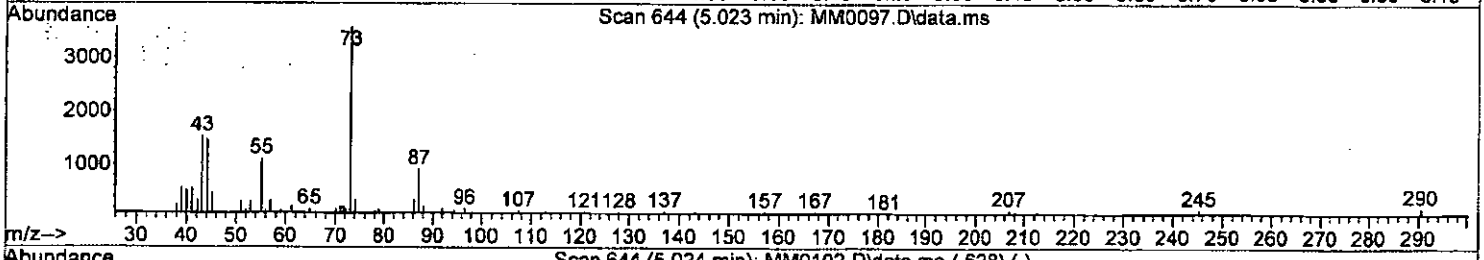
Quantitation Report (Qedit)

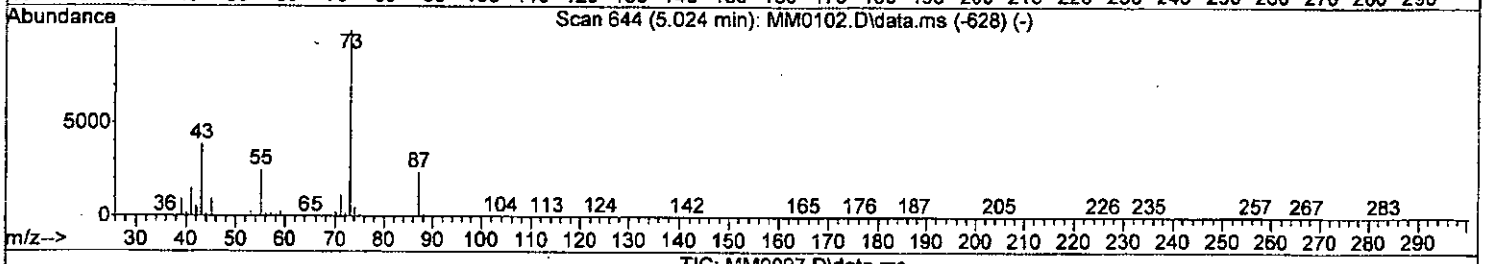
Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



BLC 10/28/14 DL 10/28/14





TIC: MM0097.D\data.ms

(42) TAME

5.023min (-0.000) 0.52 ppb m

response 11355

Ion	Exp%	Act%
73.00	100	100
43.00	38.80	42.82
87.00	23.60	25.60
0.00	0.00	0.00

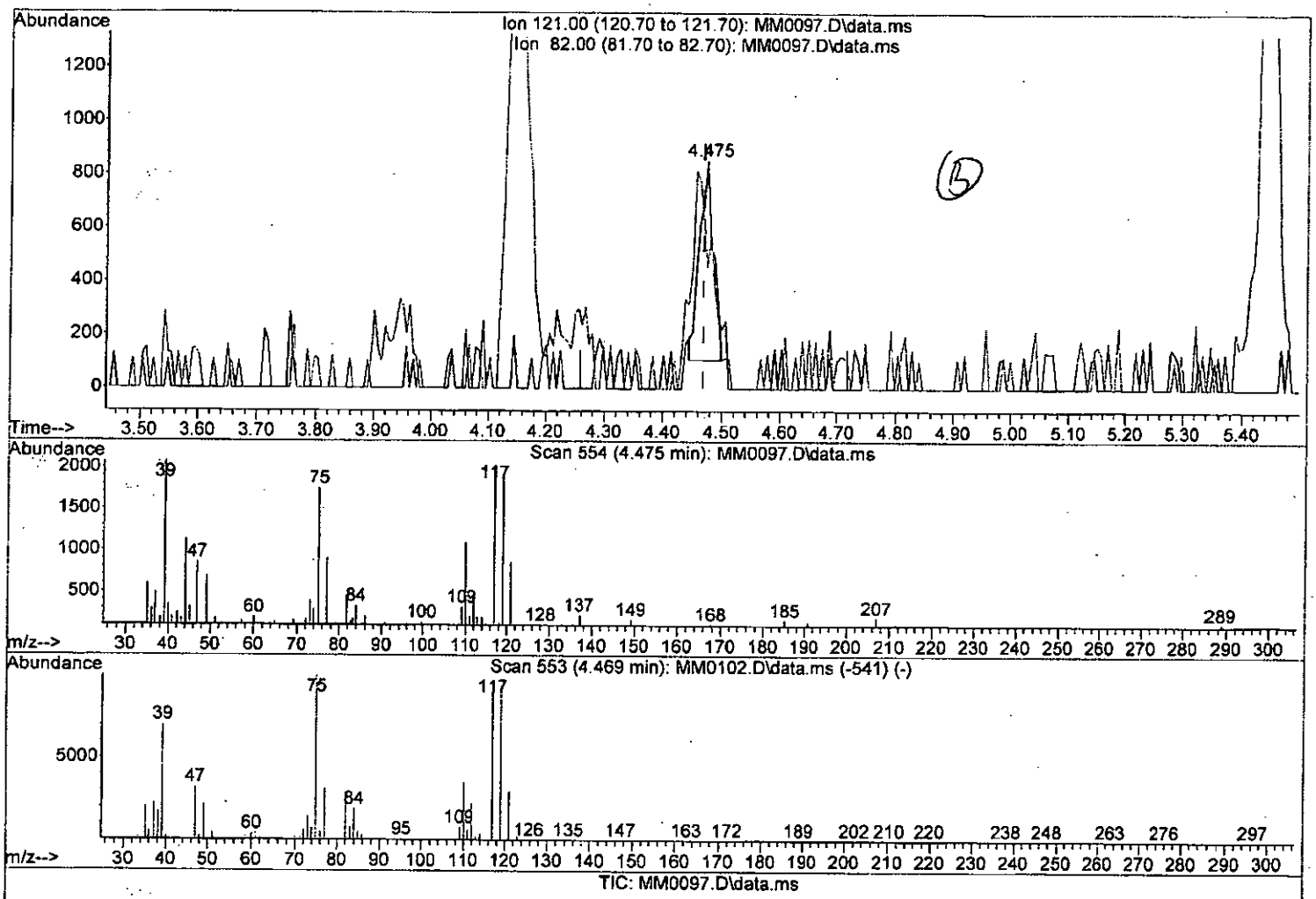
W102714.M Tue Oct 28 09:48:23 2014 Page: 1

00093

Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



TIC: MM0097.D\data.ms

(46) Carbontetrachloride (P)

4.475min (+0.006) 0.35 ppb

response 1192

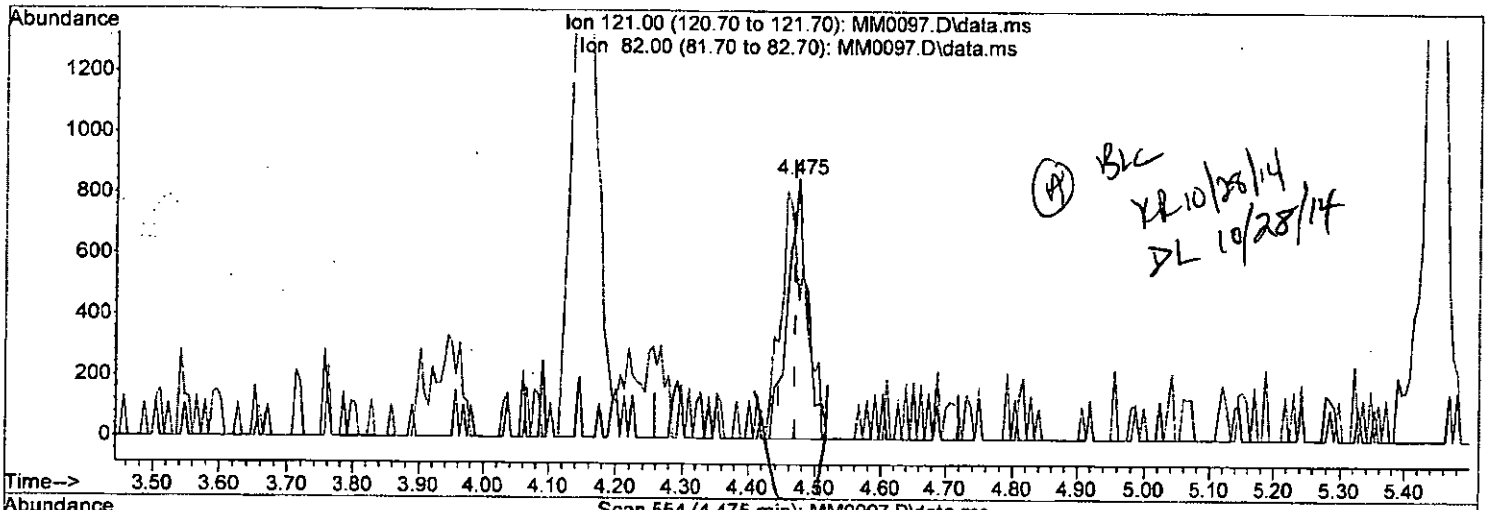
Ion	Exp%	Act%
121.00	100	100
82.00	97.20	52.93#
0.00	0.00	0.00
0.00	0.00	0.00

W102714.M Tue Oct 28 09:48:33 2014 Page: 1

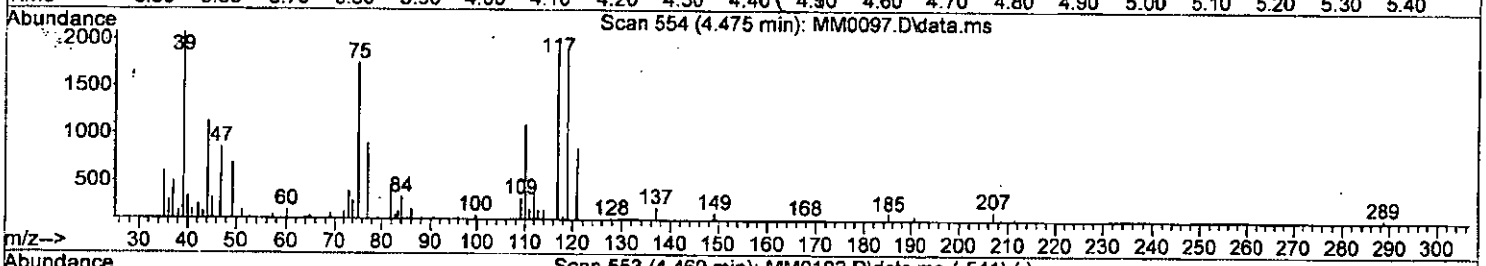
Quantitation Report (Qedit)

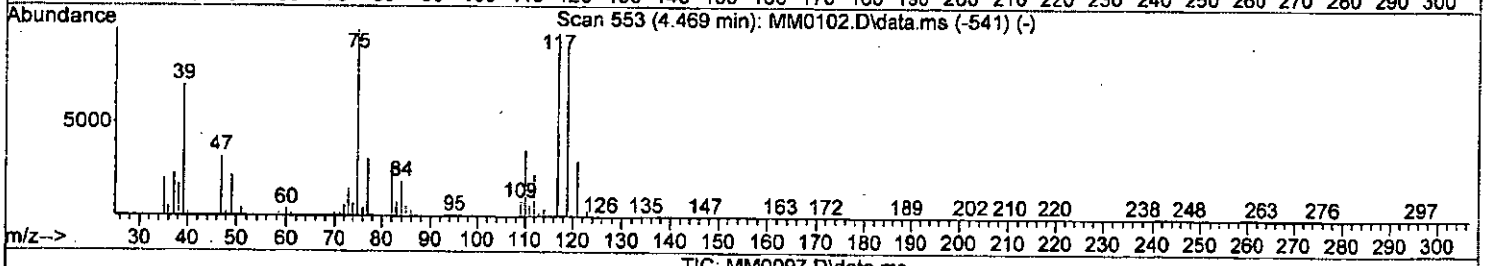
Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



BLC 10/28/14
DL 10/28/14





TIC: MM0097.D\data.ms

(46) Carbontetrachloride (P)

4.475min (+0.006) 0.51 ppb m

response 1759

Ion	Exp%	Act%
121.00	100	100
82.00	97.20	52.93#
0.00	0.00	0.00
0.00	0.00	0.00

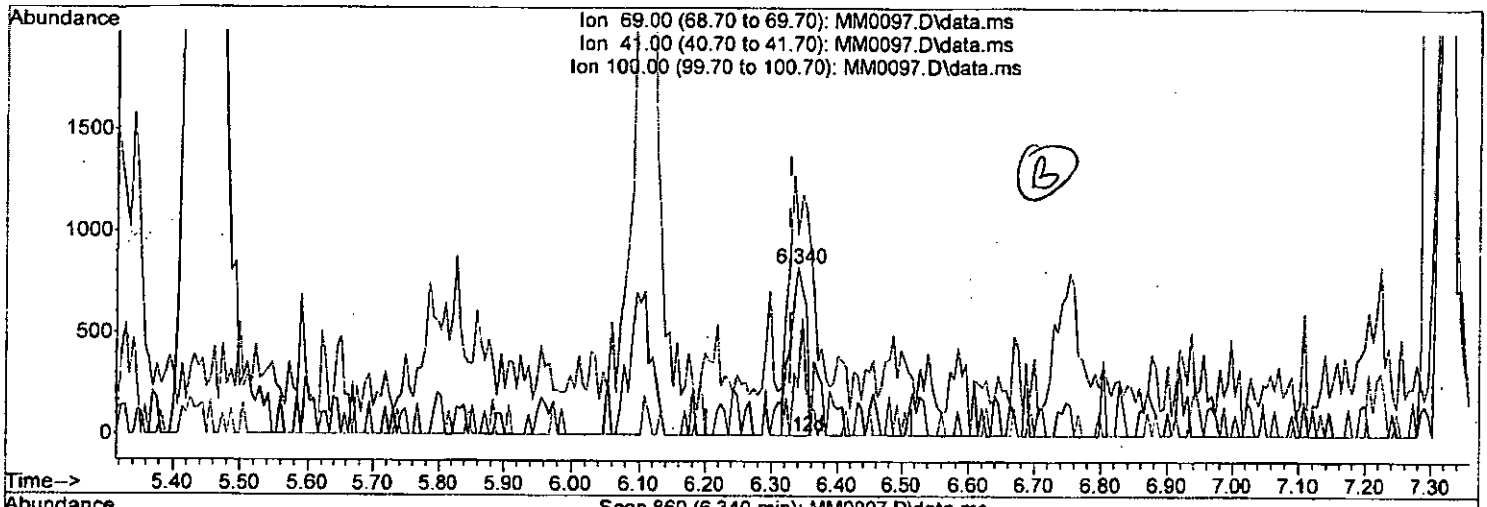
W102714.M Tue Oct 28 09:48:39 2014 Page: 1

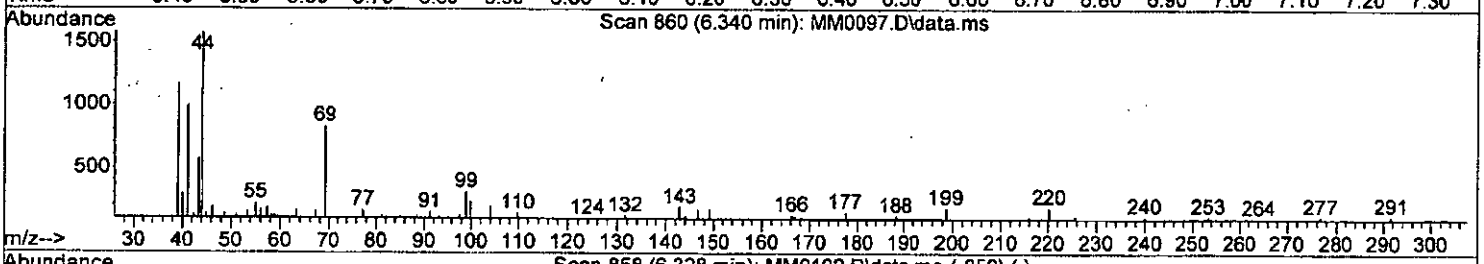
00095

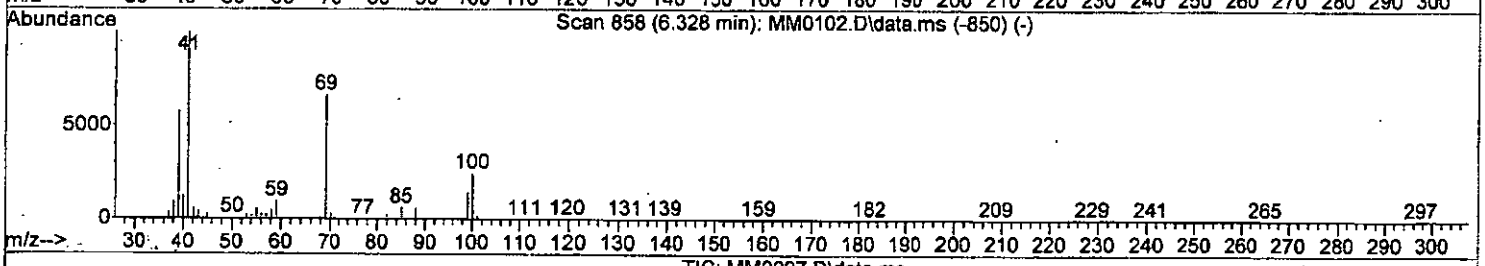
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(59) Methyl Methacrylate

6.340min (+0.012) 0.33 ppb

response 1321

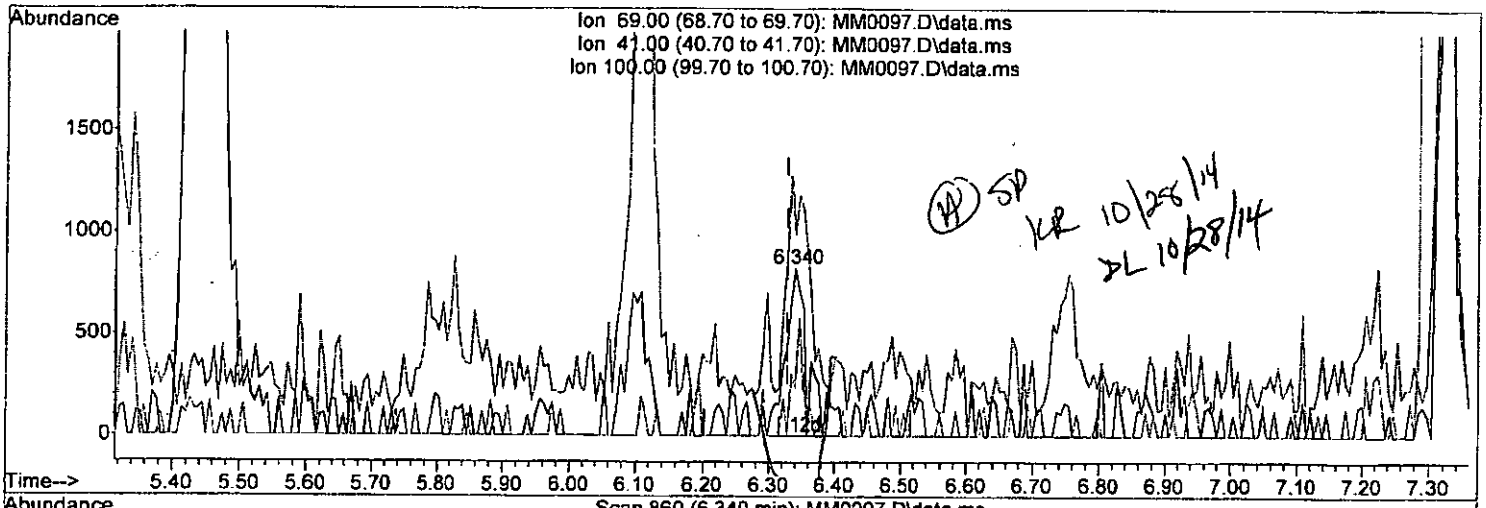
Ion	Exp%	Act%
69.00	100	100
41.00	150.30	119.78#
100.00	36.80	28.64
0.00	0.00	0.00

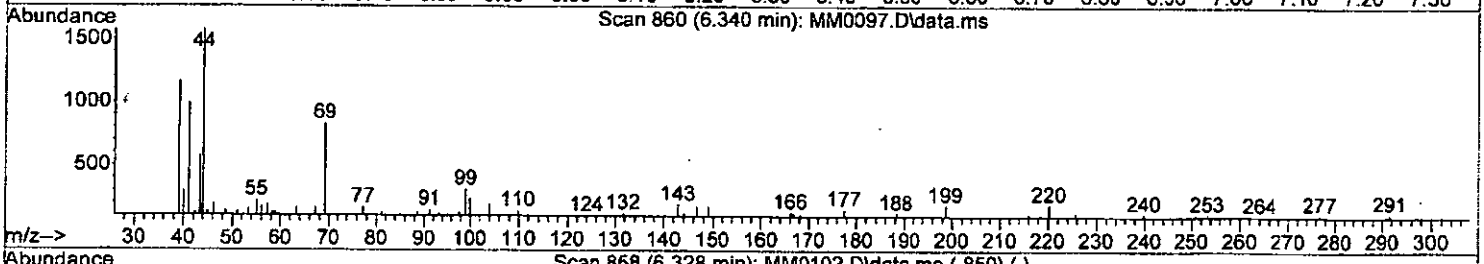
W102714.M Tue Oct 28 09:49:52 2014 Page: 1

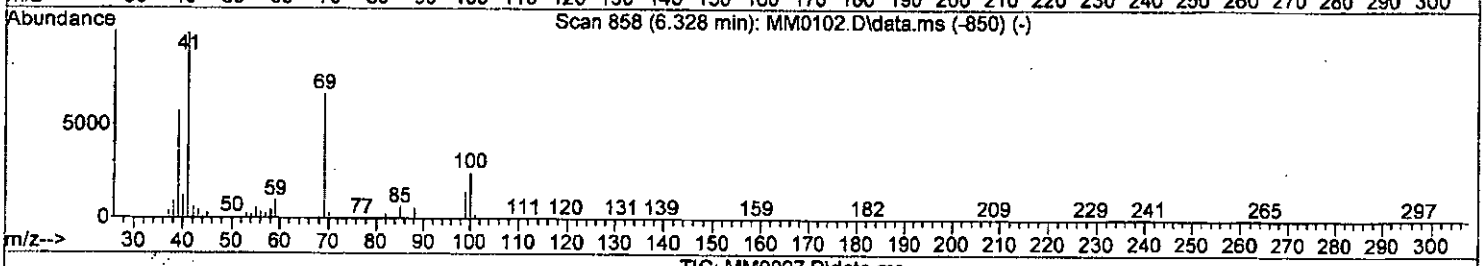
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(59) Methyl Methacrylate

6.340min (+0.012) 0.45 ppb m

response 1812

Ion	Exp%	Act%
69.00	100	100
41.00	150.30	119.78#
100.00	36.80	28.64
0.00	0.00	0.00

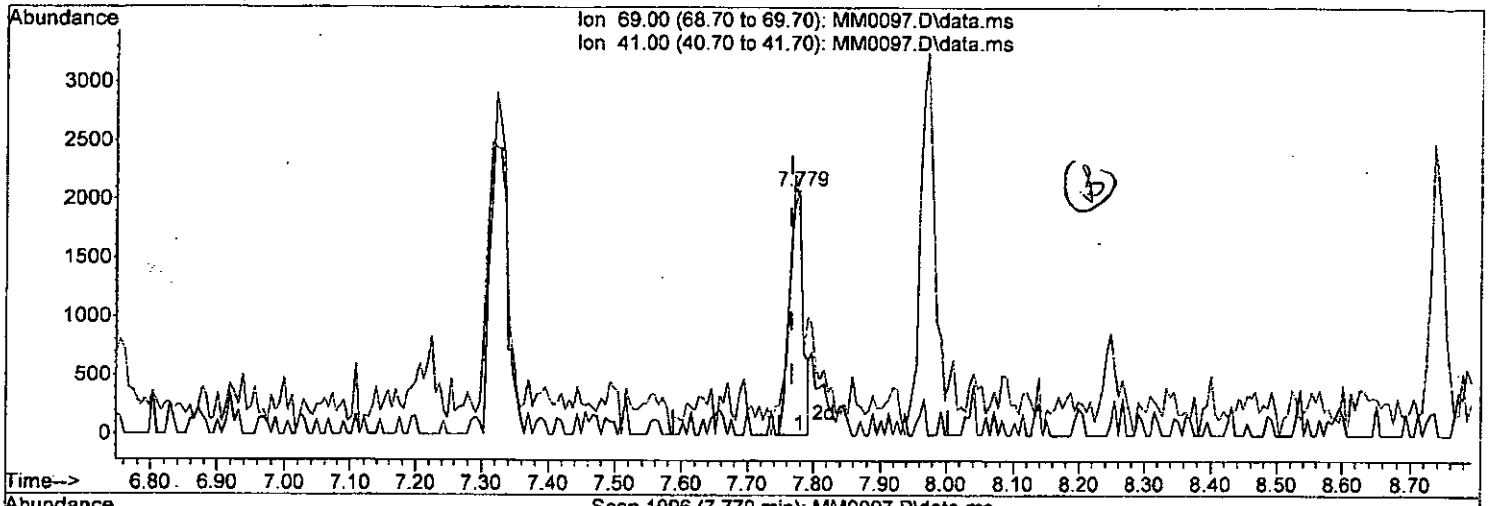
W102714.M Tue Oct 28 09:49:59 2014 Page: 1

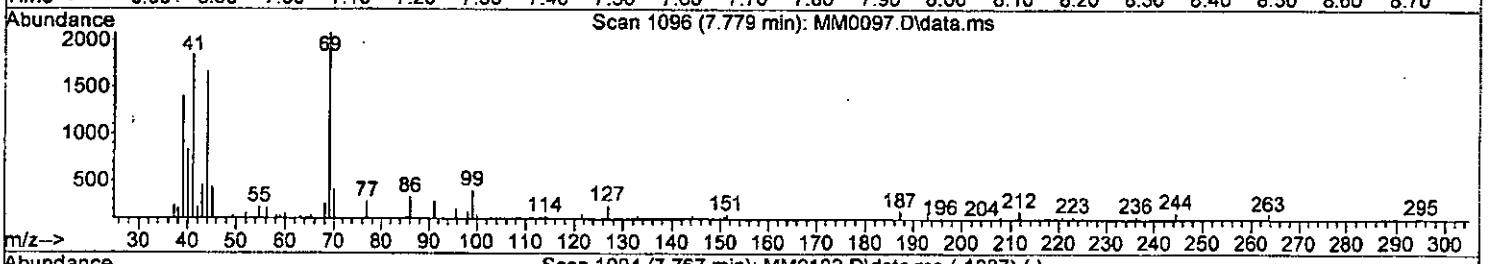
00097

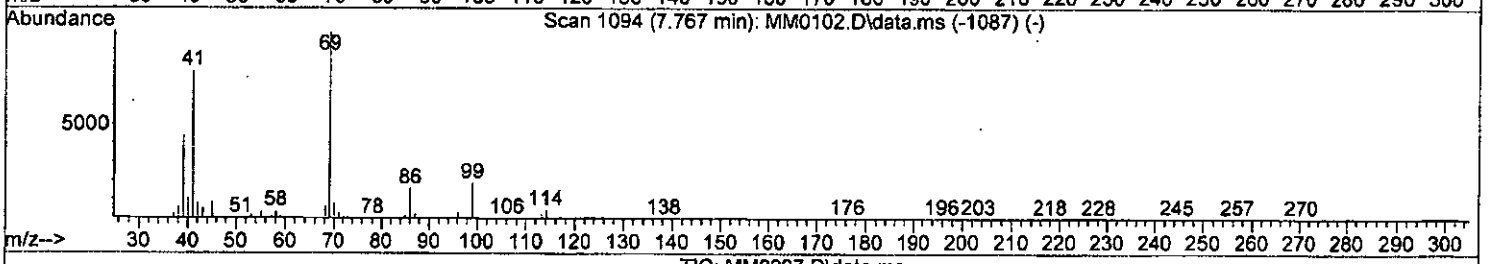
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(68) Ethyl Methacrylate

7.779min (+0.012) 0.35 ppb

response 2965

Ion	Exp%	Act%
69.00	100	100
41.00	79.20	88.65
0.00	0.00	0.00
0.00	0.00	0.00

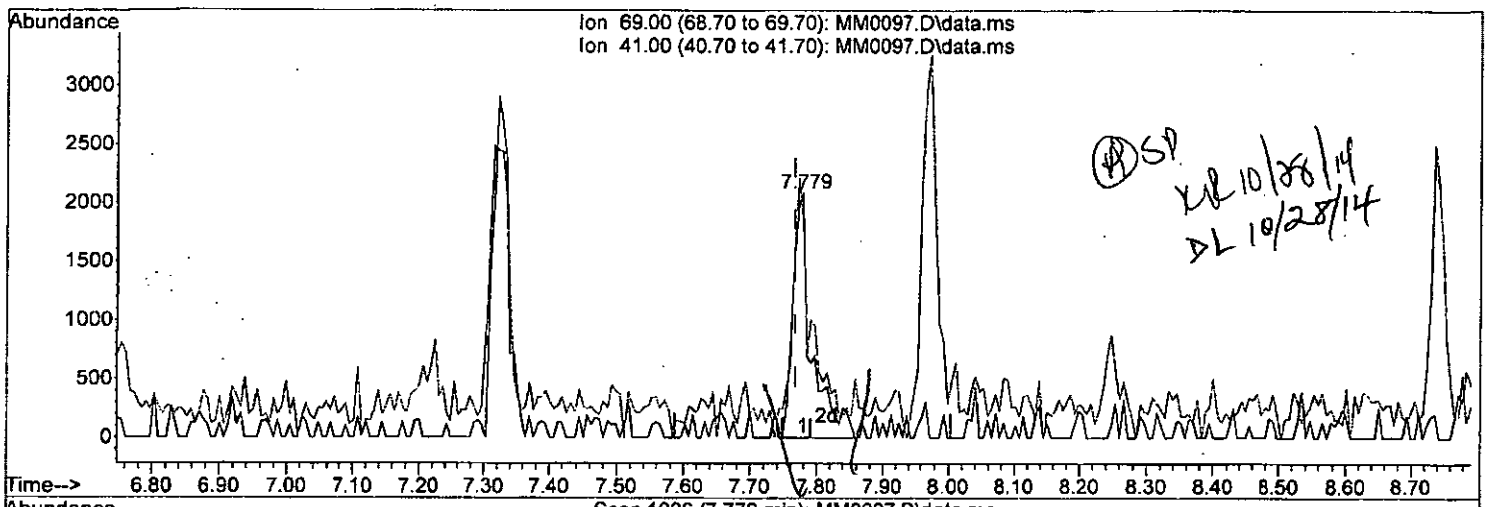
W102714.M Tue Oct 28 09:50:19 2014 Page: 1

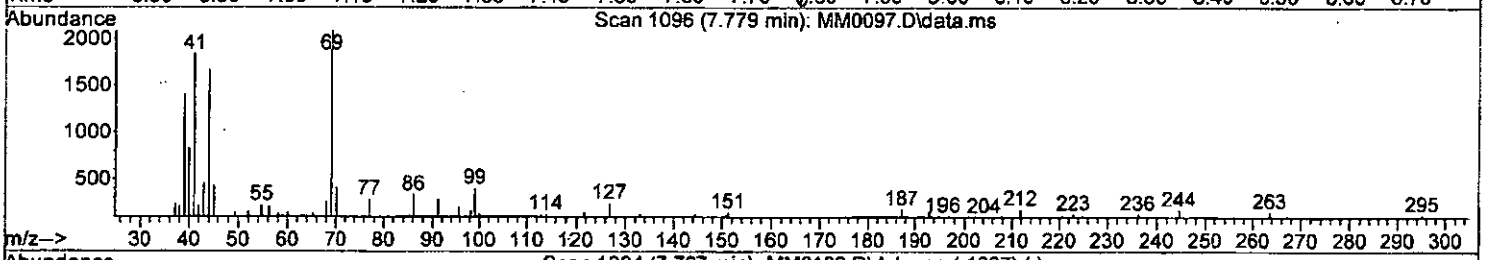
00098

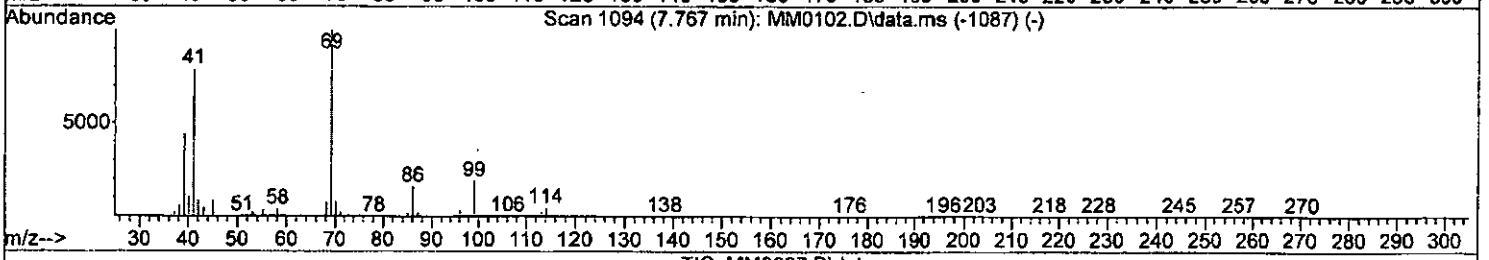
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(68) Ethyl Methacrylate

7.779min (+0.012) 0.48 ppb m

response 4089

Ion	Exp%	Act%
69.00	100	100
41.00	79.20	88.65
0.00	0.00	0.00
0.00	0.00	0.00

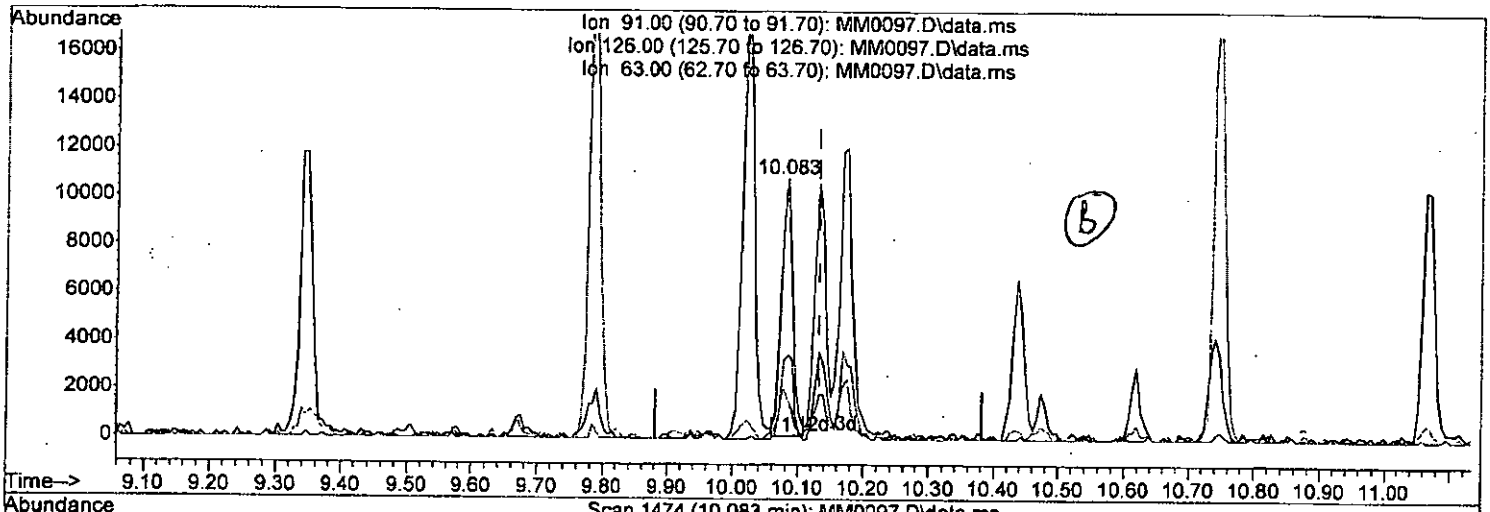
W102714.M Tue Oct 28 09:50:26 2014 Page: 1

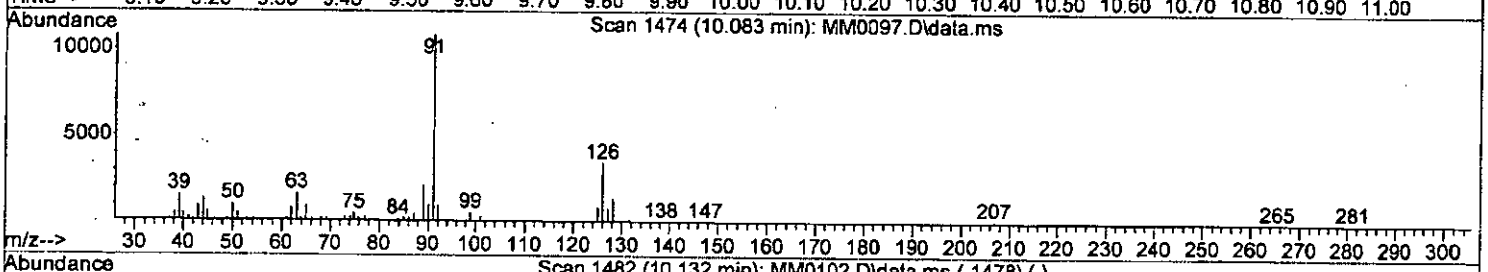
00099

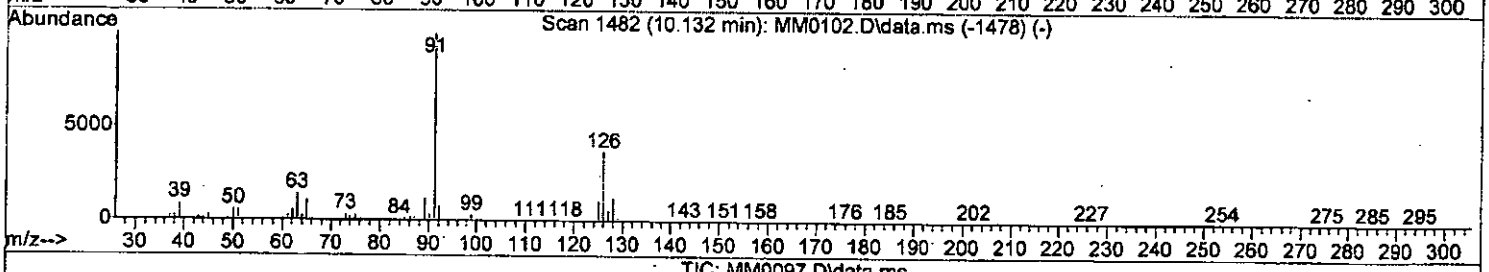
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(97) 3-Chlorotoluene

10.083min (-0.049) 0.50 ppb

response 12732

Ion	Exp%	Act%
91.00	100	100
126.00	36.90	32.15
63.00	14.00	15.10
0.00	0.00	0.00

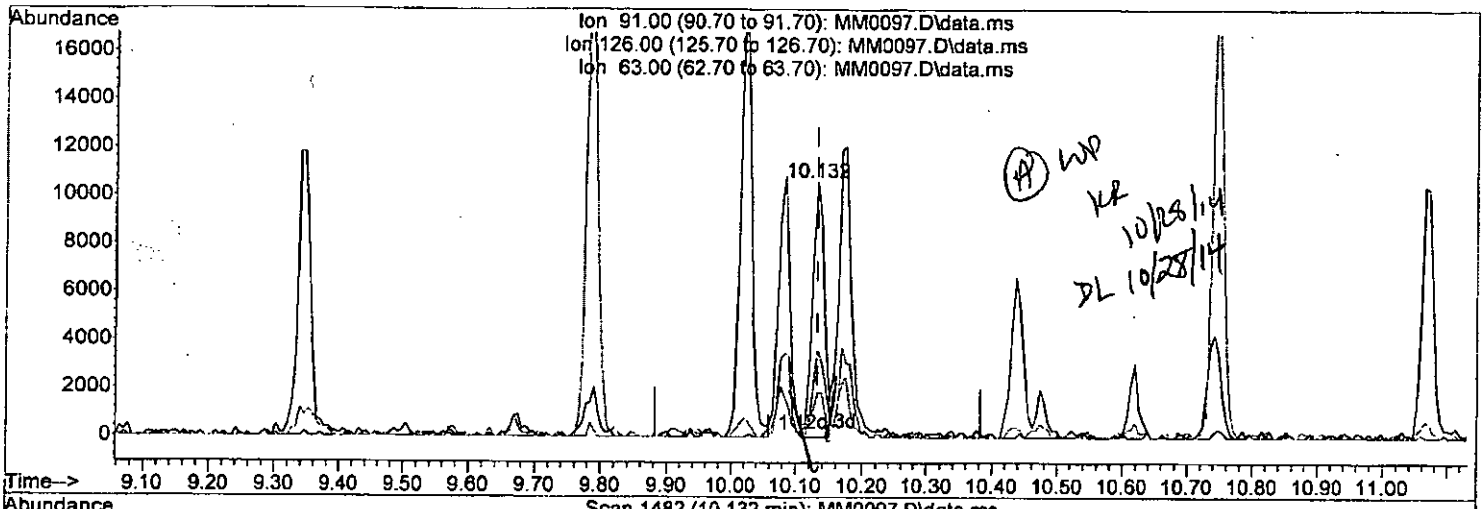
W102714.M Tue Oct 28 09:50:49 2014 Page: 1

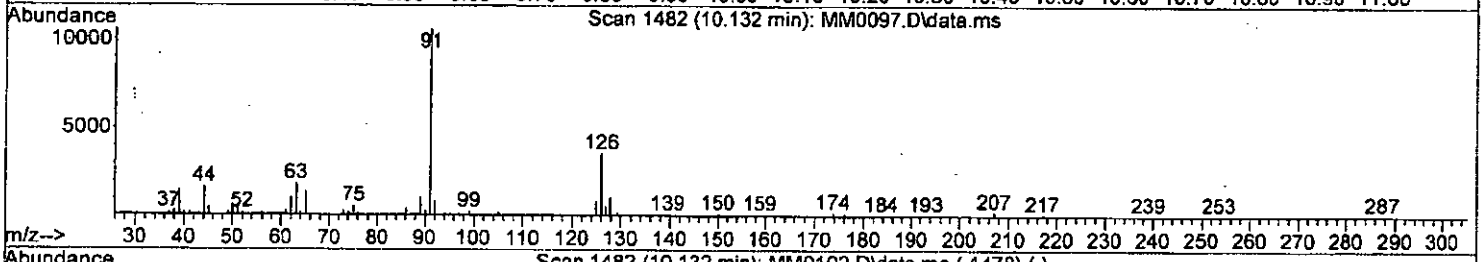
00100

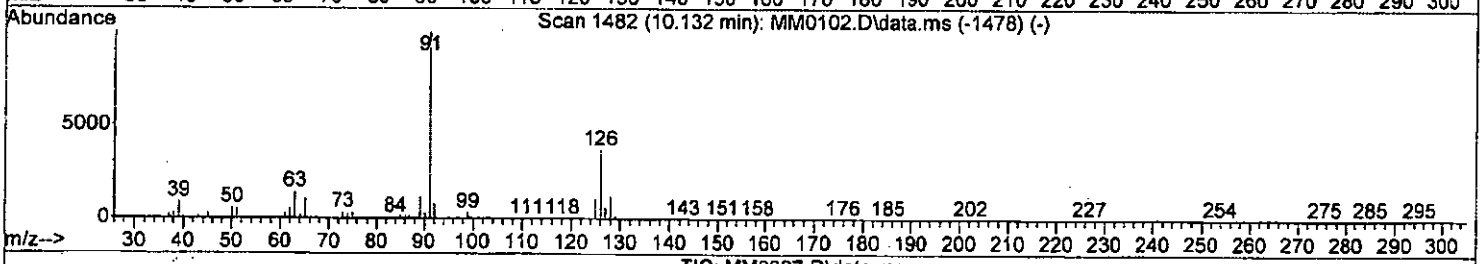
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(97) 3-Chlorotoluene

10.132min (-0.000) 0.51 ppb m

response 13099

Ion	Exp%	Act%
91.00	100	100
126.00	36.90	33.80
63.00	14.00	17.26#
0.00	0.00	0.00

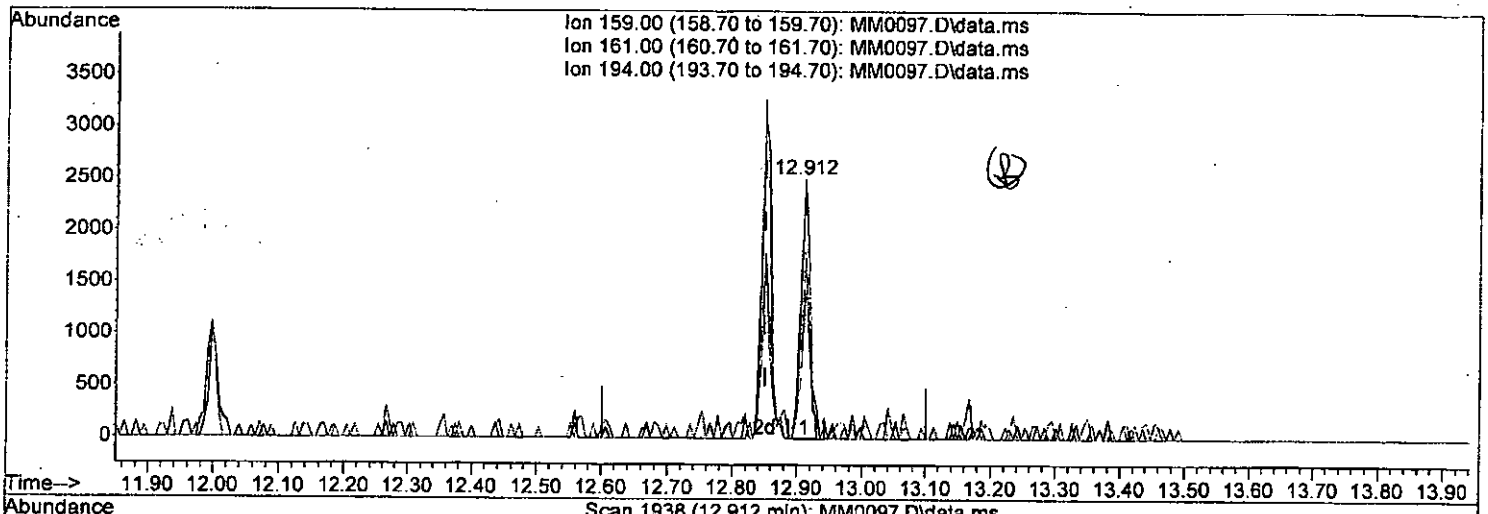
W102714.M Tue Oct 28 09:50:57 2014 Page: 1

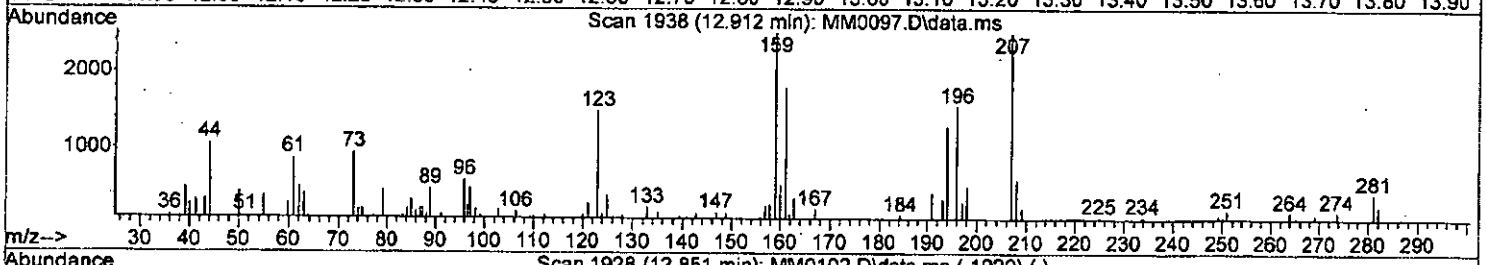
00101

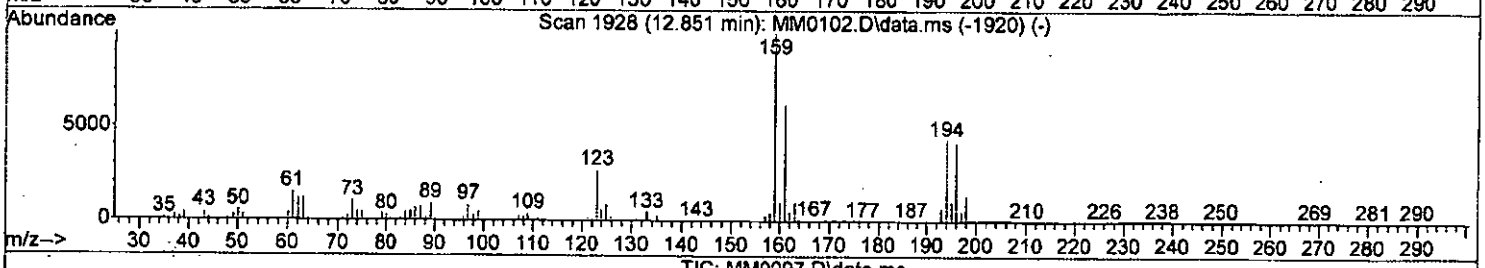
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(119) 2,4,5-Trichlorotolene

12.912min (+0.061) 0.45 ppb

response 2447

Ion	Exp%	Act%
159.00	100	100
161.00	62.10	71.92
194.00	43.70	51.62
0.00	0.00	0.00

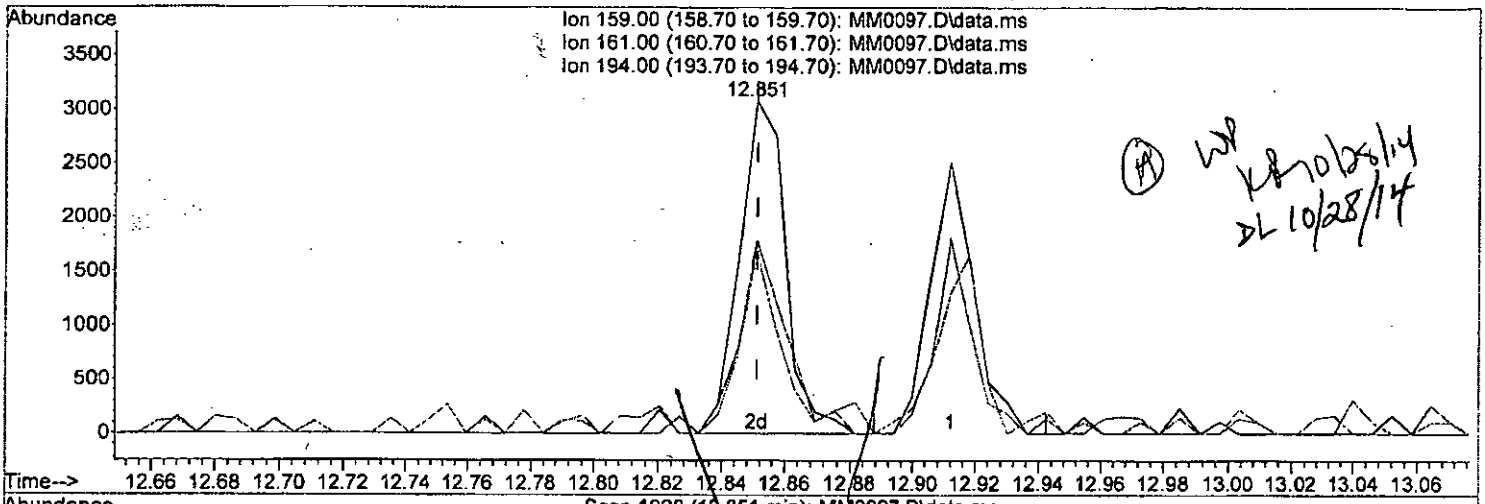
W102714.M Tue Oct 28 09:51:13 2014 Page: 1

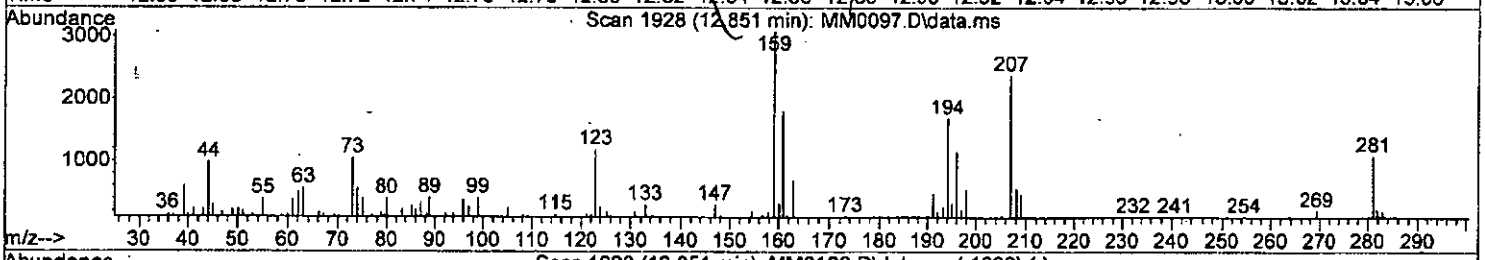
00102

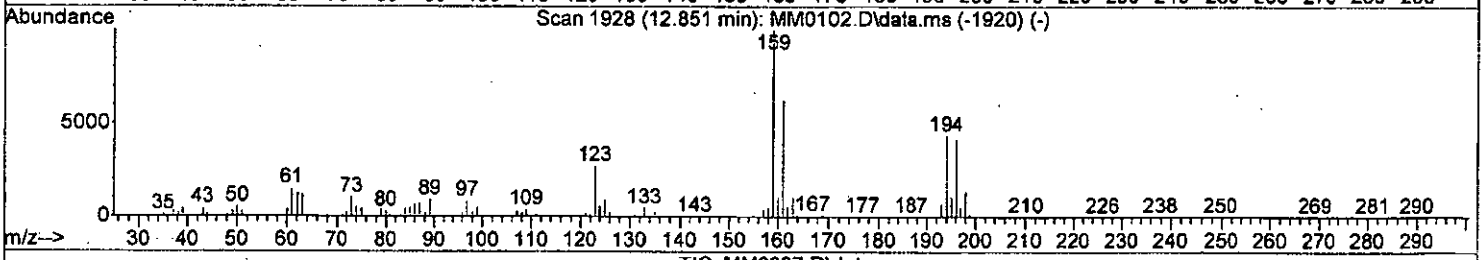
Quantitation Report (Qedit)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:25 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0097.D\data.ms

(119) 2,4,5-Trichlorotolene

12.851min (-0.000) 0.57 ppb m

response 3122

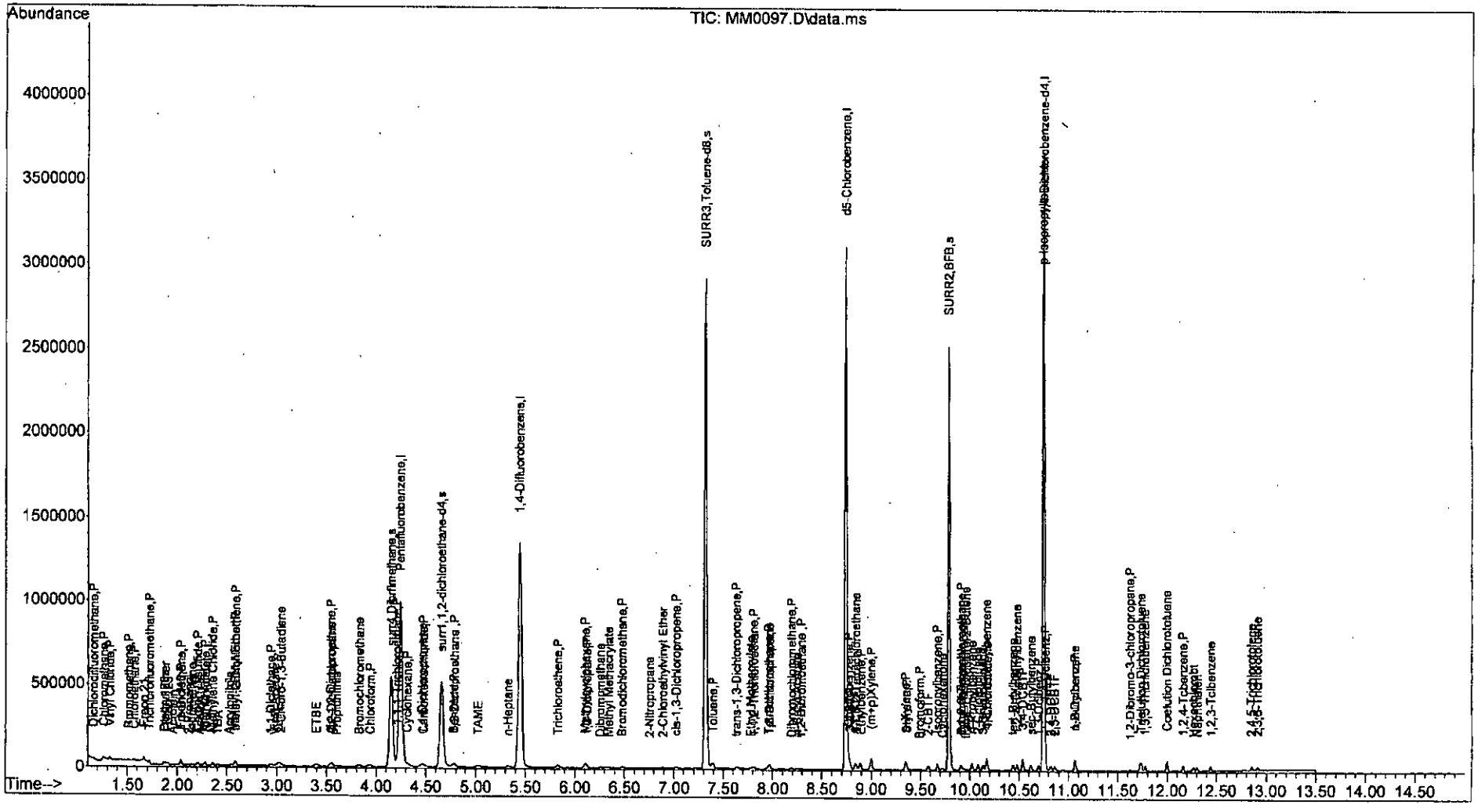
Ion	Exp%	Act%
159.00	100	100
161.00	62.10	58.22
194.00	43.70	54.78#
0.00	0.00	0.00

W102714.M Tue Oct 28 09:51:26 2014 Page: 1

Quantitation Report (QT Reviewed)

Sample : 0.5ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0097.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:13 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:51:19 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 09:51:41 2014 Page: 4

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:57:15 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.249	168	860124	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1311491	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1217171	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	632587	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	383041	50.15	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.30%				
48) surr1,1,2-dichloroetha...	4.658	65	483385	51.98	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 103.96%				
65) SURR3,Toluene-d8	7.322	98	1636322	50.89	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.78%				
70) SURR2,BFB	9.785	95	618958	49.61	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.22%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.158	85	7847	0.96	ppb		91
3) Chloromethane	1.262	50	11303	1.02	ppb		96
4) Vinyl Chloride	1.323	62	11576	0.98	ppb		95
5) Bromomethane	1.512	94	6066	1.06	ppb		87
6) Chloroethane	1.567	64	7621	1.04	ppb		92
7) Freon 21	1.664	67	19015	1.04	ppb		93
8) Trichlorofluoromethane	1.719	101	14485	1.03	ppb		92
9) Diethyl Ether	1.884	59	6415	1.01	ppb		95
10) Freon 123a	1.865	67	11000	1.09	ppb		94
11) Freon 123	1.902	83	10870	1.02	ppb		97
12) Acrolein	1.951	56	1870	5.34	ppb		99
13) 1,1-Diclethene	2.036	96	7605	1.02	ppb		97
14) Freon 113	2.036	101	8003	1.05	ppb		89
15) Acetone	2.048	43	2477	1.35	ppb		88
16) 2-Propanol	2.115	45	7008	19.40	ppb		79
17) Iodomethane	2.146	142	9677	0.90	ppb		100
18) Carbon Disulfide	2.207	76	25729	1.03	ppb		97
19) Acetonitrile	2.231	40	1061	3.66	ppb	#	89
20) Allyl Chloride	2.274	76	3751	0.89	ppb	#	44
21) Methyl Acetate	2.274	43	3784	0.90	ppb		90
22) Methylene Chloride	2.359	84	7931	0.98	ppb		94
23) TBA	2.408	59	10640	17.79	ppb		87
24) Acrylonitrile	2.530	53	9336	4.77	ppb	#	81
25) Methyl-t-Butyl Ether	2.579	73	20192	0.97	ppb		97
26) trans-1,2-Dichloroethene	2.585	96	7721	0.96	ppb		96
28) 1,1-Diclethane	2.938	63	16007	1.08	ppb		97
29) Vinyl Acetate	2.987	86	1442	1.07	ppb		98
30) DIPE	3.012	45	30404	1.01	ppb		88
31) 2-Chloro-1,3-Butadiene	3.036	53	14537	1.06	ppb		86
32) ETBE	3.396	59	26051	1.01	ppb		96
33) 2,2-Dichloropropane	3.554	77	14401	1.09	ppb		97
34) cis-1,2-Dichloroethene	3.548	96	8468	0.97	ppb	#	82
36) Propionitrile	3.615	54	3748m	5.33	ppb		
37) Bromochloromethane	3.835	130	5069m	1.03	ppb		
38) Methacrylonitrile	3.804	67	2051	0.94	ppb		97

KR 10/28/14

W102714.M Tue Oct 28 09:57:35 2014 Page: 1

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:57:15 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40)	Chloroform	3.932	83	16933	1.13	ppb		83
41)	1,1,1-Trichloroethane	4.206	97	13244	0.99	ppb	#	1
42)	TAME	5.011	73	22112	1.01	ppb		95
44)	Cyclohexane	4.316	41	9960m	1.03	ppb		
46)	Carbontetrachloride	4.463	121	3552	1.04	ppb	#	78
47)	1,1-Dichloropropene	4.469	75	11981	1.05	ppb		82
49)	Benzene	4.780	78	33510	1.00	ppb		97
50)	1,2-Dichloroethane	4.786	62	10972	0.97	ppb		88
51)	Iso-Butyl Alcohol	4.639	43	5279m	20.52	ppb		
52)	n-Heptane	5.334	43	12324	1.13	ppb		86
53)	1-Butanol	5.804	56	8386m	50.41	ppb		
54)	Trichloroethene	5.828	130	8277	0.94	ppb		90
55)	Methylcyclohexane	6.102	55	10834	0.96	ppb		93
56)	1,2-Diclpropane	6.109	63	9719	1.10	ppb		100
57)	Dibromomethane	6.261	93	3965	0.95	ppb	#	84
58)	1,4-Dioxane	6.383	88	1617m	24.42	ppb		
59)	Methyl Methacrylate	6.334	69	3835	0.95	ppb		95
60)	Bromodichloromethane	6.487	83	10660	1.02	ppb		95
61)	2-Nitropropane	6.749	41	2372	1.70	ppb		84
62)	2-Chloroethylvinyl Ether	6.889	63	3991	0.97	ppb		70
63)	cis-1,3-Dichloropropene	7.023	75	12867	0.99	ppb		89
64)	4-Methyl-2-pentanone	7.212	43	5944	0.99	ppb		86
66)	Toluene	7.395	91	36645	1.01	ppb		93
67)	trans-1,3-Dichloropropene	7.633	75	9447	0.85	ppb		74
68)	Ethyl Methacrylate	7.767	69	7350	0.86	ppb		93
69)	1,1,2-Trichloroethane	7.809	97	6026	0.99	ppb		90
72)	Tetrachloroethene	7.962	164	6906	0.99	ppb		97
73)	2-Hexanone	8.090	43	4246m	1.05	ppb		
74)	1,3-Dichloropropane	7.974	76	9936	0.91	ppb		93
75)	Dibromochloromethane	8.187	129	5814	0.89	ppb		96
76)	N-Butyl Acetate	8.242	43	9572	0.92	ppb		97
77)	1,2-Dibromoethane	8.285	107	5233	0.92	ppb		95
78)	Chlorobenzene	8.773	112	22554	0.96	ppb		96
79)	3-CBTF	8.785	180	12193	0.94	ppb		93
80)	4-CBTF	8.840	180	11014	0.95	ppb		91
81)	1,1,1,2-Tetrachloroethane	8.852	131	6543	0.84	ppb		89
82)	Ethylbenzene	8.888	106	12315	0.97	ppb		94
83)	(m+p)Xylene	8.998	106	29838	1.94	ppb		95
84)	o-Xylene	9.346	106	14690	0.95	ppb		89
85)	Styrene	9.358	104	22057	0.86	ppb		98
87)	Bromoform	9.498	173	2741	0.87	ppb		88
88)	2-CBTF	9.577	180	11979	1.08	ppb		96
89)	Isopropylbenzene	9.669	105	36500	1.08	ppb		98
90)	Cyclohexanone	9.724	55	9065	24.44	ppb		93
91)	trans-1,4-Dichloro-2-B...	9.961	53	2017	0.99	ppb	#	72
92)	1,1,2,2-Tetrachloroethane	9.913	83	6962	1.06	ppb		98
93)	Bromobenzene	9.913	156	9111	1.02	ppb		92
94)	1,2,3-Trichloropropane	9.943	110	2208	1.11	ppb	#	85
95)	n-Propylbenzene	10.022	91	40630	1.04	ppb		98
96)	2-Chlorotoluene	10.077	91	24939	1.05	ppb		93
97)	3-Chlorotoluene	10.132	91	26550	1.05	ppb		97
98)	4-Chlorotoluene	10.175	91	30536	1.03	ppb		97

W102714.M Tue Oct 28 09:57:35 2014 Page: 2

00106

Quantitation Report (QT Reviewed)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:57:15 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	1,3,5-Trimethylbenzene	10.169	105	30162	1.03	ppb		97
100)	tert-Butylbenzene	10.437	119	23711	1.00	ppb		99
101)	1,2,4-Trimethylbenzene	10.480	105	30367	1.06	ppb		98
102)	3,4-DCBTF	10.535	214	7786	0.93	ppb		94
103)	sec-Butylbenzene	10.620	105	35355	1.06	ppb		95
104)	p-Isopropyltoluene	10.742	119	29069	1.01	ppb		90
105)	1,3-Dclbenz	10.699	146	17670	1.04	ppb		91
106)	1,4-Dclbenz	10.766	146	19271	1.08	ppb		94
107)	2,4-DCBTF	10.821	214	6940	0.96	ppb		94
108)	2,5-DCBTF	10.858	214	8873	1.09	ppb		90
109)	n-Butylbenzene	11.065	91	25525	1.00	ppb		91
110)	1,2-Dclbenz	11.065	146	16281	1.02	ppb		93
111)	1,2-Dibromo-3-chloropr...	11.620	157	1069	0.97	ppb		91
112)	Trielution Dichlorotol...	11.729	125	40701	3.10	ppb		92
113)	1,3,5 Trichlorobenzene	11.778	180	11344	1.03	ppb		90
114)	Coelution Dichlorotoluene	11.998	125	27433	2.00	ppb		92
115)	1,2,4-Tcbenzene	12.162	180	8329	0.89	ppb		90
116)	Hexachlorobt	12.266	225	3927	1.06	ppb	#	80
117)	Naphthalen	12.302	128	17097	0.96	ppb		94
118)	1,2,3-Tclbenzene	12.437	180	9046	1.14	ppb		80
119)	2,4,5-Trichlorotolene	12.851	159	5230m	0.97	ppb		
120)	2,3,6-Trichlorotoluene	12.912	159	5666	1.14	ppb		93

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

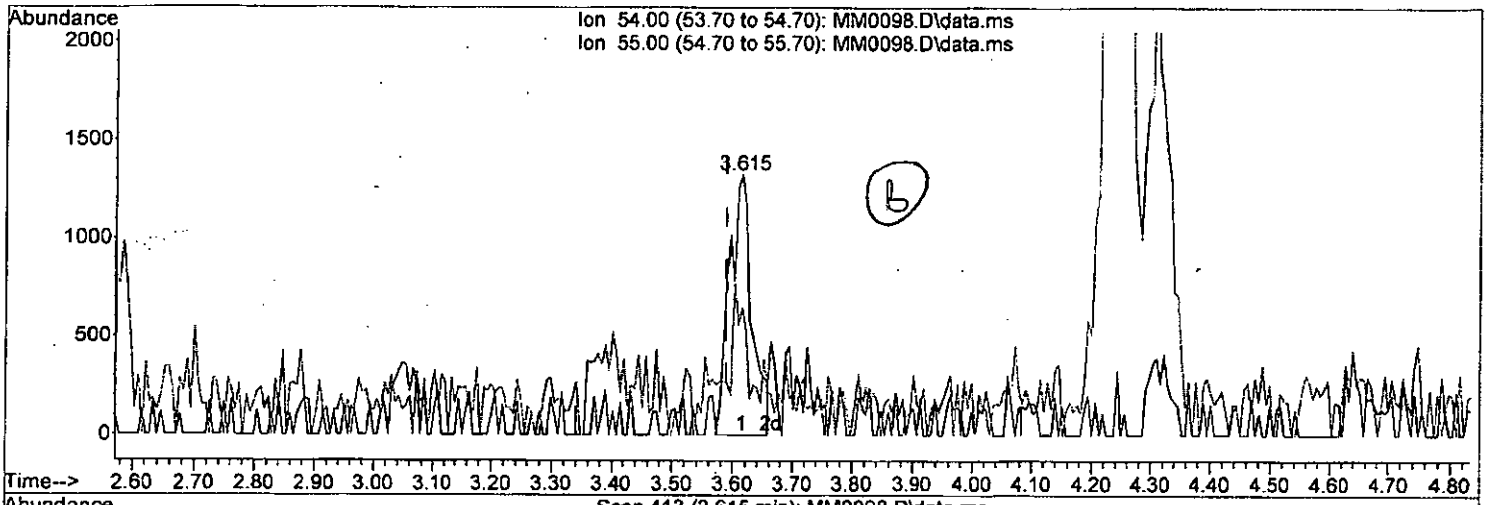
W102714.M Tue Oct 28 09:57:35 2014 Page: 3

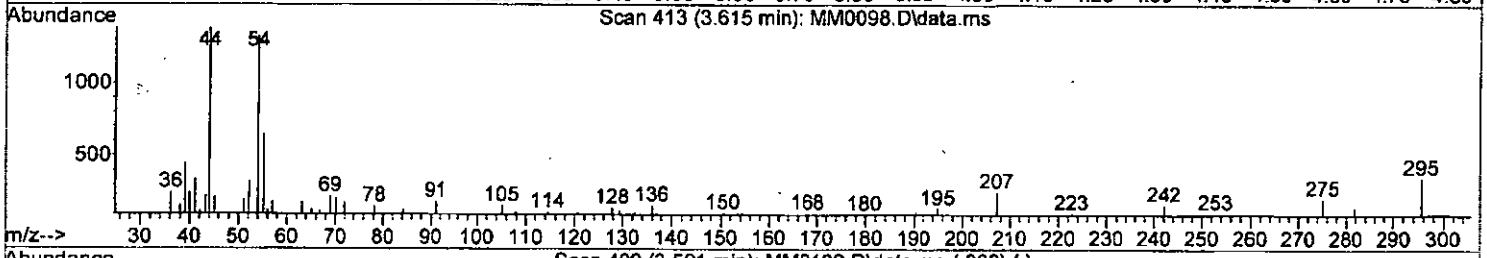
00107

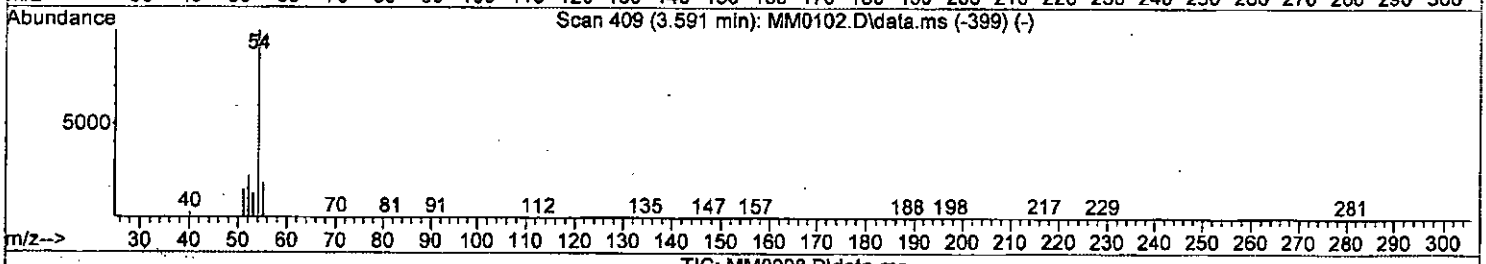
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(36) Propionitrile

3.615min (+0.025) 4.83 ppb

response 3396

Ion	Exp%	Act%
54.00	100	100
55.00	18.80	49.02#
0.00	0.00	0.00
0.00	0.00	0.00

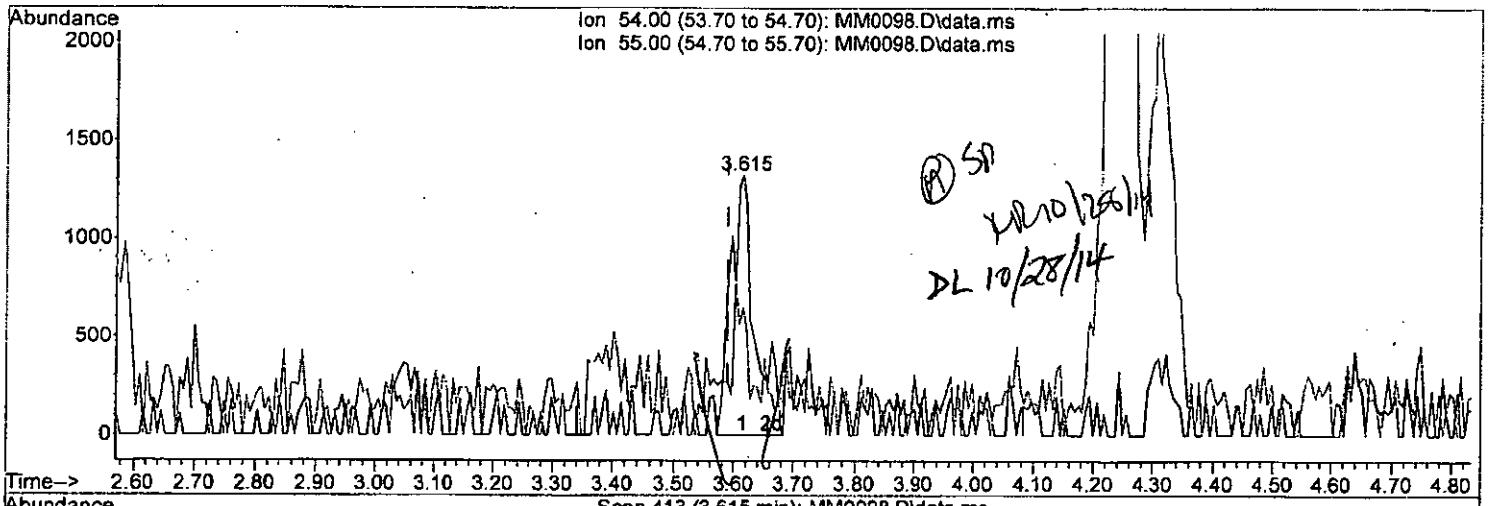
W102714.M Tue Oct 28 09:53:50 2014 Page: 1

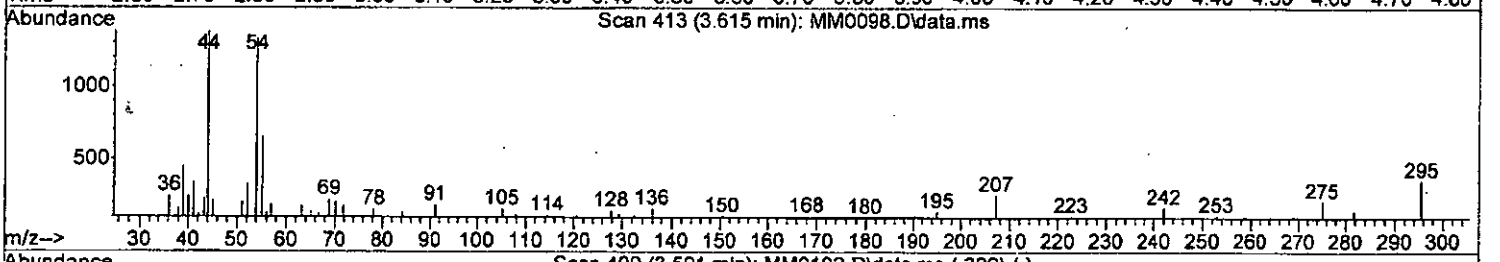
00108

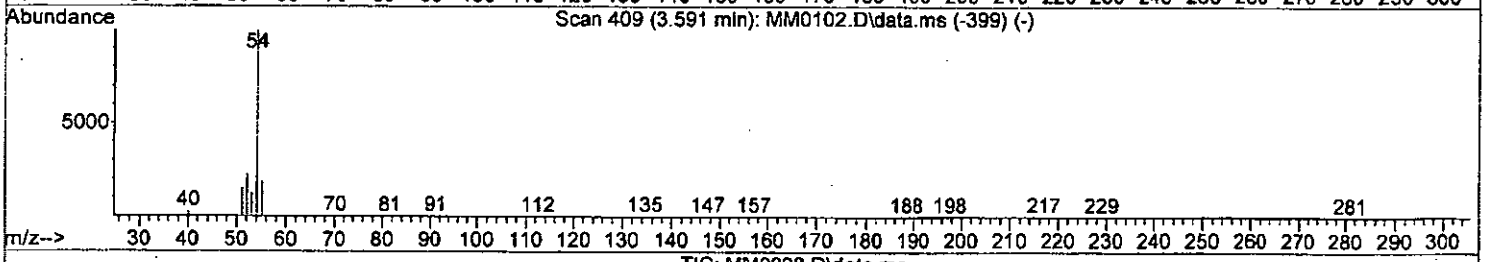
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(36) Propionitrile

3.615min (+0.025) 5.33 ppb m

response 3748

Ion	Exp%	Act%
54.00	100	100
55.00	18.80	49.02#
0.00	0.00	0.00
0.00	0.00	0.00

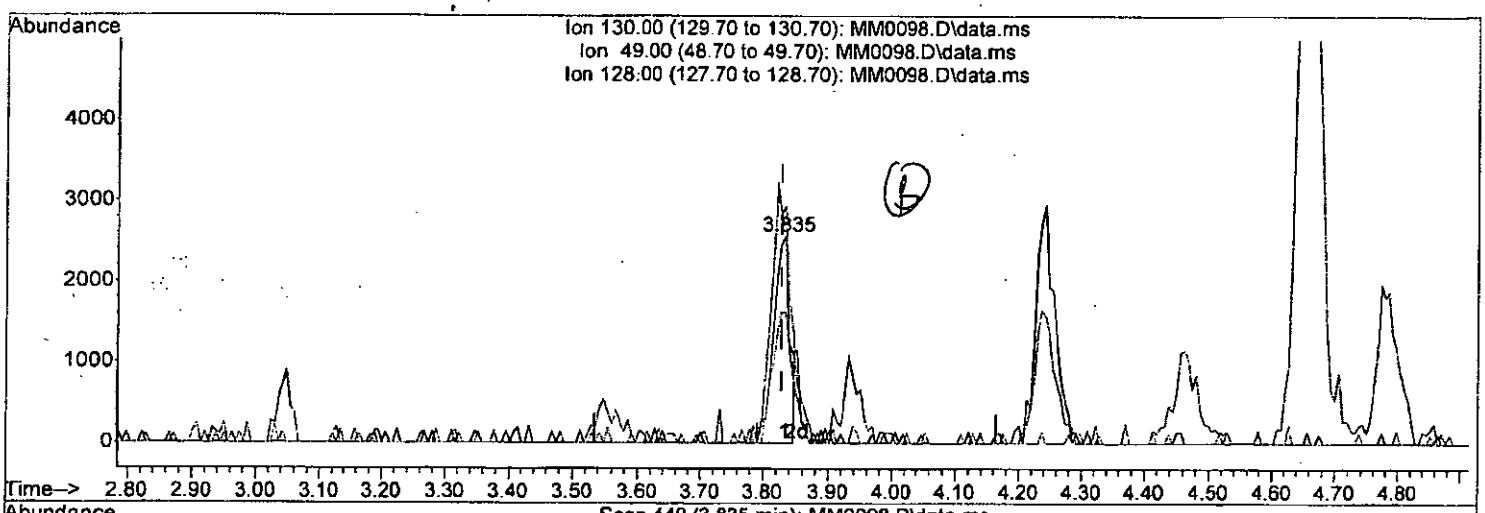
W102714.M Tue Oct 28 09:53:58 2014 Page: 1

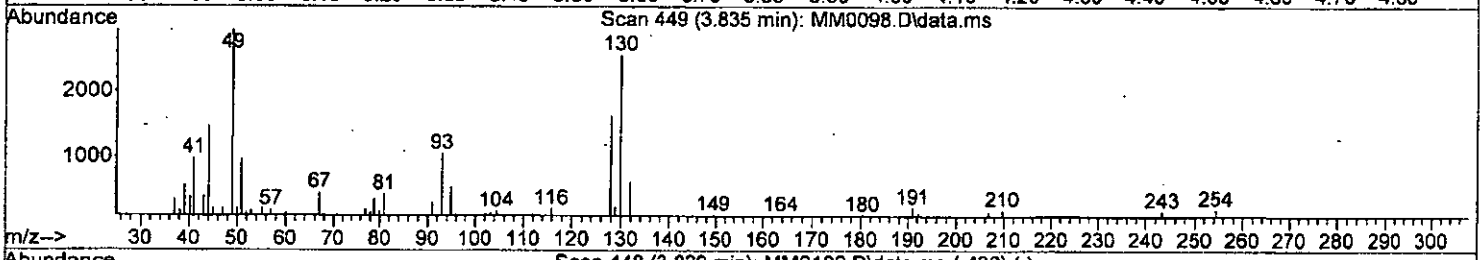
00109

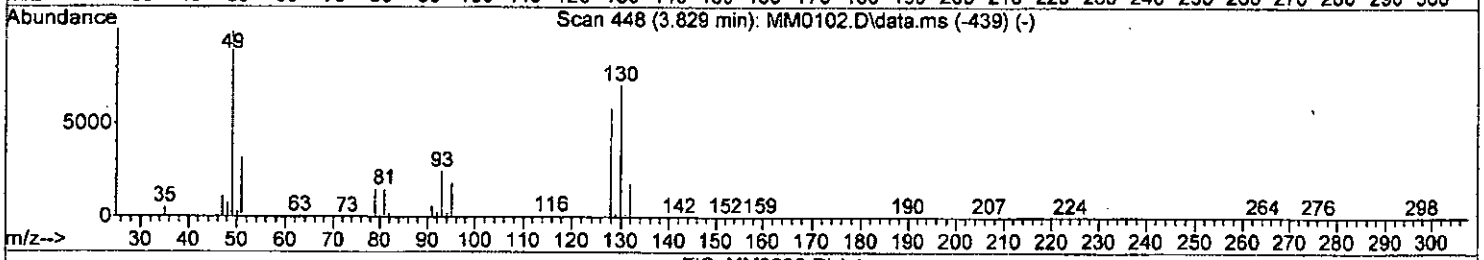
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(37) Bromochloromethane

3.835min (+0.006) 0.90 ppb

response 4442

Ion	Exp%	Act%
130.00	100	100
49.00	141.80	114.65#
128.00	81.80	63.35
0.00	0.00	0.00

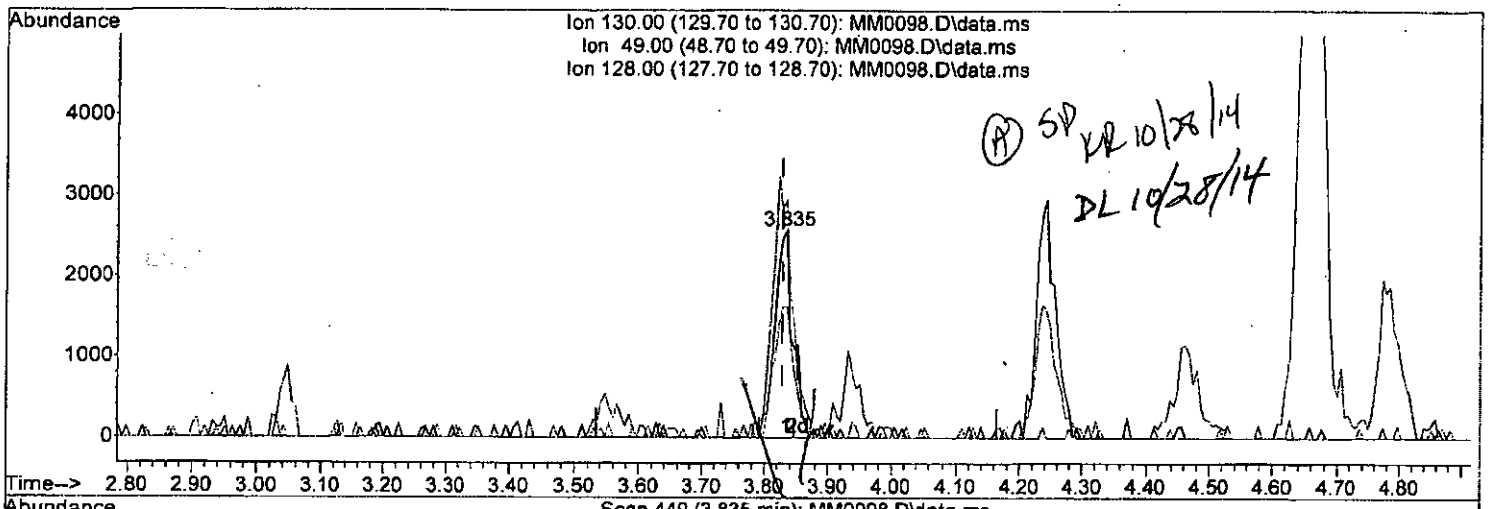
W102714.M Tue Oct 28 09:54:03 2014 Page: 1

00110

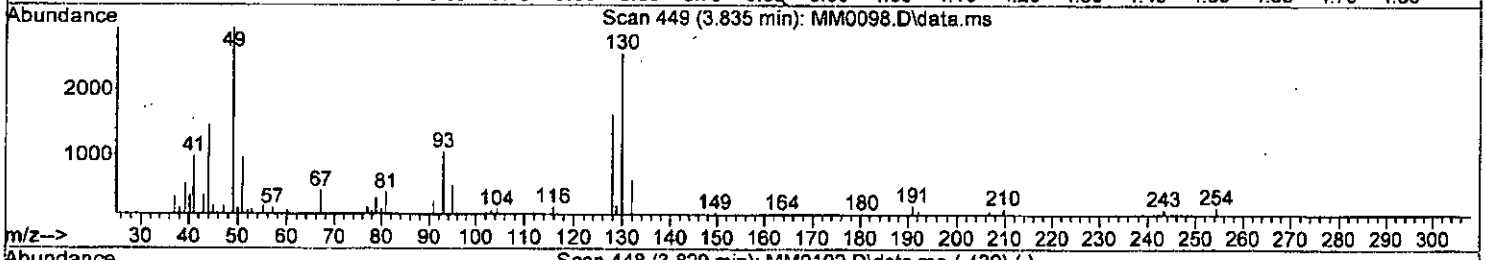
Quantitation Report (Qedit)

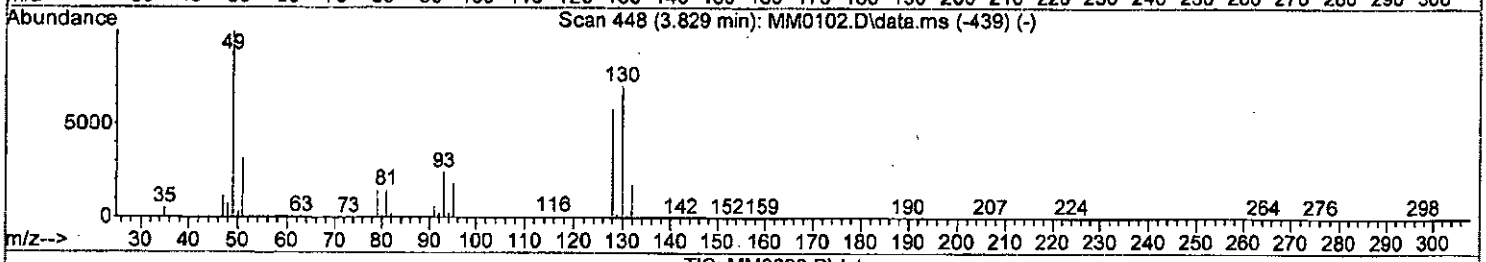
Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



(A) SD KR 10/28/14
DL 10/28/14





TIC: MM0098.D\data.ms

(37) Bromochloromethane

3.835min (+0.006) 1.03 ppb m

response 5069

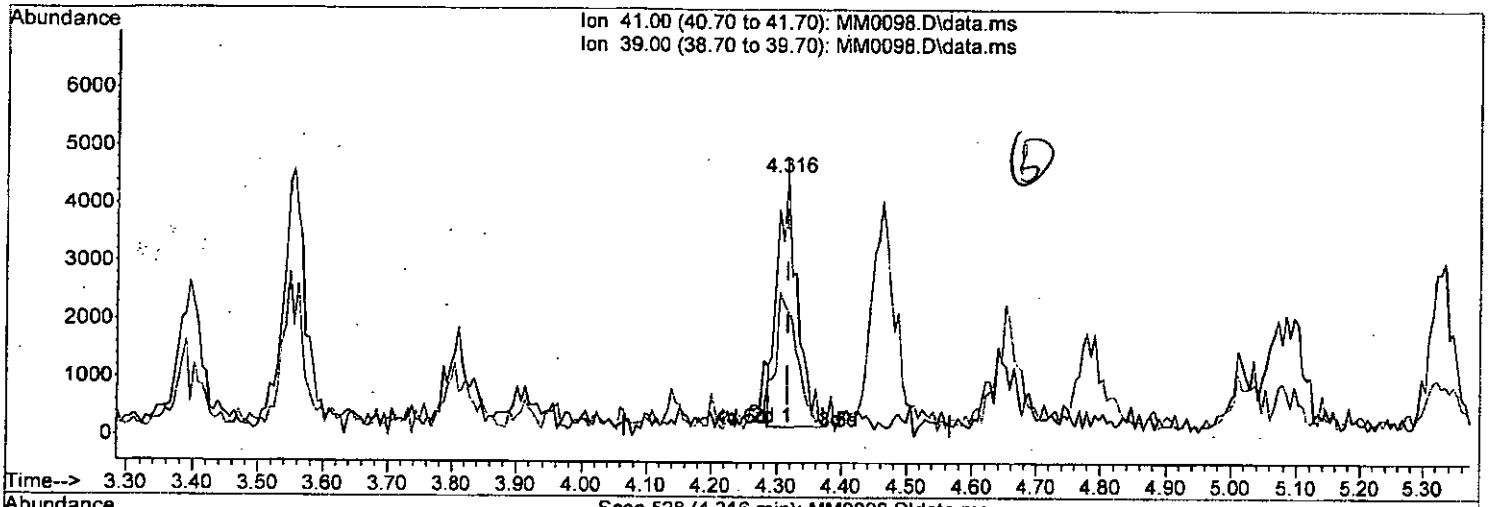
Ion	Exp%	Act%
130.00	100	100
49.00	141.80	114.65#
128.00	81.80	63.35
0.00	0.00	0.00

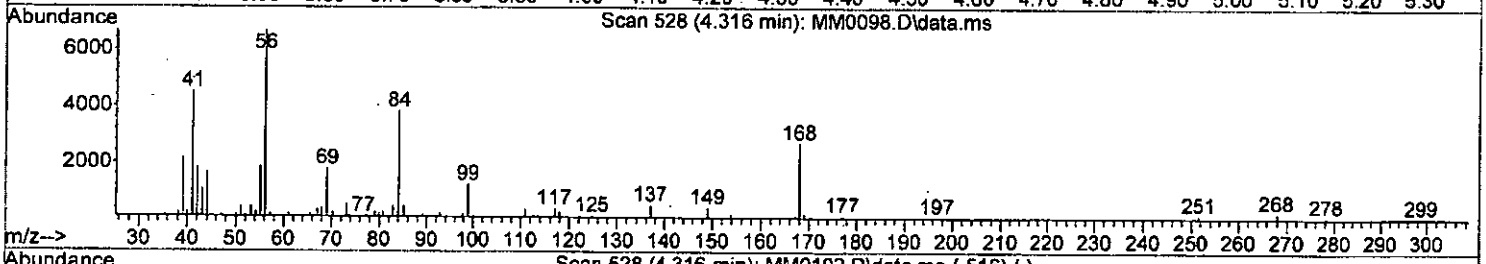
W102714.M Tue Oct 28 09:54:09 2014 Page: 1

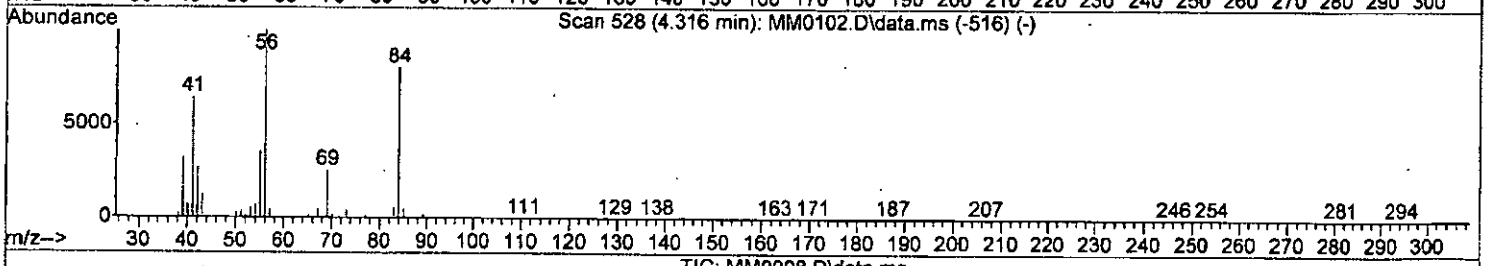
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(44) Cyclohexane (P)

4.316min (-0.000) 0.94 ppb

response 9065

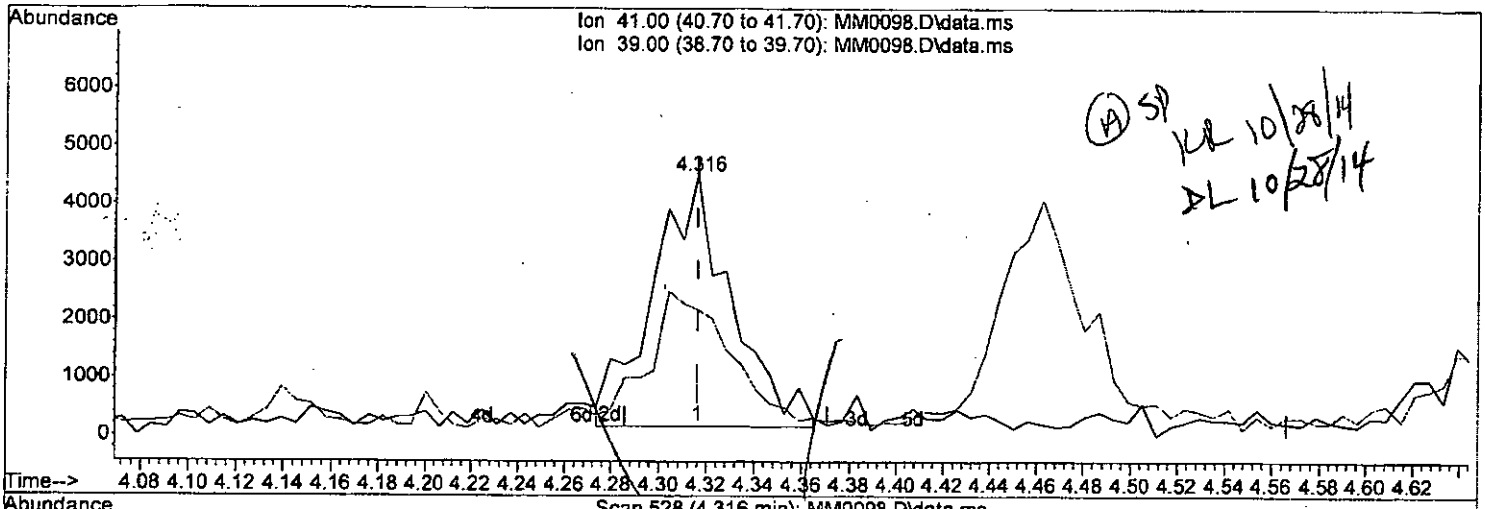
Ion	Exp%	Act%
41.00	100	100
39.00	49.70	48.32
0.00	0.00	0.00
0.00	0.00	0.00

W102714.M Tue Oct 28 09:54:28 2014 Page: 1

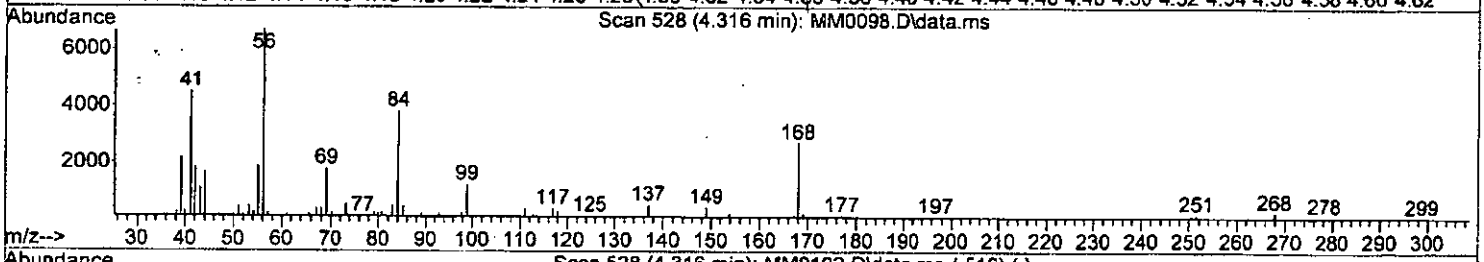
Quantitation Report (Qedit)

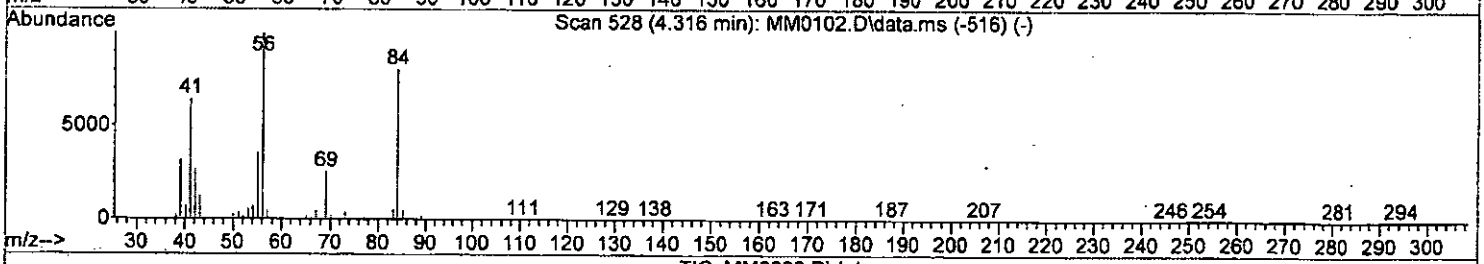
Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



(A) SP KL 10/28/14 DL 10/28/14





TIC: MM0098.D\data.ms

(44) Cyclohexane (P)

4.316min (-0.000) 1.03 ppb m

response 9960

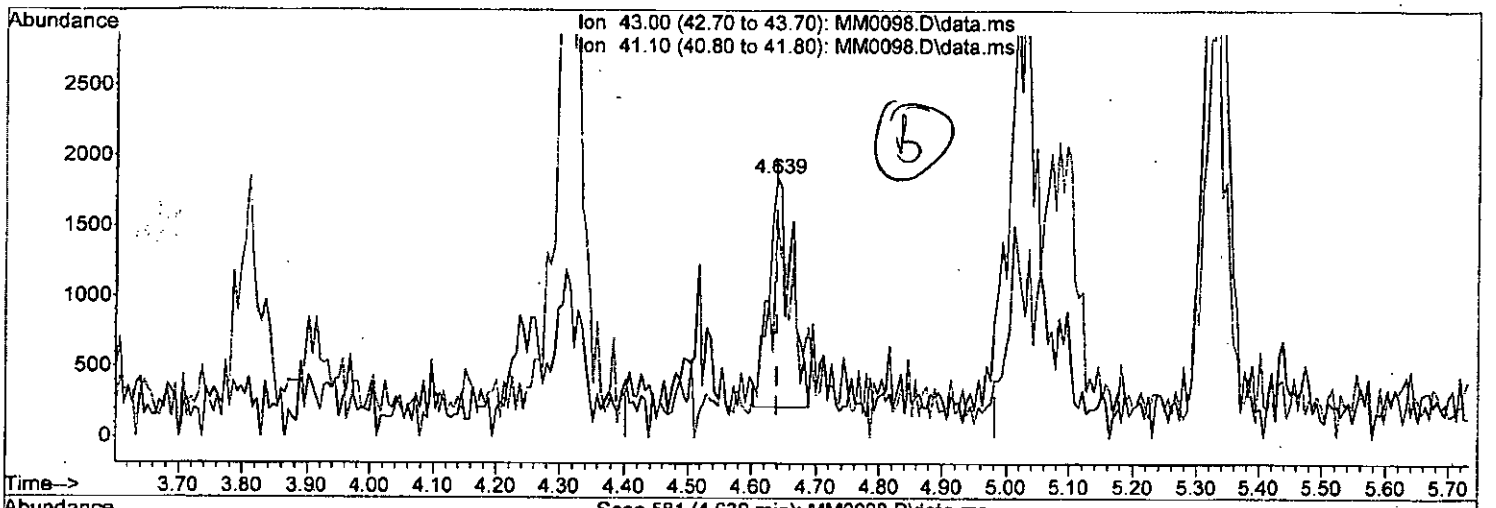
Ion	Exp%	Act%
41.00	100	100
39.00	49.70	48.32
0.00	0.00	0.00
0.00	0.00	0.00

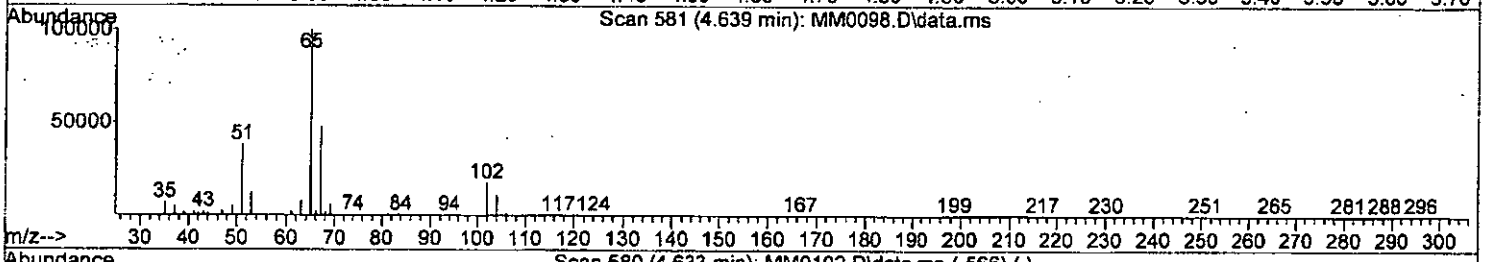
W102714.M Tue Oct 28 09:55:05 2014 Page: 1

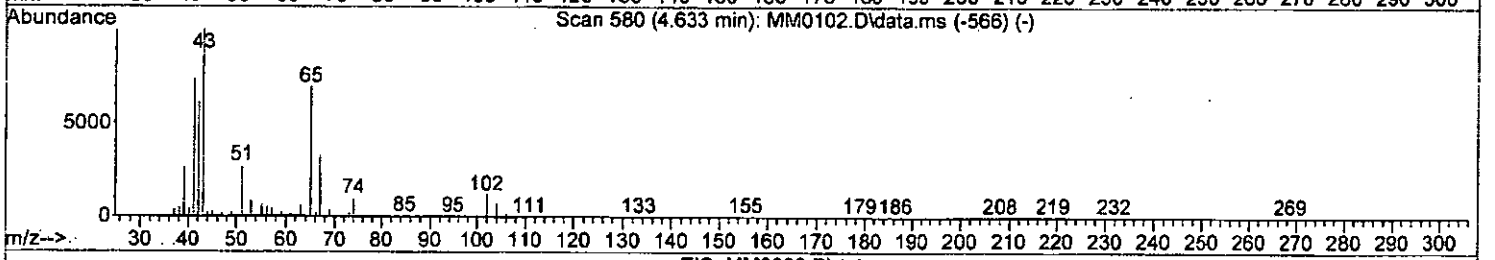
Quantitation Report (Qual)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(51) Iso-Butyl Alcohol

4.639min (+0.000) 15.10 ppb

response 3885

Ion	Exp%	Act%
43.00	100	100
41.10	73.90	84.01
0.00	0.00	0.00
0.00	0.00	0.00

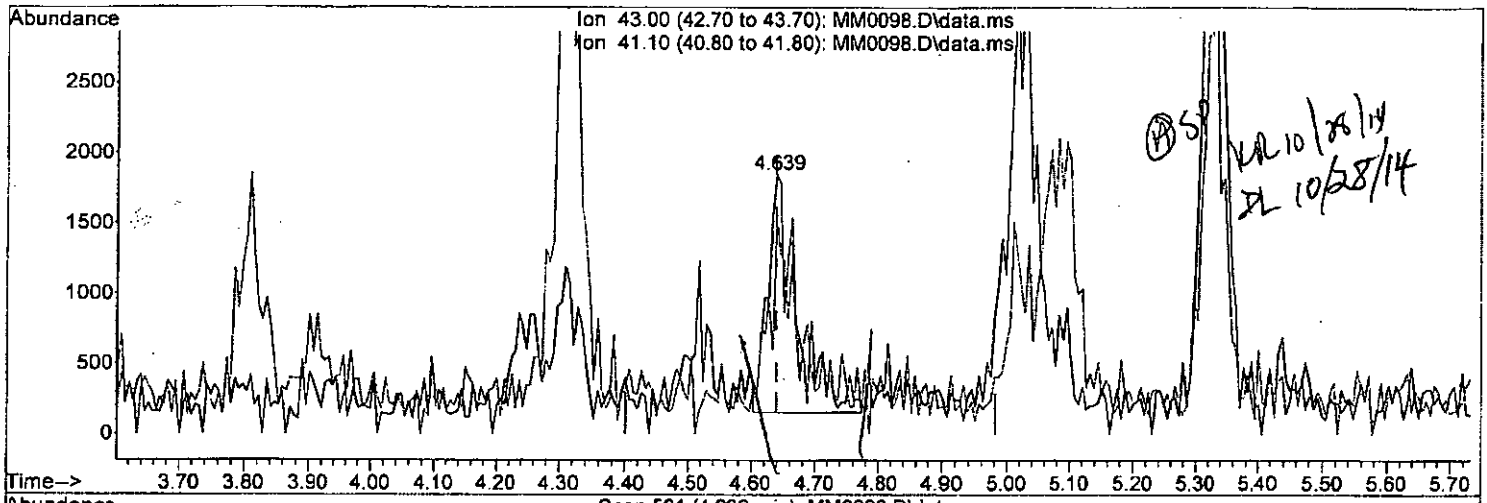
W102714.M Tue Oct 28 09:55:20 2014 Page: 1

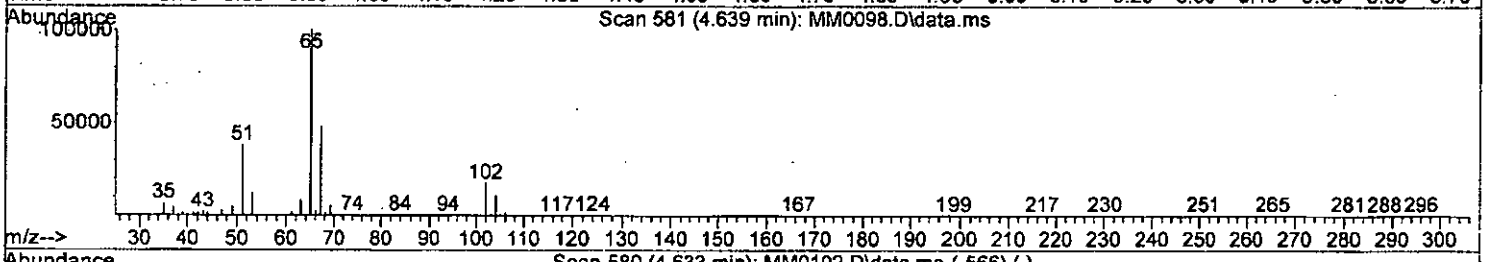
00114

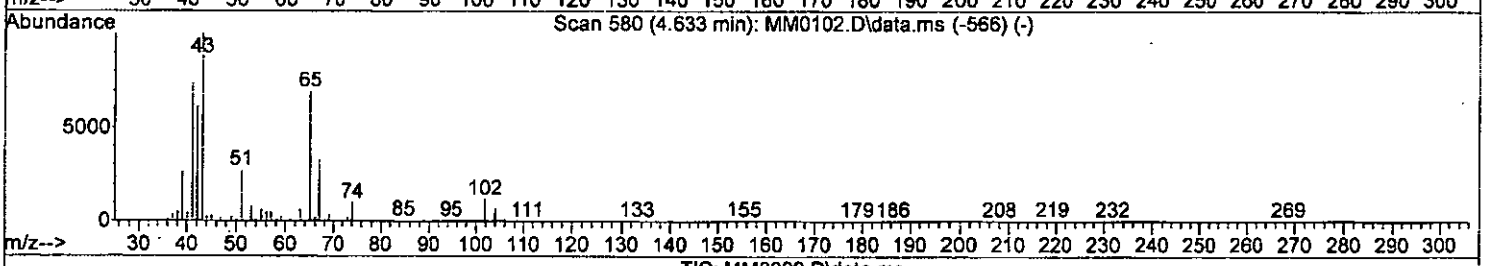
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(51) Iso-Butyl Alcohol

4.639min (+0.000) 20.52 ppb m

response 5279

Ion	Exp%	Act%
43.00	100	100
41.10	73.90	84.01
0.00	0.00	0.00
0.00	0.00	0.00

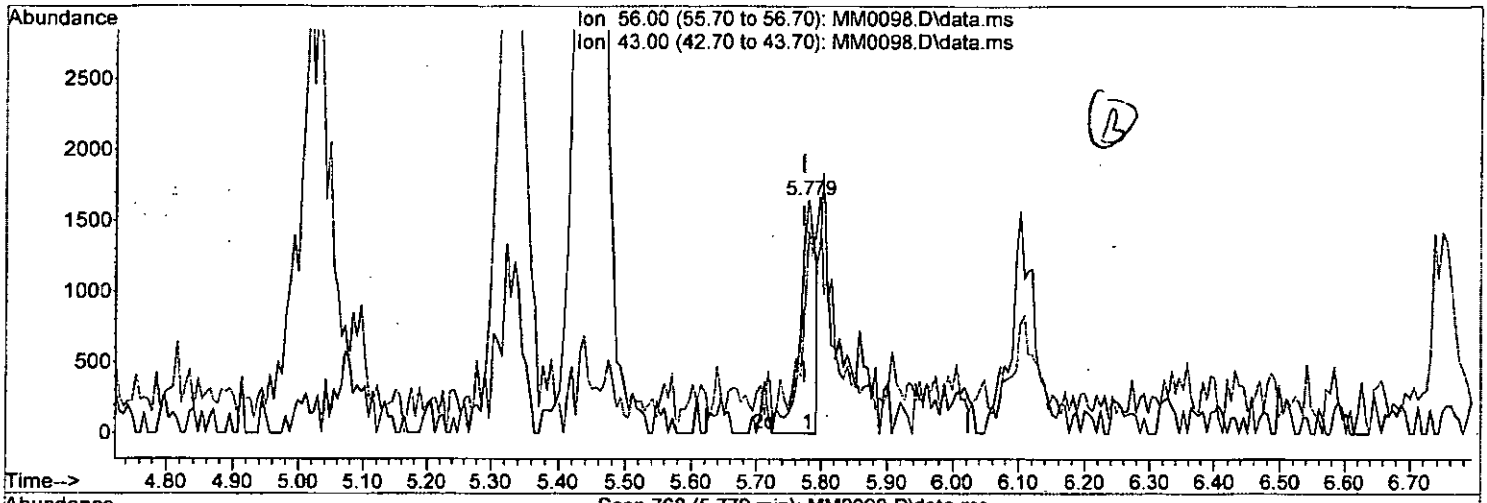
W102714.M Tue Oct 28 09:55:41 2014 Page: 1

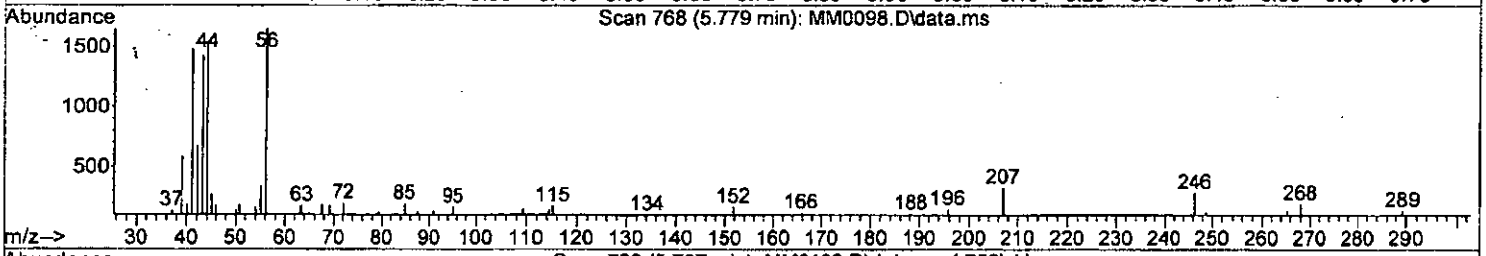
00115

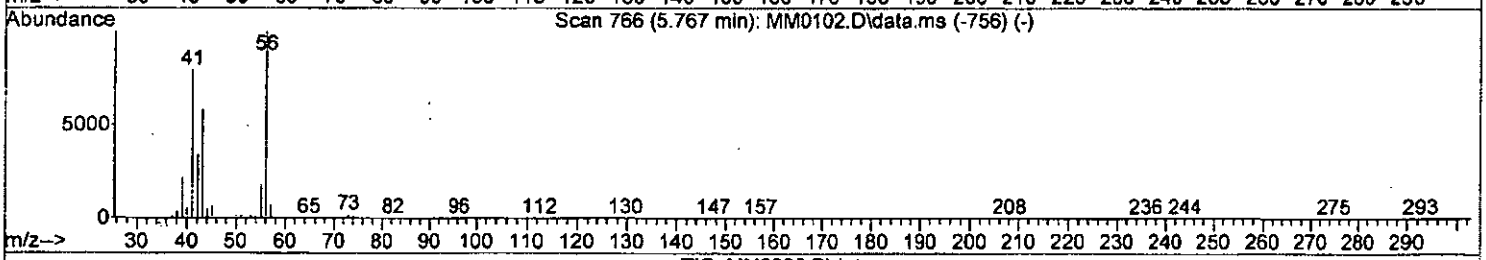
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(53) 1-Butanol

5.779min (+0.006) 16.21 ppb

response 2697

Ion	Exp%	Act%
56.00	100	100
43.00	56.20	151.98#
0.00	0.00	0.00
0.00	0.00	0.00

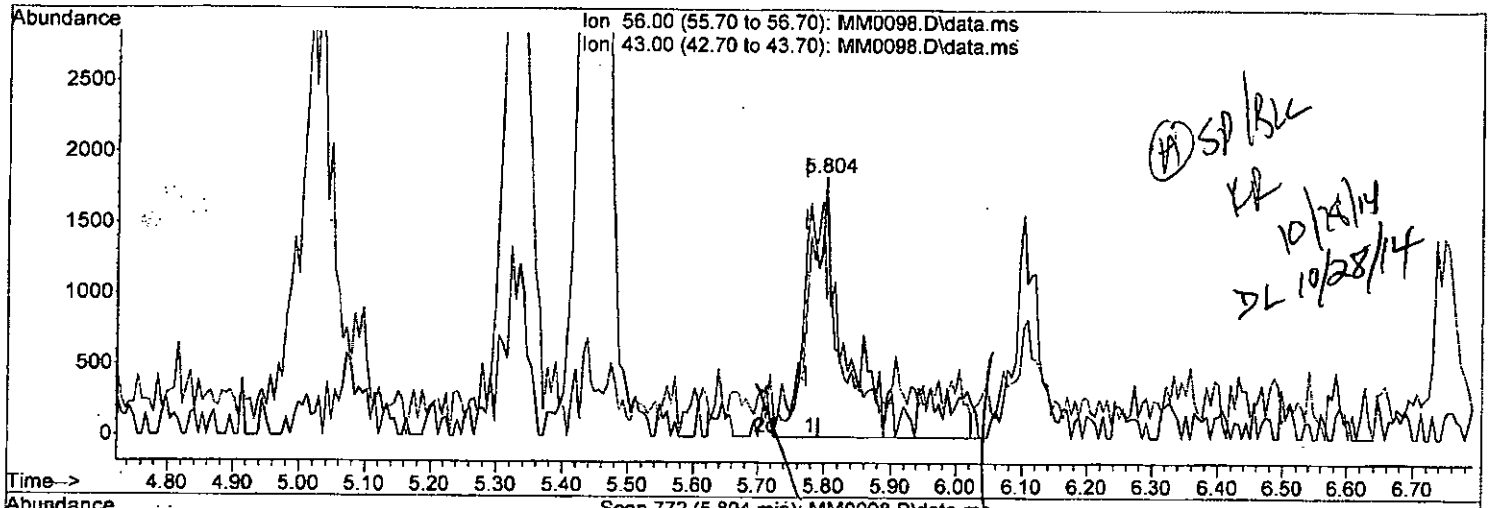
W102714.M Tue Oct 28 09:55:47 2014 Page: 1

00116

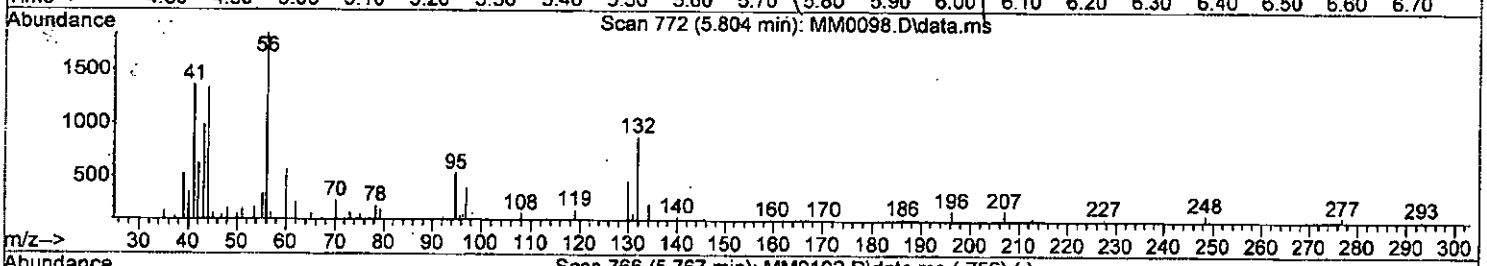
Quantitation Report (Qedit)

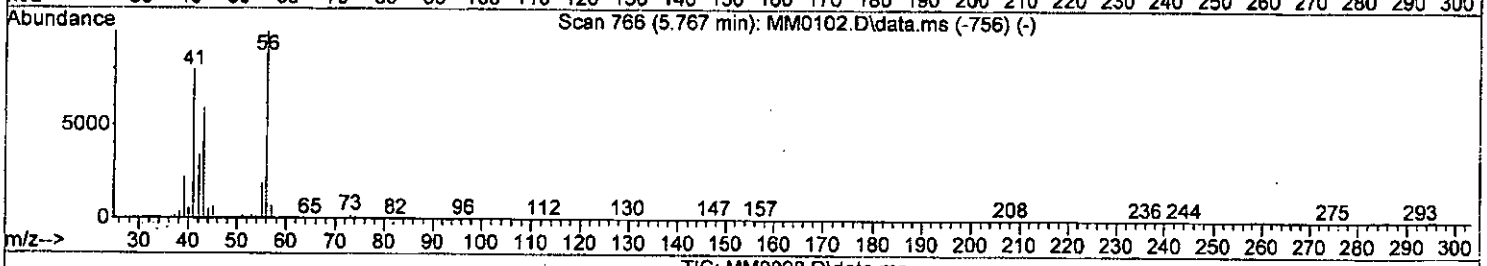
Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



(#) SP/BLC
KR 10/28/14
DL 10/28/14





TIC: MM0098.D\data.ms

(53) 1-Butanol

5.804min (+0.031) 50.41 ppb m

response 8386

Ion	Exp%	Act%
56.00	100	100
43.00	56.20	48.88
0.00	0.00	0.00
0.00	0.00	0.00

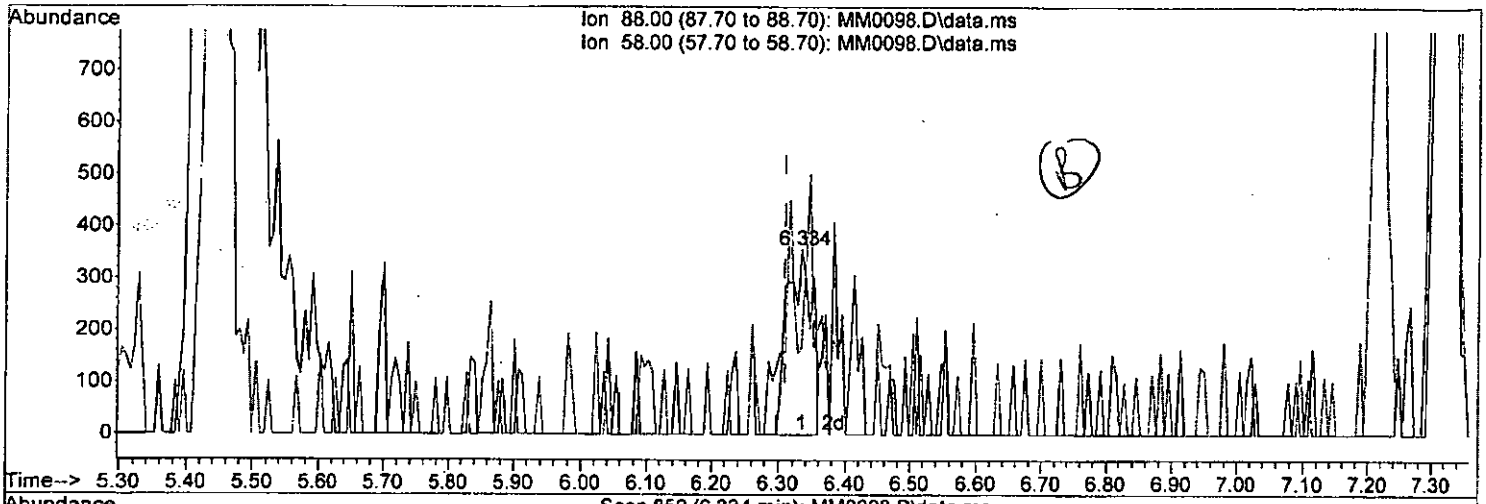
W102714.M Tue Oct 28 09:55:57 2014 Page: 1

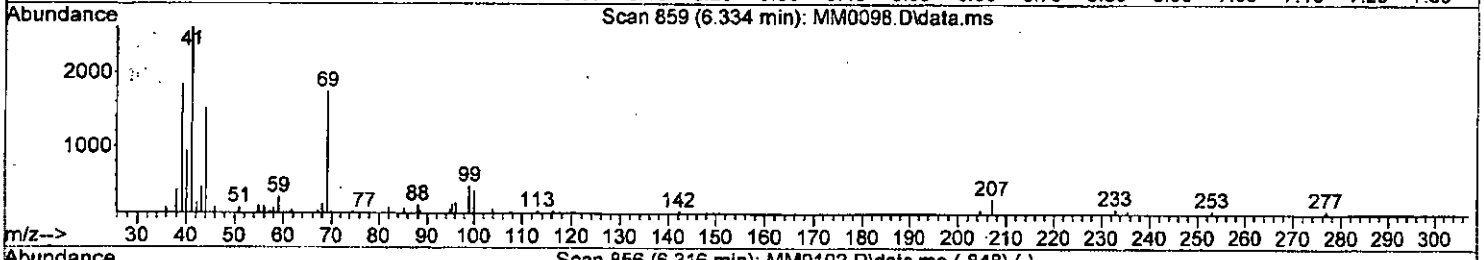
00117

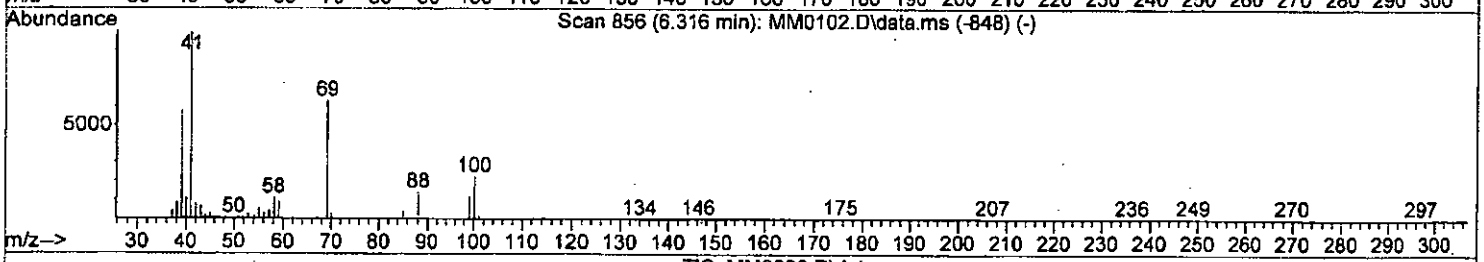
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(58) 1,4-Dioxane

6.334min (+0.025) 13.88 ppb

response 919

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	47.61#
0.00	0.00	0.00
0.00	0.00	0.00

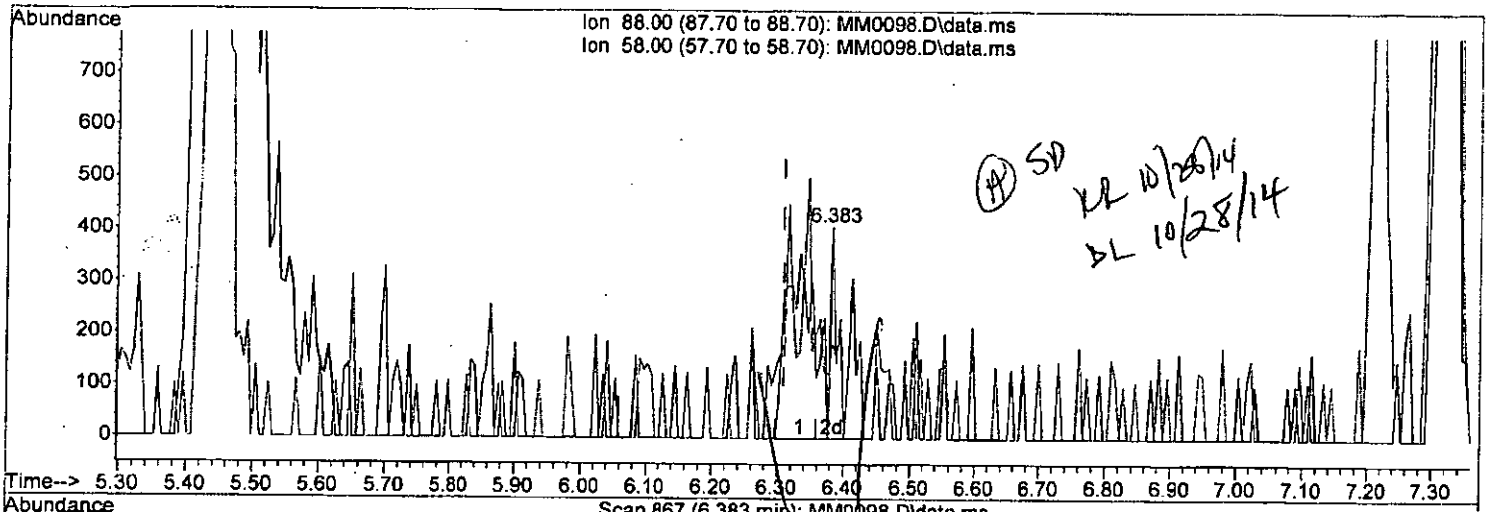
W102714.M Tue Oct 28 09:56:04 2014 Page: 1

00118

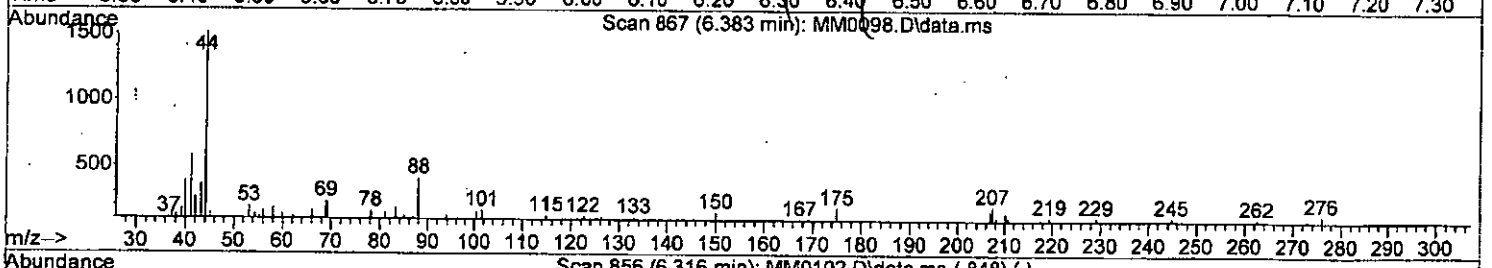
Quantitation Report (Qedit)

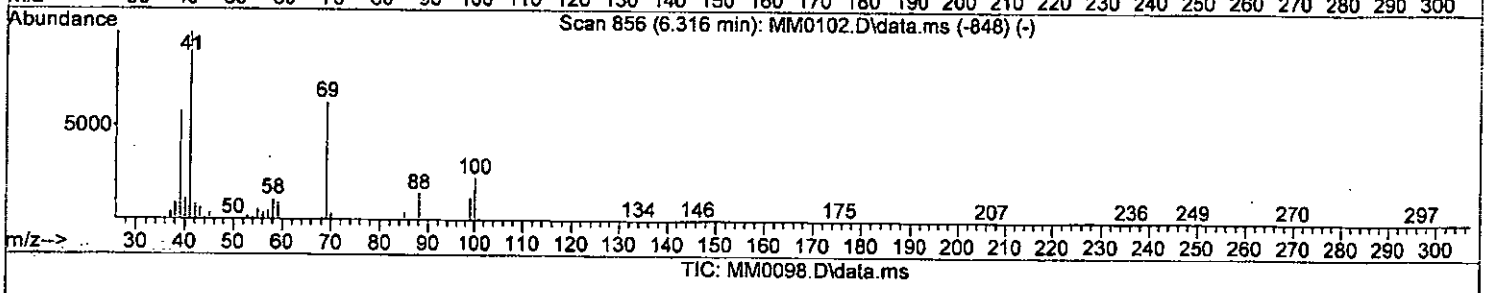
Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



(A) SD KL 10/28/14 DL 10/28/14





TIC: MM0098.D\data.ms

(58) 1,4-Dioxane

6.383min (+0.074) 24.42 ppb m

response 1617

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	44.23#
0.00	0.00	0.00
0.00	0.00	0.00

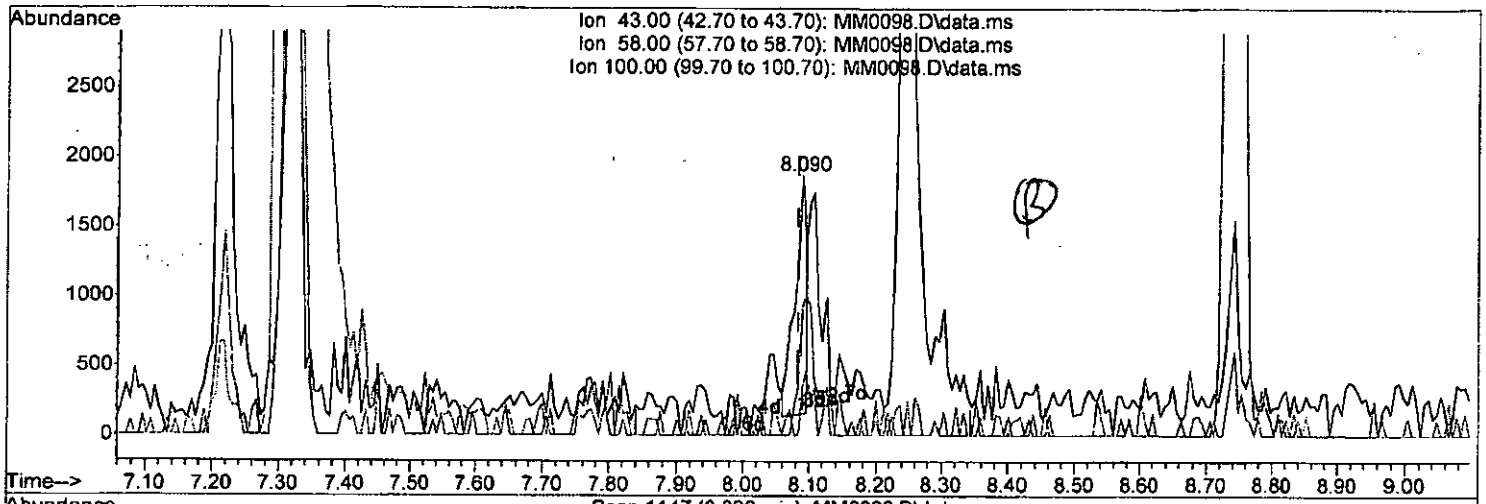
W102714.M Tue Oct 28 09:56:21 2014 Page: 1

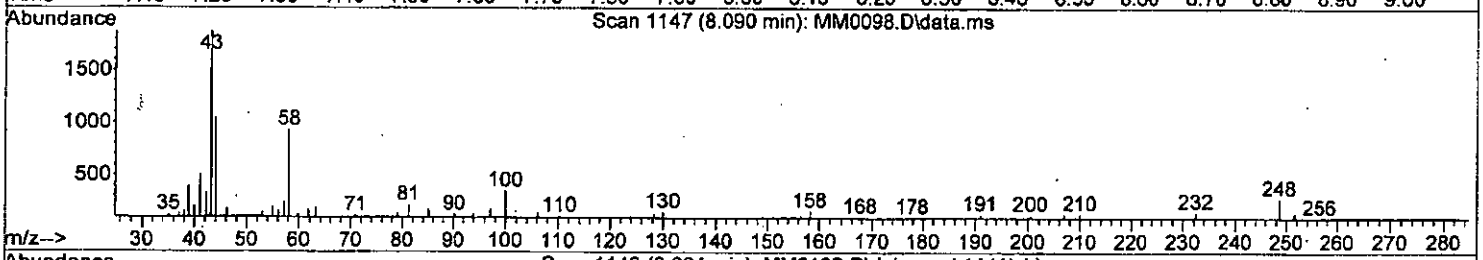
00119

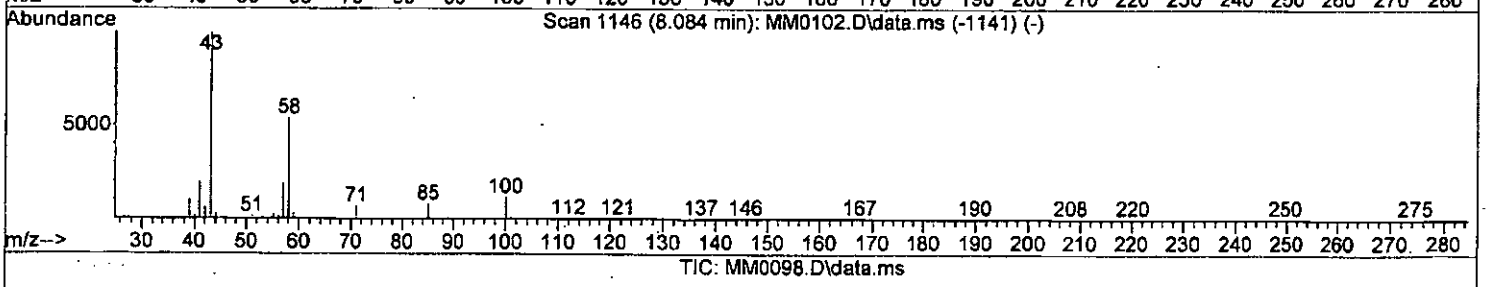
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(73) 2-Hexanone (P)

8.090min (+0.006) 0.52 ppb

response 2113

Ion	Exp%	Act%
43.00	100	100
58.00	53.40	49.65
100.00	11.20	18.75
0.00	0.00	0.00

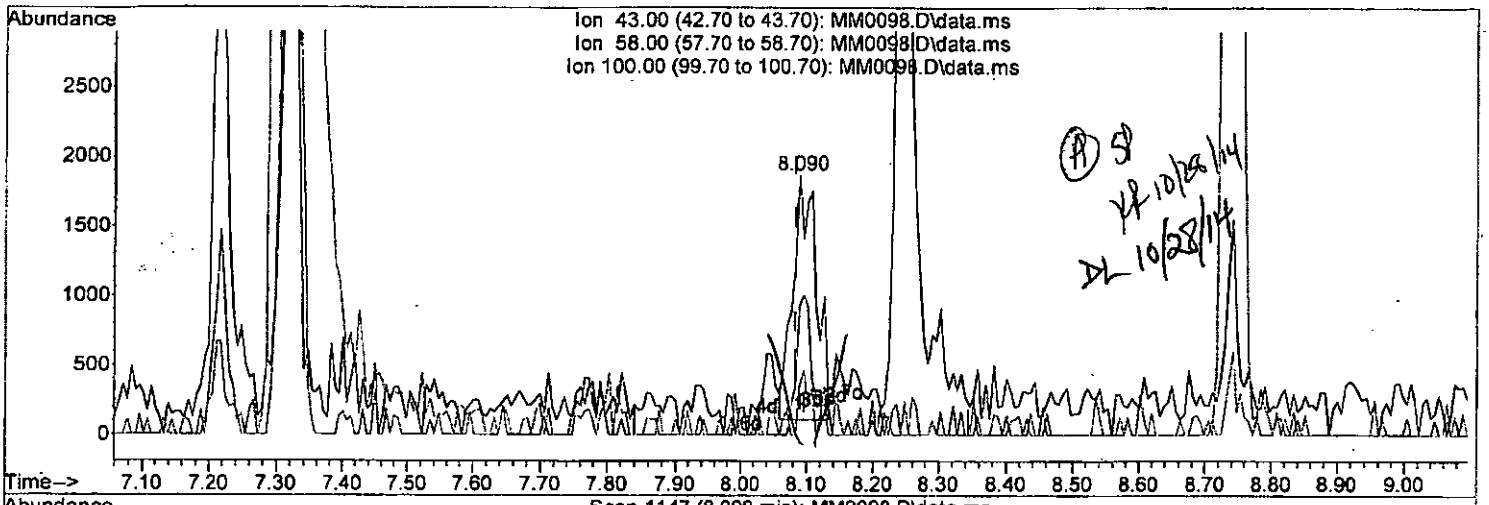
W102714.M Tue Oct 28 09:56:40 2014 Page: 1

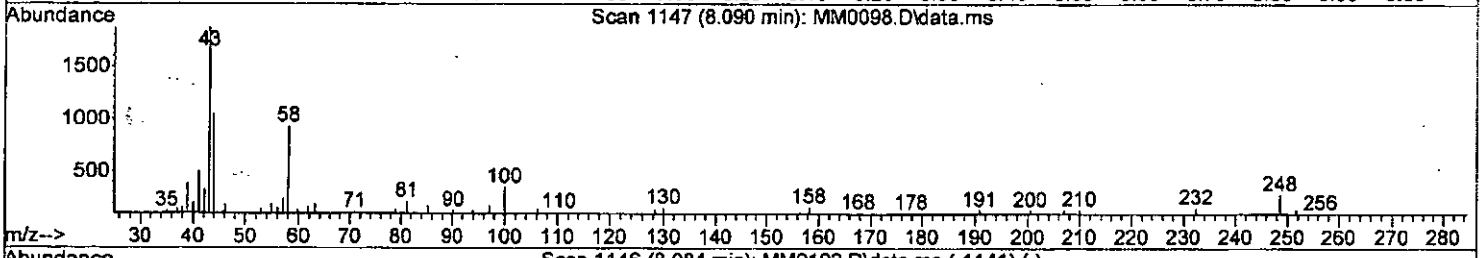
00120

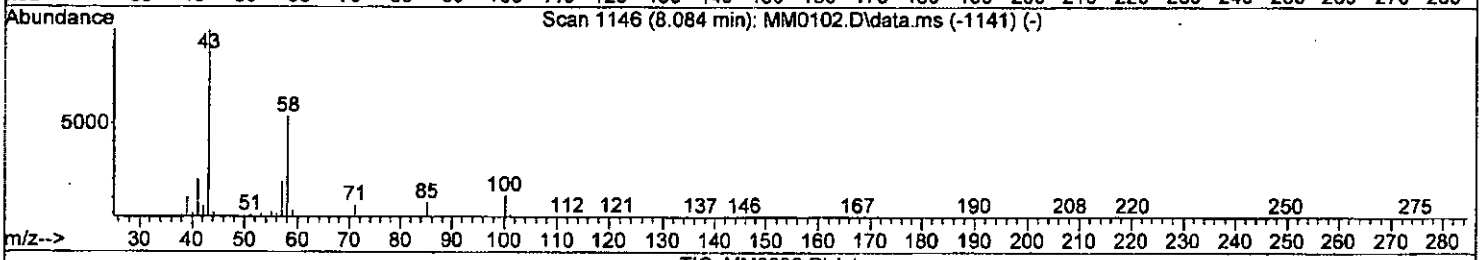
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(73) 2-Hexanone (P)

8.090min (+0.006) 1.05 ppb m

response 4246

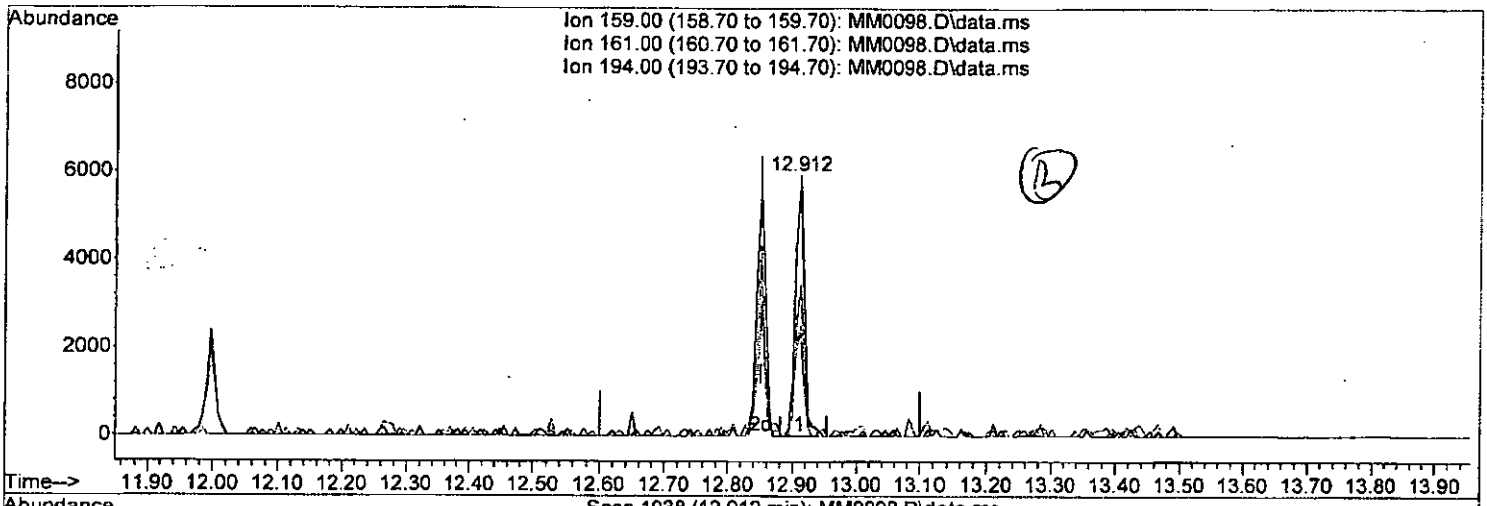
Ion	Exp%	Act%
43.00	100	100
58.00	53.40	49.65
100.00	11.20	18.75
0.00	0.00	0.00

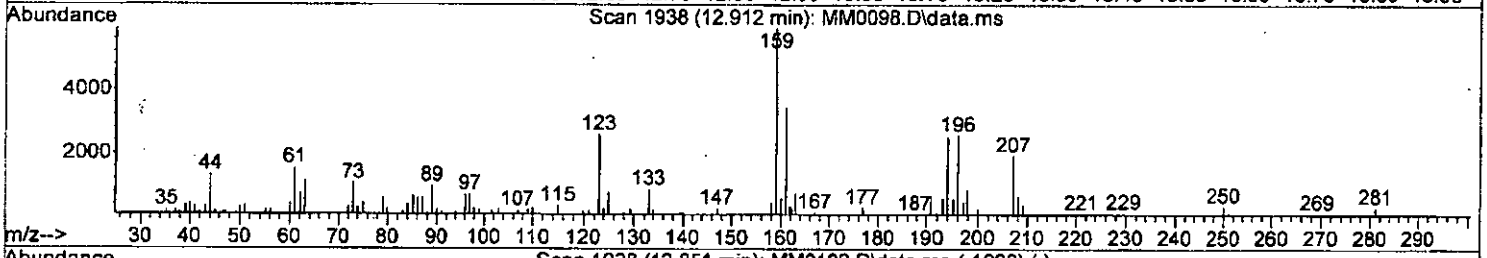
W102714.M Tue Oct 28 09:56:48 2014 Page: 1

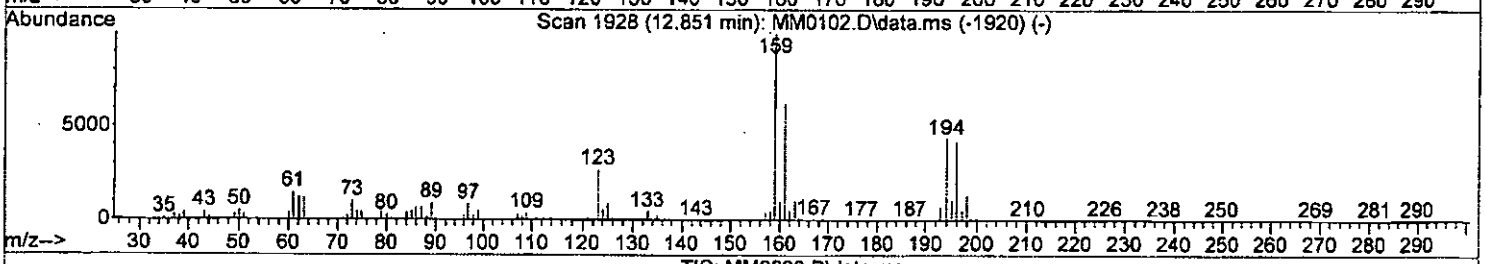
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(119) 2,4,5-Trichlorotolene

12.912min (+0.061) 1.05 ppb

response 5666

Ion	Exp%	Act%
159.00	100	100
161.00	62.10	58.05
194.00	43.70	42.41
0.00	0.00	0.00

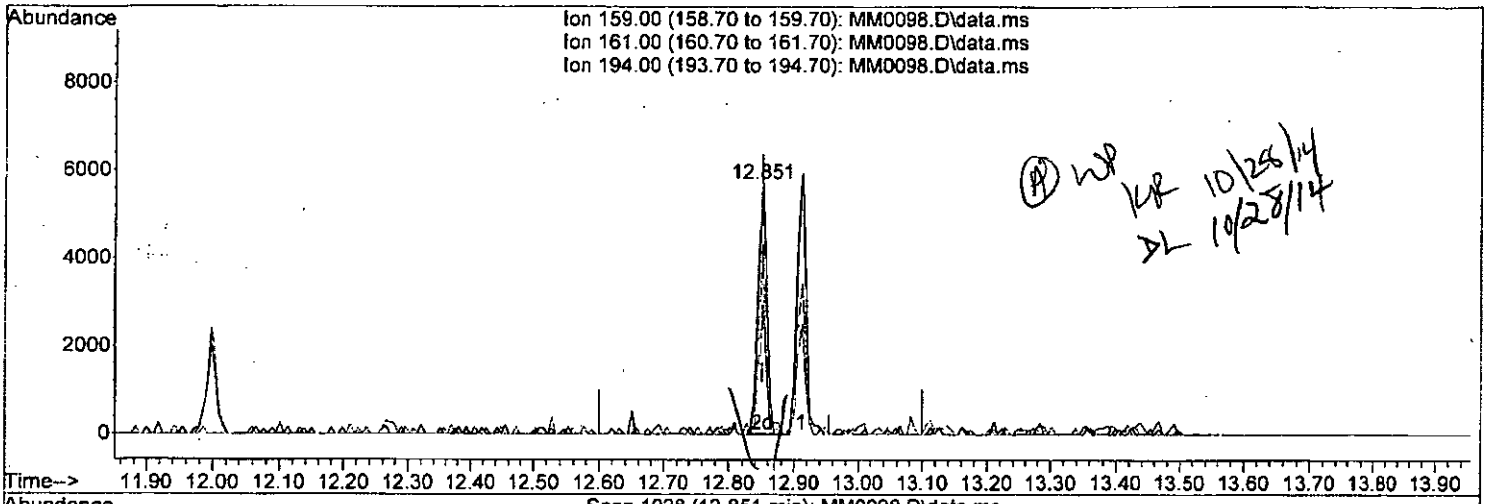
W102714.M Tue Oct 28 09:57:14 2014 Page: 1

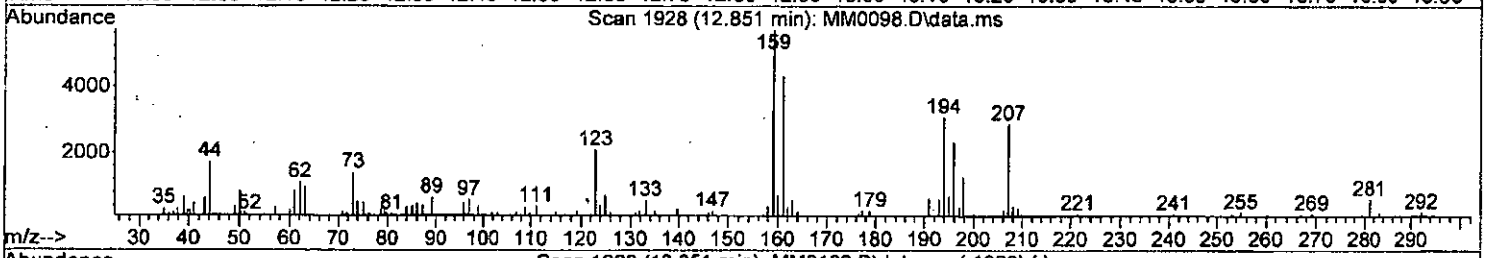
00122

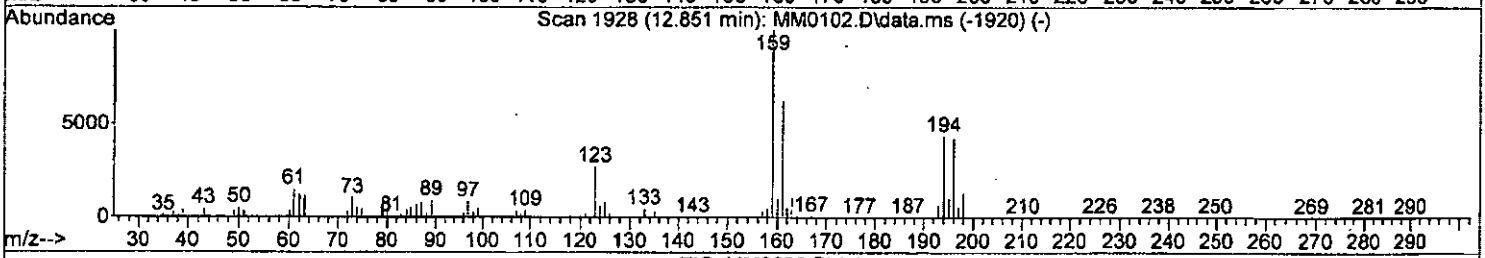
Quantitation Report (Qedit)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:30 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0098.D\data.ms

(119) 2,4,5-Trichlorotolene

12.851min (-0.000) 0.97 ppb m

response 5230

Ion	Exp%	Act%
159.00	100	100
161.00	62.10	75.76#
194.00	43.70	53.68#
0.00	0.00	0.00

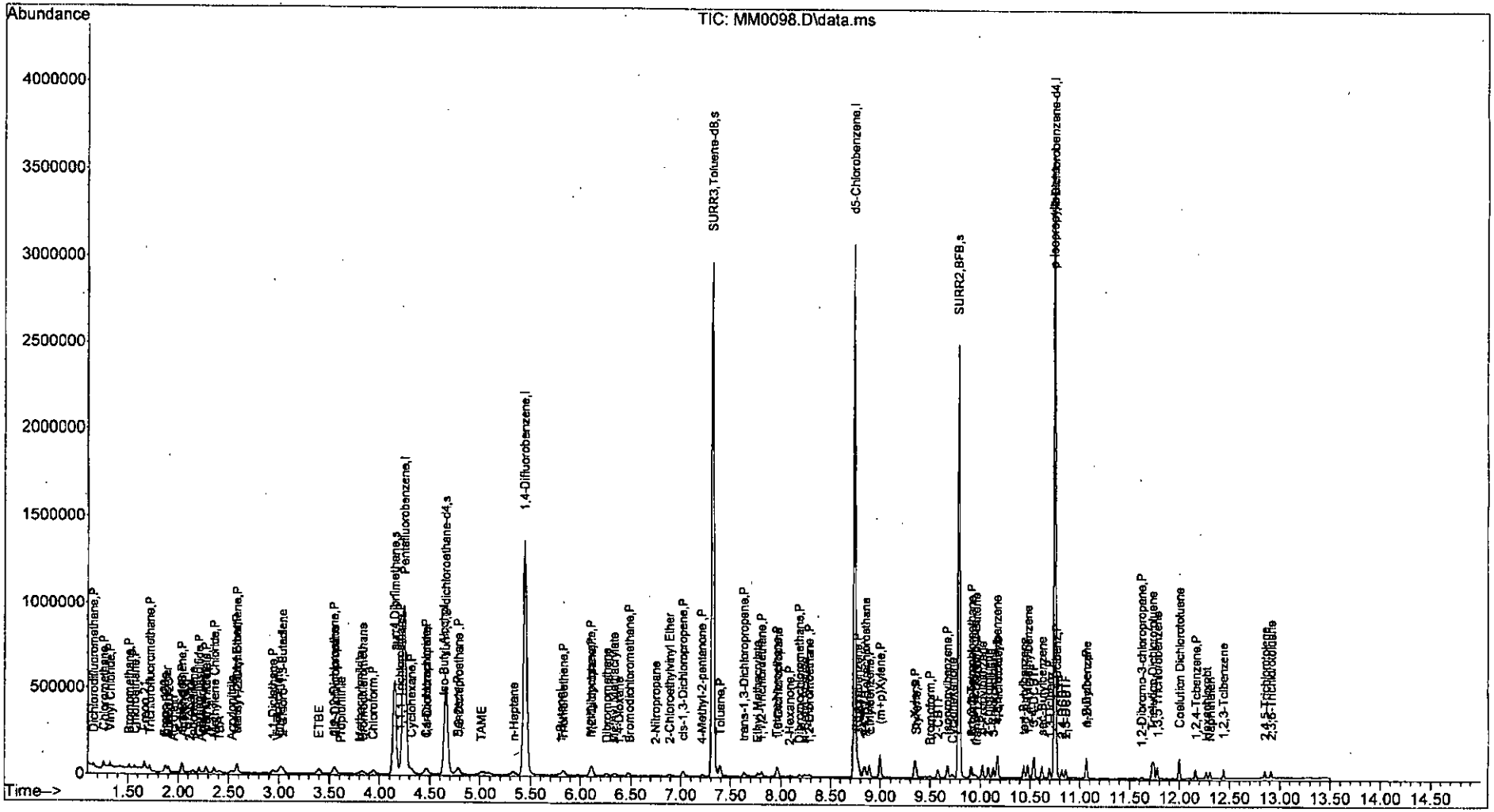
W102714.M Tue Oct 28 09:57:19 2014 Page: 1

00123

Quantitation Report (QT Reviewed)

Sample : 1.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0098.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 4:45 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:57:15 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 09:57:37 2014 Page: 4

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:12:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.249	168	870593	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.450	114	1310493	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1222188	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	650686	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	473075	61.99	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 123.98%#				
48) surr1,1,2-dichloroetha...	4.658	65	581229	62.55	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 125.10%#				
65) SURR3,Toluene-d8	7.322	98	1990755	61.96	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 123.92%#				
70) SURR2,BFB	9.785	95	761099	61.05	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 122.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	16186	1.97	ppb		94
3) Chloromethane	1.262	50	21819	1.94	ppb		99
4) Vinyl Chloride	1.323	62	22715	1.90	ppb		99
5) Bromomethane	1.512	94	10018	1.74	ppb		86
6) Chloroethane	1.567	64	14461	1.95	ppb		88
7) Freon 21	1.664	67	39621	2.14	ppb		97
8) Trichlorofluoromethane	1.719	101	28605	2.02	ppb		97
9) Diethyl Ether	1.878	59	12302	1.90	ppb		93
10) Freon 123a	1.865	67	21806	2.14	ppb		99
11) Freon 123	1.902	83	21963	2.03	ppb		94
12) Acrolein	1.957	56	3642m	10.28	ppb		
13) 1,1-Diclethene	2.042	96	14389	1.91	ppb		98
14) Freon 113	2.036	101	14857	1.93	ppb		88
15) Acetone	2.048	43	3817m	2.05	ppb		
16) 2-Propanol	2.115	45	14120	38.61	ppb		81
17) Iodomethane	2.146	142	20019	1.84	ppb		95
18) Carbon Disulfide	2.207	76	49159	1.94	ppb		99
19) Acetonitrile	2.225	40	3140	10.71	ppb	#	81
20) Allyl Chloride	2.280	76	8486	2.00	ppb		92
21) Methyl Acetate	2.274	43	8040	1.89	ppb		88
22) Methylene Chloride	2.353	84	16405	2.00	ppb		96
23) TBA	2.408	59	24535	40.53	ppb		96
24) Acrylonitrile	2.524	53	17742	8.96	ppb		86
25) Methyl-t-Butyl Ether	2.579	73	39970	1.90	ppb		99
26) trans-1,2-Dichloroethene	2.585	96	15914	1.96	ppb		92
28) 1,1-Diclethane	2.938	63	30224	2.01	ppb		96
29) Vinyl Acetate	2.981	86	2360	1.72	ppb	#	71
30) DIPE	3.012	45	62520	2.06	ppb		88
31) 2-Chloro-1,3-Butadiene	3.042	53	26378	1.90	ppb		97
32) ETBE	3.402	59	53176	2.03	ppb		89
33) 2,2-Dichloropropane	3.554	77	25131	1.89	ppb		92
34) cis-1,2-Dichloroethene	3.548	96	17640	2.00	ppb		88
35) 2-Butanone	3.554	43	5154	2.00	ppb		91
36) Propionitrile	3.597	54	7010	9.85	ppb		81
37) Bromochloromethane	3.835	130	9561	1.92	ppb	#	89

KR 10/28/14

W102714.M Tue Oct 28 10:14:10 2014

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:12:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.804	67	5013m	2.28	ppb		
39) Tetrahydrofuran	3.914	42	3734	2.11	ppb		94
40) Chloroform	3.938	83	30918	2.04	ppb		97
41) 1,1,1-Trichloroethane	4.206	97	27515	2.03	ppb	#	38
42) TAME	5.017	73	43658	1.98	ppb		98
44) Cyclohexane	4.304	41	19281	2.00	ppb		93
46) Carbontetrachloride	4.469	121	6555m	1.92	ppb		
47) 1,1-Dichloropropene	4.462	75	22710	1.98	ppb		94
49) Benzene	4.779	78	67129	2.00	ppb		95
50) 1,2-Dichloroethane	4.786	62	21952	1.94	ppb		93
51) Iso-Butyl Alcohol	4.639	43	8544	33.24	ppb		90
52) n-Heptane	5.334	43	20156	1.86	ppb		88
53) 1-Butanol	5.773	56	16346m	98.32	ppb		
54) Trichloroethene	5.828	130	16457	1.87	ppb		94
55) Methylcyclohexane	6.102	55	22475	2.00	ppb		93
56) 1,2-Diclpropane	6.109	63	17716	2.01	ppb		91
57) Dibromomethane	6.261	93	8398	2.02	ppb		94
58) 1,4-Dioxane	6.310	88	3059m	46.24	ppb		
59) Methyl Methacrylate	6.334	69	7414	1.83	ppb		94
60) Bromodichloromethane	6.474	83	19862	1.91	ppb		97
61) 2-Nitropropane	6.749	41	5394m	3.88	ppb		
62) 2-Chloroethylvinyl Ether	6.883	63	7670	1.87	ppb		90
63) cis-1,3-Dichloropropene	7.023	75	25035	1.93	ppb		95
64) 4-Methyl-2-pentanone	7.218	43	10800	1.80	ppb		86
66) Toluene	7.395	91	71185	1.97	ppb		94
67) trans-1,3-Dichloropropene	7.633	75	21271	1.92	ppb		93
68) Ethyl Methacrylate	7.767	69	15968	1.87	ppb		94
69) 1,1,2-Trichloroethane	7.809	97	11997	1.97	ppb		97
72) Tetrachloroethene	7.962	164	12824	1.82	ppb		91
73) 2-Hexanone	8.090	43	7803m	1.92	ppb		
74) 1,3-Dichloropropane	7.974	76	21073	1.92	ppb		91
75) Dibromochloromethane	8.193	129	12506	1.90	ppb		93
76) N-Butyl Acetate	8.242	43	20680m	1.98	ppb		
77) 1,2-Dibromoethane	8.285	107	10639	1.85	ppb		93
78) Chlorobenzene	8.767	112	45557	1.92	ppb		97
79) 3-CBTF	8.785	180	23916	1.84	ppb		98
80) 4-CBTF	8.840	180	22229	1.92	ppb		93
81) 1,1,1,2-Tetrachloroethane	8.846	131	14349	1.84	ppb		94
82) Ethylbenzene	8.888	106	23199	1.82	ppb	#	88
83) (m+p)Xylene	8.998	106	57409	3.72	ppb		93
84) o-Xylene	9.346	106	28116	1.81	ppb		95
85) Styrene	9.358	104	45407	1.77	ppb		98
87) Bromoform	9.492	173	5827	1.80	ppb		83
88) 2-CBTF	9.577	180	24049	2.10	ppb		91
89) Isopropylbenzene	9.669	105	69911	2.01	ppb		97
90) Cyclohexanone	9.724	55	15564	40.79	ppb		87
91) trans-1,4-Dichloro-2-B...	9.961	53	4291	2.06	ppb		79
92) 1,1,2,2-Tetrachloroethane	9.913	83	13930	2.06	ppb		92
93) Bromobenzene	9.913	156	18467	2.02	ppb	#	82
94) 1,2,3-Trichloropropane	9.943	110	3799	1.85	ppb	#	70
95) n-Propylbenzene	10.022	91	82972	2.06	ppb		99
96) 2-Chlorotoluene	10.083	91	48086	1.97	ppb		98

W102714.M Tue Oct 28 10:14:10 2014 Page: 2

00126

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:12:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

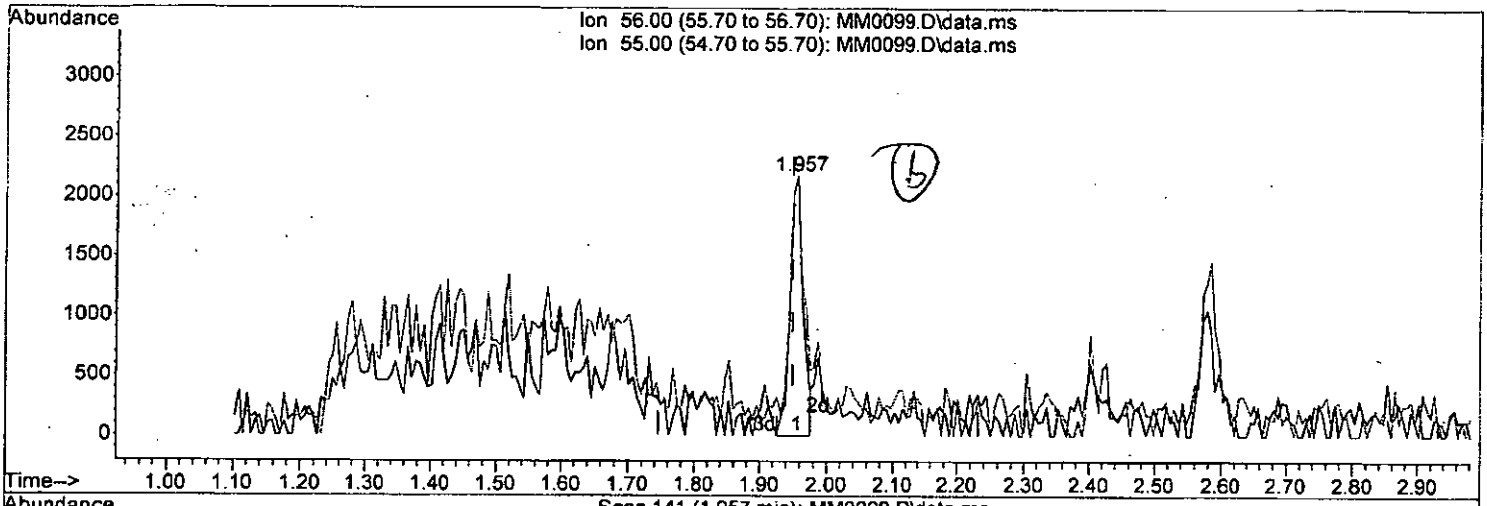
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	3-Chlorotoluene	10.132	91	53165	2.05	ppb		92
98)	4-Chlorotoluene	10.175	91	61484	2.01	ppb		98
99)	1,3,5-Trimethylbenzene	10.169	105	59455	1.97	ppb		96
100)	tert-Butylbenzene	10.437	119	50717	2.09	ppb		98
101)	1,2,4-Trimethylbenzene	10.480	105	58155	1.97	ppb		98
102)	3,4-DCBTF	10.534	214	15396	1.78	ppb		98
103)	sec-Butylbenzene	10.620	105	69936	2.04	ppb		98
104)	p-Isopropyltoluene	10.742	119	60169	2.02	ppb		94
105)	1,3-Dclbenz	10.699	146	35161	2.01	ppb		96
106)	1,4-Dclbenz	10.766	146	35309	1.93	ppb		98
107)	2,4-DCBTF	10.821	214	14584	1.97	ppb		95
108)	2,5-DCBTF	10.864	214	15432	1.84	ppb		92
109)	n-Butylbenzene	11.065	91	50247	1.91	ppb		90
110)	1,2-Dclbenz	11.065	146	31074	1.89	ppb		96
111)	1,2-Dibromo-3-chloropr...	11.626	157	2139	1.88	ppb		92
112)	Trielution Dichlorotol...	11.729	125	80339	5.95	ppb		96
113)	1,3,5 Trichlorobenzene	11.778	180	23227	2.06	ppb		91
114)	Coelution Dichlorotoluene	11.998	125	56580	4.00	ppb		98
115)	1,2,4-Tcbenzene	12.156	180	19405	2.01	ppb		98
116)	Hexachlorobt	12.266	225	7422	1.95	ppb		96
117)	Naphthalen	12.302	128	35217	1.92	ppb		99
118)	1,2,3-Tclbenzene	12.437	180	15826	1.93	ppb		94
119)	2,4,5-Trichlorotolene	12.851	159	11423	2.06	ppb		89
120)	2,3,6-Trichlorotoluene	12.912	159	9239	1.80	ppb	#	86

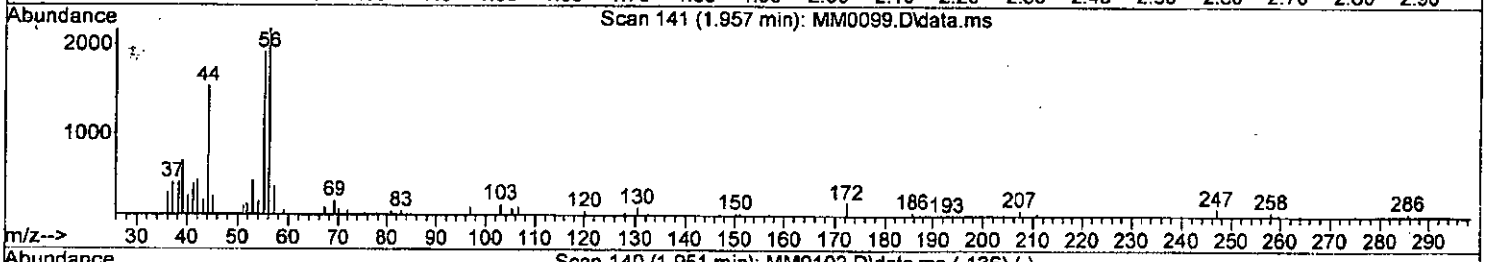
(#) = qualifier out of range (m) = manual integration (+) = signals summed

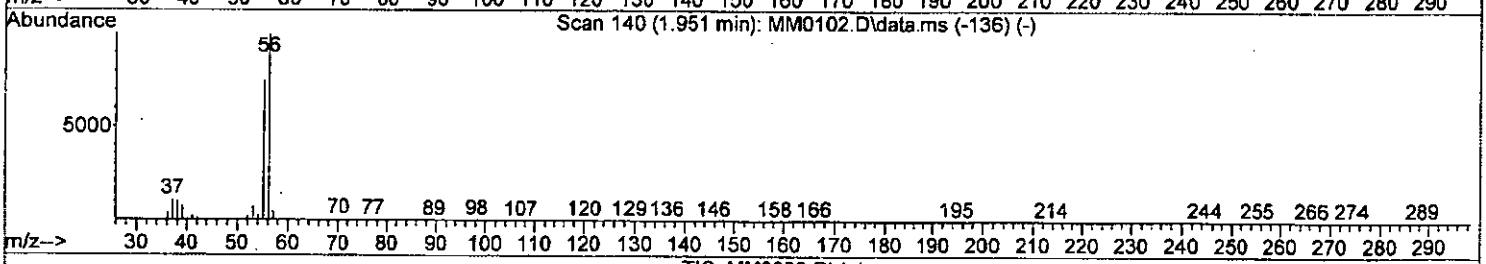
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(12) Acrolein

1.957min (+0.007) 8.14 ppb

response 2885

Ion	Exp%	Act%
56.00	100	100
55.00	75.70	88.09
0.00	0.00	0.00
0.00	0.00	0.00

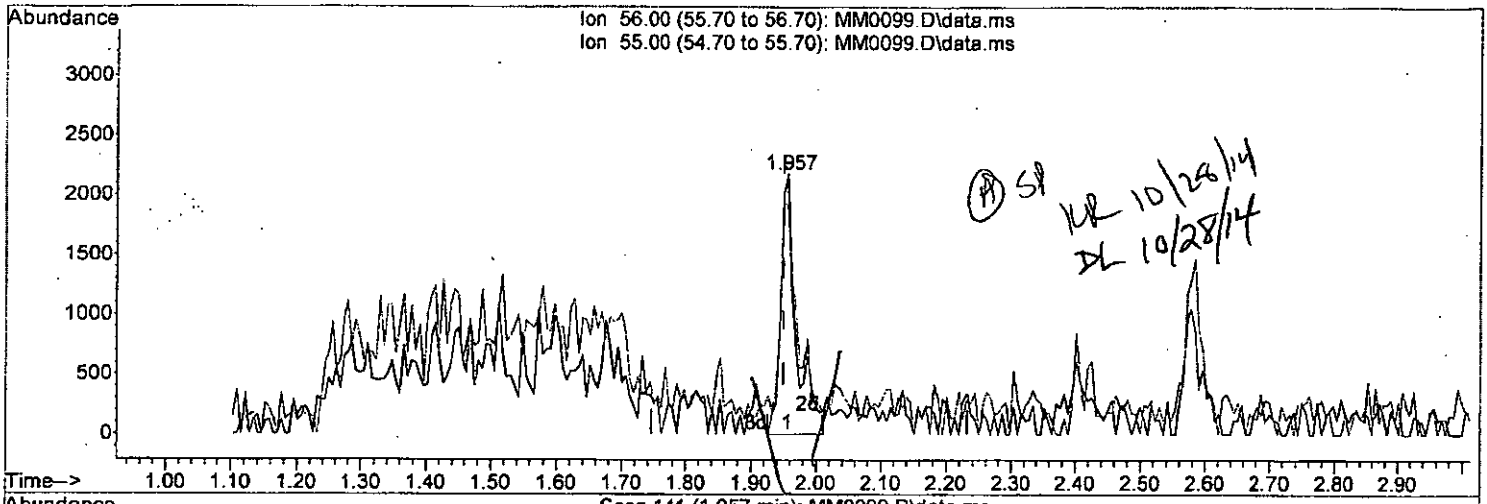
W102714.M Tue Oct 28 10:06:21 2014 Page: 1

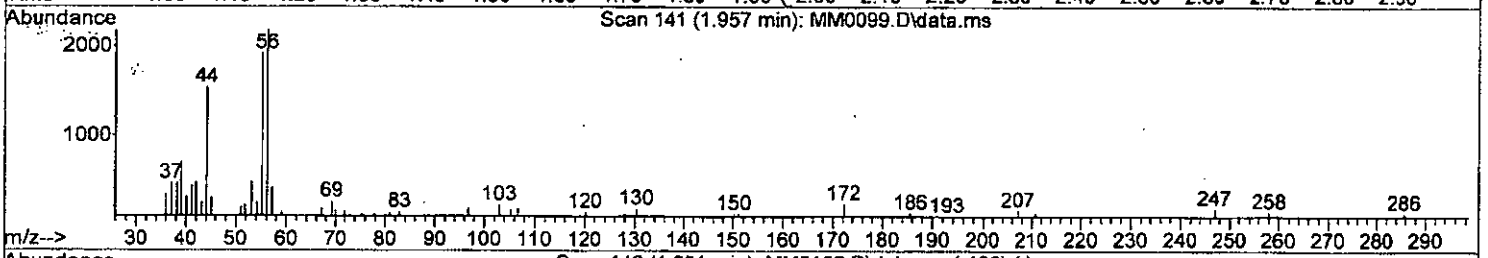
00128

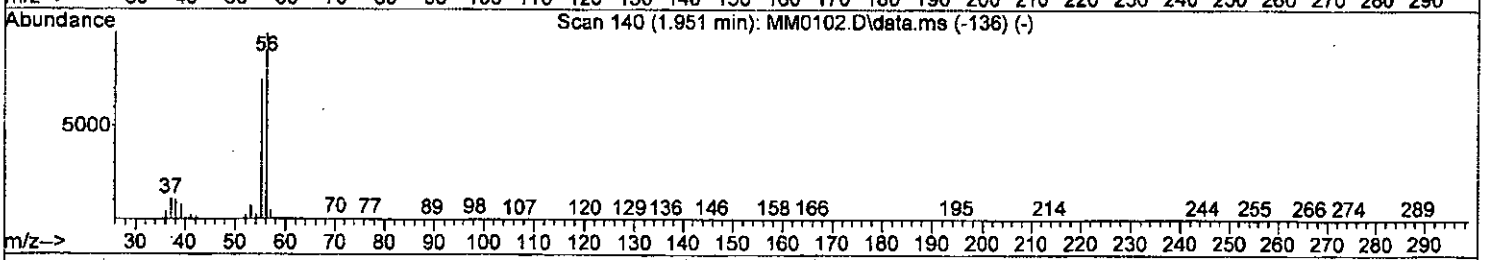
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(12) Acrolein

1.957min (+0.007) 10.28 ppb m

response 3642

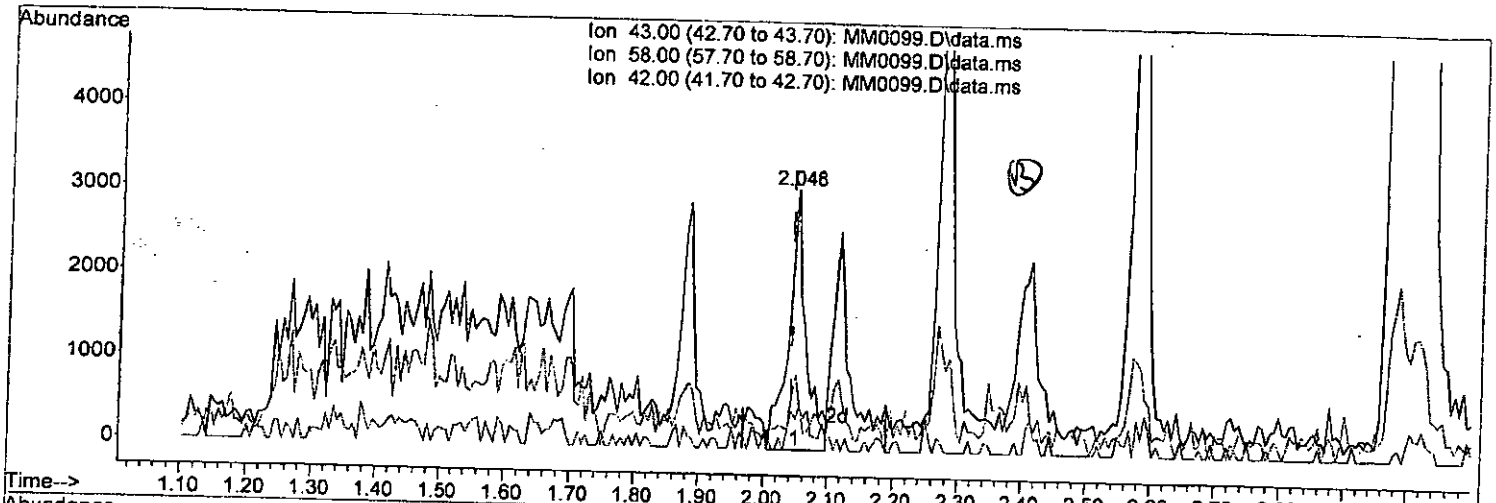
Ion	Exp%	Act%
56.00	100	100
55.00	75.70	88.09
0.00	0.00	0.00
0.00	0.00	0.00

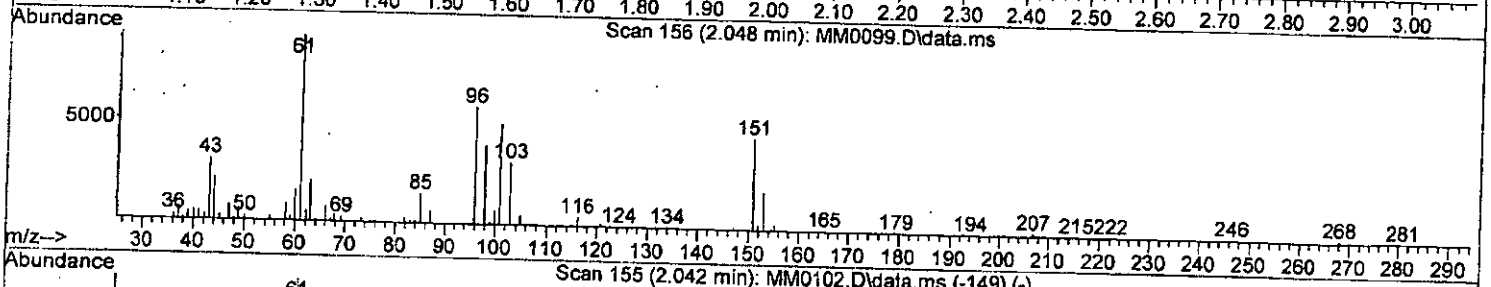
W102714.M Tue Oct 28 10:06:52 2014 Page: 1

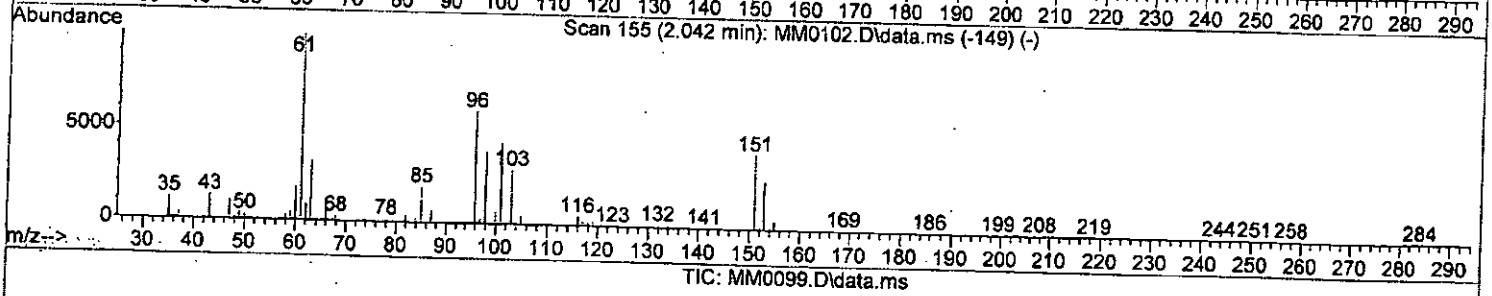
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(15) Acetone (P)

2.048min (+0.006) 3.04 ppb

response 5657

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	28.86
42.00	7.20	11.83
0.00	0.00	0.00

W102714.M Tue Oct 28 10:07:20 2014

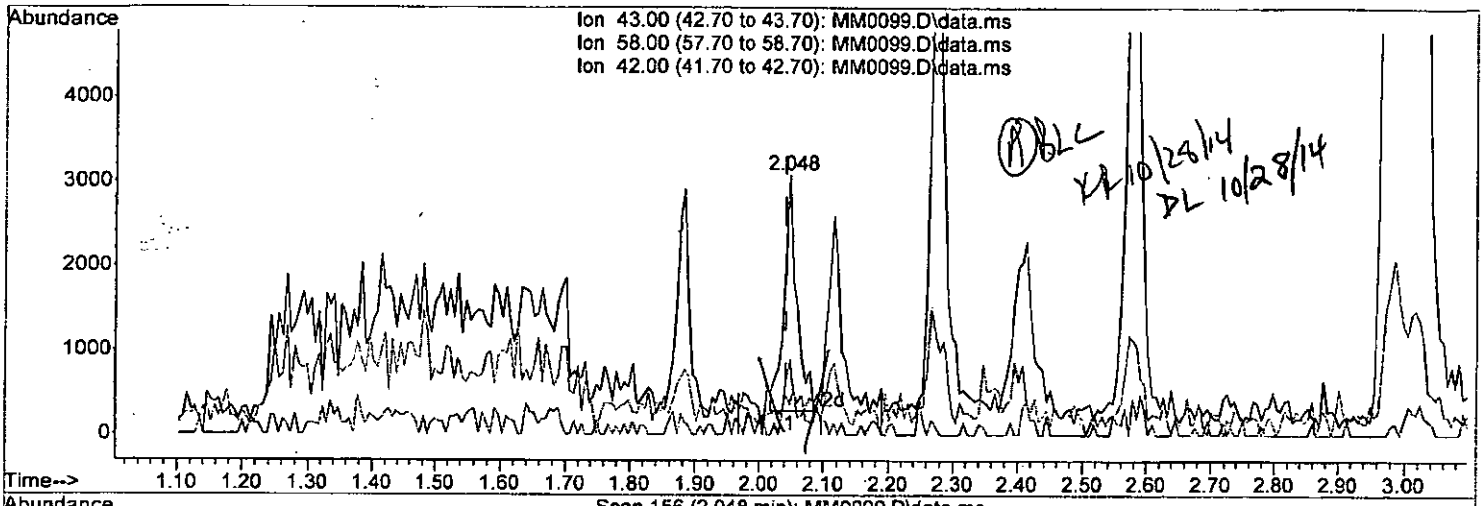
Page: 1

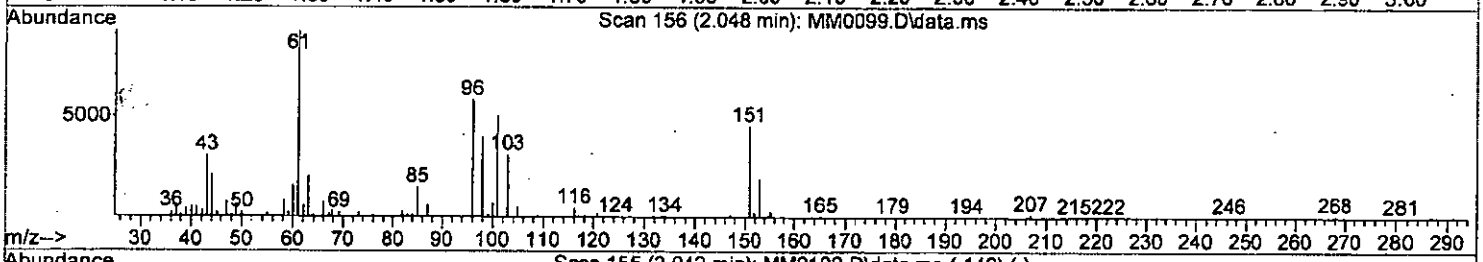
00130

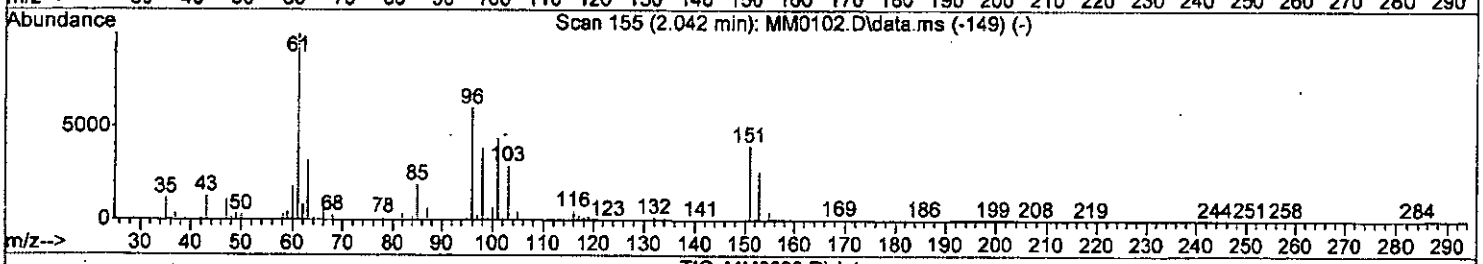
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(15) Acetone (P)

2.048min (+0.008) 2.05 ppb m

response 3817

Ion	Exp%	Act%
43.00	100	100
58.00	26.20	28.86
42.00	7.20	11.83
0.00	0.00	0.00

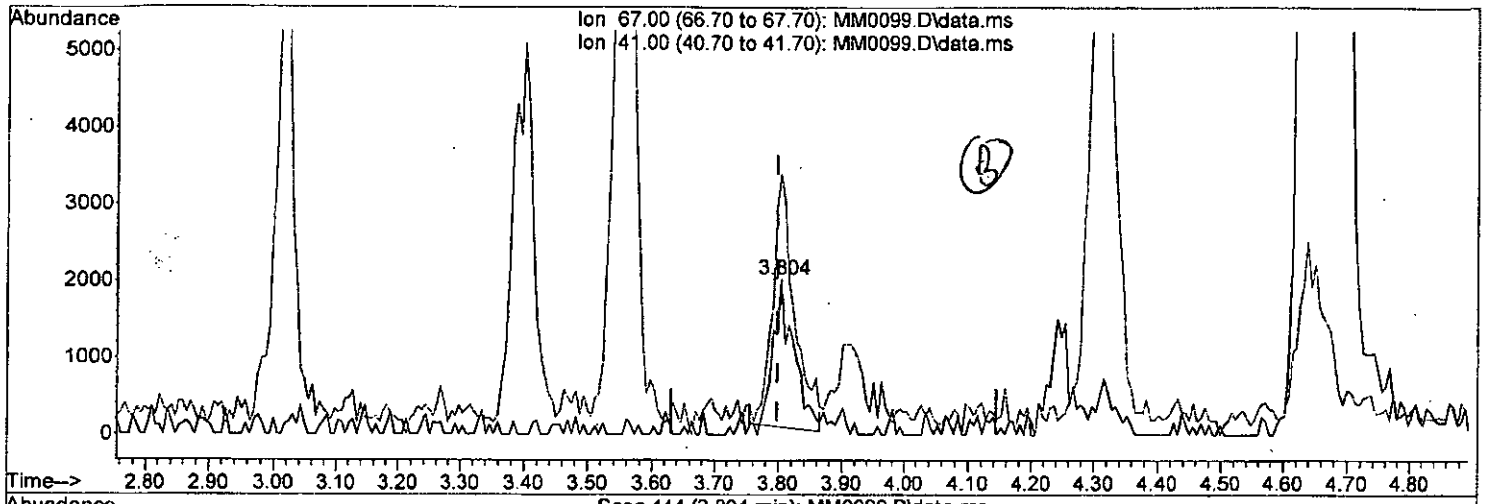
W102714.M Tue Oct 28 10:07:33 2014 Page: 1

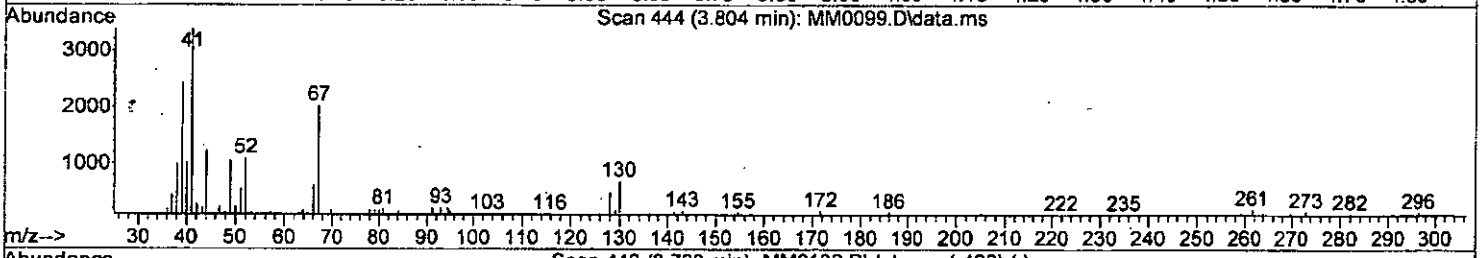
00131

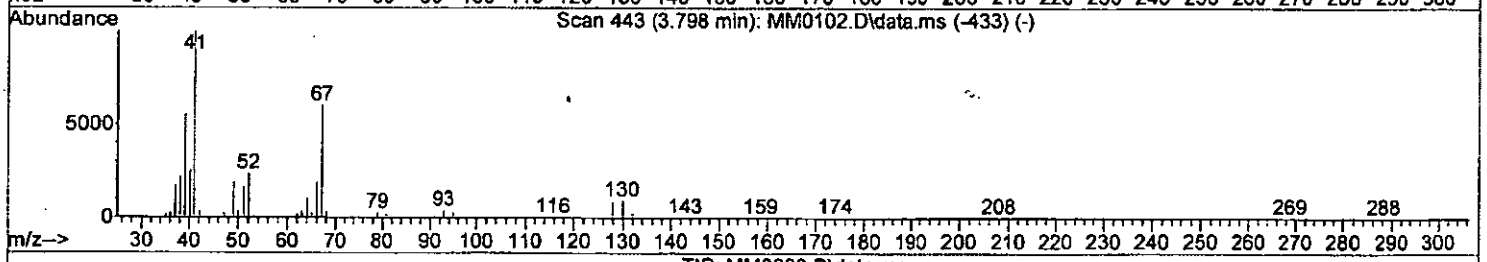
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(38) Methacrylonitrile

3.804min (+0.006) 1.91 ppb

response 4206

Ion	Exp%	Act%
67.00	100	100
41.00	166.40	167.29
0.00	0.00	0.00
0.00	0.00	0.00

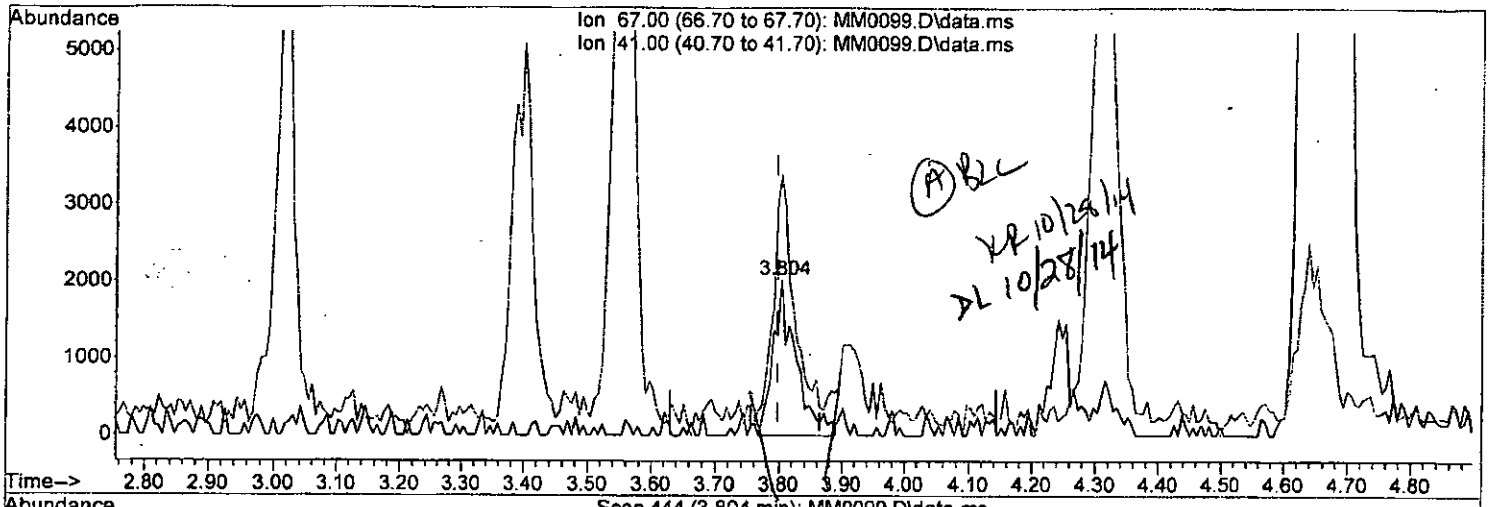
W102714.M Tue Oct 28 10:08:14 2014 Page: 1

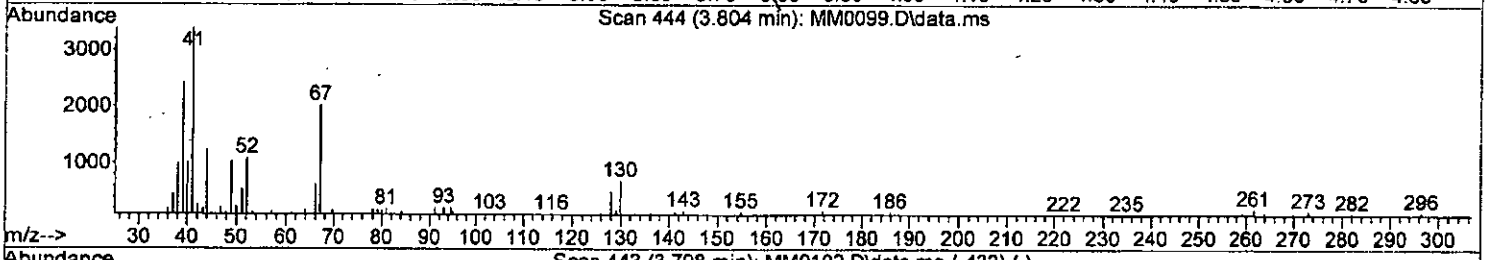
00132

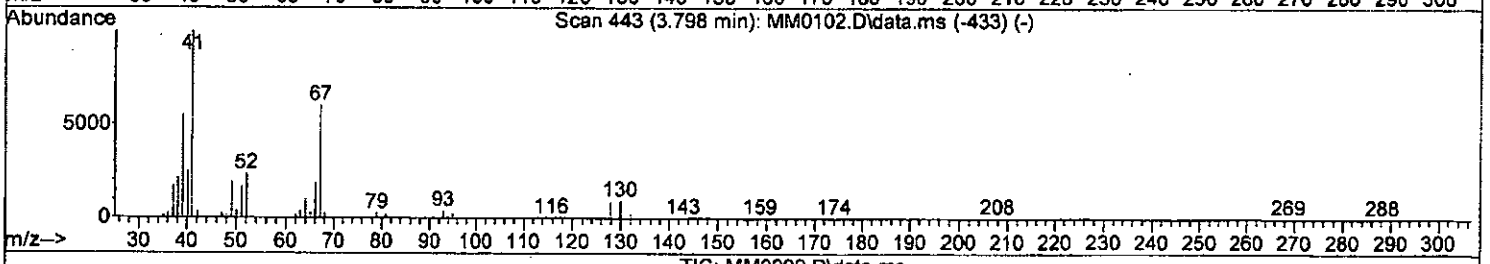
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(38) Methacrylonitrile

3.804min (+0.006) 2.28 ppb m

response 5013

Ion	Exp%	Act%
67.00	100	100
41.00	166.40	167.29
0.00	0.00	0.00
0.00	0.00	0.00

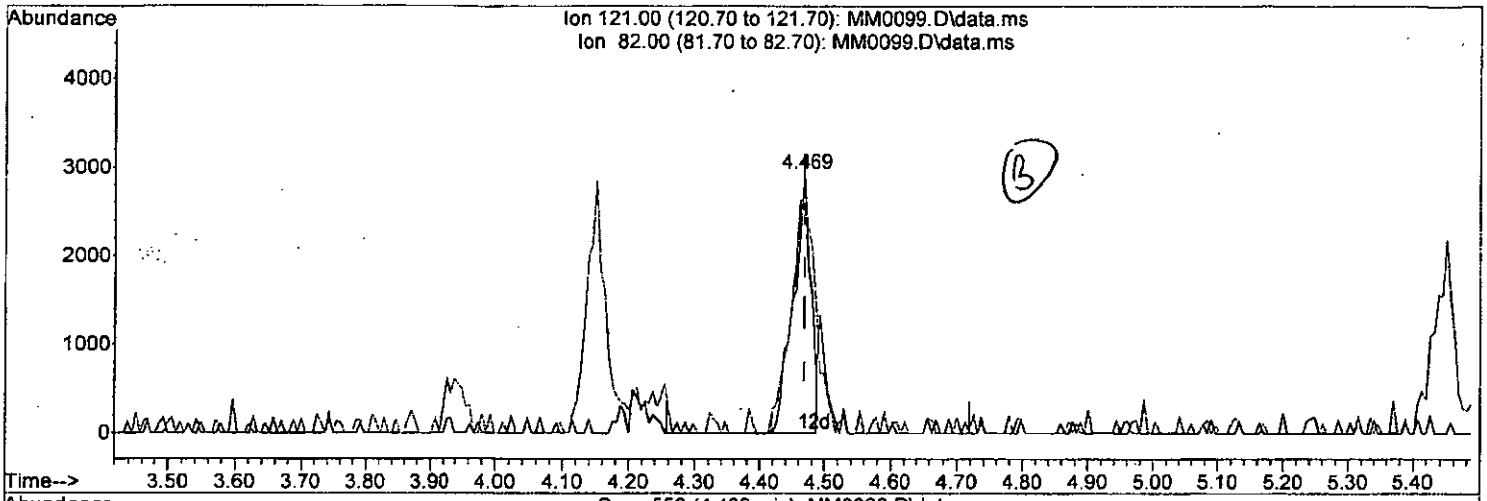
W102714.M Tue Oct 28 10:08:23 2014 Page: 1

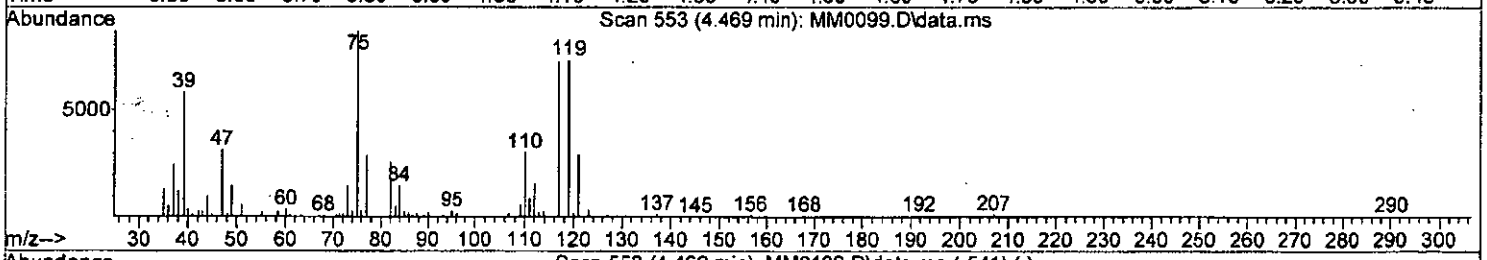
00133

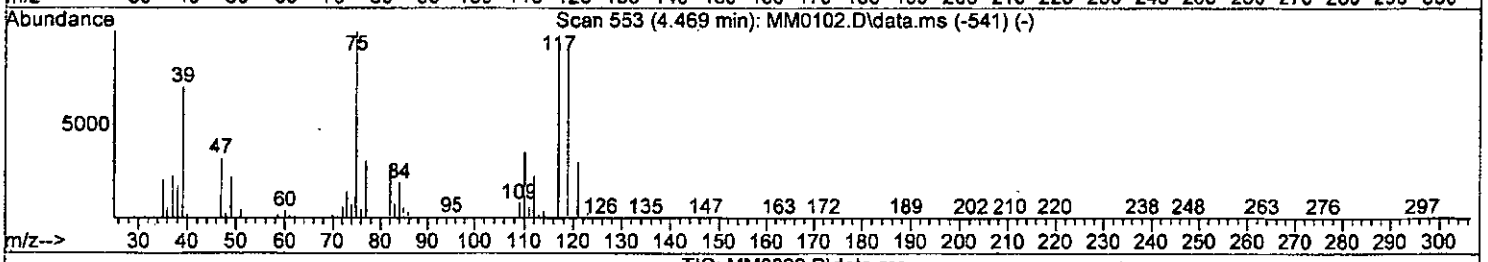
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(46) Carbontetrachloride (P)

4.469min (-0.000) 1.59 ppb

response 5431

Ion	Exp%	Act%
121.00	100	100
82.00	97.20	87.75
0.00	0.00	0.00
0.00	0.00	0.00

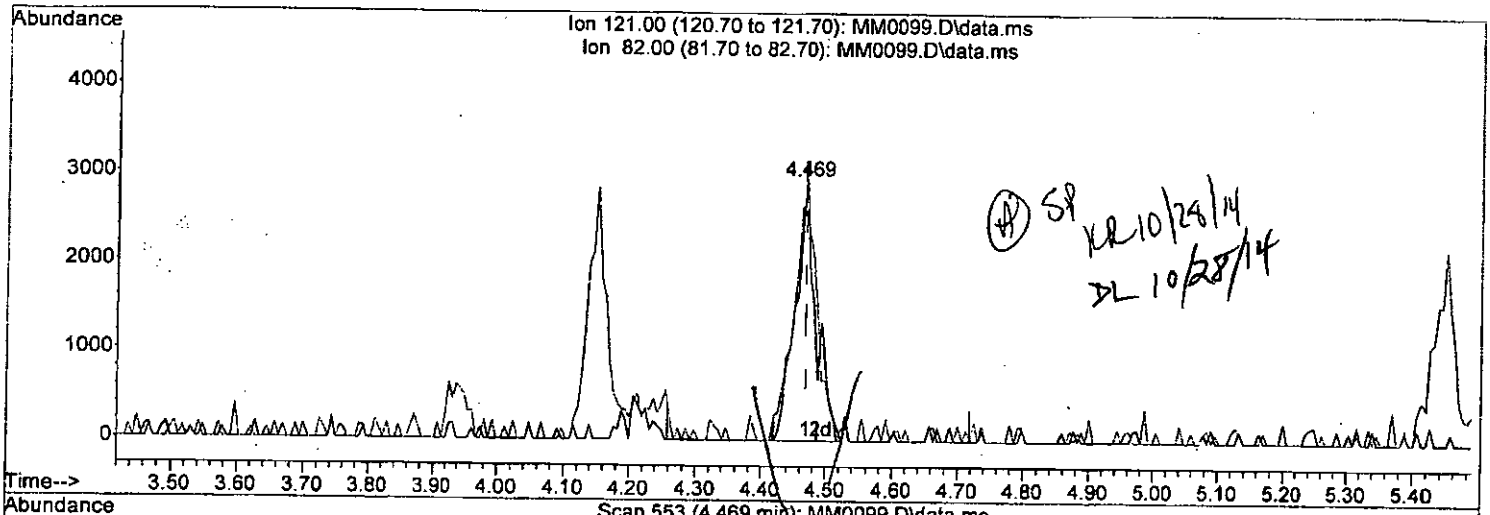
W102714.M Tue Oct 28 10:09:15 2014 Page: 1

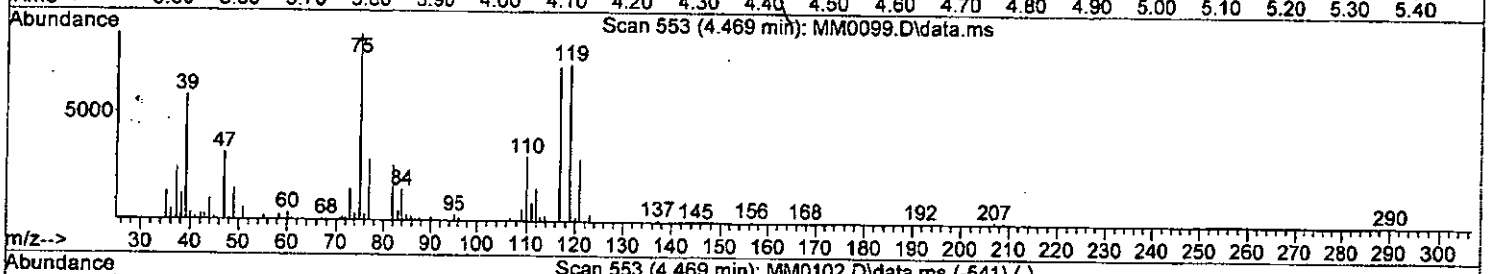
00134

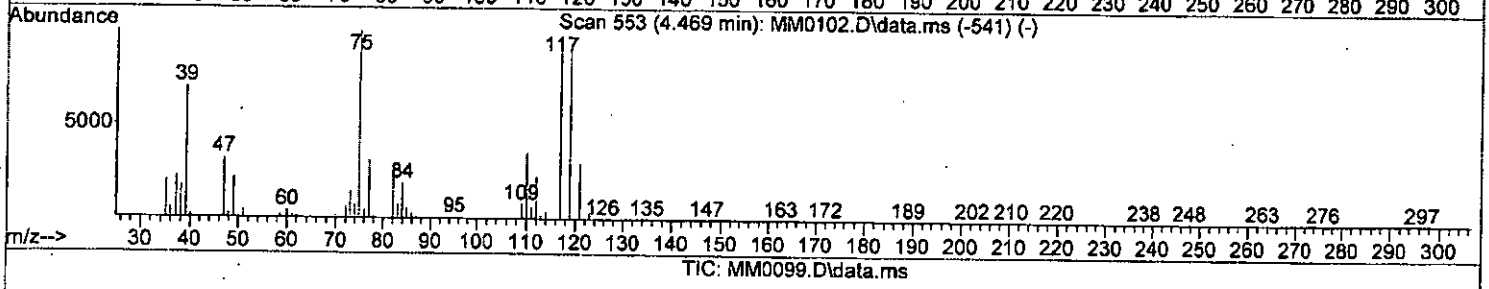
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(46) Carbontetrachloride (P)

4.469min (-0.000) 1.92 ppb m

response 6555

Ion	Exp%	Act%
121.00	100	100
82.00	97.20	87.75
0.00	0.00	0.00
0.00	0.00	0.00

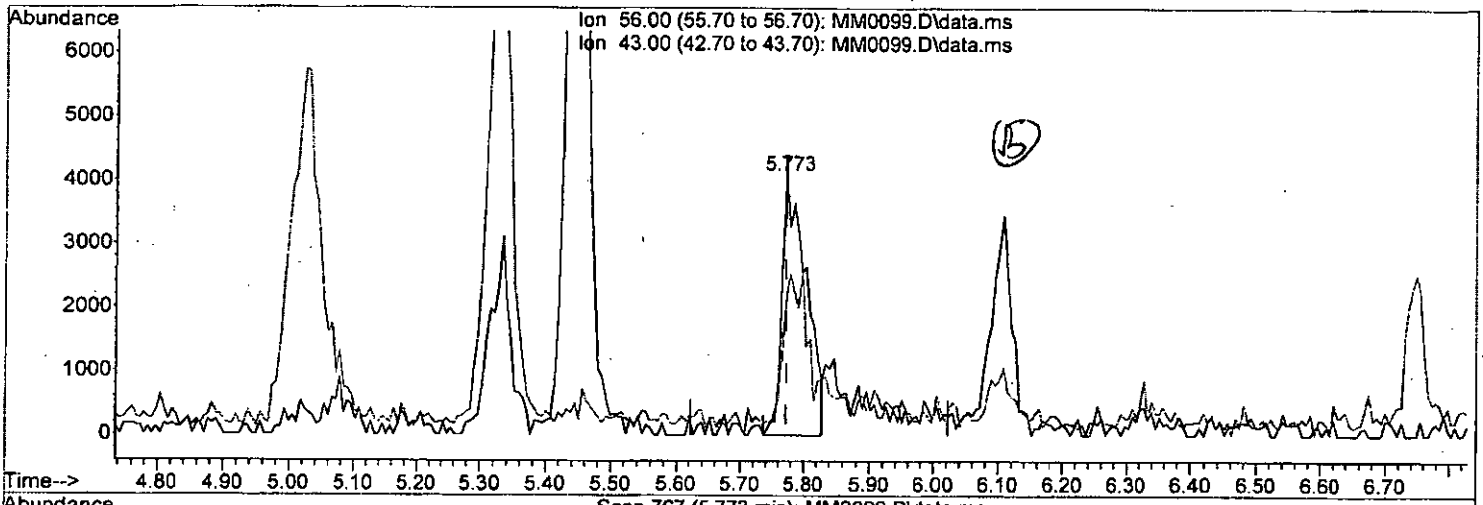
W102714.M Tue Oct 28 10:09:22 2014 Page: 1

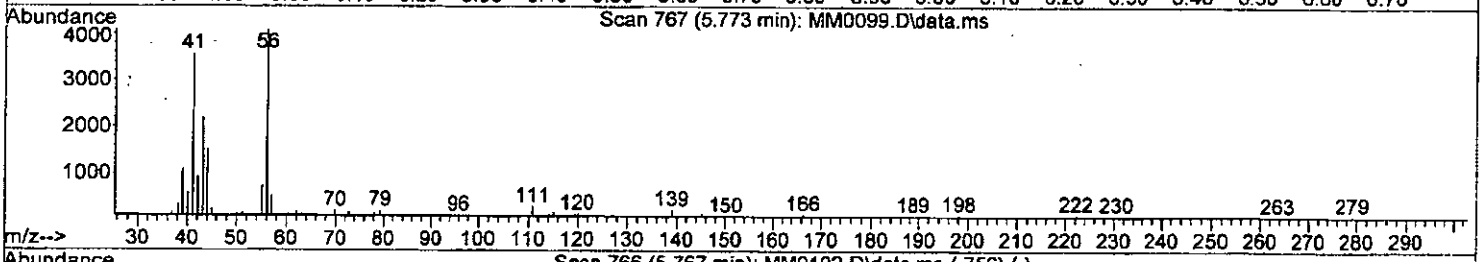
00135

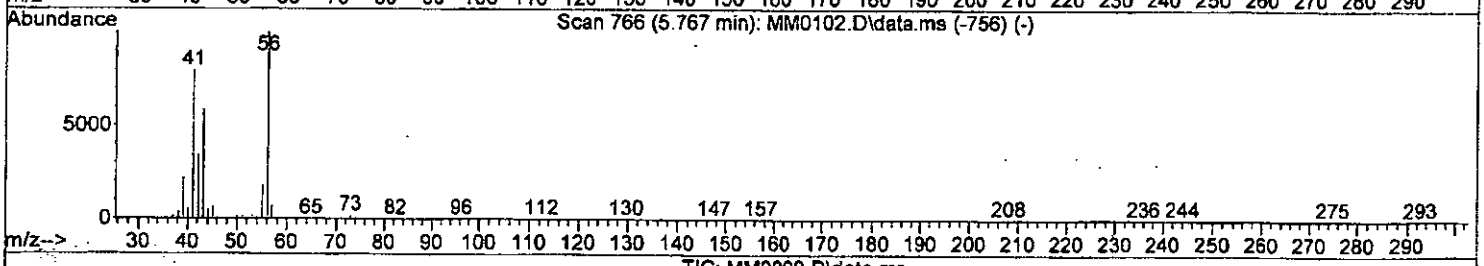
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(53) 1-Butanol

5.773min (+0.000) 64.53 ppb

response 10727

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

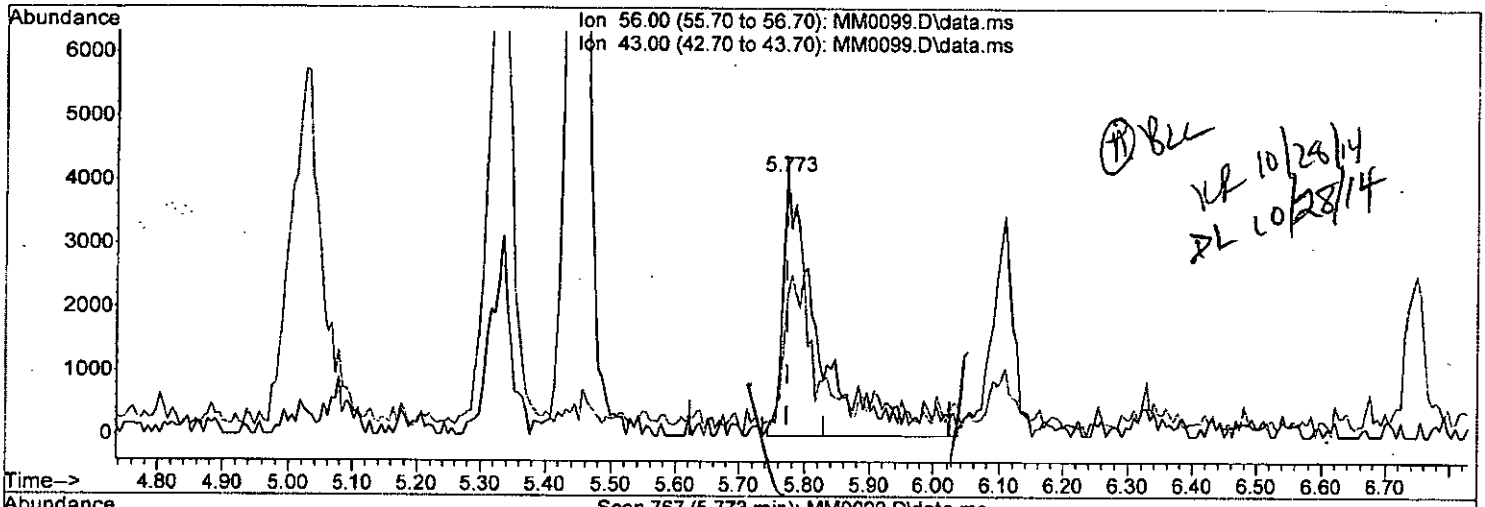
W102714.M Tue Oct 28 10:10:00 2014 Page: 1

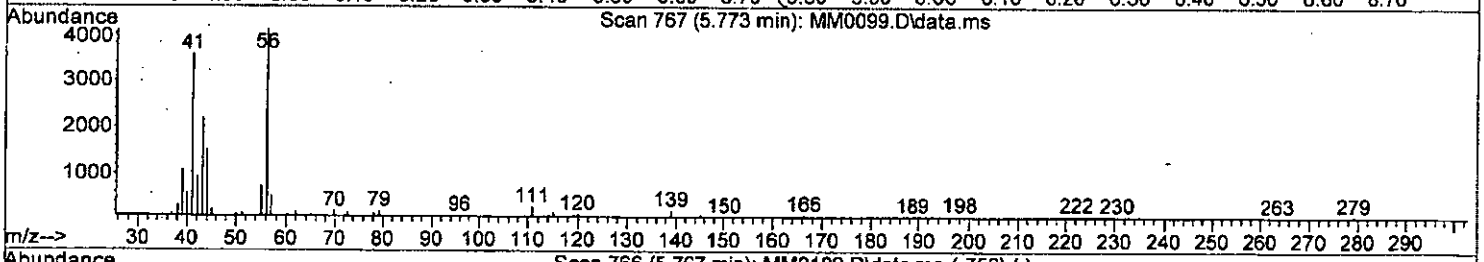
00136

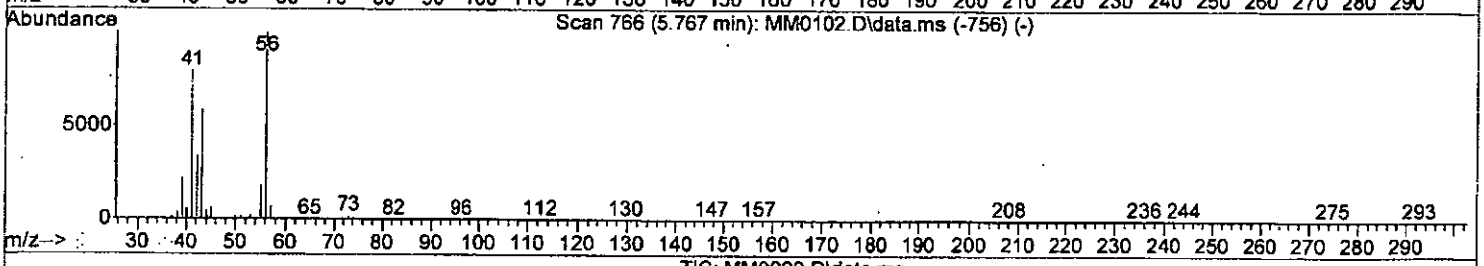
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(53) 1-Butanol

5.773min (+0.000) 98.32 ppb m

response 16346

Ion	Exp%	Act%
56.00	100	100
43.00	56.20	36.10#
0.00	0.00	0.00
0.00	0.00	0.00

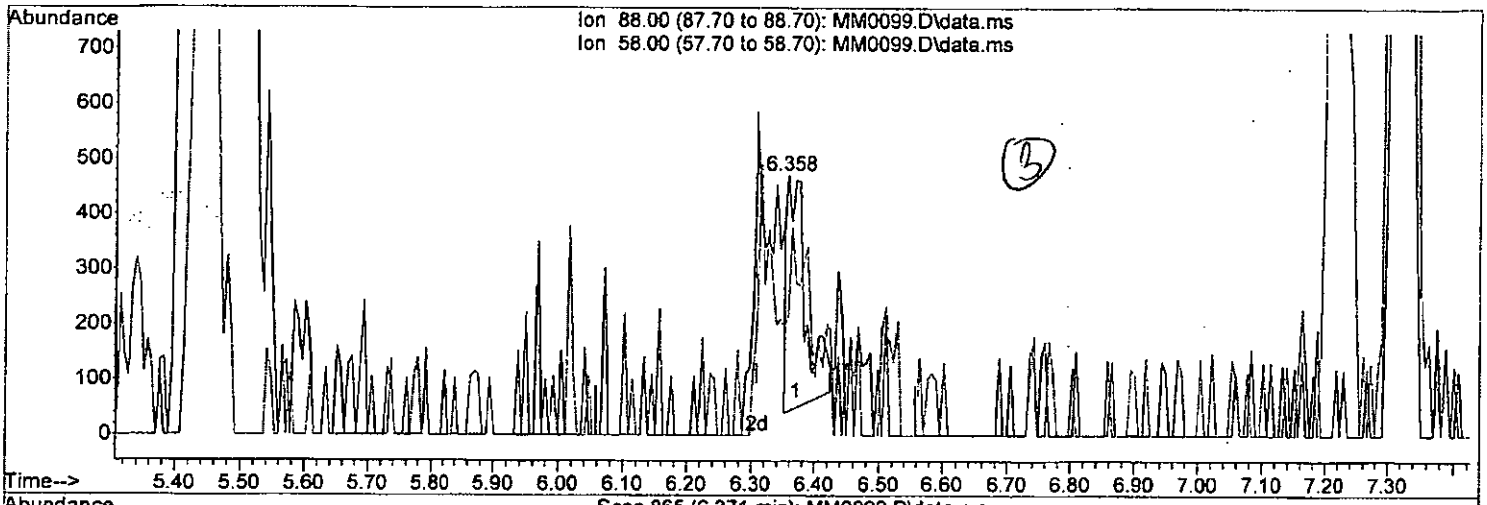
W102714.M Tue Oct 28 10:10:20 2014 Page: 1

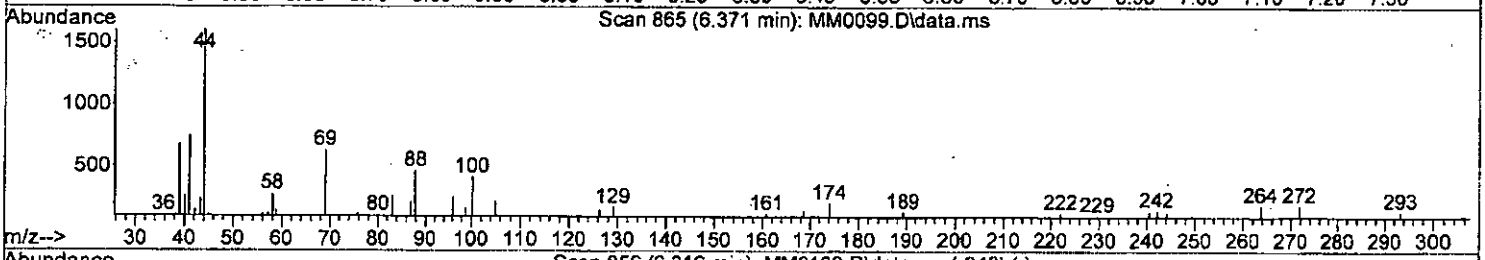
00137

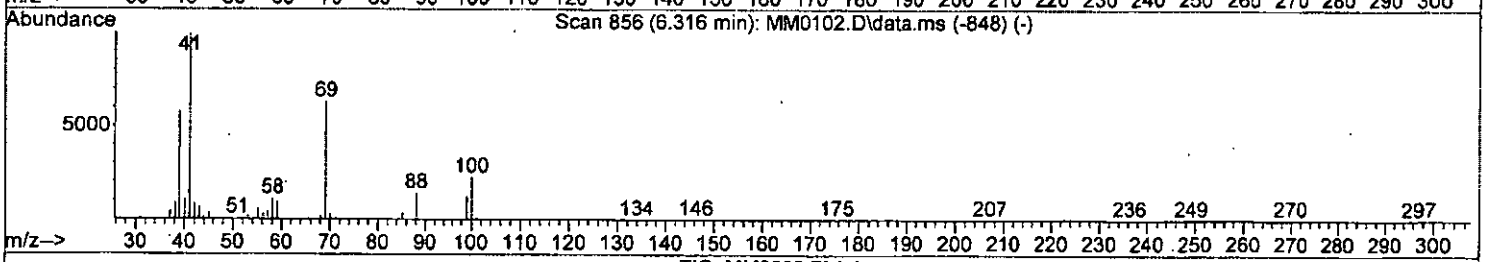
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(58) 1,4-Dioxane

6.371min (+0.062) 12.76 ppb

response 844

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	59.74
0.00	0.00	0.00
0.00	0.00	0.00

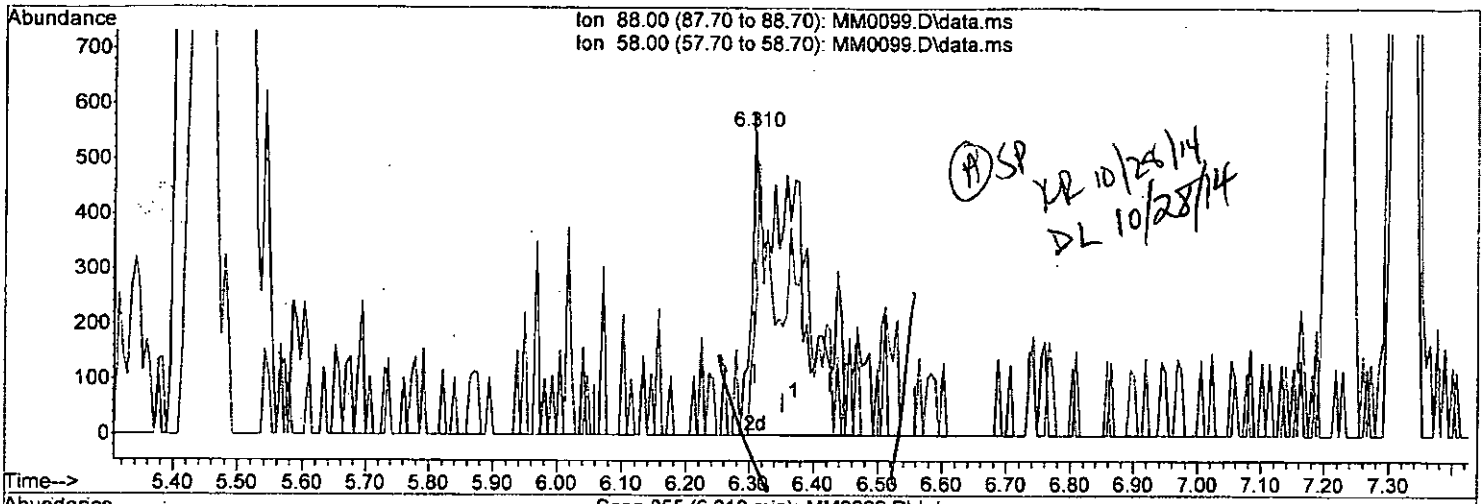
W102714.M Tue Oct 28 10:10:28 2014 Page: 1

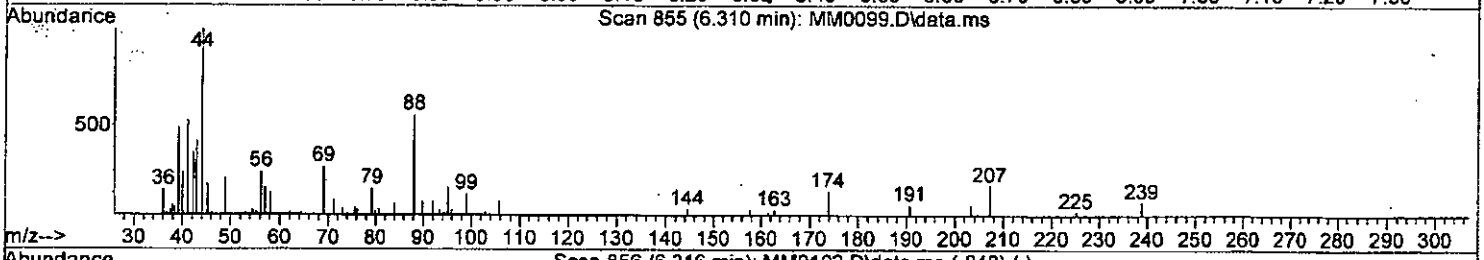
00138

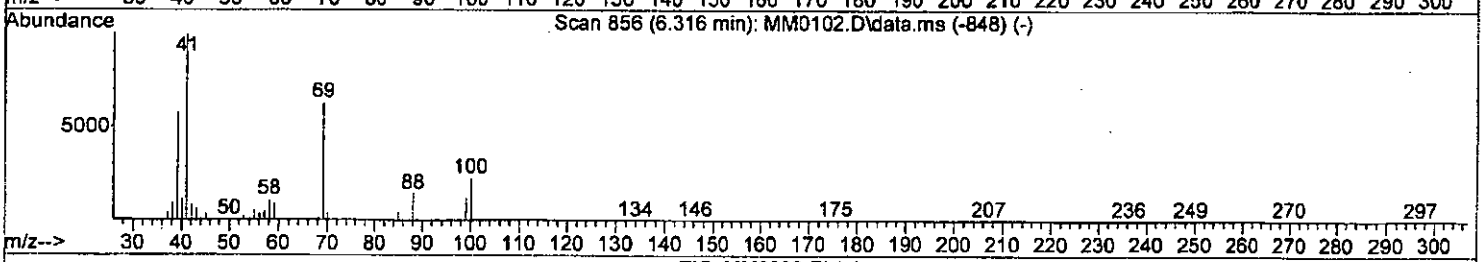
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(58) 1,4-Dioxane

6.310min (+0.001) 46.24 ppb m

response 3059

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	36.66#
0.00	0.00	0.00
0.00	0.00	0.00

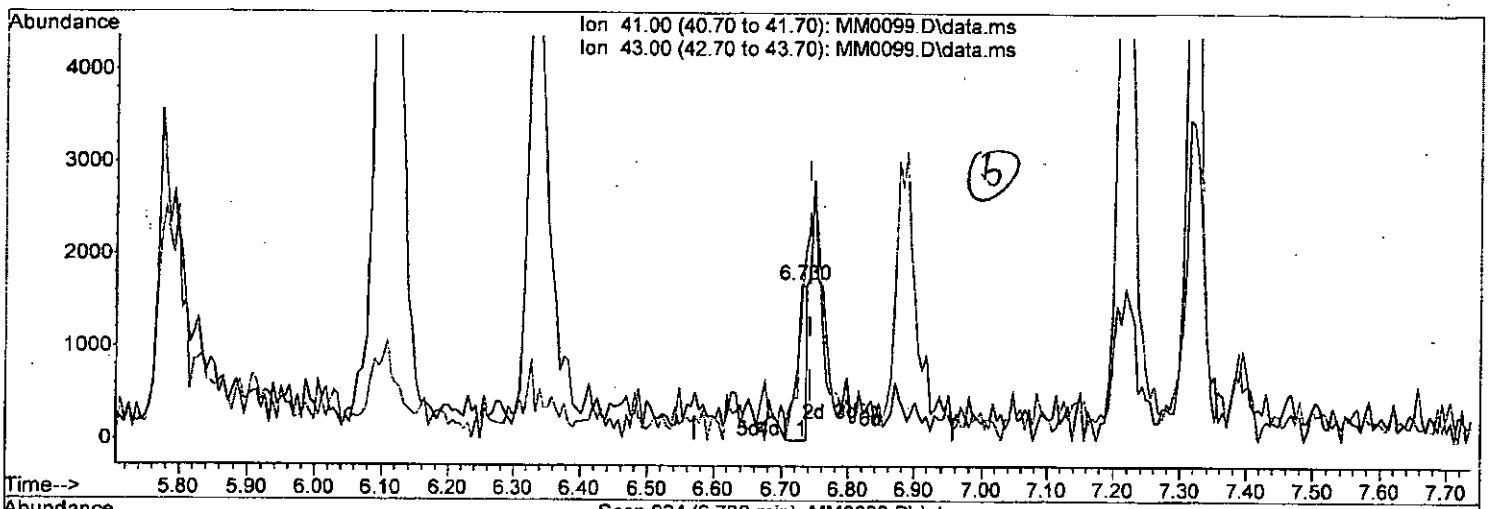
W102714.M Tue Oct 28 10:10:36 2014 Page: 1

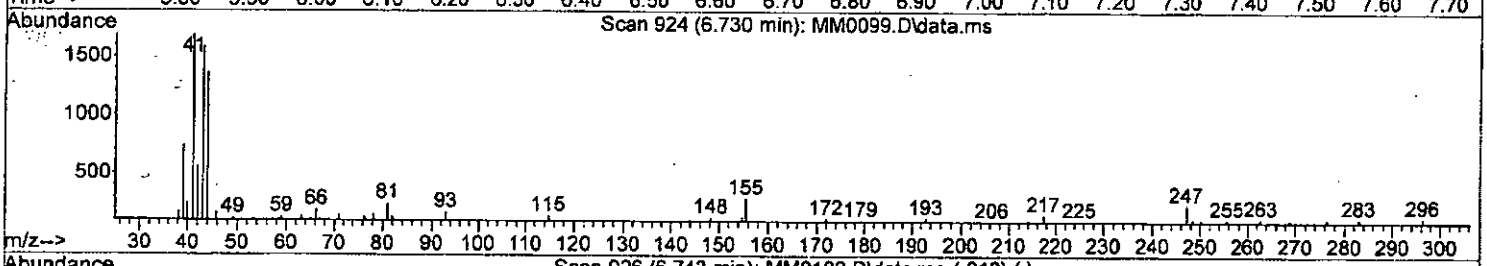
00139

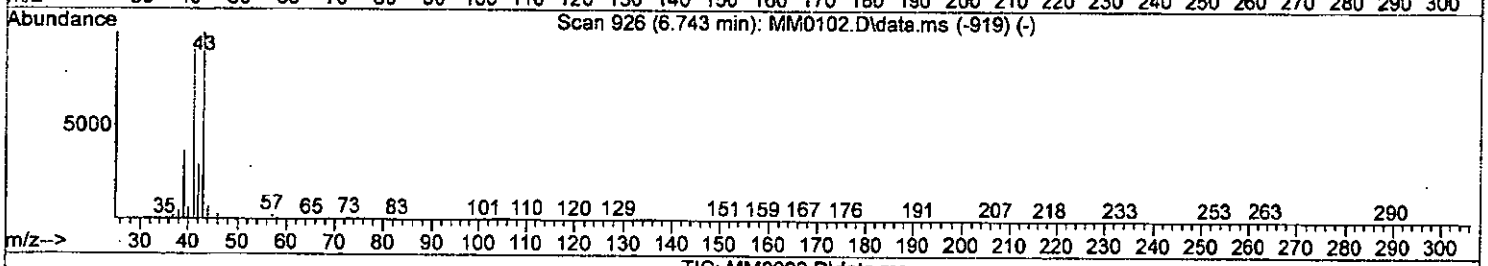
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(61) 2-Nitropropane

6.730min (-0.012) 1.28 ppb

response 1779

Ion	Exp%	Act%
41.00	100	100
43.00	110.00	93.78
0.00	0.00	0.00
0.00	0.00	0.00

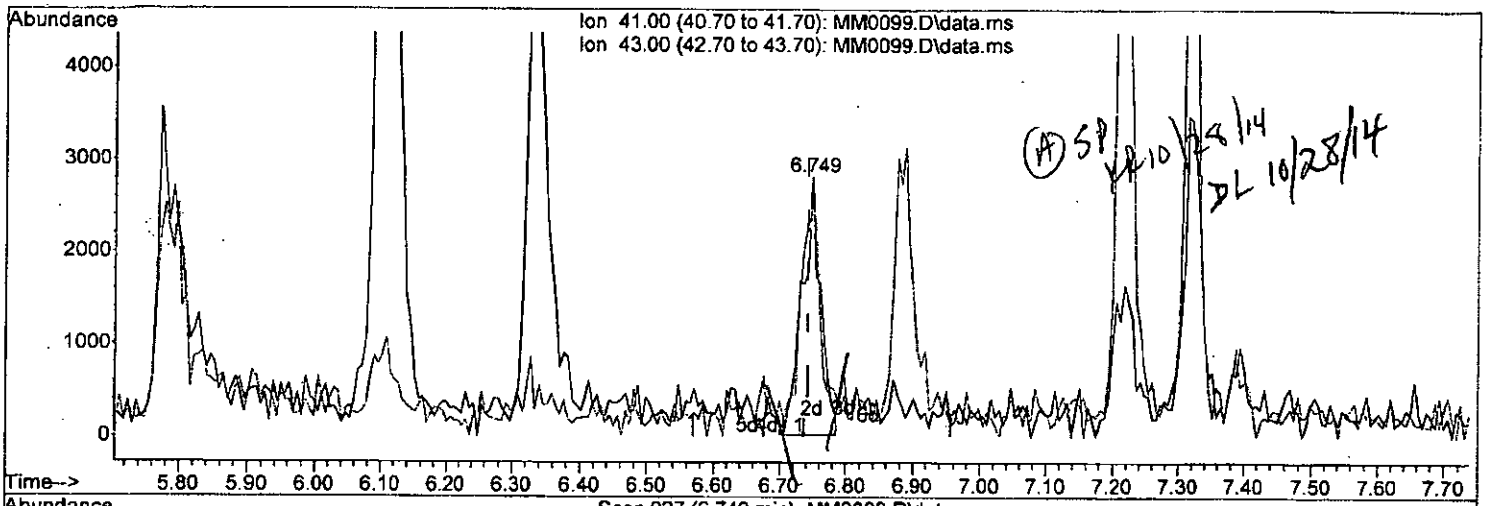
W102714.M Tue Oct 28 10:10:43 2014 Page: 1

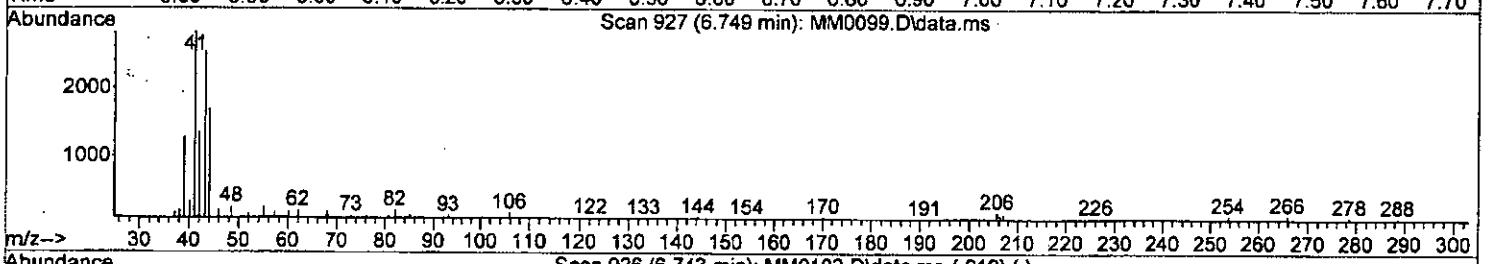
00140

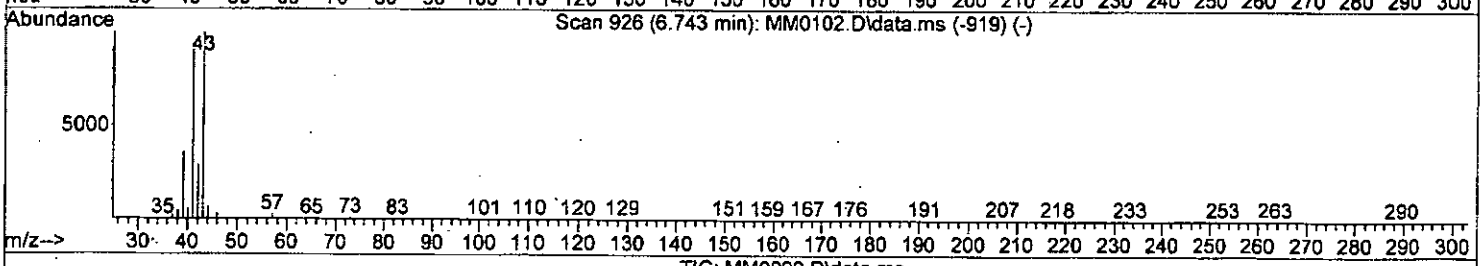
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(61) 2-Nitropropane

6.749min (+0.007) 3.88 ppb m

response 5394

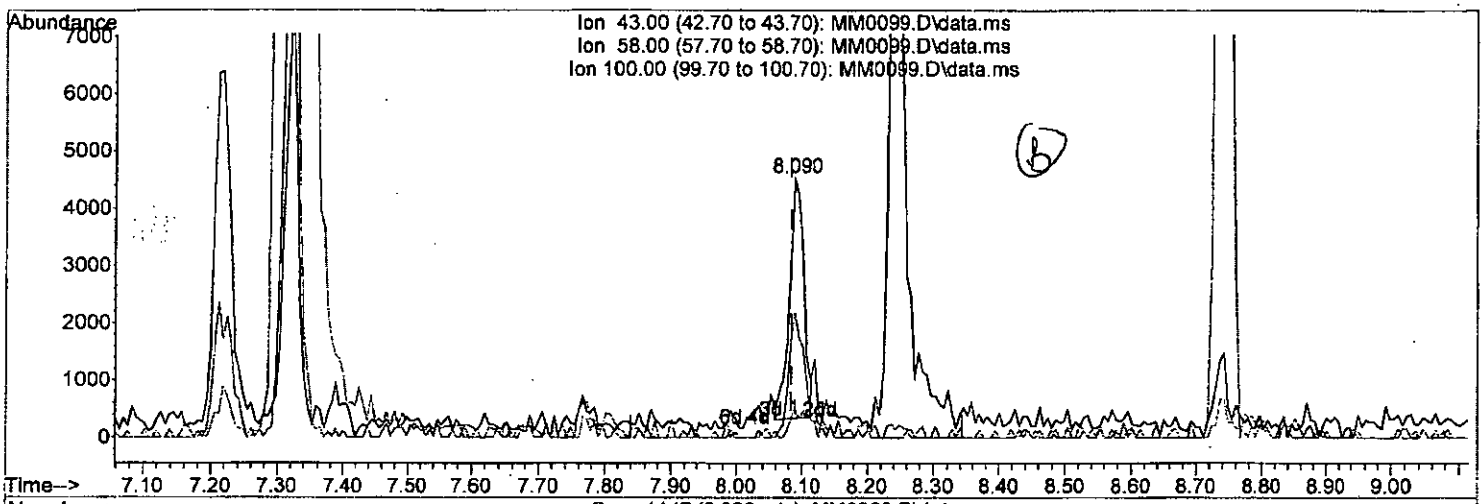
Ion	Exp%	Act%
41.00	100	100
43.00	110.00	89.98#
0.00	0.00	0.00
0.00	0.00	0.00

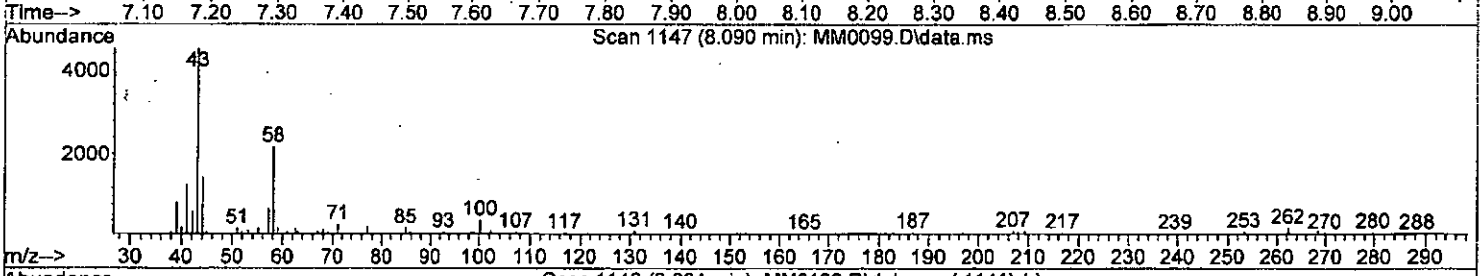
W102714.M Tue Oct 28 10:10:56 2014 Page: 1

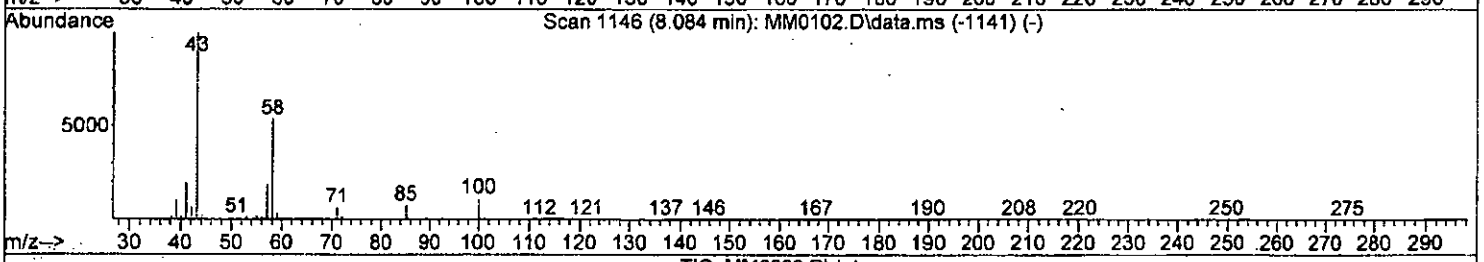
00141

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(73) 2-Hexanone (P)

8.090min (+0.006) 1.61 ppb

response 6523

Ion	Exp%	Act%
43.00	100	100
58.00	53.40	47.86
100.00	11.20	11.63
0.00	0.00	0.00

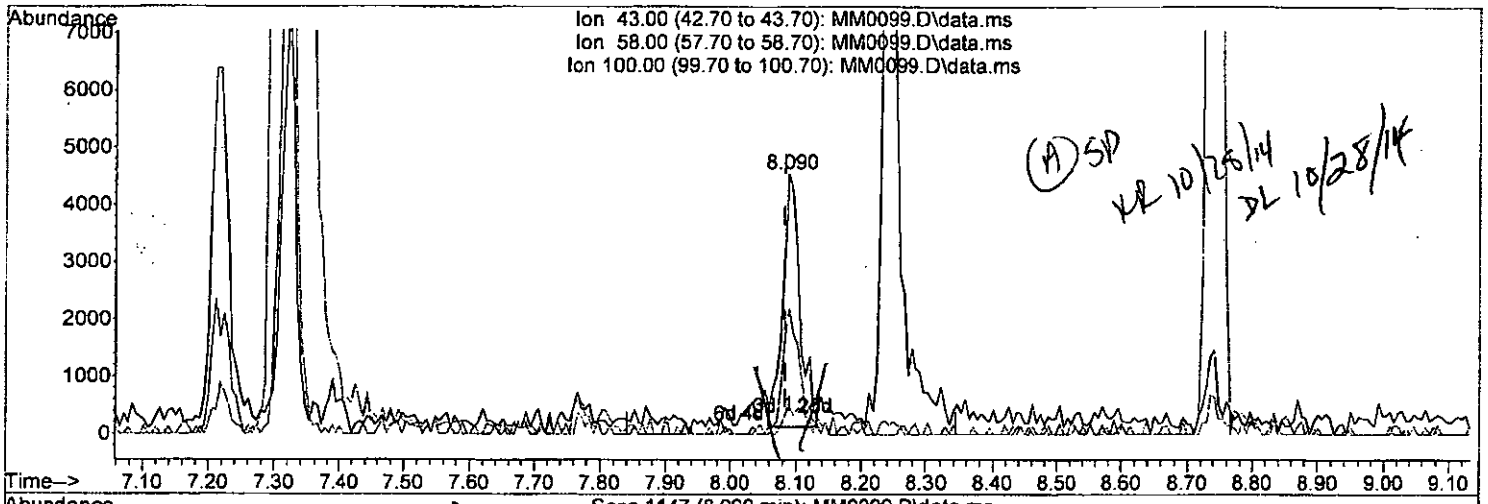
W102714.M Tue Oct 28 10:11:22 2014 Page: 1

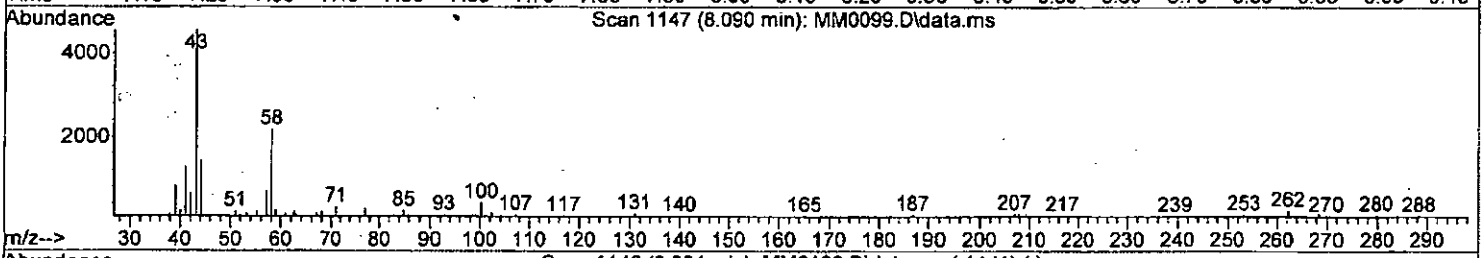
00142

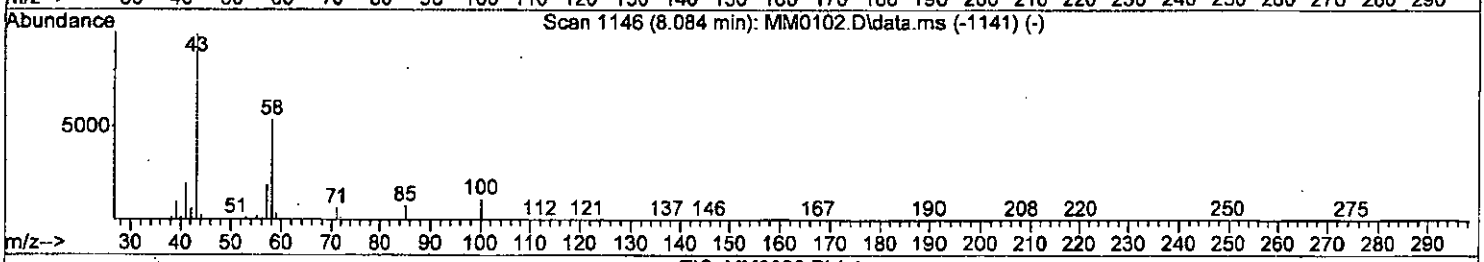
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(73) 2-Hexanone (P)

8.090min (+0.006) 1.92 ppb m

response 7803

Ion	Exp%	Act%
43.00	100	100
58.00	53.40	47.86
100.00	11.20	9.36
0.00	0.00	0.00

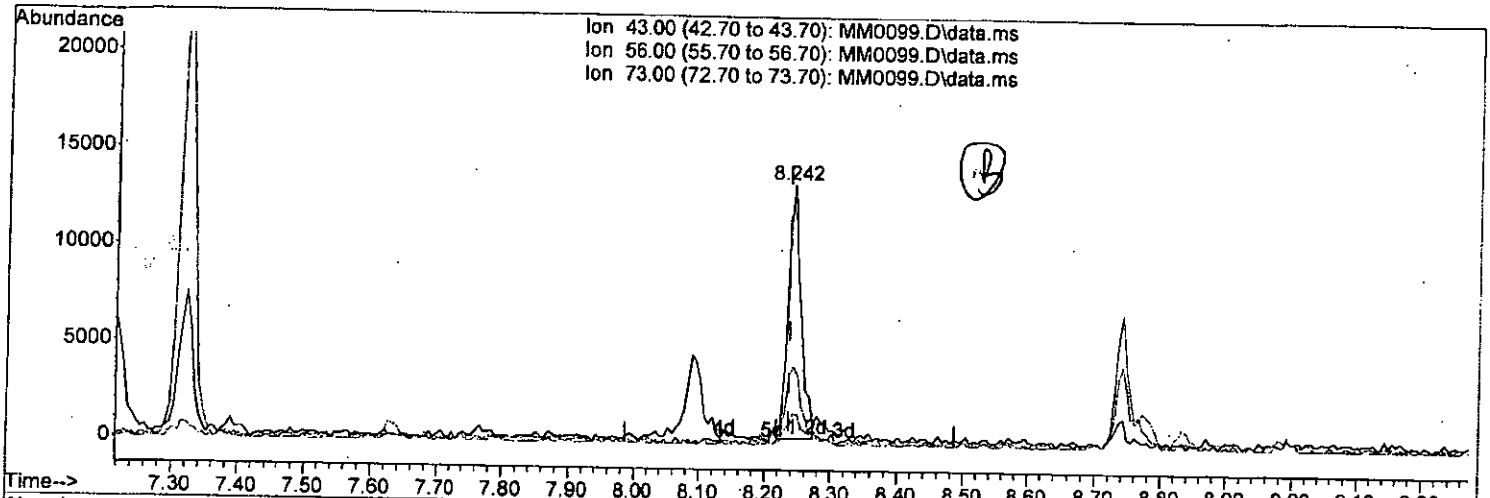
W102714.M Tue Oct 28 10:11:41 2014 Page: 1

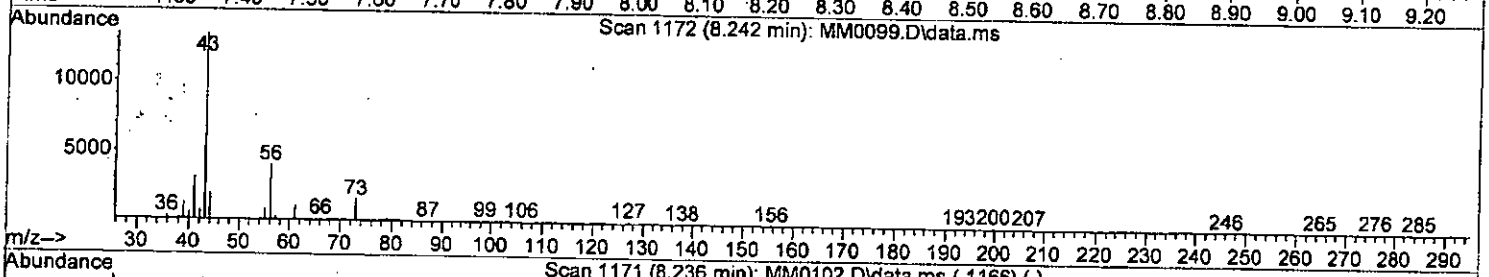
00143

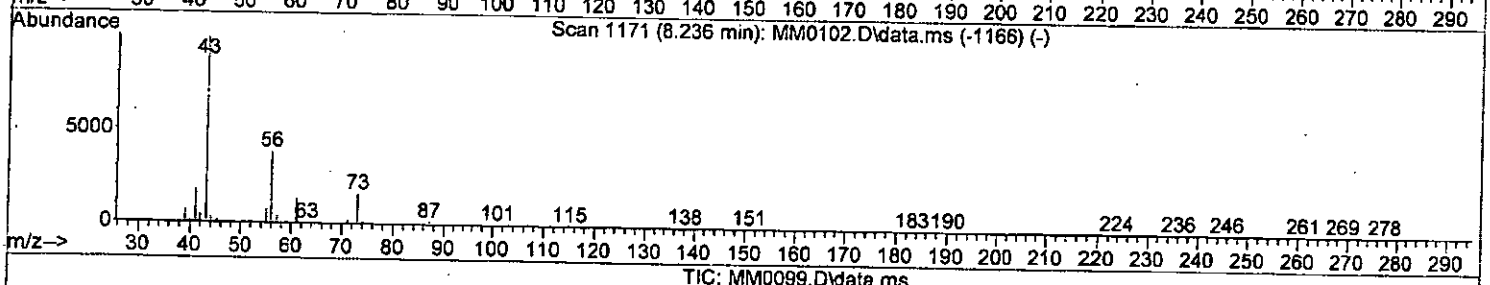
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(76) N-Butyl Acetate

8.242min (+0.006) 1.67 ppb

response 17430

Ion	Exp%	Act%
43.00	100	100
56.00	37.90	29.76
73.00	15.90	11.76
0.00	0.00	0.00

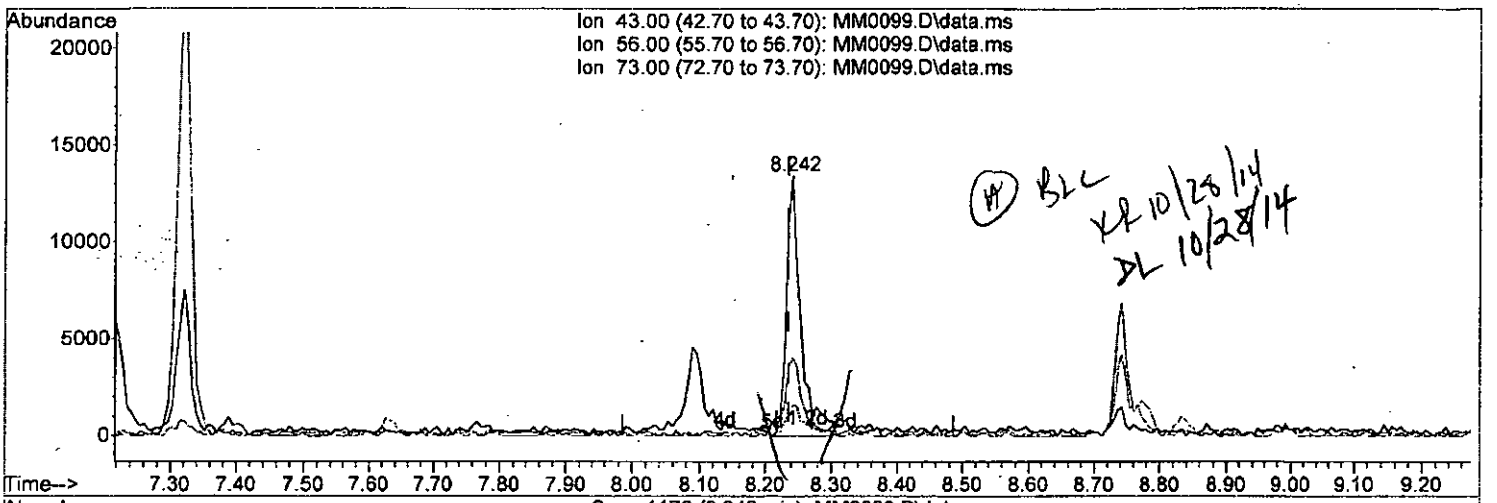
W102714.M Tue Oct 28 10:11:58 2014

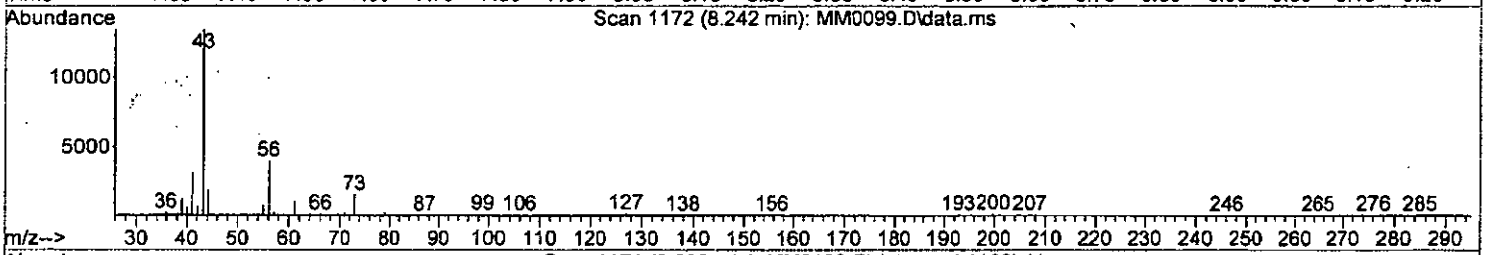
Page: 1

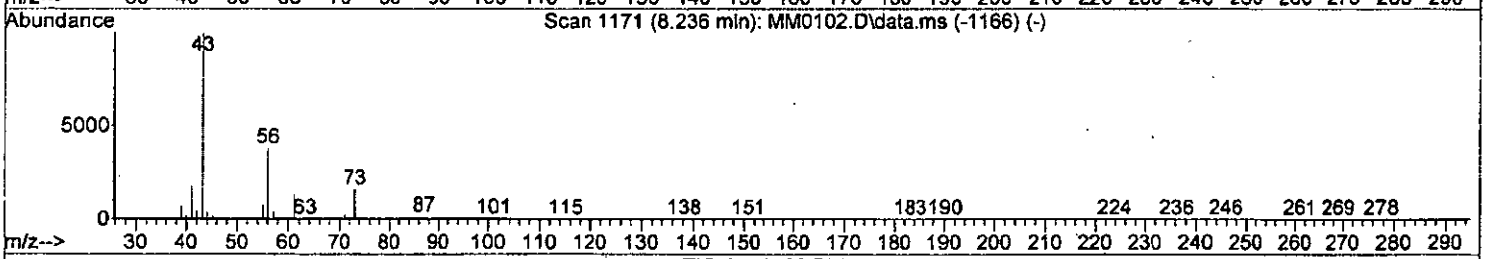
Quantitation Report (Qedit)

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:34 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0099.D\data.ms

(76) N-Butyl Acetate

8.242min (+0.006) 1.98 ppb m

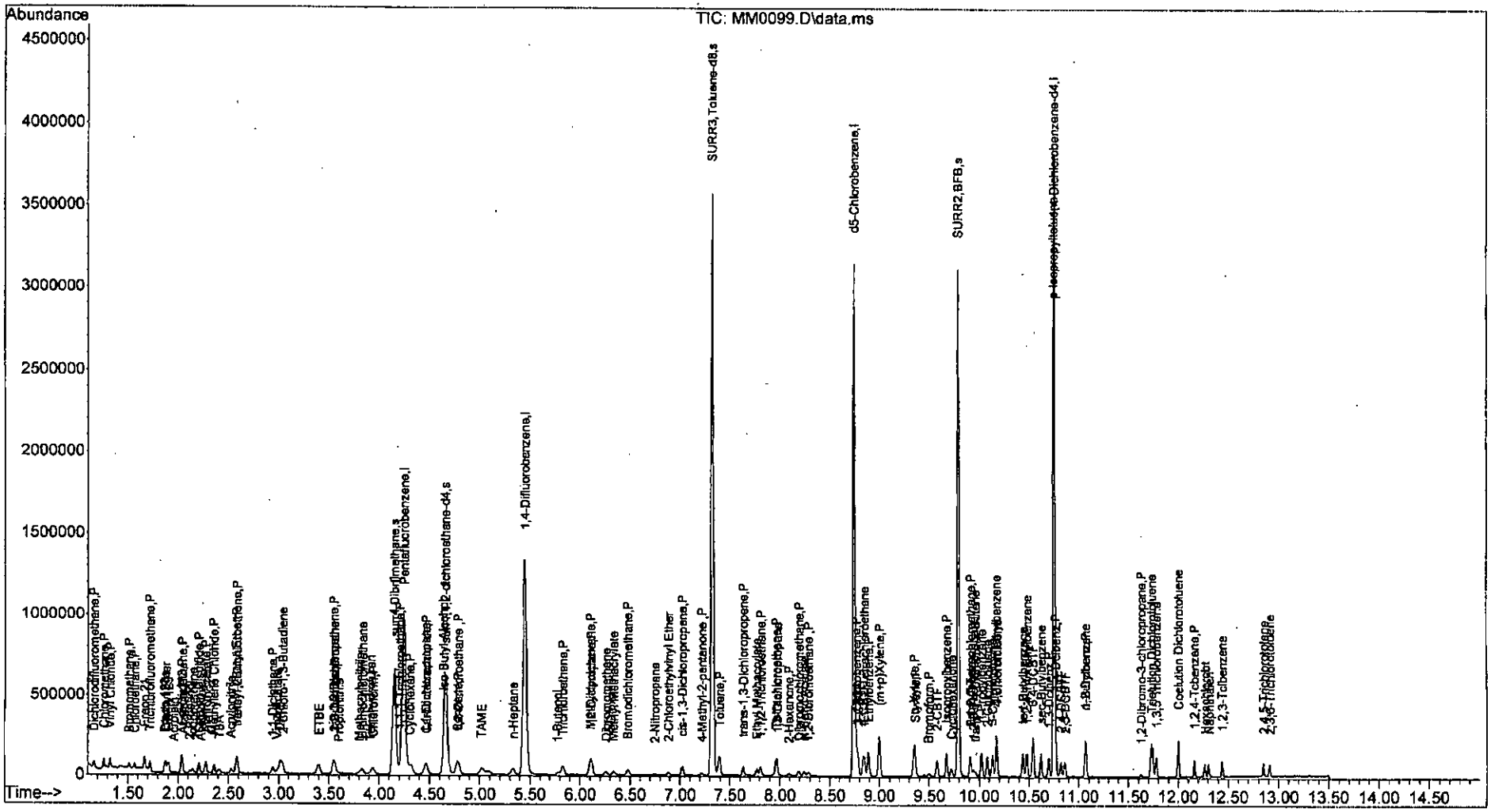
response 20680

Ion	Exp%	Act%
43.00	100	100
56.00	37.90	29.76
73.00	15.90	11.76
0.00	0.00	0.00

W102714.M Tue Oct 28 10:12:06 2014 Page: 1

Sample : 2.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0099.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:17 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:12:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



9 of 90

W102714.M Tue Oct 28 10:14:13 2014 Page: 4

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:28:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.249	168	862320	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.450	114	1305461	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1218173	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	667035	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	543306	71.46	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 142.92%#				
48) surr1,1,2-dichloroetha...	4.658	65	673748	72.78	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 145.56%#				
65) SURR3,Toluene-d8	7.322	98	2283804	71.36	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 142.72%#				
70) SURR2,BFB	9.785	95	871240	70.16	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 140.32%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	37045	4.54	ppb		94
3) Chloromethane	1.262	50	51861	4.66	ppb		96
4) Vinyl Chloride	1.323	62	56158	4.75	ppb		98
5) Bromomethane	1.512	94	25583	4.48	ppb		98
6) Chloroethane	1.567	64	37353	5.07	ppb		96
7) Freon 21	1.664	67	92928	5.06	ppb		97
8) Trichlorofluoromethane	1.719	101	71564	5.09	ppb		98
9) Diethyl Ether	1.878	59	30731	4.80	ppb		95
10) Freon 123a	1.872	67	50603	5.02	ppb		91
11) Freon 123	1.902	83	53895	5.02	ppb		97
12) Acrolein	1.951	56	7811	22.25	ppb		86
13) 1,1-Diclethene	2.042	96	34120	4.58	ppb		99
14) Freon 113	2.036	101	37727	4.95	ppb		100
15) Acetone	2.048	43	8681	4.72	ppb		90
16) 2-Propanol	2.115	45	34477	95.18	ppb		90
17) Iodomethane	2.146	142	49956	4.65	ppb		93
18) Carbon Disulfide	2.207	76	121228	4.84	ppb		99
19) Acetonitrile	2.225	40	7772	26.77	ppb		94
20) Allyl Chloride	2.274	76	20469	4.87	ppb		96
21) Methyl Acetate	2.274	43	22124	5.25	ppb		99
22) Methylene Chloride	2.359	84	40486	4.99	ppb		93
23) TBA	2.408	59	62934	104.97	ppb		94
24) Acrylonitrile	2.524	53	50235	25.60	ppb		100
25) Methyl-t-Butyl Ether	2.579	73	105794	5.07	ppb		97
26) trans-1,2-Dichloroethene	2.585	96	38881	4.83	ppb		96
28) 1,1-Diclethane	2.938	63	73815	4.96	ppb		98
29) Vinyl Acetate	2.981	86	6176	4.55	ppb	#	30
30) DIPE	3.018	45	155804	5.19	ppb		97
31) 2-Chloro-1,3-Butadiene	3.042	53	68907	5.01	ppb		90
32) ETBE	3.396	59	135880	5.23	ppb		96
33) 2,2-Dichloropropane	3.554	77	64054	4.85	ppb		94
34) cis-1,2-Dichloroethene	3.548	96	43243	4.96	ppb		99
35) 2-Butanone	3.554	43	12659	4.96	ppb		92
36) Propionitrile	3.603	54	18307m	25.96	ppb		
37) Bromochloromethane	3.829	130	24724	5.01	ppb		93

KP 10/28/14

W102714.M Tue Oct 28 10:28:56 2014 Page: 1

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:28:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.810	67	11292	5.18	ppb	#	70
39)	Tetrahydrofuran	3.908	42	8709	4.97	ppb		78
40)	Chloroform	3.938	83	72692	4.85	ppb		96
41)	1,1,1-Trichloroethane	4.213	97	64906	4.83	ppb	#	31
42)	TAME	5.029	73	109472	5.00	ppb		99
44)	Cyclohexane	4.316	41	48271	5.02	ppb		91
46)	Carbontetrachloride	4.469	121	15888	4.66	ppb		88
47)	1,1-Dichloropropene	4.463	75	55329	4.85	ppb		97
49)	Benzene	4.780	78	166001	4.96	ppb		99
50)	1,2-Dichloroethane	4.786	62	57304	5.09	ppb		99
51)	Iso-Butyl Alcohol	4.633	43	25319	98.90	ppb		99
52)	n-Heptane	5.328	43	49077	4.54	ppb		96
53)	1-Butanol	5.773	56	38345m	231.54	ppb		
54)	Trichloroethene	5.828	130	42861	4.89	ppb		96
55)	Methylcyclohexane	6.102	55	54265	4.84	ppb		99
56)	1,2-Diclpropane	6.115	63	42785	4.88	ppb		100
57)	Dibromomethane	6.255	93	20491	4.94	ppb		94
58)	1,4-Dioxane	6.322	88	7534m	114.32	ppb		
59)	Methyl Methacrylate	6.334	69	19933	4.93	ppb		98
60)	Bromodichloromethane	6.474	83	49271	4.75	ppb		97
61)	2-Nitropropane	6.743	41	11477	8.29	ppb		88
62)	2-Chloroethylvinyl Ether	6.883	63	20231	4.96	ppb		92
63)	cis-1,3-Dichloropropene	7.023	75	62835	4.86	ppb		97
64)	4-Methyl-2-pentanone	7.212	43	29351	4.92	ppb		93
66)	Toluene	7.395	91	180291	5.00	ppb		98
67)	trans-1,3-Dichloropropene	7.627	75	52827	4.79	ppb		96
68)	Ethyl Methacrylate	7.767	69	41763	4.90	ppb		98
69)	1,1,2-Trichloroethane	7.809	97	30425	5.01	ppb		91
72)	Tetrachloroethene	7.962	164	34339	4.90	ppb		89
73)	2-Hexanone	8.090	43	20202	4.99	ppb		91
74)	1,3-Dichloropropane	7.968	76	55152	5.05	ppb		98
75)	Dibromochloromethane	8.187	129	28588	4.36	ppb		96
76)	N-Butyl Acetate	8.242	43	51231	4.92	ppb		94
77)	1,2-Dibromoethane	8.285	107	29063	5.08	ppb		95
78)	Chlorobenzene	8.767	112	113982	4.83	ppb		97
79)	3-CBTF	8.785	180	62196	4.81	ppb		98
80)	4-CBTF	8.834	180	53427	4.62	ppb		95
81)	1,1,1,2-Tetrachloroethane	8.846	131	35790	4.61	ppb		98
82)	Ethylbenzene	8.888	106	61264	4.81	ppb		97
83)	(m+p)Xylene	8.998	106	149529	9.71	ppb		96
84)	o-Xylene	9.346	106	71399	4.61	ppb		95
85)	Styrene	9.352	104	120875	4.72	ppb		98
87)	Bromoform	9.498	173	15555	4.69	ppb		96
88)	2-CBTF	9.577	180	60047	5.11	ppb		98
89)	Isopropylbenzene	9.669	105	184224	5.18	ppb		100
90)	Cyclohexanone	9.718	55	41298	105.59	ppb		92
91)	trans-1,4-Dichloro-2-B...	9.961	53	10233	4.78	ppb		93
92)	1,1,2,2-Tetrachloroethane	9.913	83	35184	5.07	ppb		99
93)	Bromobenzene	9.907	156	45836	4.88	ppb		95
94)	1,2,3-Trichloropropane	9.943	110	11252	5.35	ppb	#	77
95)	n-Propylbenzene	10.022	91	214176	5.19	ppb		99
96)	2-Chlorotoluene	10.077	91	127512	5.10	ppb		96

W102714.M Tue Oct 28 10:28:56 2014 Page: 2

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:28:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

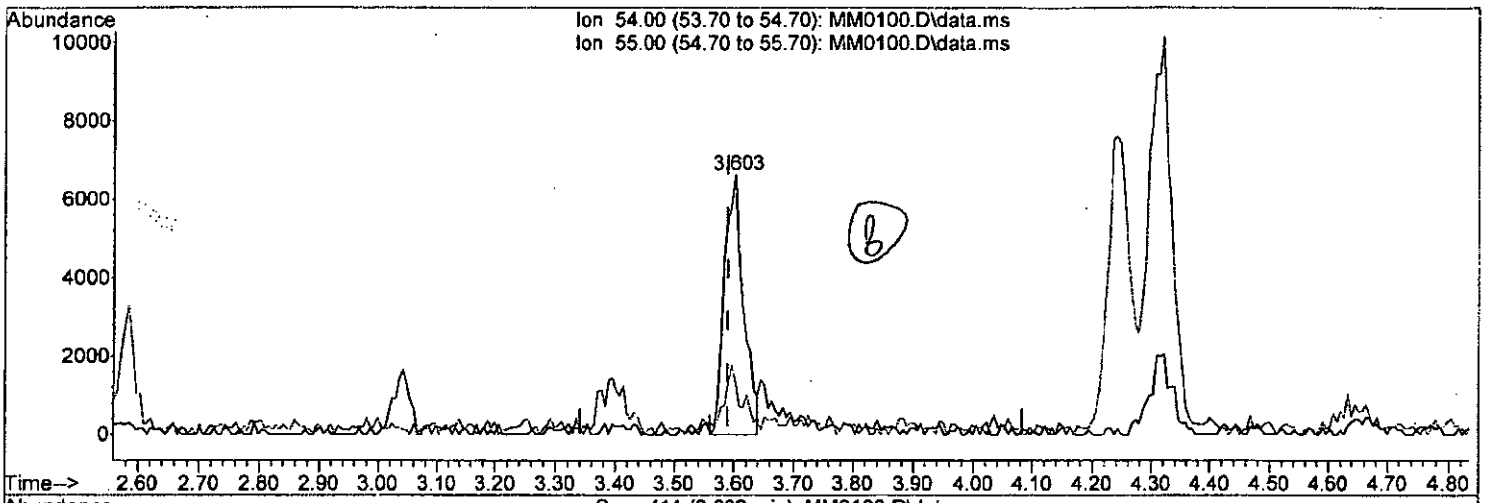
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	3-Chlorotoluene	10.132	91	138750	5.22	ppb		95
98)	4-Chlorotoluene	10.175	91	156335	4.99	ppb		99
99)	1,3,5-Trimethylbenzene	10.169	105	152511	4.94	ppb		96
100)	tert-Butylbenzene	10.437	119	128268	5.14	ppb		96
101)	1,2,4-Trimethylbenzene	10.474	105	154027	5.09	ppb		100
102)	3,4-DCBTF	10.535	214	41501	4.69	ppb		92
103)	sec-Butylbenzene	10.620	105	174021	4.96	ppb		99
104)	p-Isopropyltoluene	10.742	119	151170	4.96	ppb		98
105)	1,3-Dclbenz	10.699	146	88792	4.95	ppb		96
106)	1,4-Dclbenz	10.766	146	90938	4.85	ppb		95
107)	2,4-DCBTF	10.821	214	37461	4.94	ppb		94
108)	2,5-DCBTF	10.858	214	41754	4.86	ppb		98
109)	n-Butylbenzene	11.065	91	133014	4.93	ppb		97
110)	1,2-Dclbenz	11.065	146	83622	4.96	ppb		98
111)	1,2-Dibromo-3-chloropr...	11.626	157	5788	4.96	ppb	#	86
112)	Trielution Dichlorotol...	11.729	125	209612	15.15	ppb		99
113)	1,3,5 Trichlorobenzene	11.778	180	58017	5.01	ppb		99
114)	Coelution Dichlorotoluene	11.998	125	151274	10.44	ppb		98
115)	1,2,4-Tcbenzene	12.156	180	50150	5.08	ppb		98
116)	Hexachlorobt	12.266	225	20149	5.16	ppb		99
117)	Naphthalen	12.302	128	97021	5.17	ppb		98
118)	1,2,3-Tclbenzene	12.437	180	41274	4.91	ppb		96
119)	2,4,5-Trichlorotolene	12.851	159	28526	5.02	ppb		97
120)	2,3,6-Trichlorotoluene	12.912	159	26435	5.03	ppb		98

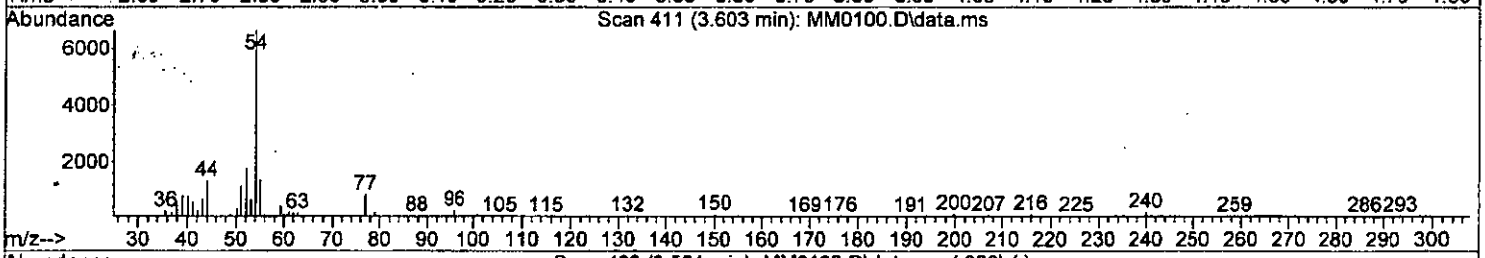
(#) = qualifier out of range (m) = manual integration (+) = signals summed

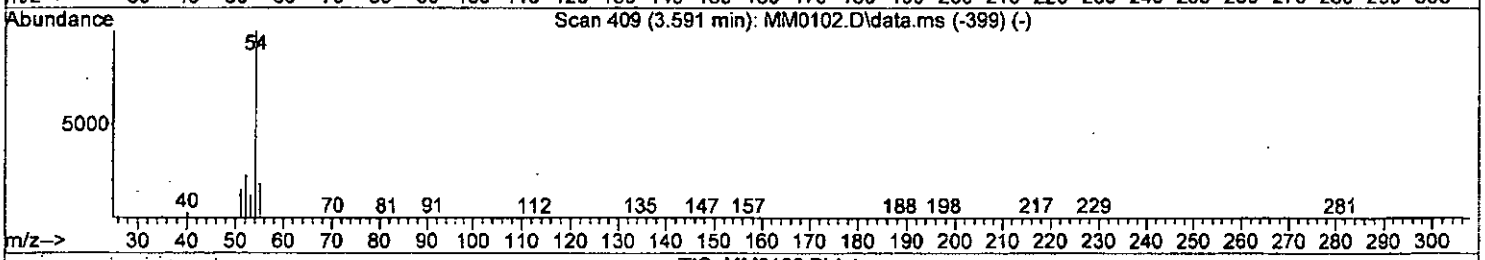
Quantitation Report (Qedit)

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:38 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0100.D\data.ms

(36) Propionitrile

3.603min (+0.013) 20.86 ppb

response 14707

Ion	Exp%	Act%
54.00	100	100
55.00	18.80	20.57
0.00	0.00	0.00
0.00	0.00	0.00

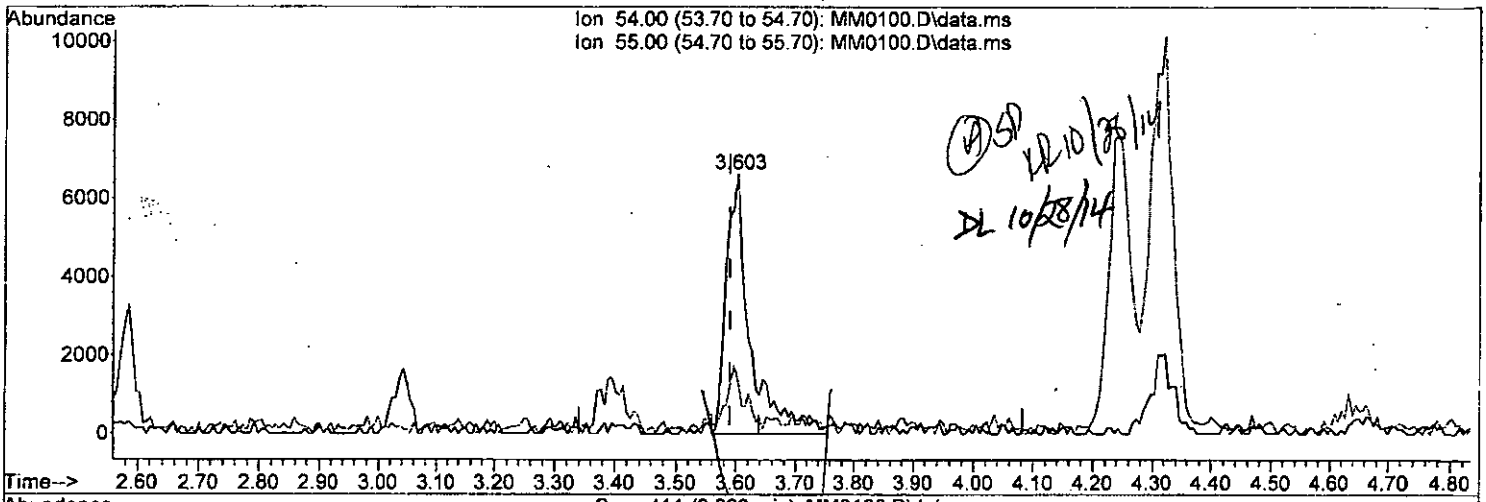
W102714.M Tue Oct 28 10:26:50 2014 Page: 1

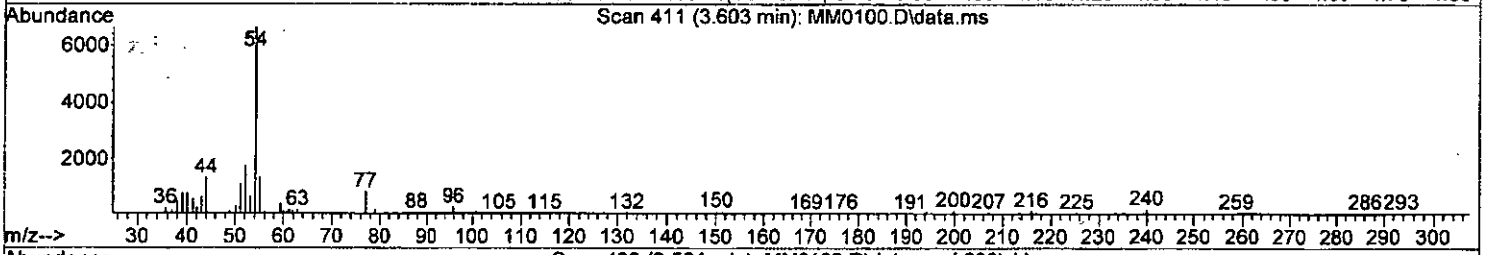
00150

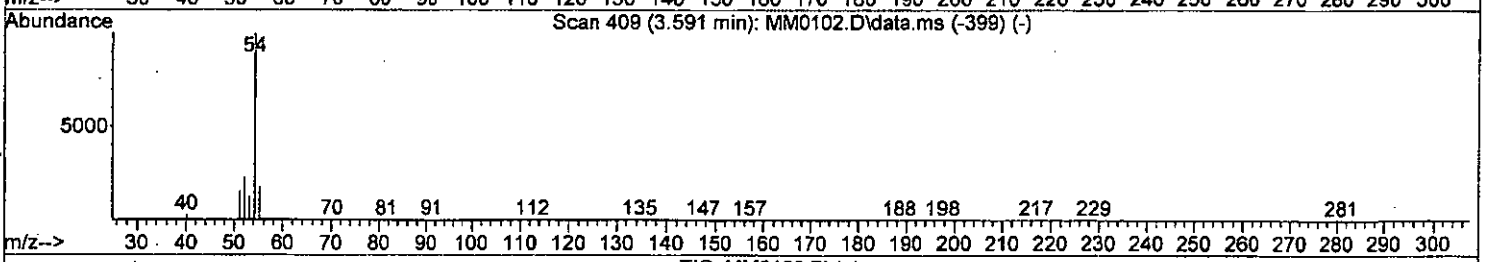
Quantitation Report (Qedit)

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:38 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration.







TIC: MM0100.D\data.ms

(36) Propionitrile

3.603min (+0.013) 25.96 ppb m

response 18307

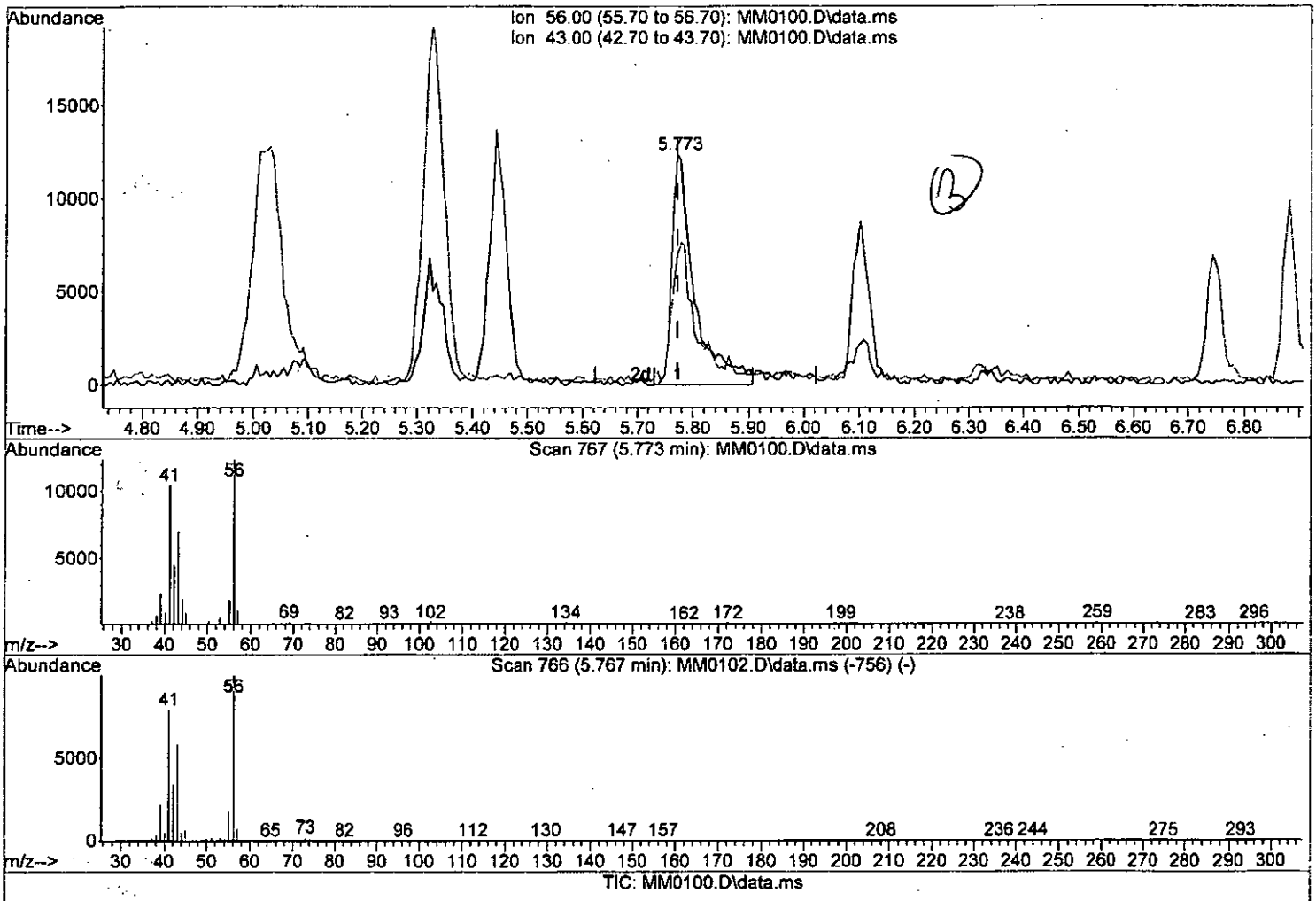
Ion	Exp%	Act%
54.00	100	100
55.00	18.80	20.57
0.00	0.00	0.00
0.00	0.00	0.00

W102714.M Tue Oct 28 10:27:00 2014 Page: 1

00151

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:38 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



TIC: MM0100.D\data.ms

(53) 1-Butanol

5.773min (+0.000) 211.06 ppb

response 34953

Ion	Exp%	Act%
56.00	100	100
43.00	56.20	59.67
0.00	0.00	0.00
0.00	0.00	0.00

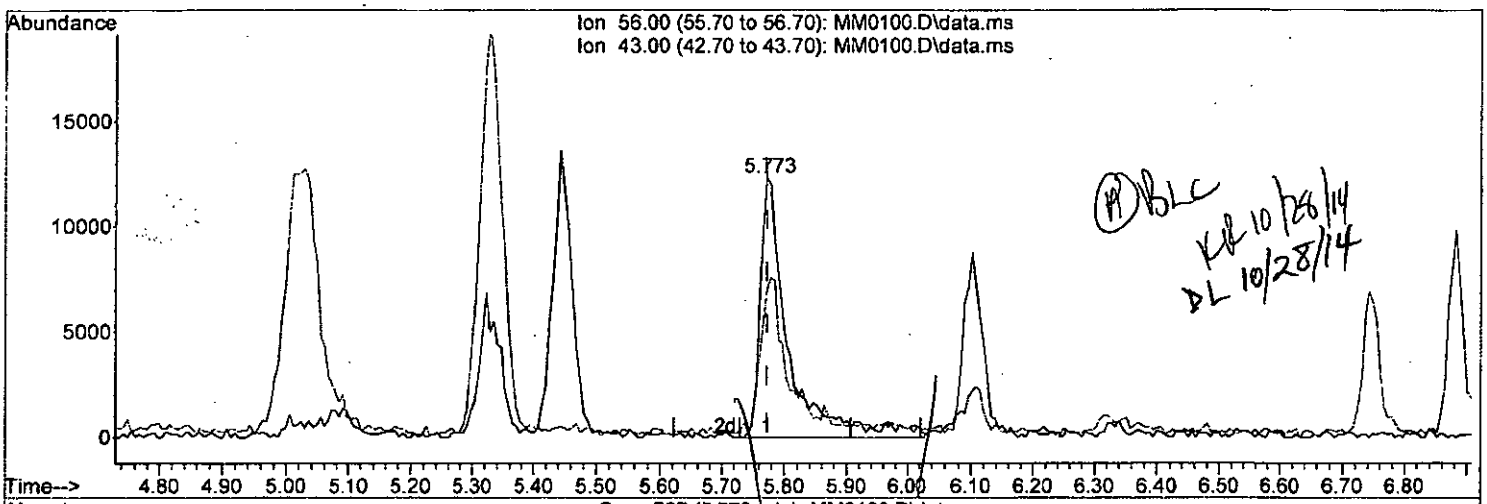
W102714.M Tue Oct 28 10:27:24 2014 Page: 1

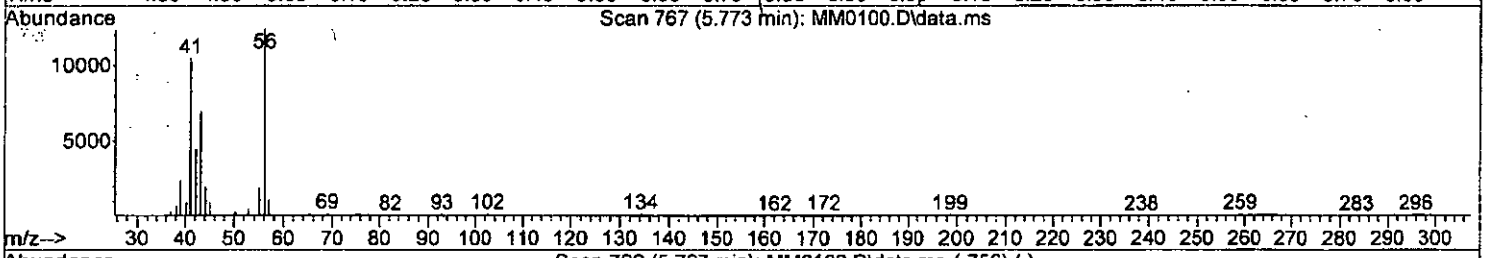
00152

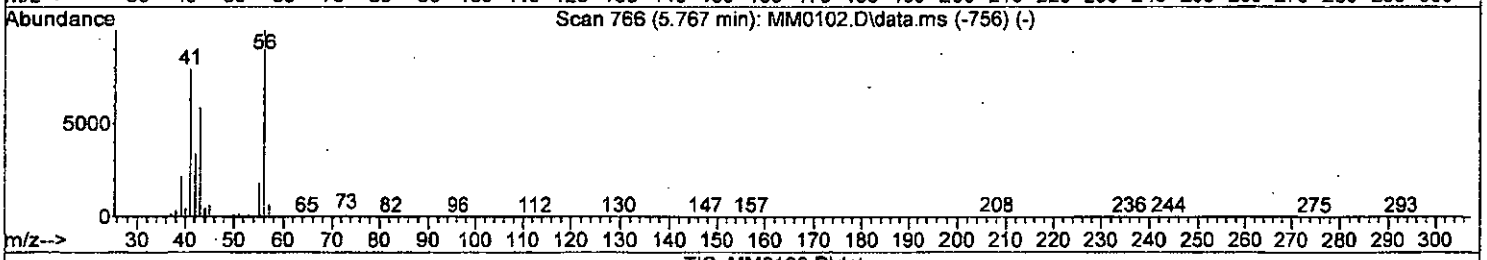
Quantitation Report (Qedit)

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:38 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0100.D\data.ms

(53) 1-Butanol

5.773min (+0.000) 231.54 ppb m

response 38345

Ion	Exp%	Act%
56.00	100	100
43.00	56.20	54.39
0.00	0.00	0.00
0.00	0.00	0.00

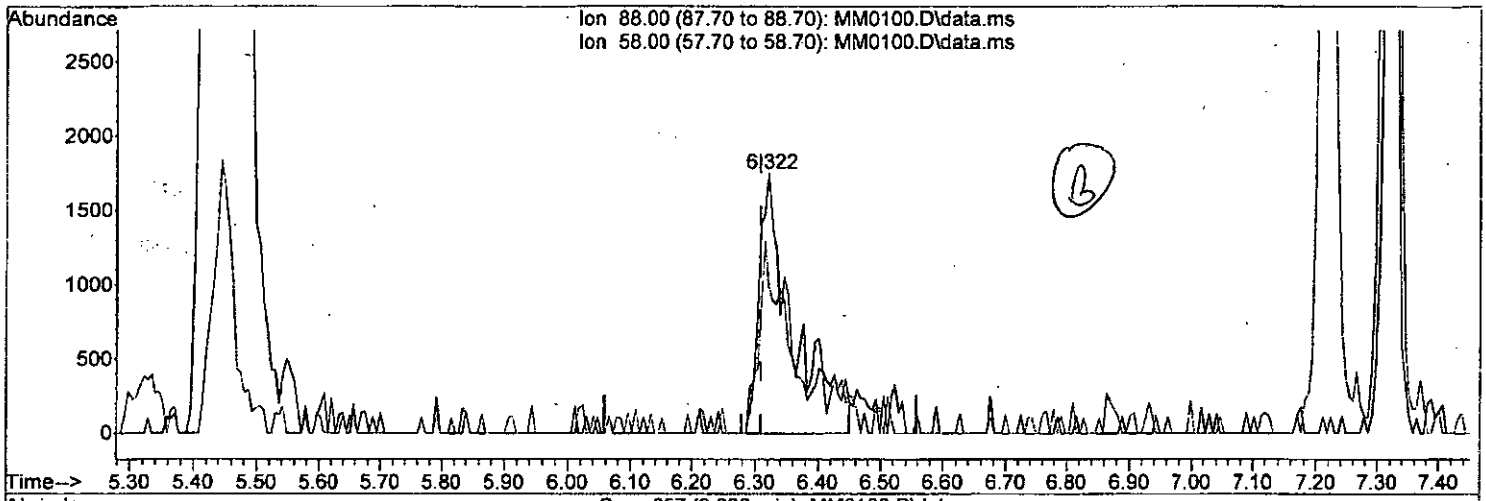
W102714.M Tue Oct 28 10:27:34 2014 Page: 1

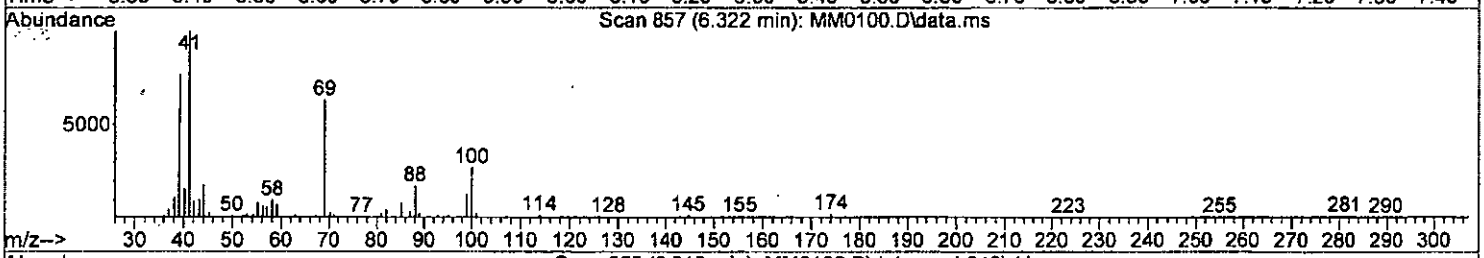
00153

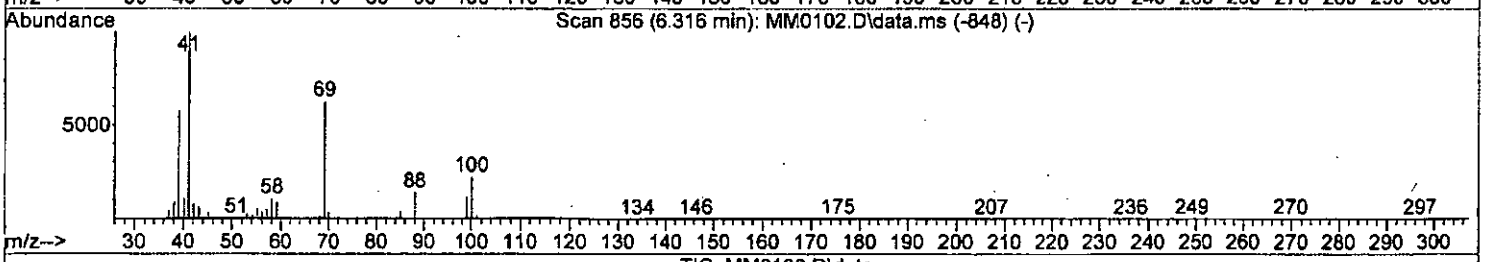
Quantitation Report (Qedit)

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:38 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0100.D\data.ms

(58) 1,4-Dioxane

6.322min (+0.013) 99.50 ppb

response 6557

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	56.33#
0.00	0.00	0.00
0.00	0.00	0.00

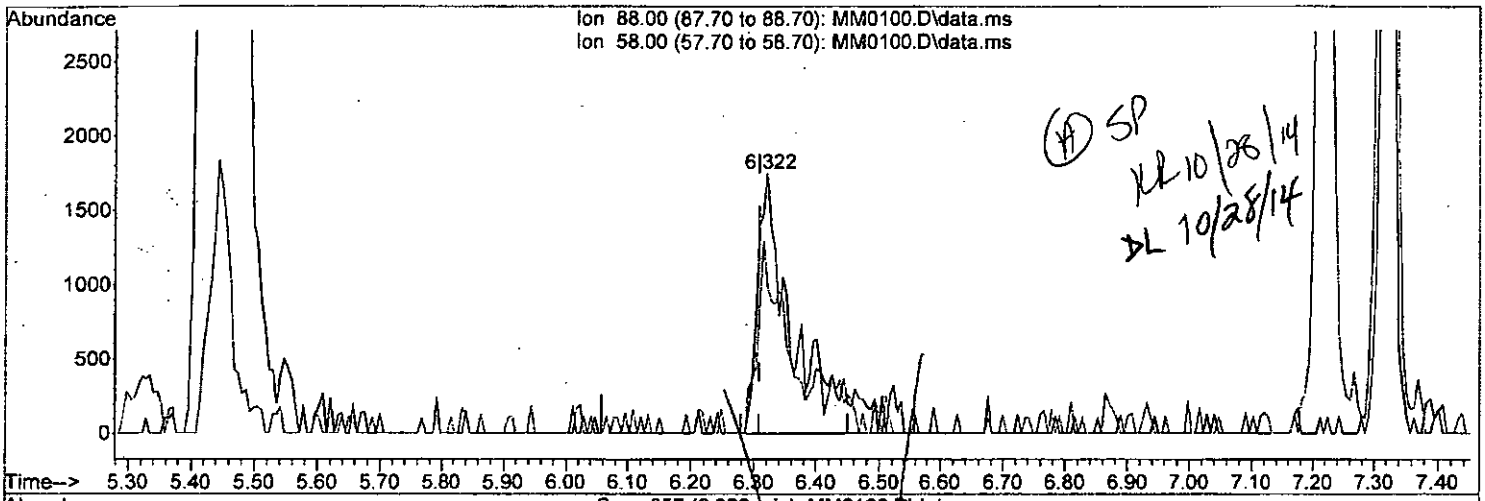
W102714.M Tue Oct 28 10:27:59 2014 Page: 1

0154

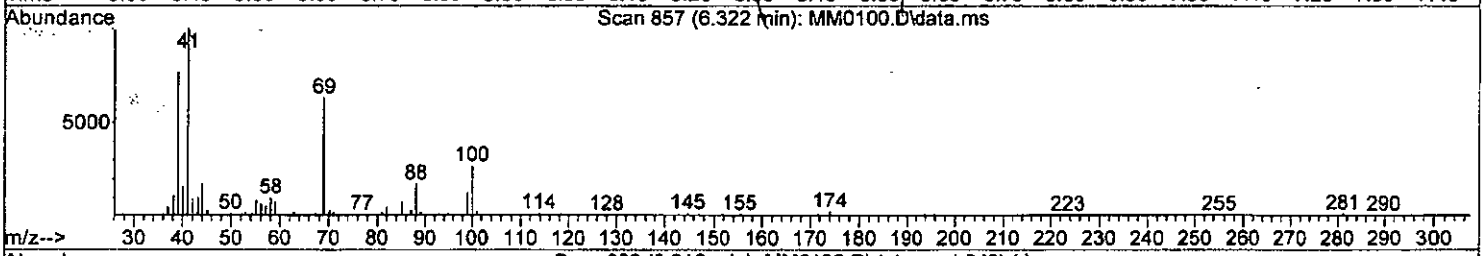
Quantitation Report (Qedit)

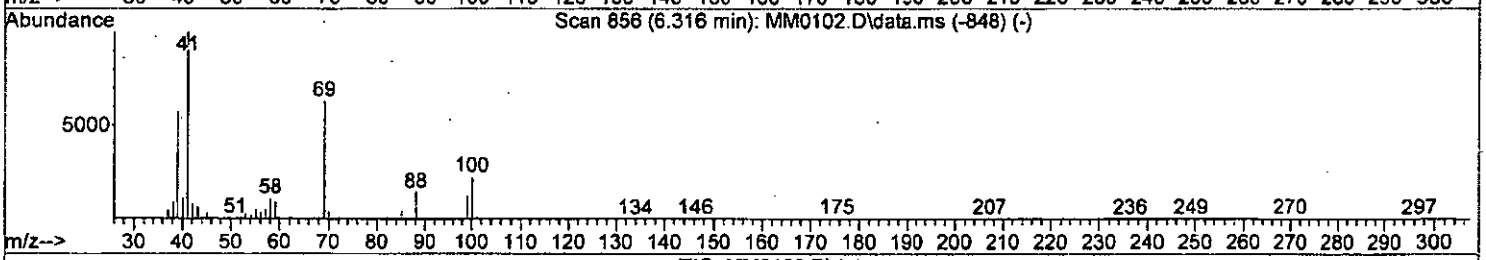
Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:38 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



(#) SP KL 10/28/14 DL 10/28/14





TIC: MM0100.D\data.ms

(58) 1,4-Dioxane

6.322min (+0.013) 114.32 ppb m

response 7534

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	56.33#
0.00	0.00	0.00
0.00	0.00	0.00

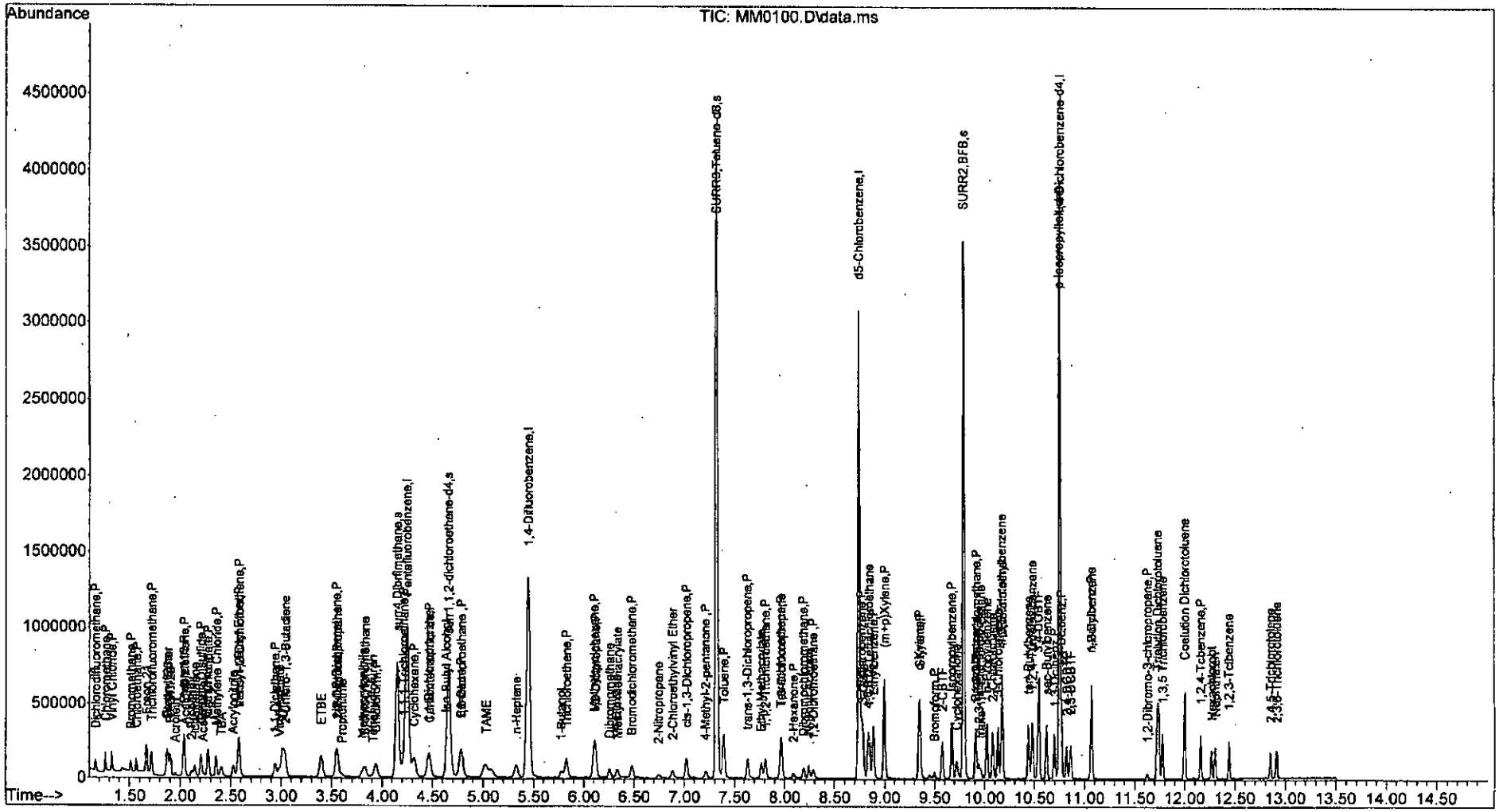
W102714.M Tue Oct 28 10:28:06 2014 Page: 1

00155

Quantitation Report (QT Reviewed)

Sample : 5.0ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0100.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 5:49 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:28:02 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 10:28:59 2014 Page: 4

Sample : 20ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0101.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:21 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:29:45 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.249	168	879258	50.00	ppb	0.00
43) 1,4-Difluorobenzene	5.444	114	1325531	50.00	ppb	0.00
71) d5-Chlorobenzene	8.742	117	1245376	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	705017	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.152	113	757923	98.18	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 196.36%#			
48) surr1,1,2-dichloroetha...	4.658	65	922901	98.19	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 196.38%#			
65) SURR3,Toluene-d8	7.322	98	3200714	98.50	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 197.00%#			
70) SURR2,BFB	9.785	95	1219038	96.68	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 193.36%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.164	85	183557	22.07	ppb	100
3) Chloromethane	1.262	50	237579	20.94	ppb	99
4) Vinyl Chloride	1.323	62	256985	21.33	ppb	99
5) Bromomethane	1.512	94	106438	18.27	ppb	100
6) Chloroethane	1.567	64	156265	20.82	ppb	98
7) Freon 21	1.664	67	393424	20.99	ppb	97
8) Trichlorofluoromethane	1.719	101	305493	21.32	ppb	99
9) Diethyl Ether	1.878	59	131425	20.15	ppb	95
10) Freon 123a	1.872	67	208683	20.30	ppb	92
11) Freon 123	1.902	83	228769	20.91	ppb	99
12) Acrolein	1.951	56	31272	87.36	ppb	99
13) 1,1-Diclethene	2.036	96	151898	20.00	ppb	99
14) Freon 113	2.036	101	161458	20.76	ppb	95
15) Acetone	2.048	43	37242	19.84	ppb	93
16) 2-Propanol	2.115	45	152817	413.75	ppb	96
17) Iodomethane	2.146	142	233583	21.30	ppb	99
18) Carbon Disulfide	2.207	76	522301	20.46	ppb	99
19) Acetonitrile	2.225	40	29654	100.16	ppb	99
20) Allyl Chloride	2.274	76	96217	22.44	ppb	94
21) Methyl Acetate	2.274	43	91352	21.25	ppb	95
22) Methylene Chloride	2.359	84	166332	20.10	ppb	98
23) TBA	2.408	59	246679	403.52	ppb	99
24) Acrylonitrile	2.524	53	208144	104.04	ppb	97
25) Methyl-t-Butyl Ether	2.579	73	438950	20.61	ppb	98
26) trans-1,2-Dichloroethene	2.585	96	172405	21.00	ppb	98
28) 1,1-Diclethane	2.938	63	315620	20.81	ppb	100
29) Vinyl Acetate	2.975	86	28070	20.30	ppb	97
30) DIPE	3.012	45	624889	20.40	ppb	98
31) 2-Chloro-1,3-Butadiene	3.042	53	293913	20.96	ppb	97
32) ETBE	3.396	59	542913	20.51	ppb	100
33) 2,2-Dichloropropane	3.554	77	281622	20.92	ppb	98
34) cis-1,2-Dichloroethene	3.542	96	183891	20.67	ppb	100
35) 2-Butanone	3.548	43	51954	19.96	ppb	97
36) Propionitrile	3.585	54	78179	108.73	ppb	96
37) Bromochloromethane	3.829	130	103548	20.59	ppb	90

KP 10/28/14

W102714.M Tue Oct 28 10:30:45 2014 Page: 1

00157

Sample : 20ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0101.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:21 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:29:45 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Methacrylonitrile	3.798	67	46701	21.00	ppb	99
39) Tetrahydrofuran	3.902	42	36330	20.34	ppb	92
40) Chloroform	3.938	83	308171	20.18	ppb	99
41) 1,1,1-Trichloroethane	4.213	97	280864	20.51	ppb	87
42) TAME	5.023	73	449995	20.16	ppb	98
44) Cyclohexane	4.316	41	203937	20.88	ppb	95
46) Carbontetrachloride	4.469	121	71529	20.67	ppb	99
47) 1,1-Dichloropropene	4.463	75	241398	20.85	ppb	98
49) Benzene	4.780	78	715398	21.07	ppb	99
50) 1,2-Dichloroethane	4.786	62	238812	20.87	ppb	96
51) Iso-Butyl Alcohol	4.639	43	110450	424.88	ppb	96
52) n-Heptane	5.328	43	220247	20.05	ppb	94
53) 1-Butanol	5.773	56	153477	912.72	ppb	91
54) Trichloroethene	5.828	130	183597	20.65	ppb	98
55) Methylcyclohexane	6.103	55	233460	20.50	ppb	97
56) 1,2-Diclpropane	6.115	63	182119	20.48	ppb	99
57) Dibromomethane	6.255	93	85943	20.42	ppb	96
58) 1,4-Dioxane	6.322	88	25555m	381.91	ppb	
59) Methyl Methacrylate	6.328	69	87282	21.28	ppb	98
60) Bromodichloromethane	6.480	83	219377	20.82	ppb	99
61) 2-Nitropropane	6.743	41	53003	37.69	ppb	99
62) 2-Chloroethylvinyl Ether	6.877	63	84884	20.48	ppb	96
63) cis-1,3-Dichloropropene	7.023	75	278999	21.25	ppb	100
64) 4-Methyl-2-pentanone	7.212	43	123666	20.41	ppb	96
66) Toluene	7.389	91	785171	21.45	ppb	100
67) trans-1,3-Dichloropropene	7.627	75	237930	21.26	ppb	99
68) Ethyl Methacrylate	7.767	69	181352	20.94	ppb	99
69) 1,1,2-Trichloroethane	7.803	97	131876	21.37	ppb	99
72) Tetrachloroethene	7.962	164	147241	20.55	ppb	98
73) 2-Hexanone	8.084	43	85208	20.58	ppb	94
74) 1,3-Dichloropropane	7.968	76	230209	20.60	ppb	96
75) Dibromochloromethane	8.187	129	134773	20.12	ppb	96
76) N-Butyl Acetate	8.236	43	224112	21.06	ppb	97
77) 1,2-Dibromoethane	8.285	107	126296	21.60	ppb	95
78) Chlorobenzene	8.767	112	496265	20.58	ppb	99
79) 3-CBTF	8.785	180	253821	19.21	ppb	99
80) 4-CBTF	8.834	180	232964	19.71	ppb	99
81) 1,1,1,2-Tetrachloroethane	8.846	131	163700	20.65	ppb	98
82) Ethylbenzene	8.889	106	266907	20.52	ppb	93
83) (m+p)Xylene	8.998	106	667073	42.38	ppb	96
84) o-Xylene	9.346	106	325310	20.55	ppb	95
85) Styrene	9.352	104	553728	21.15	ppb	97
87) Bromoform	9.492	173	73234	20.91	ppb	96
88) 2-CBTF	9.577	180	245913	19.80	ppb	97
89) Isopropylbenzene	9.669	105	823516	21.89	ppb	100
90) Cyclohexanone	9.718	55	155982	377.32	ppb	98
91) trans-1,4-Dichloro-2-B...	9.961	53	43871	19.40	ppb	91
92) 1,1,2,2-Tetrachloroethane	9.913	83	155647	21.23	ppb	99
93) Bromobenzene	9.907	156	203951	20.55	ppb	98
94) 1,2,3-Trichloropropane	9.937	110	43094	19.38	ppb	98
95) n-Propylbenzene	10.022	91	964489	22.11	ppb	99
96) 2-Chlorotoluene	10.077	91	580266	21.96	ppb	98

Sample : 20ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0101.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:21 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:29:45 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

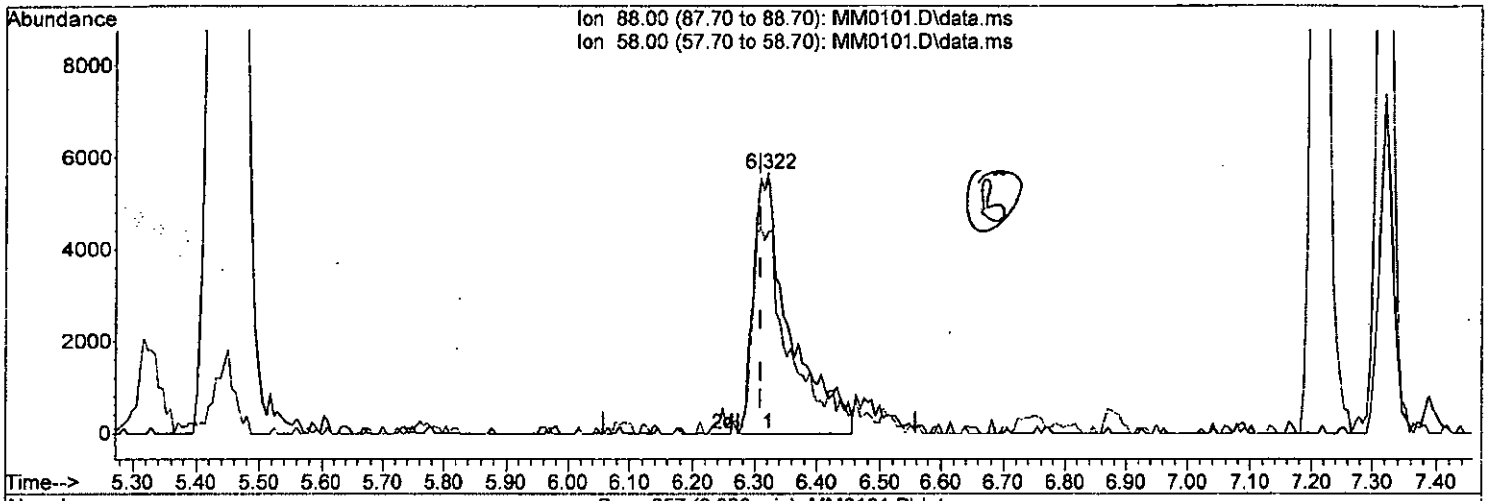
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.132	91	580649	20.66	ppb	97
98)	4-Chlorotoluene	10.169	91	705578	21.29	ppb	98
99)	1,3,5-Trimethylbenzene	10.169	105	689159	21.12	ppb	99
100)	tert-Butylbenzene	10.437	119	564350	21.41	ppb	100
101)	1,2,4-Trimethylbenzene	10.474	105	697124	21.78	ppb	99
102)	3,4-DCBTF	10.535	214	182957	19.56	ppb	99
103)	sec-Butylbenzene	10.620	105	803667	21.69	ppb	100
104)	p-Isopropyltoluene	10.742	119	700787	21.77	ppb	98
105)	1,3-Dclbenz	10.693	146	397745	20.98	ppb	100
106)	1,4-Dclbenz	10.766	146	411694	20.77	ppb	99
107)	2,4-DCBTF	10.821	214	160320	19.99	ppb	97
108)	2,5-DCBTF	10.858	214	182336	20.09	ppb	98
109)	n-Butylbenzene	11.065	91	616862	21.65	ppb	99
110)	1,2-Dclbenz	11.065	146	369570	20.72	ppb	99
111)	1,2-Dibromo-3-chloropr...	11.626	157	25414	20.59	ppb	88
112)	Trielution Dichlorotol...	11.729	125	910249	62.25	ppb	100
113)	1,3,5 Trichlorobenzene	11.778	180	250263	20.47	ppb	97
114)	Coelution Dichlorotoluene	11.998	125	646557	42.22	ppb	100
115)	1,2,4-Tcbenzene	12.156	180	222721	21.33	ppb	98
116)	Hexachlorobt	12.266	225	88493	21.44	ppb	97
117)	Naphthalen	12.296	128	428404	21.59	ppb	99
118)	1,2,3-Tclbenzene	12.437	180	189376	21.33	ppb	98
119)	2,4,5-Trichlorotolene	12.851	159	115424	19.21	ppb	99
120)	2,3,6-Trichlorotoluene	12.912	159	111038	20.01	ppb	97

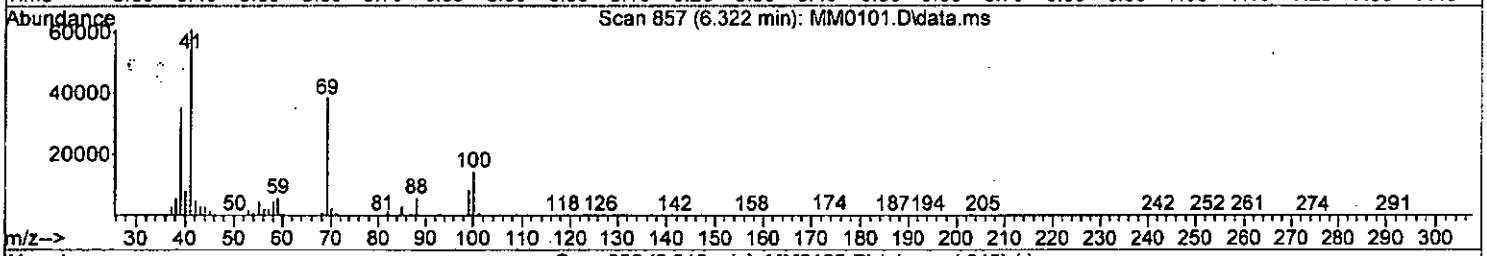
(#) = qualifier out of range (m) = manual integration (+) = signals summed

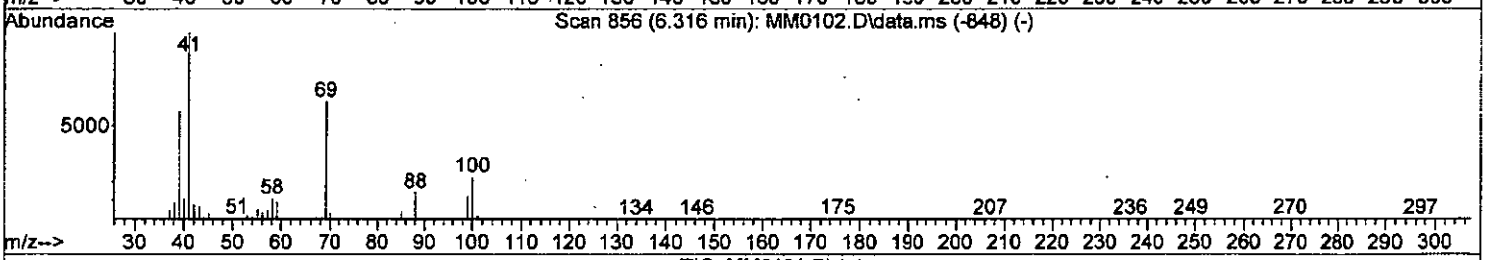
Quantitation Report (Qedit)

Sample : 20ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0101.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:21 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:42 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0101.D\data.ms

(58) 1,4-Dioxane

6.322min (+0.013) 342.04 ppb

response 22887

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	77.68
0.00	0.00	0.00
0.00	0.00	0.00

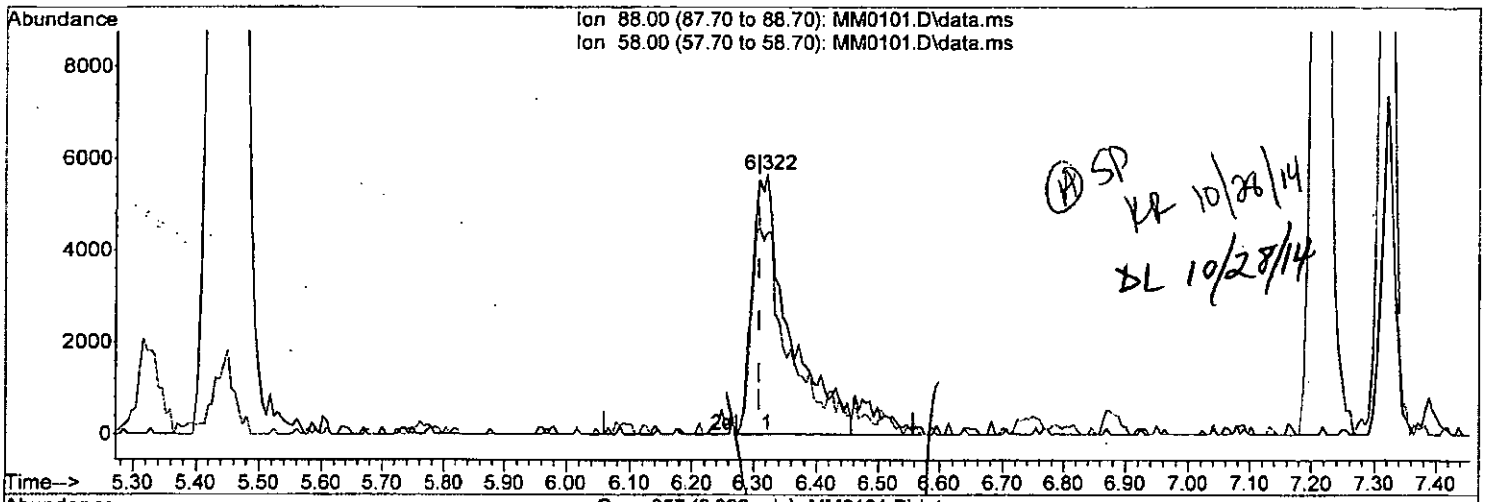
W102714.M Tue Oct 28 10:29:42 2014 Page: 1

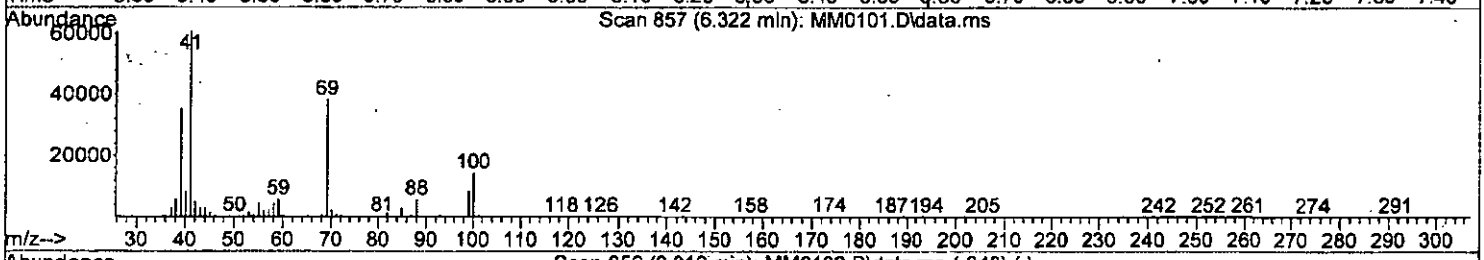
00160

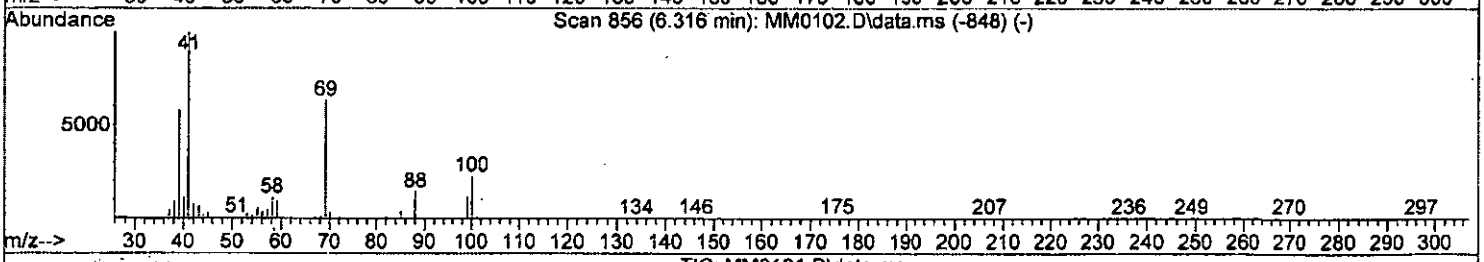
Quantitation Report (Qedit)

Sample : 20ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0101.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:21 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:42 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0101.D\data.ms

(58) 1,4-Dioxane

6.322min (+0.013) 381.91 ppb m

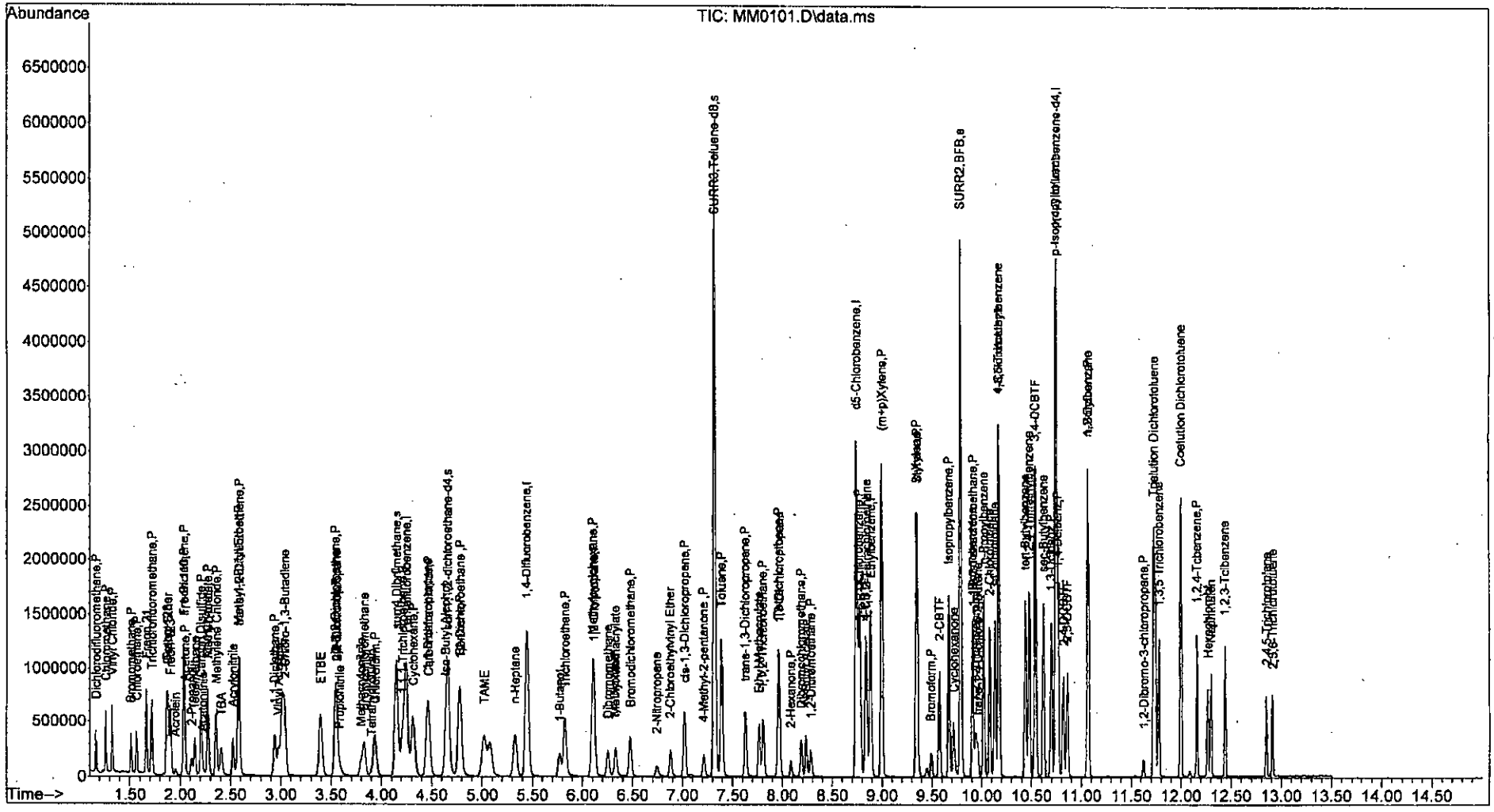
response 25555

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	77.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 20ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0101.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:21 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:29:45 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 10:30:47 2014 Page: 4

Sample : 50ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0102.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:54 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:32:14 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.243	168	896470	50.00	ppb	0.00
43) 1,4-Difluorobenzene	5.450	114	1362156	50.00	ppb	0.00
71) d5-Chlorobenzene	8.742	117	1272285	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	744954	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	4.152	113	403155	50.82	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.64%			
48) surr1,1,2-dichloroetha...	4.658	65	490824	50.82	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 101.64%			
65) SURR3,Toluene-d8	7.322	98	1728247	51.75	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.50%			
70) SURR2,BFB	9.785	95	664156	51.26	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.165	85	445165	52.49	ppb	100
3) Chloromethane	1.262	50	572441	49.49	ppb	100
4) Vinyl Chloride	1.323	62	620342	50.50	ppb	100
5) Bromomethane	1.512	94	290555	48.91	ppb	100
6) Chloroethane	1.567	64	379190	49.55	ppb	100
7) Freon 21	1.665	67	958416	50.16	ppb	100
8) Trichlorofluoromethane	1.719	101	724273	49.58	ppb	100
9) Diethyl Ether	1.878	59	326874	49.15	ppb	100
10) Freon 123a	1.866	67	517474	49.37	ppb	100
11) Freon 123	1.902	83	569640	51.07	ppb	100
12) Acrolein	1.951	56	72113	197.59	ppb	100
13) 1,1-Diclethene	2.036	96	374441	48.35	ppb	100
14) Freon 113	2.036	101	393848	49.66	ppb	100
15) Acetone	2.042	43	91542	47.83	ppb	100
16) 2-Propanol	2.116	45	394249	1046.94	ppb	100
17) Iodomethane	2.146	142	578047	51.71	ppb	100
18) Carbon Disulfide	2.207	76	1257208	48.29	ppb	100
19) Acetonitrile	2.219	40	71364	236.42	ppb	100
20) Allyl Chloride	2.274	76	234107	53.54	ppb	100
21) Methyl Acetate	2.274	43	228686	52.18	ppb	100
22) Methylene Chloride	2.359	84	405140	48.01	ppb	100
23) TBA	2.408	59	612631	982.90	ppb	100
24) Acrylonitrile	2.524	53	515729	252.84	ppb	100
25) Methyl-t-Butyl Ether	2.579	73	1083953	49.93	ppb	100
26) trans-1,2-Dichloroethene	2.585	96	423296	50.58	ppb	100
28) 1,1-Diclethane	2.939	63	767350	49.62	ppb	100
29) Vinyl Acetate	2.975	86	73295	51.98	ppb	100
30) DIPE	3.012	45	1542759	49.40	ppb	100
31) 2-Chloro-1,3-Butadiene	3.042	53	698818	48.87	ppb	100
32) ETBE	3.396	59	1343512	49.77	ppb	100
33) 2,2-Dichloropropane	3.554	77	702319	51.17	ppb	100
34) cis-1,2-Dichloroethene	3.542	96	457622	50.44	ppb	100
35) 2-Butanone	3.542	43	130641	49.22	ppb	100
36) Propionitrile	3.591	54	194638	265.51	ppb	100
37) Bromochloromethane	3.829	130	250443	48.83	ppb	100

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W102714.M Tue Oct 28 10:33:17 2014 Page: 1

00163

Sample : 50ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0102.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:54 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:32:14 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Methacrylonitrile	3.798	67	119180	52.56	ppb	100
39) Tetrahydrofuran	3.908	42	90378	49.62	ppb	100
40) Chloroform	3.938	83	746211	47.93	ppb	100
41) 1,1,1-Trichloroethane	4.213	97	684047	48.98	ppb	100
42) TAME	5.024	73	1116368	49.06	ppb	100
44) Cyclohexane	4.316	41	500786	49.89	ppb	100
46) Carbontetrachloride	4.469	121	175732	49.41	ppb	100
47) 1,1-Dichloropropene	4.463	75	590556	49.62	ppb	100
49) Benzene	4.780	78	1734163	49.70	ppb	100
50) 1,2-Dichloroethane	4.786	62	578607	49.22	ppb	100
51) Iso-Butyl Alcohol	4.633	43	281142	1052.43	ppb	100
52) n-Heptane	5.328	43	550943	48.81	ppb	100
53) 1-Butanol	5.767	56	412772	2388.74	ppb	100
54) Trichloroethene	5.828	130	452764	49.55	ppb	100
55) Methylcyclohexane	6.103	55	580880	49.63	ppb	100
56) 1,2-Diclpropane	6.109	63	448630	49.08	ppb	100
57) Dibromomethane	6.255	93	214802	49.68	ppb	100
58) 1,4-Dioxane	6.316	88	63035m	916.71	ppb	
59) Methyl Methacrylate	6.328	69	218739	51.90	ppb	100
60) Bromodichloromethane	6.475	83	542953	50.14	ppb	100
61) 2-Nitropropane	6.743	41	137939	95.45	ppb	100
62) 2-Chloroethylvinyl Ether	6.877	63	211971	49.76	ppb	100
63) cis-1,3-Dichloropropene	7.017	75	698240	51.76	ppb	100
64) 4-Methyl-2-pentanone	7.212	43	310242	49.82	ppb	100
66) Toluene	7.389	91	1906441	50.68	ppb	100
67) trans-1,3-Dichloropropene	7.627	75	608427	52.90	ppb	100
68) Ethyl Methacrylate	7.767	69	466796	52.46	ppb	100
69) 1,1,2-Trichloroethane	7.804	97	316354	49.90	ppb	100
72) Tetrachloroethene	7.962	164	372314	50.85	ppb	100
73) 2-Hexanone	8.084	43	210562	49.78	ppb	100
74) 1,3-Dichloropropane	7.968	76	574300	50.31	ppb	100
75) Dibromochloromethane	8.188	129	352108	51.45	ppb	100
76) N-Butyl Acetate	8.236	43	576975	53.07	ppb	100
77) 1,2-Dibromoethane	8.285	107	309516	51.82	ppb	100
78) Chlorobenzene	8.767	112	1232478	50.02	ppb	100
79) 3-CBTF	8.785	180	684493	50.72	ppb	100
80) 4-CBTF	8.834	180	611723	50.65	ppb	100
81) 1,1,1,2-Tetrachloroethane	8.846	131	423508	52.29	ppb	100
82) Ethylbenzene	8.889	106	680015	51.16	ppb	100
83) (m+p)Xylene	8.998	106	1676831	104.27	ppb	100
84) o-Xylene	9.346	106	825346	51.05	ppb	100
85) Styrene	9.352	104	1430057	53.47	ppb	100
87) Bromoform	9.492	173	200642	54.21	ppb	100
88) 2-CBTF	9.578	180	651564	49.65	ppb	100
89) Isopropylbenzene	9.669	105	2041076	51.34	ppb	100
90) Cyclohexanone	9.718	55	346132	792.40	ppb	100
91) trans-1,4-Dichloro-2-B...	9.962	53	114365	47.87	ppb	100
92) 1,1,2,2-Tetrachloroethane	9.913	83	386370	49.87	ppb	100
93) Bromobenzene	9.907	156	522207	49.80	ppb	100
94) 1,2,3-Trichloropropane	9.937	110	108315	46.10	ppb	100
95) n-Propylbenzene	10.023	91	2385646	51.76	ppb	100
96) 2-Chlorotoluene	10.084	91	1434836	51.38	ppb	100

Sample : 50ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0102.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:54 pm
Operator : K.Ruest
InstName : MSVOA-12

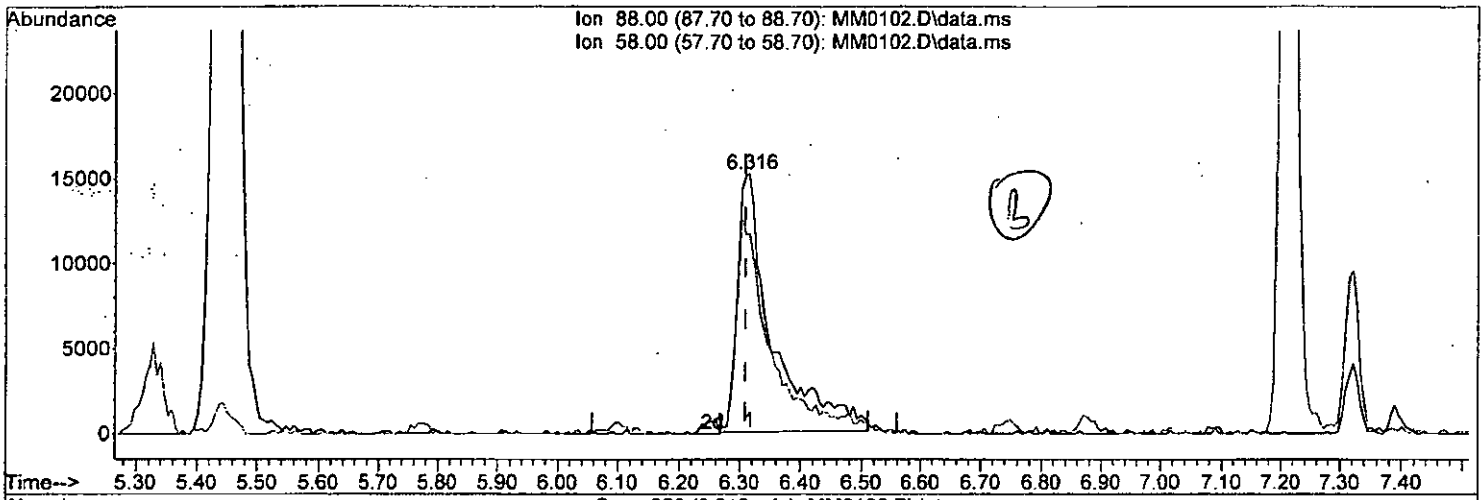
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:32:14 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

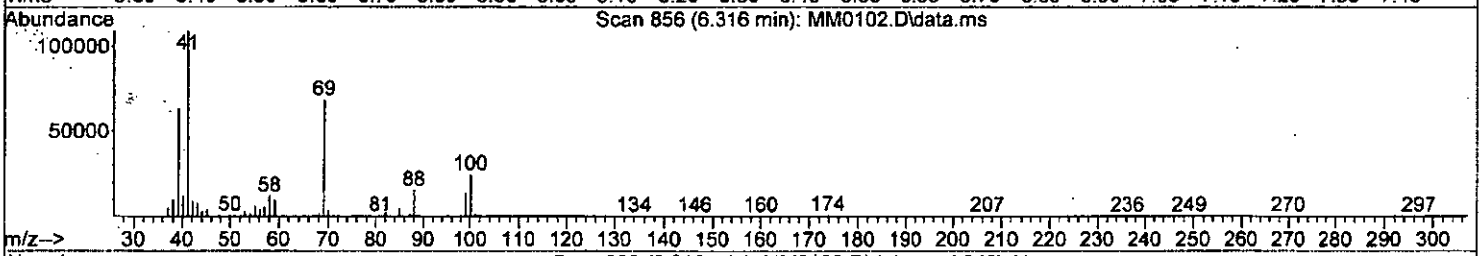
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.132	91	1509248	50.81	ppb	100
98)	4-Chlorotoluene	10.169	91	1794798	51.26	ppb	100
99)	1,3,5-Trimethylbenzene	10.169	105	1788499	51.87	ppb	100
100)	tert-Butylbenzene	10.437	119	1423251	51.11	ppb	100
101)	1,2,4-Trimethylbenzene	10.474	105	1776031	52.52	ppb	100
102)	3,4-DCBTF	10.535	214	505700	51.17	ppb	100
103)	sec-Butylbenzene	10.620	105	2044869	52.22	ppb	100
104)	p-Isopropyltoluene	10.742	119	1783755	52.43	ppb	100
105)	1,3-Dclbenz	10.693	146	1010822	50.47	ppb	100
106)	1,4-Dclbenz	10.766	146	1049502	50.11	ppb	100
107)	2,4-DCBTF	10.821	214	438246	51.71	ppb	100
108)	2,5-DCBTF	10.858	214	489637	51.05	ppb	100
109)	n-Butylbenzene	11.065	91	1583441	52.60	ppb	100
110)	1,2-Dclbenz	11.065	146	950713	50.45	ppb	100
111)	1,2-Dibromo-3-chloropr...	11.626	157	68659	52.65	ppb	100
112)	Trielution Dichlorotol...	11.730	125	2439306	157.87	ppb	100
113)	1,3,5 Trichlorobenzene	11.778	180	659392	51.03	ppb	100
114)	Coelution Dichlorotoluene	11.998	125	1725672	106.65	ppb	100
115)	1,2,4-Tcbenzene	12.156	180	577805	52.37	ppb	100
116)	Hexachlorobt	12.266	225	224718	51.52	ppb	100
117)	Naphthalen	12.297	128	1125518	53.69	ppb	100
118)	1,2,3-Tclbenzene	12.437	180	478444	50.99	ppb	100
119)	2,4,5-Trichlorotolene	12.851	159	324971	51.20	ppb	100
120)	2,3,6-Trichlorotoluene	12.912	159	306902	52.34	ppb	100

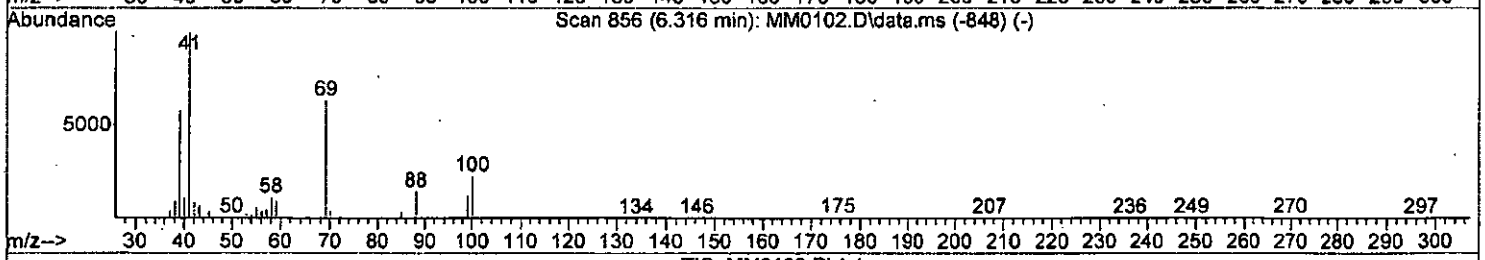
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample : 50ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0102.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:54 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:46 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0102.D\data.ms

(58) 1,4-Dioxane

6.316min (+0.007) 881.93 ppb

response 60643

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	77.39
0.00	0.00	0.00
0.00	0.00	0.00

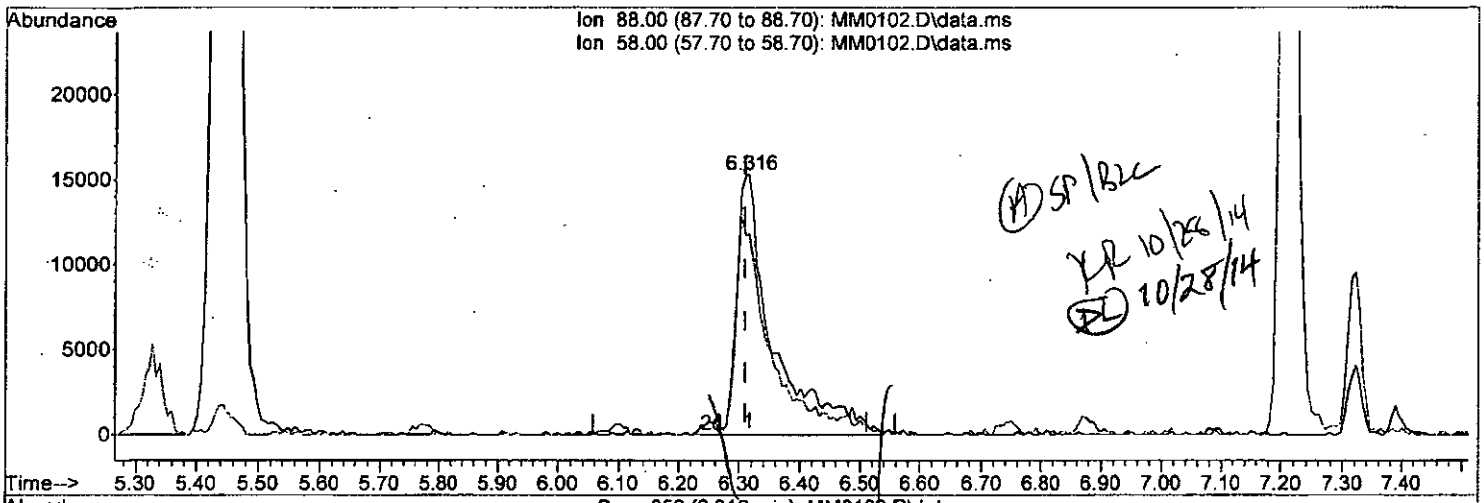
W102714.M Tue Oct 28 10:32:11 2014 Page: 1

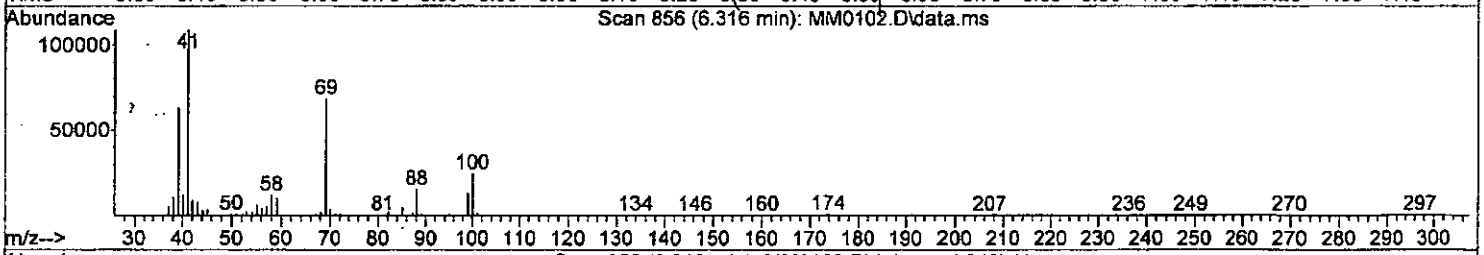
00166

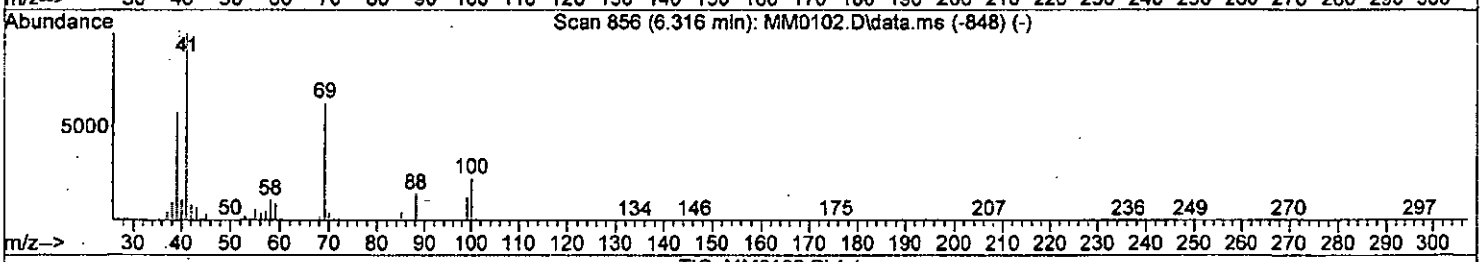
Quantitation Report (Qedit)

Sample : 50ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0102.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:54 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:46 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0102.D\data.ms

(58) 1,4-Dioxane

6.316min (+0.007) 916.71 ppb m

response 63035

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	77.39
0.00	0.00	0.00
0.00	0.00	0.00

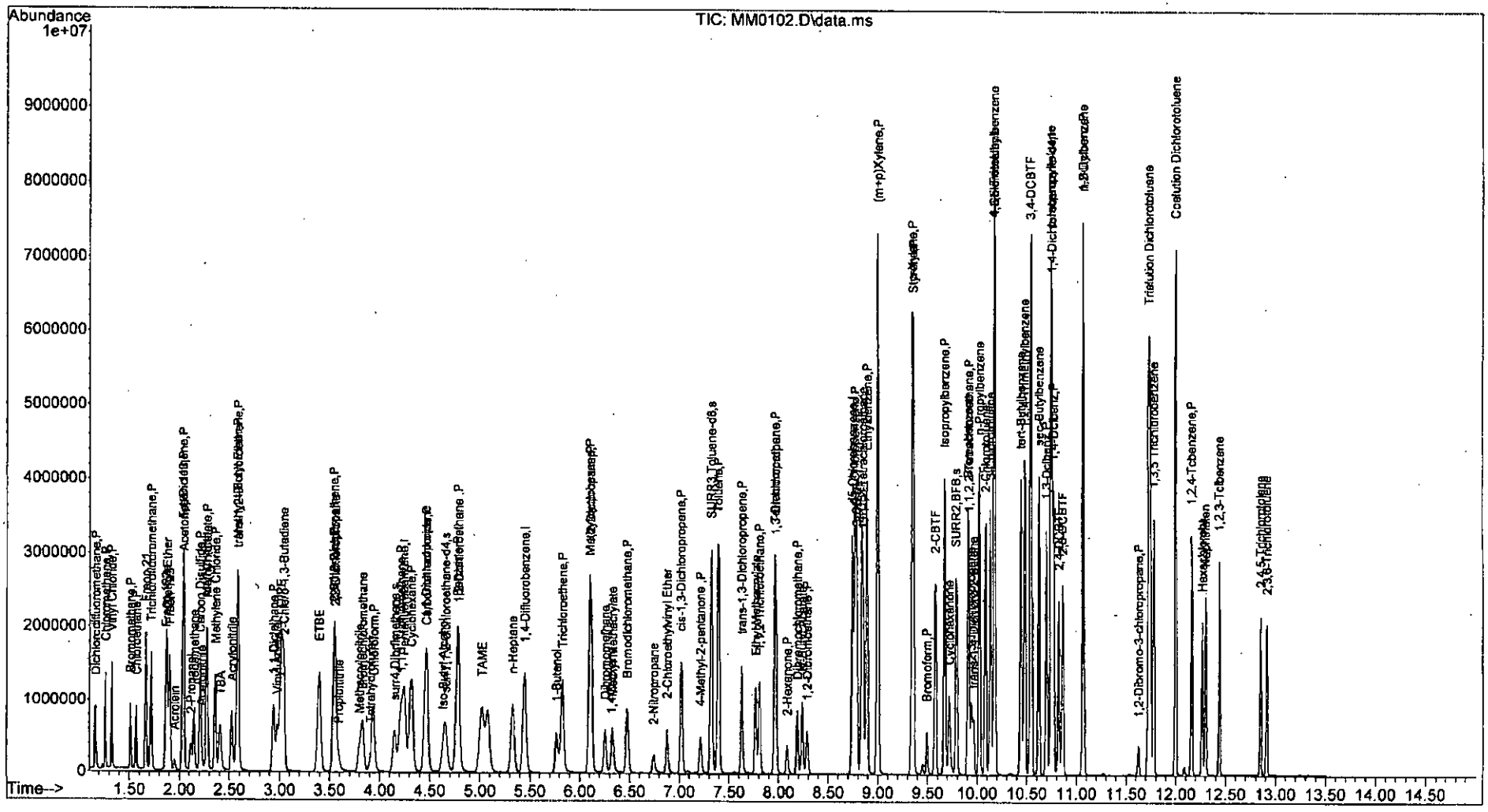
W102714.M Tue Oct 28 10:32:18 2014 Page: 1

00167

Quantitation Report (QT Reviewed)

Sample : 50ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0102.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 6:54 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:32:14 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



39100

W102714.M Tue Oct 28 10:33:20 2014

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Sample : 100ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0103.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:26 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:49:07 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.249	168	920623	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.450	114	1374510	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1294552	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	789787	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	992748	124.02	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 248.04%#				
48) surr1,1,2-dichloroetha...	4.658	65	1198187	122.94	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 245.88%#				
65) SURR3,Toluene-d8	7.322	98	4121871	122.32	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 244.64%#				
70) SURR2,BFB	9.791	95	1635051	125.05	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 250.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	873972	100.34	ppb		99
3) Chloromethane	1.262	50	1128050	94.97	ppb		97
4) Vinyl Chloride	1.323	62	1222924	96.94	ppb		100
5) Bromomethane	1.512	94	619249	101.51	ppb		99
6) Chloroethane	1.567	64	741459	94.34	ppb		100
7) Freon 21	1.664	67	1809034	92.19	ppb		97
8) Trichlorofluoromethane	1.719	101	1395070	93.00	ppb		99
9) Diethyl Ether	1.878	59	664836	97.35	ppb		99
10) Freon 123a	1.872	67	996356	92.57	ppb		92
11) Freon 123	1.902	83	1104665	96.44	ppb		99
12) Acrolein	1.951	56	205902	549.37	ppb		97
13) 1,1-Diclethene	2.042	96	758394	95.36	ppb		91
14) Freon 113	2.036	101	785738	96.47	ppb		97
15) Acetone	2.042	43	202759	103.17	ppb		96
16) 2-Propanol	2.115	45	816641	2111.72	ppb		99
17) Iodomethane	2.146	142	1147977	100.00	ppb		100
18) Carbon Disulfide	2.207	76	2492175	93.22	ppb		99
19) Acetonitrile	2.225	40	156771	505.74	ppb		98
20) Allyl Chloride	2.274	76	431472	96.09	ppb		94
21) Methyl Acetate	2.274	43	463334	102.95	ppb		98
22) Methylene Chloride	2.359	84	802742	92.64	ppb		99
23) TBA	2.408	59	1347437	2105.10	ppb		99
24) Acrylonitrile	2.524	53	1093482	522.03	ppb		99
25) Methyl-t-Butyl Ether	2.579	73	2234468	100.22	ppb		99
26) trans-1,2-Dichloroethene	2.585	96	845923	98.42	ppb		98
28) 1,1-Diclethane	2.945	63	1509641	95.05	ppb		99
29) Vinyl Acetate	2.975	86	149040	102.93	ppb	#	91
30) DIPE	3.018	45	3140277	97.92	ppb		98
31) 2-Chloro-1,3-Butadiene	3.042	53	1414814	96.34	ppb		99
32) ETBE	3.396	59	2767157	99.83	ppb		98
33) 2,2-Dichloropropane	3.554	77	1369146	97.14	ppb		98
34) cis-1,2-Dichloroethene	3.548	96	913553	98.05	ppb		97
35) 2-Butanone	3.548	43	292679	107.37	ppb		93
36) Propionitrile	3.591	54	414076	550.03	ppb		100
37) Bromochloromethane	3.829	130	492947	93.60	ppb		97

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W102714.M Tue Oct 28 10:49:51 2014 Page: 1

00169

Sample : 100ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0103.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:26 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:49:07 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.798	67	243252	104.47	ppb		98
39)	Tetrahydrofuran	3.902	42	186668	99.80	ppb		94
40)	Chloroform	3.938	83	1487923	93.06	ppb		100
41)	1,1,1-Trichloroethane	4.213	97	1345859	93.85	ppb		97
42)	TAME	5.023	73	2335377	99.94	ppb		99
44)	Cyclohexane	4.316	41	947751	93.57	ppb		98
46)	Carbontetrachloride	4.469	121	355340	99.01	ppb		98
47)	1,1-Dichloropropene	4.463	75	1165825	97.08	ppb		96
49)	Benzene	4.780	78	3412917	96.94	ppb		99
50)	1,2-Dichloroethane	4.786	62	1158848	97.69	ppb		98
51)	Iso-Butyl Alcohol	4.639	43	613612	2276.36	ppb		97
52)	n-Heptane	5.328	43	1064298	93.45	ppb		98
53)	1-Butanol	5.773	56	938682	5383.39	ppb		96
54)	Trichloroethene	5.828	130	903879	98.03	ppb		99
55)	Methylcyclohexane	6.109	55	1110871	94.06	ppb		94
56)	1,2-Diclpropane	6.115	63	878379	95.24	ppb		97
57)	Dibromomethane	6.255	93	426464	97.74	ppb		98
58)	1,4-Dioxane	6.310	88	133664m	1926.40	ppb		
59)	Methyl Methacrylate	6.328	69	451915	106.26	ppb		98
60)	Bromodichloromethane	6.474	83	1108493	101.45	ppb		98
61)	2-Nitropropane	6.743	41	307087	210.59	ppb		97
62)	2-Chloroethylvinyl Ether	6.877	63	445933	103.74	ppb		99
63)	cis-1,3-Dichloropropene	7.017	75	1393117	102.34	ppb		99
64)	4-Methyl-2-pentanone	7.212	43	667016	106.15	ppb		99
66)	Toluene	7.395	91	3781725	99.62	ppb		99
67)	trans-1,3-Dichloropropene	7.627	75	1231922	106.14	ppb		100
68)	Ethyl Methacrylate	7.767	69	976108	108.71	ppb		98
69)	1,1,2-Trichloroethane	7.809	97	654244	102.26	ppb		98
72)	Tetrachloroethene	7.962	164	737368	98.98	ppb		98
73)	2-Hexanone	8.084	43	460637	107.02	ppb		94
74)	1,3-Dichloropropane	7.968	76	1167070	100.48	ppb		99
75)	Dibromochloromethane	8.187	129	746707	107.23	ppb		100
76)	N-Butyl Acetate	8.236	43	1210523	109.43	ppb		99
77)	1,2-Dibromoethane	8.285	107	631369	103.88	ppb		98
78)	Chlorobenzene	8.773	112	2496110	99.56	ppb		96
79)	3-CBTF	8.785	180	1410362	102.70	ppb		97
80)	4-CBTF	8.840	180	1276096	103.84	ppb		98
81)	1,1,1,2-Tetrachloroethane	8.852	131	875753	106.26	ppb		97
82)	Ethylbenzene	8.889	106	1355080	100.20	ppb		94
83)	(m+p)Xylene	8.998	106	3407805	208.27	ppb		90
84)	o-Xylene	9.346	106	1700531	103.36	ppb		96
85)	Styrene	9.352	104	2943249	108.16	ppb		98
87)	Bromoform	9.492	173	445207	113.45	ppb		100
88)	2-CBTF	9.577	180	1351125	97.12	ppb		99
89)	Isopropylbenzene	9.675	105	4025714	95.52	ppb		97
90)	Cyclohexanone	9.718	55	832162	1796.92	ppb		98
91)	trans-1,4-Dichloro-2-B...	9.961	53	250765	99.00	ppb		96
92)	1,1,2,2-Tetrachloroethane	9.913	83	815159	99.24	ppb		99
93)	Bromobenzene	9.907	156	1078473	97.01	ppb		99
94)	1,2,3-Trichloropropane	9.943	110	231090	92.76	ppb	#	88
95)	n-Propylbenzene	10.022	91	4619817	94.54	ppb		98
96)	2-Chlorotoluene	10.083	91	2868565	96.89	ppb		98

Quantitation Report (QT Reviewed)

Sample : 100ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0103.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:26 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:49:07 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.132	91	3086736	98.03	ppb	100
98)	4-Chlorotoluene	10.175	91	3627234	97.71	ppb	95
99)	1,3,5-Trimethylbenzene	10.175	105	3597702	98.41	ppb	95
100)	tert-Butylbenzene	10.437	119	2840071	96.19	ppb	99
101)	1,2,4-Trimethylbenzene	10.480	105	3515365	98.06	ppb	96
102)	3,4-DCBTF	10.535	214	1098850	104.87	ppb	99
103)	sec-Butylbenzene	10.620	105	4017873	96.78	ppb	99
104)	p-Isopropyltoluene	10.742	119	3481956	96.54	ppb	98
105)	1,3-Dclbenz	10.693	146	2063175	97.16	ppb	99
106)	1,4-Dclbenz	10.766	146	2129678	95.92	ppb	98
107)	2,4-DCBTF	10.821	214	900603	100.23	ppb	100
108)	2,5-DCBTF	10.858	214	1014477	99.76	ppb	99
109)	n-Butylbenzene	11.065	91	3154293	98.84	ppb	99
110)	1,2-Dclbenz	11.065	146	1999215	100.06	ppb	99
111)	1,2-Dibromo-3-chloropr...	11.626	157	153816	111.26	ppb	95
112)	Trielution Dichlorotol...	11.729	125	4916671	300.14	ppb	99
113)	1,3,5 Trichlorobenzene	11.778	180	1316881	96.13	ppb	99
114)	Coelution Dichlorotoluene	11.998	125	3453344	201.30	ppb	95
115)	1,2,4-Tcbenzene	12.156	180	1123715	96.07	ppb	99
116)	Hexachlorobt	12.266	225	404337	87.43	ppb	98
117)	Naphthalen	12.302	128	2294798	103.25	ppb	98
118)	1,2,3-Tclbenzene	12.437	180	947260	95.22	ppb	98
119)	2,4,5-Trichlorotolene	12.851	159	648315	96.34	ppb	98
120)	2,3,6-Trichlorotoluene	12.912	159	606817	97.61	ppb	99

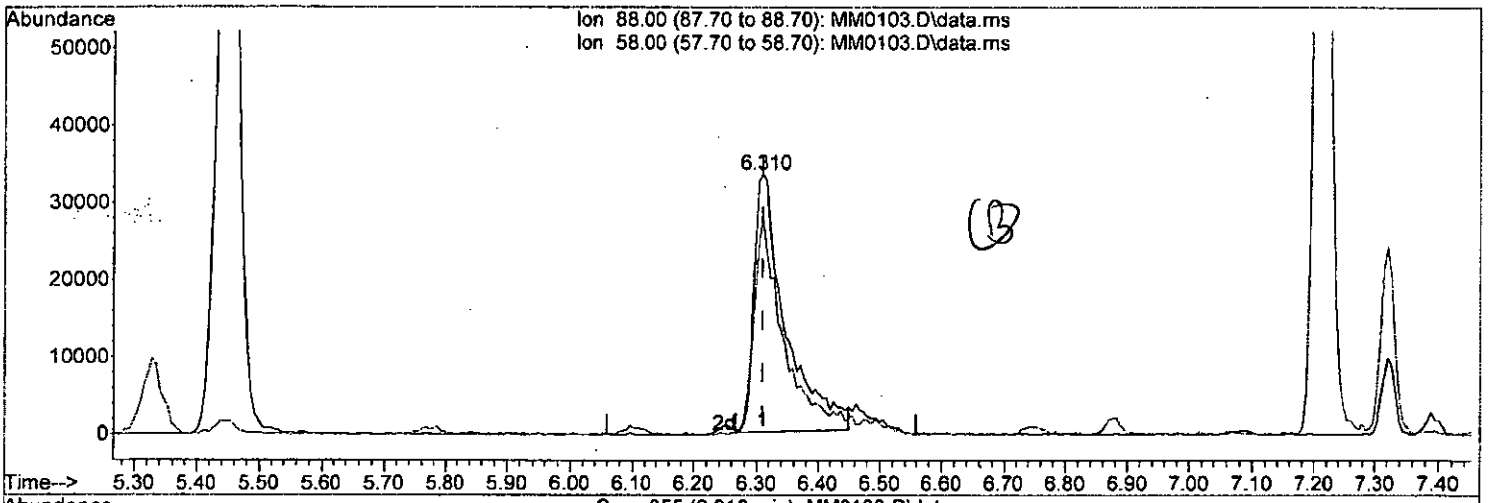
(#) = qualifier out of range (m) = manual integration (+) = signals summed

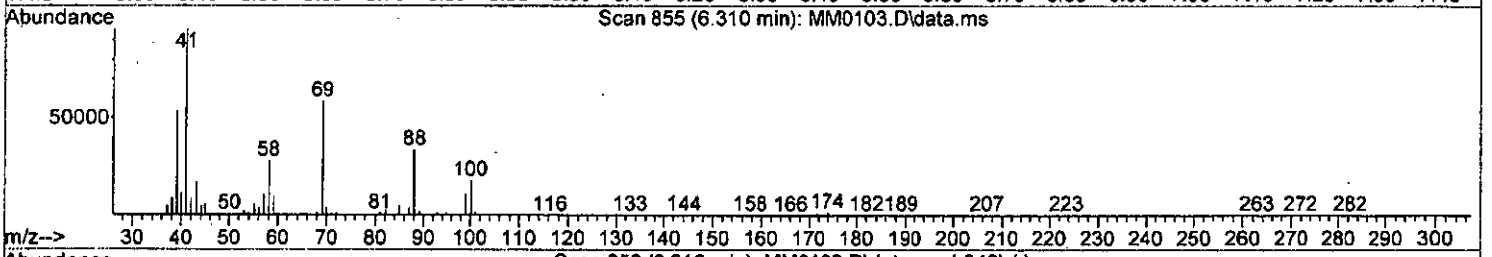
W102714.M Tue Oct 28 10:49:51 2014 Page: 3

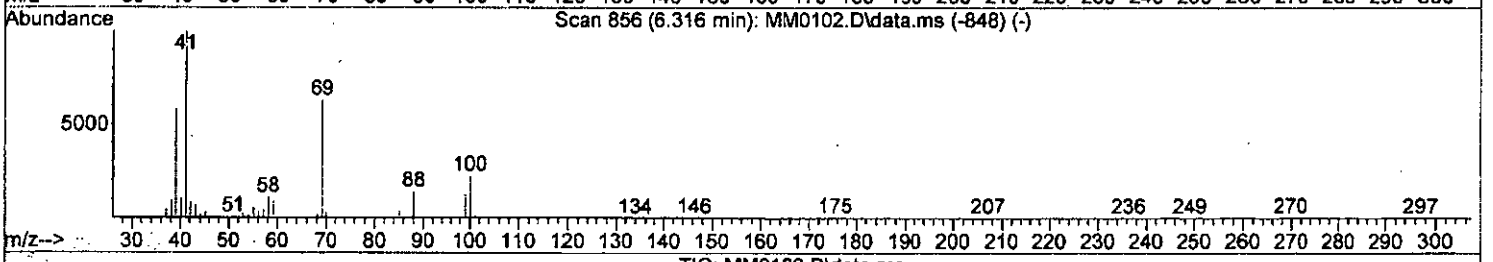
00171

Sample : 100ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0103.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:26 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:50 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0103.D\data.ms

(58) 1,4-Dioxane

6.310min (+0.001) 1717.52 ppb

response 119171

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	83.04
0.00	0.00	0.00
0.00	0.00	0.00

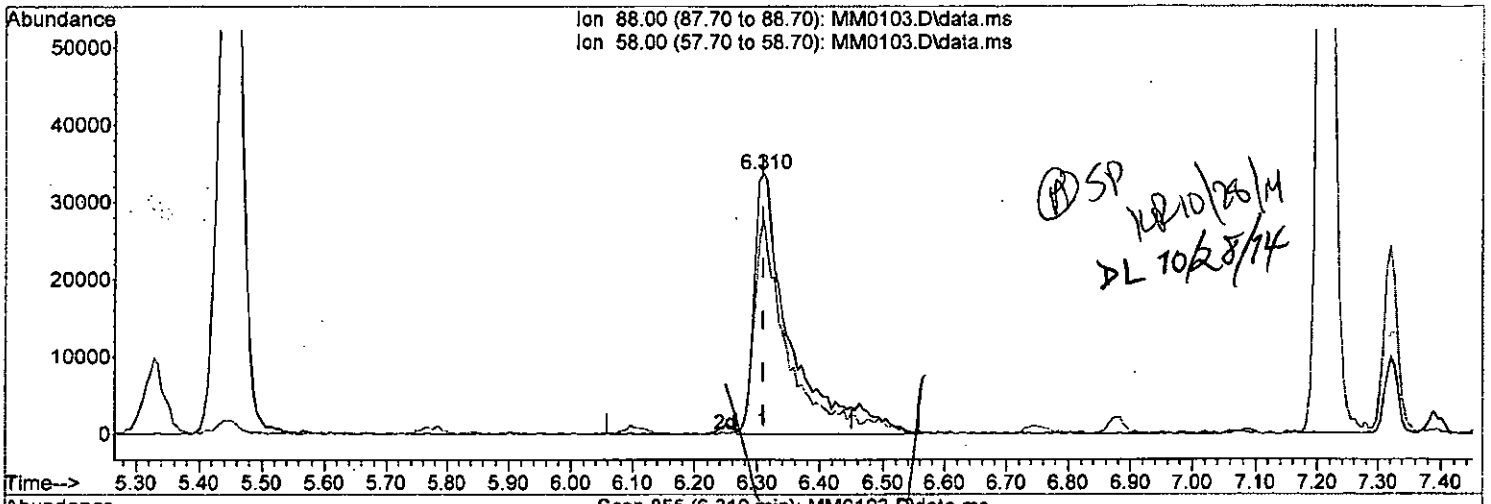
W102714.M Tue Oct 28 10:49:03 2014 Page: 1

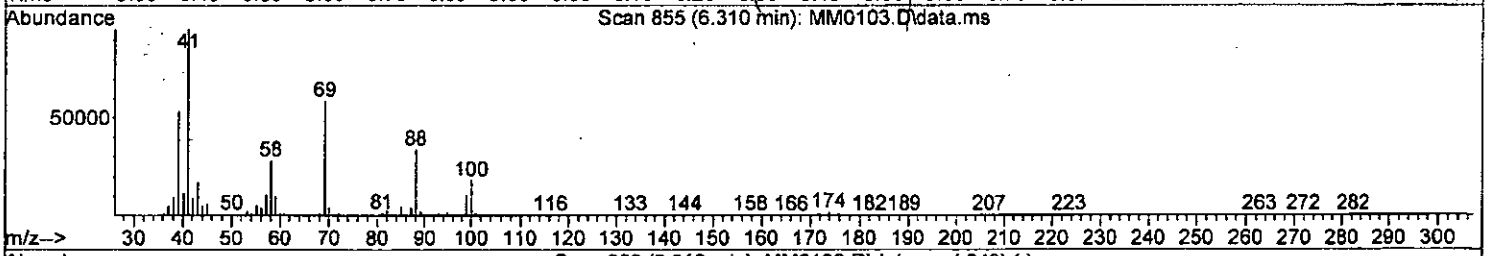
00172

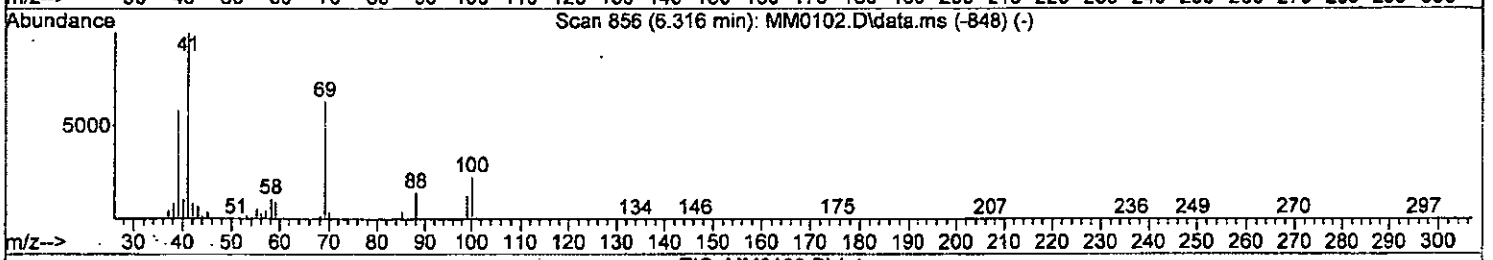
Quantitation Report (Qedit)

Sample : 100ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0103.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:26 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:50 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0103.D\data.ms

(58) 1,4-Dioxane

6.310min (+0.001) 1926.40 ppb m

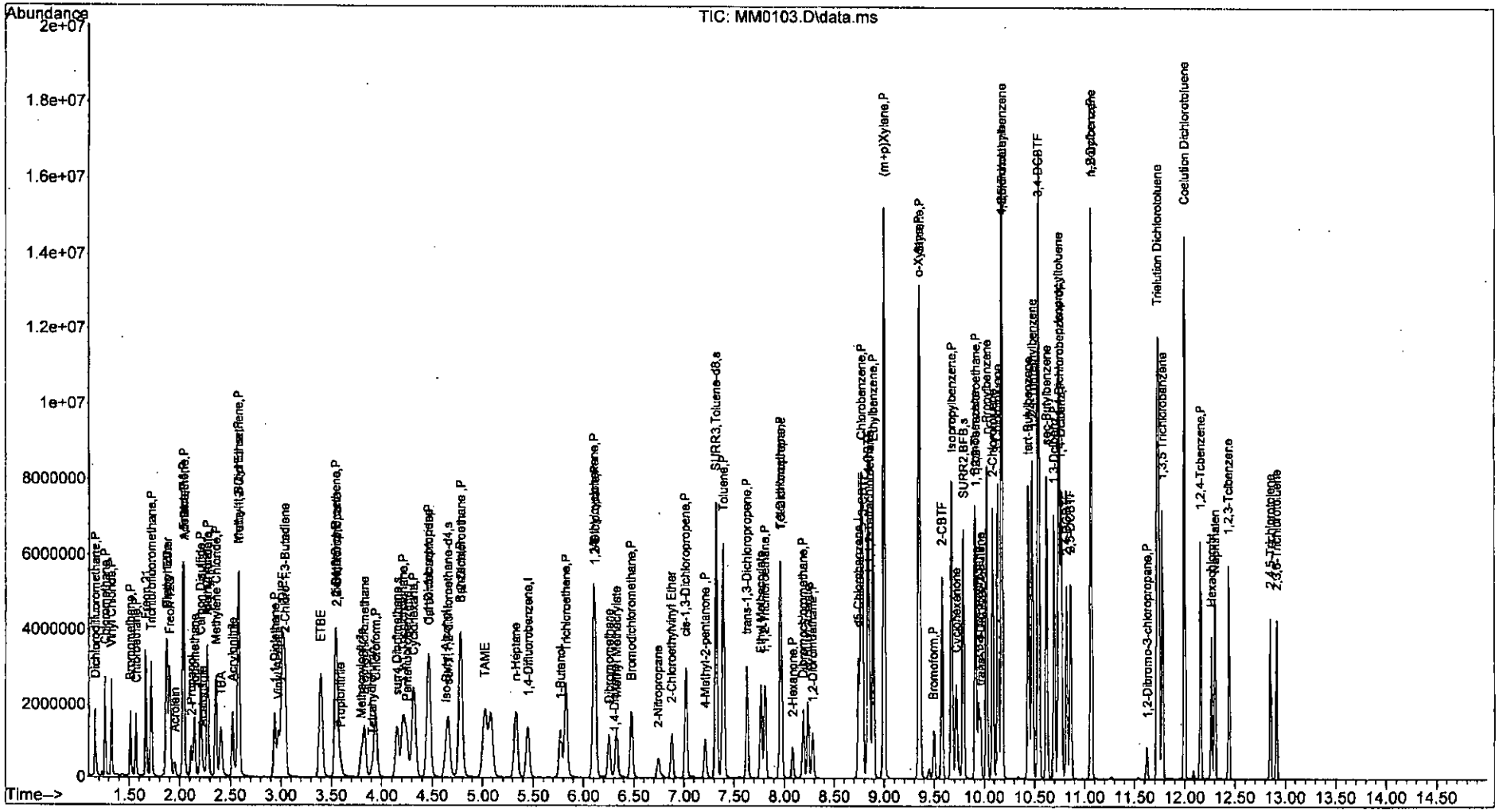
response 133664

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	83.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 100ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0103.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:26 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:49:07 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 10:49:53 2014 Page: 4

Sample : 150ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0104.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:58 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:50:51 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.249	168	939913	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1417996	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1331100	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	835963	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	1183540	143.32	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 286.64%#				
48) surr1,1,2-dichloroetha...	4.658	65	1411829	140.41	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 280.82%#				
65) SURR3,Toluene-d8	7.322	98	4949801	142.39	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 284.78%#				
70) SURR2,BFB	9.791	95	1999008	148.20	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 296.40%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.158	85	1321664	148.63	ppb		97
3) Chloromethane	1.262	50	1703423	140.46	ppb		96
4) Vinyl Chloride	1.323	62	1831726	142.22	ppb		97
5) Bromomethane	1.512	94	1040138	167.01	ppb		100
6) Chloroethane	1.567	64	1143652	142.53	ppb		99
7) Freon 21	1.664	67	2744751	137.00	ppb		95
8) Trichlorofluoromethane	1.719	101	2195800	143.38	ppb		97
9) Diethyl Ether	1.878	59	992940	142.40	ppb		98
10) Freon 123a	1.865	67	1557843	141.77	ppb		97
11) Freon 123	1.902	83	1726966	147.68	ppb		99
12) Acrolein	1.951	56	343650	898.08	ppb		98
13) 1,1-Diclethene	2.036	96	1200952	147.90	ppb		94
14) Freon 113	2.036	101	1245371	149.76	ppb		99
15) Acetone	2.042	43	291194	145.13	ppb		100
16) 2-Propanol	2.115	45	1136594	2878.75	ppb		97
17) Iodomethane	2.146	142	1736495	148.16	ppb		100
18) Carbon Disulfide	2.207	76	3843943	140.83	ppb		98
19) Acetonitrile	2.219	40	251112	793.46	ppb		98
20) Allyl Chloride	2.274	76	702552	153.25	ppb		96
21) Methyl Acetate	2.274	43	675819	147.08	ppb		99
22) Methylene Chloride	2.353	84	1275419	144.16	ppb		98
23) TBA	2.408	59	1827525	2796.54	ppb		99
24) Acrylonitrile	2.524	53	1597045	746.78	ppb		99
25) Methyl-t-Butyl Ether	2.579	73	3307412	145.30	ppb		99
26) trans-1,2-Dichloroethene	2.585	96	1351524	154.02	ppb		95
28) 1,1-Diclethane	2.938	63	2322556	143.23	ppb		99
29) Vinyl Acetate	2.975	86	232128	157.02	ppb	#	88
30) DIPE	3.012	45	4401903	134.45	ppb		99
31) 2-Chloro-1,3-Butadiene	3.036	53	2204213	147.02	ppb		100
32) ETBE	3.396	59	3872246	136.83	ppb		98
33) 2,2-Dichloropropane	3.554	77	2121403	147.42	ppb		98
34) cis-1,2-Dichloroethene	3.542	96	1431109	150.45	ppb		97
35) 2-Butanone	3.542	43	420042	150.93	ppb		93
36) Propionitrile	3.591	54	586312	762.84	ppb		99
37) Bromochloromethane	3.828	130	753679	140.17	ppb		97

KR 10/28/14

W102714.M Tue Oct 28 10:52:02 2014 Page: 1

00175

Sample : 150ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0104.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:58 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:50:51 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Methacrylonitrile	3.798	67	357705	150.47	ppb		98
39)	Tetrahydrofuran	3.902	42	267849	140.26	ppb		100
40)	Chloroform	3.932	83	2297495	140.74	ppb		100
41)	1,1,1-Trichloroethane	4.213	97	2098190	143.30	ppb		96
42)	TAME	5.023	73	3240728	135.84	ppb		99
44)	Cyclohexane	4.316	41	1459942	139.72	ppb		98
46)	Carbontetrachloride	4.469	121	557941	150.69	ppb		97
47)	1,1-Dichloropropene	4.462	75	1818147	146.76	ppb		98
49)	Benzene	4.779	78	5307576	146.13	ppb		99
50)	1,2-Dichloroethane	4.786	62	1750588	143.04	ppb		98
51)	Iso-Butyl Alcohol	4.639	43	845193	3039.31	ppb		99
52)	n-Heptane	5.328	43	1649982	140.43	ppb		96
53)	1-Butanol	5.773	56	1238190	6883.32	ppb		95
54)	Trichloroethene	5.828	130	1422845	149.58	ppb		98
55)	Methylcyclohexane	6.109	55	1746330	143.33	ppb		95
56)	1,2-Diclpropane	6.115	63	1367151	143.68	ppb		96
57)	Dibromomethane	6.255	93	648296	144.03	ppb		94
58)	1,4-Dioxane	6.310	88	189055m	2641.14	ppb		
59)	Methyl Methacrylate	6.328	69	661902	150.86	ppb		97
60)	Bromodichloromethane	6.474	83	1714396	152.10	ppb		98
61)	2-Nitropropane	6.743	41	464508	308.78	ppb		94
62)	2-Chloroethylvinyl Ether	6.877	63	657108	148.18	ppb		99
63)	cis-1,3-Dichloropropene	7.017	75	2138996	152.31	ppb		99
64)	4-Methyl-2-pentanone	7.212	43	946558	146.02	ppb		99
66)	Toluene	7.395	91	5784987	147.72	ppb		96
67)	trans-1,3-Dichloropropene	7.627	75	1874867	156.58	ppb		98
68)	Ethyl Methacrylate	7.767	69	1433168	154.71	ppb		100
69)	1,1,2-Trichloroethane	7.803	97	982988	148.93	ppb		100
72)	Tetrachloroethene	7.962	164	1194428	155.93	ppb		99
73)	2-Hexanone	8.084	43	649233	146.70	ppb		96
74)	1,3-Dichloropropane	7.968	76	1755376	146.98	ppb		99
75)	Dibromochloromethane	8.187	129	1157405	161.64	ppb		100
76)	N-Butyl Acetate	8.236	43	1721869	151.38	ppb		99
77)	1,2-Dibromoethane	8.285	107	941966	150.73	ppb		99
78)	Chlorobenzene	8.767	112	3875321	150.33	ppb		98
79)	3-CBTF	8.785	180	2230532	157.96	ppb		96
80)	4-CBTF	8.840	180	1993174	157.74	ppb		97
81)	1,1,1,2-Tetrachloroethane	8.852	131	1387648	163.75	ppb		97
82)	Ethylbenzene	8.888	106	2139176	153.84	ppb	#	84
83)	(m+p)Xylene	8.998	106	5343943	317.62	ppb	#	76
84)	o-Xylene	9.346	106	2724444	161.05	ppb		89
85)	Styrene	9.352	104	4633665	165.60	ppb		95
87)	Bromoform	9.492	173	689544	166.01	ppb		99
88)	2-CBTF	9.577	180	2110998	143.36	ppb		99
89)	Isopropylbenzene	9.675	105	6098553	136.71	ppb		92
90)	Cyclohexanone	9.718	55	1106649	2257.63	ppb		98
91)	trans-1,4-Dichloro-2-B...	9.961	53	371259	138.48	ppb		98
92)	1,1,2,2-Tetrachloroethane	9.913	83	1227168	141.14	ppb		100
93)	Bromobenzene	9.913	156	1701592	144.60	ppb	#	87
94)	1,2,3-Trichloropropane	9.943	110	335413	127.20	ppb		94
95)	n-Propylbenzene	10.022	91	6854473	132.52	ppb		92
96)	2-Chlorotoluene	10.083	91	4430758	141.40	ppb		96

Sample : 150ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0104.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:58 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:50:51 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

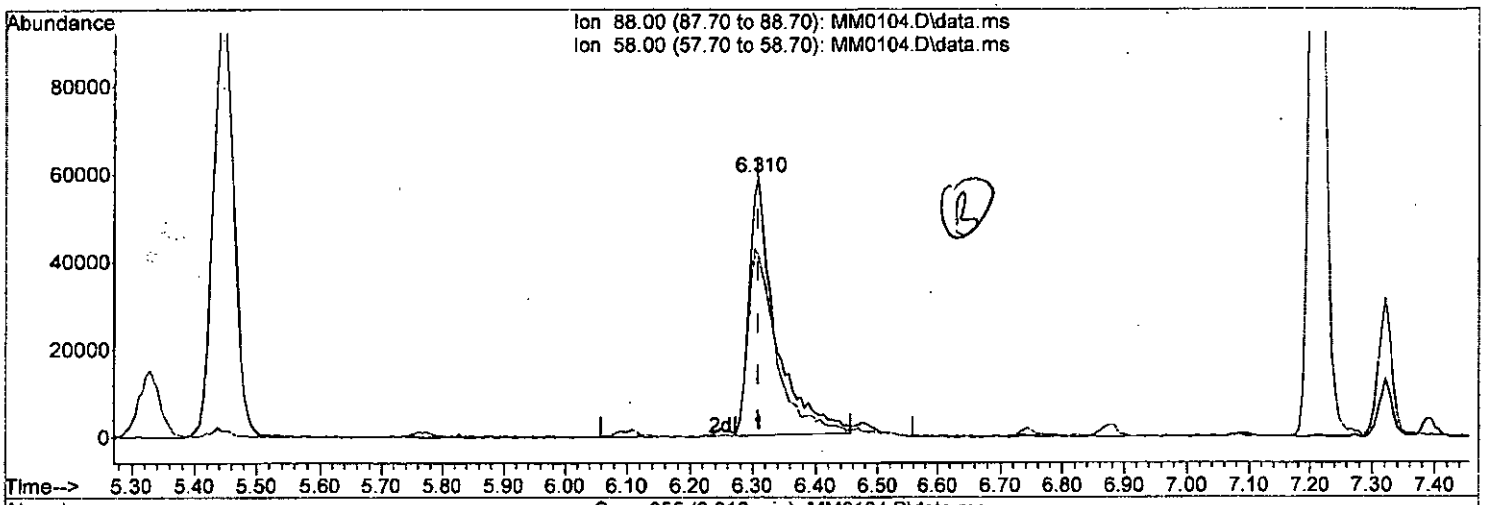
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.132	91	4643111	139.31	ppb	98
98)	4-Chlorotoluene	10.175	91	5629177	143.27	ppb	91
99)	1,3,5-Trimethylbenzene	10.175	105	5594262	144.58	ppb	90
100)	tert-Butylbenzene	10.443	119	4449940	142.39	ppb	97
101)	1,2,4-Trimethylbenzene	10.480	105	5416214	142.73	ppb	93
102)	3,4-DCBTF	10.534	214	1763882	159.04	ppb	99
103)	sec-Butylbenzene	10.620	105	6090432	138.60	ppb	95
104)	p-Isopropyltoluene	10.742	119	5406039	141.60	ppb	94
105)	1,3-Dclbenz	10.699	146	3246197	144.43	ppb	98
106)	1,4-Dclbenz	10.766	146	3338650	142.06	ppb	96
107)	2,4-DCBTF	10.821	214	1409289	148.18	ppb	100
108)	2,5-DCBTF	10.864	214	1591712	147.88	ppb	96
109)	n-Butylbenzene	11.065	91	4925609	145.81	ppb	94
110)	1,2-Dclbenz	11.065	146	3165417	149.68	ppb	99
111)	1,2-Dibromo-3-chloropr...	11.626	157	218754	149.49	ppb	94
112)	Trielution Dichlorotol...	11.729	125	7495783	432.31	ppb	95
113)	1,3,5 Trichlorobenzene	11.778	180	2072340	142.92	ppb	99
114)	Coelution Dichlorotoluene	11.998	125	5156489	283.98	ppb	88
115)	1,2,4-Tcbenzene	12.156	180	1781032	143.86	ppb	99
116)	Hexachlorobt	12.266	225	682734	139.48	ppb	98
117)	Naphthalen	12.302	128	3309080	140.66	ppb	98
118)	1,2,3-Tclbenzene	12.437	180	1467913	139.41	ppb	98
119)	2,4,5-Trichlorotolene	12.851	159	1009944	141.78	ppb	98
120)	2,3,6-Trichlorotoluene	12.912	159	952316	144.73	ppb	98

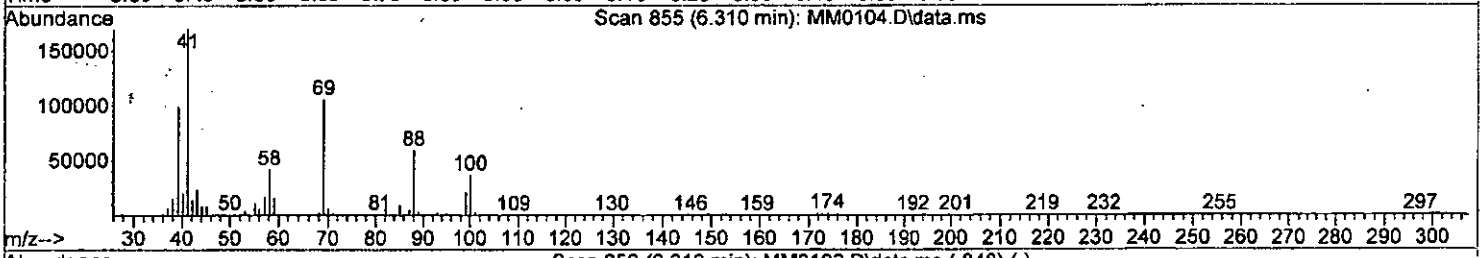
(#) = qualifier out of range (m) = manual integration (+) = signals summed

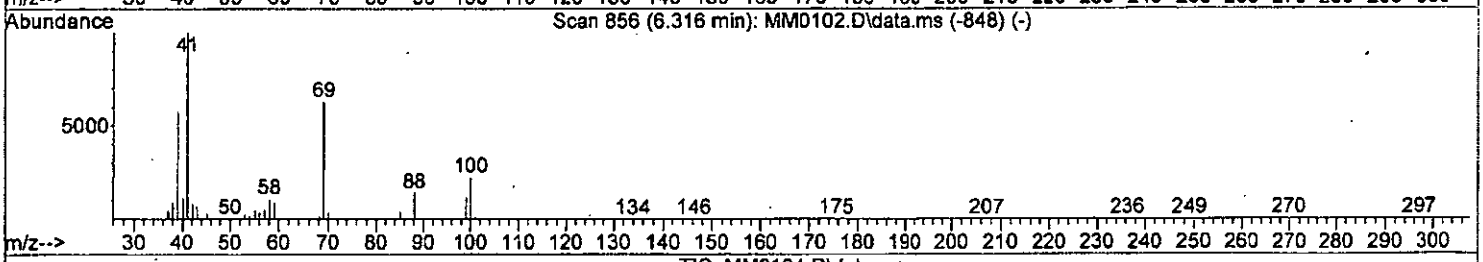
W102714.M Tue Oct 28 10:52:02 2014 Page: 3

Sample : 150ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0104.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:58 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:54 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0104.D\data.ms

(58) 1,4-Dioxane

6.310min (+0.001) 2447.29 ppb

response 175179

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	69.80
0.00	0.00	0.00
0.00	0.00	0.00

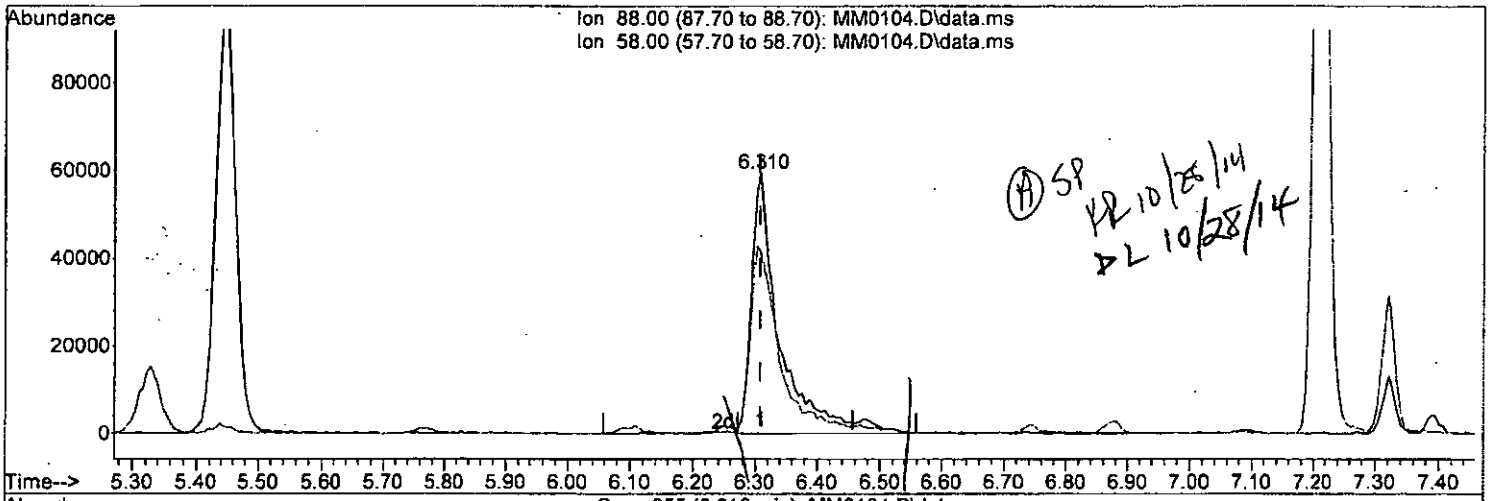
W102714.M Tue Oct 28 10:50:48 2014 Page: 1

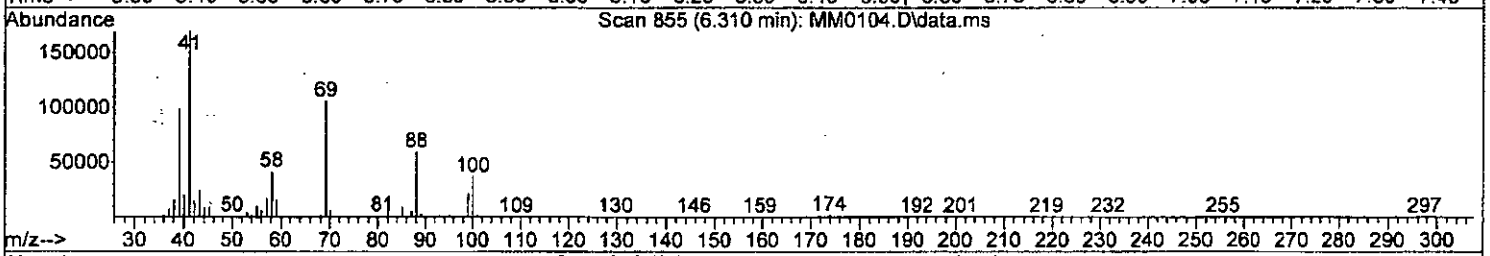
00178

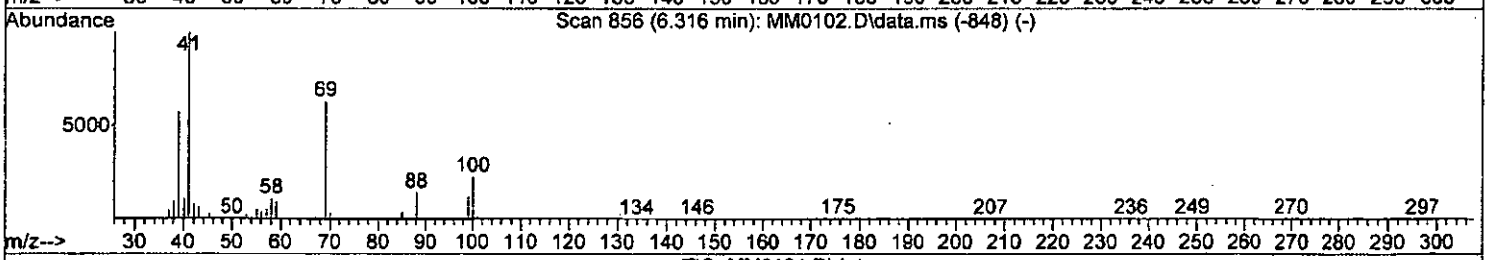
Quantitation Report (Qedit)

Sample : 150ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0104.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:58 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:54 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0104.D\data.ms

(58) 1,4-Dioxane

6.310min (+0.001) 2641.14 ppb m

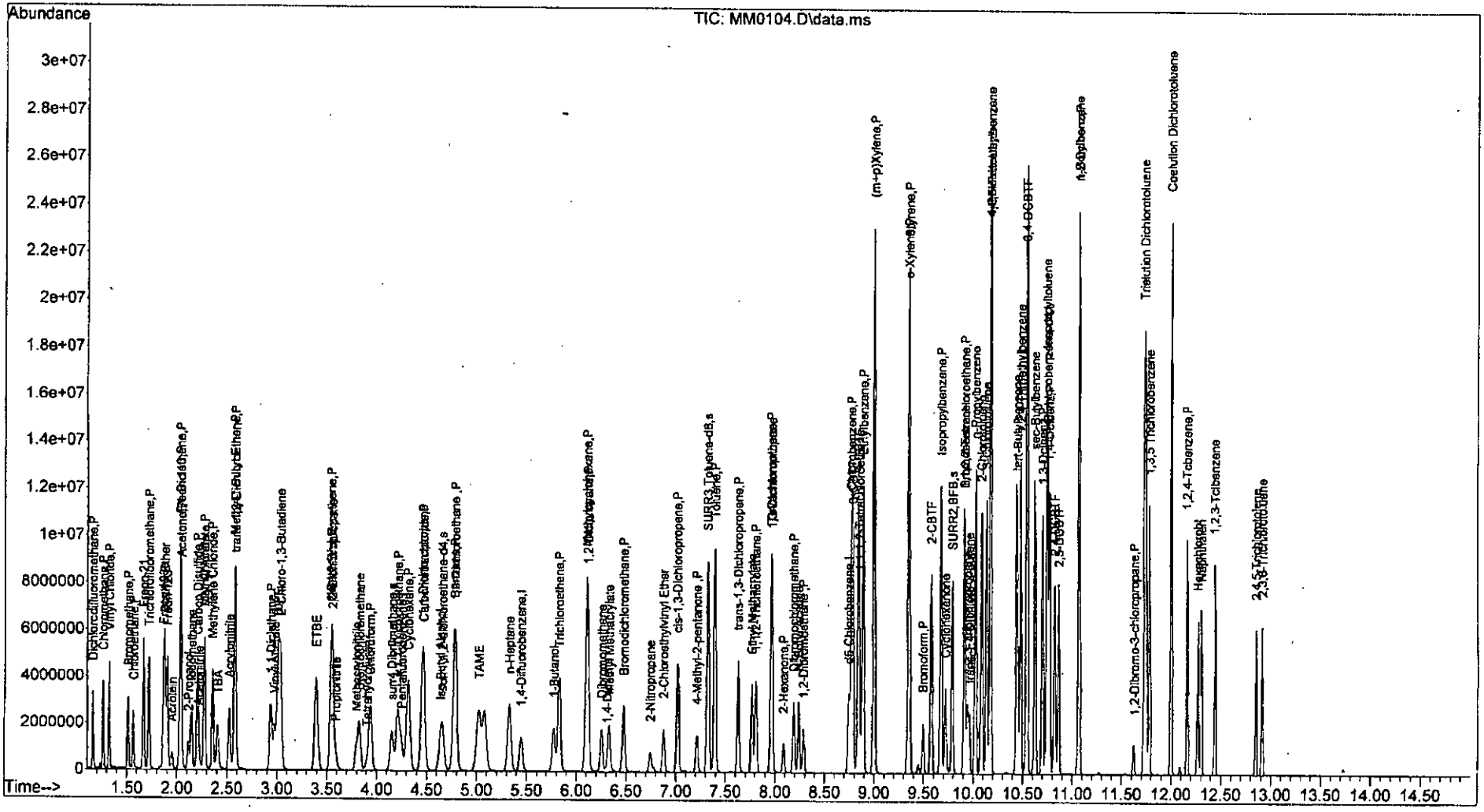
response 189055

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	69.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Sample : 150ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0104.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 7:58 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:50:51 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 10:52:04 2014

Page: 4

Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:53:21 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.249	168	938361	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.450	114	1405088	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1336420	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	856875	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	419684	51.29	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.58%				
48) surr1,1,2-dichloroetha...	4.664	65	511522	51.34	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 102.68%				
65) SURR3,Toluene-d8	7.322	98	1773951	51.50	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.00%				
70) SURR2,BFB	9.791	95	719916	53.86	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	1765054	198.82	ppb		98
3) Chloromethane	1.262	50	2306111	190.47	ppb		95
4) Vinyl Chloride	1.323	62	2430512	189.03	ppb		97
5) Bromomethane	1.512	94	1423463	228.93	ppb		98
6) Chloroethane	1.567	64	1507341	188.17	ppb		99
7) Freon 21	1.664	67	3625419	181.26	ppb		94
8) Trichlorofluoromethane	1.719	101	2917845	190.84	ppb		96
9) Diethyl Ether	1.878	59	1402184	201.43	ppb		99
10) Freon 123a	1.872	67	2122391m	193.46	ppb		
11) Freon 123	1.902	83	2378566	203.74	ppb		99
12) Acrolein	1.951	56	484305	1267.76	ppb		96
13) 1,1-Diclethene	2.042	96	1642096	202.57	ppb	#	87
14) Freon 113	2.036	101	1681141	202.50	ppb		98
15) Acetone	2.042	43	410958	205.15	ppb		97
16) 2-Propanol	2.115	45	1689463	4286.13	ppb		98
17) Iodomethane	2.146	142	2287822	195.53	ppb		98
18) Carbon Disulfide	2.207	76	5016245	184.08	ppb		97
19) Acetonitrile	2.219	40	329561	1043.07	ppb		95
20) Allyl Chloride	2.274	76	802686	175.39	ppb		98
21) Methyl Acetate	2.274	43	944569	205.91	ppb		98
22) Methylene Chloride	2.359	84	1724511	195.24	ppb		96
23) TBA	2.408	59	2753110	4219.87	ppb		100
24) Acrylonitrile	2.524	53	2274753	1065.44	ppb		98
25) Methyl-t-Butyl Ether	2.579	73	4674222	205.69	ppb		99
26) trans-1,2-Dichloroethene	2.585	96	1838177	209.82	ppb		95
28) 1,1-Diclethane	2.945	63	3091140	190.95	ppb		98
29) Vinyl Acetate	2.975	86	311276	210.91	ppb	#	81
30) DIPE	3.018	45	6293277	192.53	ppb		98
31) 2-Chloro-1,3-Butadiene	3.042	53	2938546	196.32	ppb		98
32) ETBE	3.396	59	5624174	199.06	ppb		97
33) 2,2-Dichloropropane	3.554	77	2776291	193.25	ppb		98
34) cis-1,2-Dichloroethene	3.548	96	1946936	205.02	ppb		93
35) 2-Butanone	3.548	43	598805	215.52	ppb		89
36) Propionitrile	3.591	54	858539	1118.87	ppb		96
37) Bromochloromethane	3.828	130	1018903	189.80	ppb		97

AR 10/28/14

W102714.M Tue Oct 28 10:54:05 2014 Page: 1

00181

Quantitation Report (QT Reviewed)

Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:53:21 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Methacrylonitrile	3.798	67	516142	217.47	ppb		95
39) Tetrahydrofuran	3.908	42	383136	200.96	ppb		89
40) Chloroform	3.938	83	3064265	188.03	ppb		99
41) 1,1,1-Trichloroethane	4.213	97	2780520	190.22	ppb		95
42) TAME	5.023	73	4776860	200.56	ppb		100
44) Cyclohexane	4.316	41	1984749	191.69	ppb		96
46) Carbontetrachloride	4.469	121	753848	205.47	ppb		96
47) 1,1-Dichloropropene	4.463	75	2413481	196.61	ppb		98
49) Benzene	4.786	78	7058812	196.13	ppb		99
50) 1,2-Dichloroethane	4.786	62	2401468	198.03	ppb		97
51) Iso-Butyl Alcohol	4.639	43	1277205	4635.02	ppb		99
52) n-Heptane	5.328	43	2171110	186.49	ppb		97
53) 1-Butanol	5.773	56	1974558	11077.76	ppb		95
54) Trichloroethene	5.828	130	1918652	203.55	ppb		99
55) Methylcyclohexane	6.109	55	2386890	197.71	ppb		93
56) 1,2-Diclpropane	6.115	63	1867598	198.08	ppb		96
57) Dibromomethane	6.255	93	901034	202.01	ppb		97
58) 1,4-Dioxane	6.310	88	280918m	3960.55	ppb		
59) Methyl Methacrylate	6.328	69	953046	219.21	ppb		95
60) Bromodichloromethane	6.474	83	2340913	209.59	ppb		98
61) 2-Nitropropane	6.743	41	688965	462.19	ppb		96
62) 2-Chloroethylvinyl Ether	6.877	63	914869	208.20	ppb		98
63) cis-1,3-Dichloropropene	7.023	75	2885276	207.34	ppb		98
64) 4-Methyl-2-pentanone	7.212	43	1359586	211.66	ppb		98
66) Toluene	7.395	91	7479987	192.75	ppb		92
67) trans-1,3-Dichloropropene	7.627	75	2573387	216.89	ppb		98
68) Ethyl Methacrylate	7.767	69	2035765	221.79	ppb		98
69) 1,1,2-Trichloroethane	7.809	97	1369977	209.47	ppb		98
72) Tetrachloroethene	7.962	164	1626582	211.50	ppb		100
73) 2-Hexanone	8.084	43	940326	211.63	ppb		98
74) 1,3-Dichloropropane	7.974	76	2444934	203.90	ppb		97
75) Dibromochloromethane	8.187	129	1635278	227.47	ppb		99
76) N-Butyl Acetate	8.236	43	2469918	216.28	ppb		98
77) 1,2-Dibromoethane	8.285	107	1326101	211.35	ppb		100
78) Chlorobenzene	8.773	112	5219945	201.69	ppb		97
79) 3-CBTF	8.785	180	3118772	219.99	ppb		96
80) 4-CBTF	8.840	180	2780493	219.18	ppb		100
81) 1,1,1,2-Tetrachloroethane	8.852	131	1939716	227.98	ppb		97
82) Ethylbenzene	8.888	106	2901724	207.85	ppb	#	71
83) (m+p)Xylene	8.998	106	7068047	418.43	ppb	#	68
84) o-Xylene	9.346	106	3745287	220.52	ppb	#	83
85) Styrene	9.358	104	6213685	221.19	ppb		96
87) Bromoform	9.498	173	1020037	239.59	ppb		100
88) 2-CBTF	9.577	180	2902201	192.28	ppb		98
89) Isopropylbenzene	9.675	105	7790115	170.36	ppb		86
90) Cyclohexanone	9.718	55	2066106	4112.11	ppb		98
91) trans-1,4-Dichloro-2-B...	9.961	53	536912	195.38	ppb		96
92) 1,1,2,2-Tetrachloroethane	9.913	83	1783205	200.09	ppb		100
93) Bromobenzene	9.913	156	2375429	196.94	ppb	#	87
94) 1,2,3-Trichloropropane	9.943	110	494219	182.86	ppb	#	90
95) n-Propylbenzene	10.022	91	8554939	161.36	ppb		85
96) 2-Chlorotoluene	10.083	91	5805537	180.75	ppb		93

W102714.M Tue Oct 28 10:54:05 2014 Page: 2

00182

Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:53:21 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	3-Chlorotoluene	10.132	91	6127307	179.35	ppb		94
98)	4-Chlorotoluene	10.175	91	7297335	181.19	ppb		86
99)	1,3,5-Trimethylbenzene	10.175	105	7225388	182.18	ppb		83
100)	tert-Butylbenzene	10.443	119	5803111	181.16	ppb		93
101)	1,2,4-Trimethylbenzene	10.480	105	6931393	178.20	ppb		85
102)	3,4-DCBTF	10.541	214	2499503	219.87	ppb		98
103)	sec-Butylbenzene	10.620	105	7733275	171.69	ppb		91
104)	p-Isopropyltoluene	10.742	119	6868515	175.52	ppb		87
105)	1,3-Dclbenz	10.699	146	4394482	190.75	ppb		97
106)	1,4-Dclbenz	10.772	146	4519219	187.61	ppb		96
107)	2,4-DCBTF	10.821	214	1941048	199.12	ppb		98
108)	2,5-DCBTF	10.864	214	2202602	199.64	ppb		95
109)	n-Butylbenzene	11.065	91	6344494	183.23	ppb		88
110)	1,2-Dclbenz	11.065	146	4396618	202.82	ppb		96
111)	1,2-Dibromo-3-chloropr...	11.626	157	325145	216.78	ppb		96
112)	Trielution Dichlorotol...	11.735	125	9830201	553.11	ppb	#	86
113)	1,3,5 Trichlorobenzene	11.778	180	2815163	189.42	ppb		98
114)	Coelution Dichlorotoluene	11.998	125	6634802	356.48	ppb	#	81
115)	1,2,4-Tcbenzene	12.162	180	2406928	189.67	ppb		97
116)	Hexachlorobt	12.266	225	905589	180.49	ppb		99
117)	Naphthalen	12.302	128	4559849	189.09	ppb		96
118)	1,2,3-Tclbenzene	12.437	180	2004227	185.70	ppb		97
119)	2,4,5-Trichlorotolene	12.851	159	1413693	193.62	ppb		99
120)	2,3,6-Trichlorotoluene	12.912	159	1340727	198.78	ppb		98

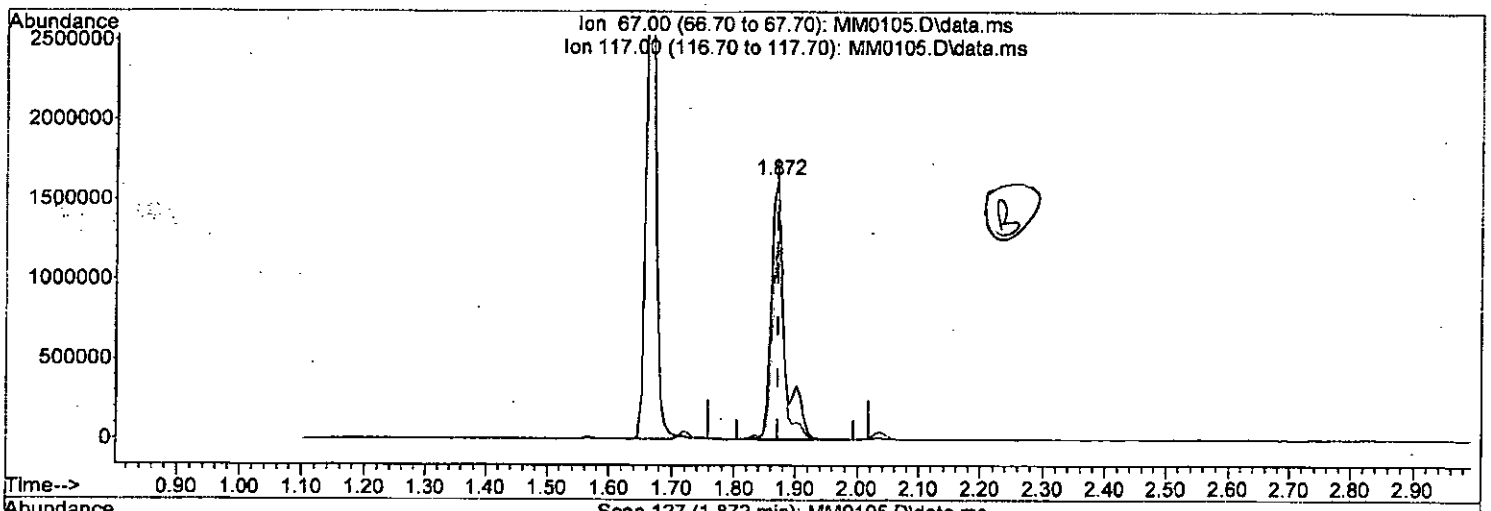
(#) = qualifier out of range (m) = manual integration (+) = signals summed

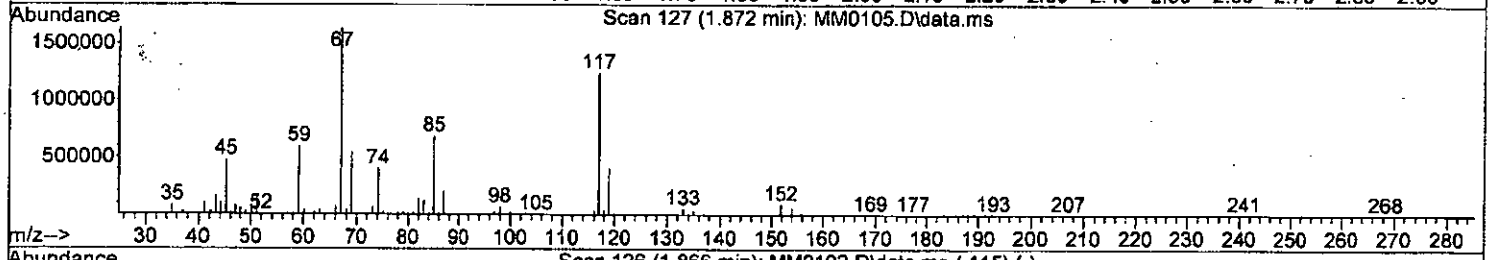
W102714.M Tue Oct 28 10:54:05 2014 Page: 3

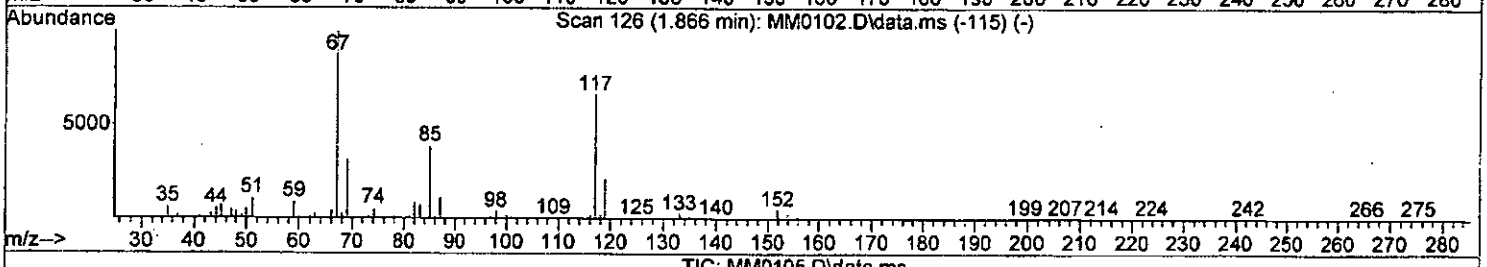
Quantitation Report (Qedit)

Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:58 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0105.D\data.ms

(10) Freon 123a

1.872min (-0.000) 231.26 ppb

response 2537105

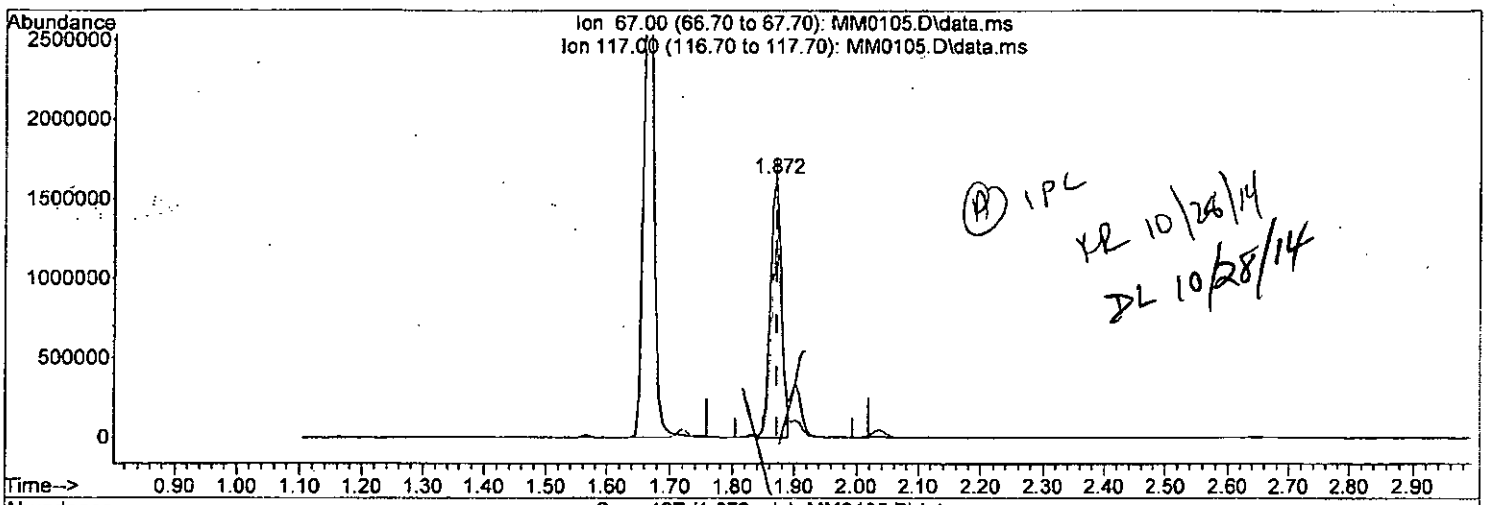
Ion	Exp%	Act%
67.00	100	100
117.00	66.20	76.10
0.00	0.00	0.00
0.00	0.00	0.00

W102714.M Tue Oct 28 10:52:32 2014 Page: 1

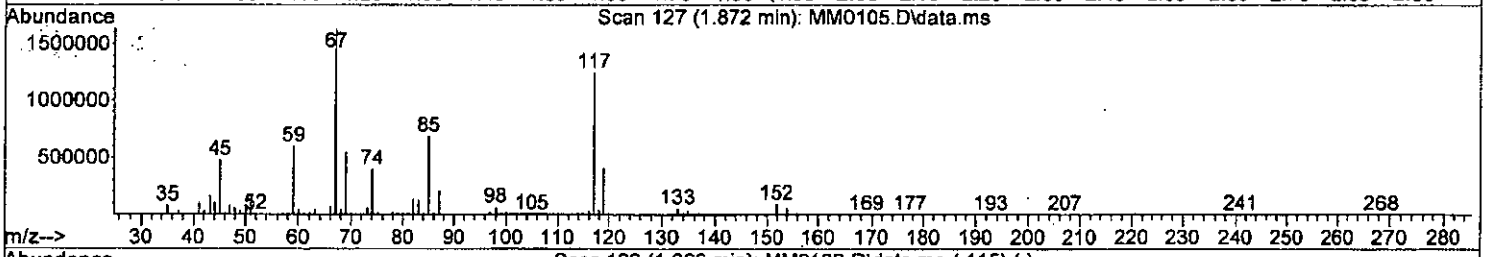
00184

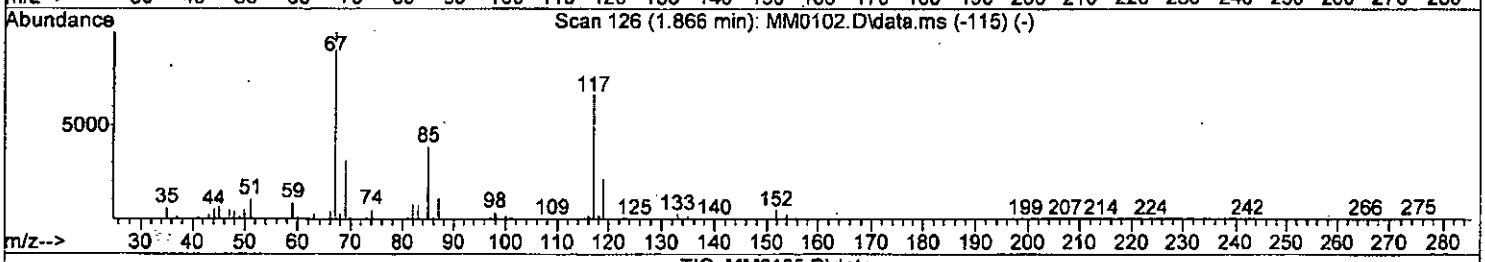
Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:58 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



(A) IPL
KR 10/26/14
DL 10/28/14





TIC: MM0105.D\data.ms

(10) Freon 123a

1.872min (-0.000) 193.46 ppb m

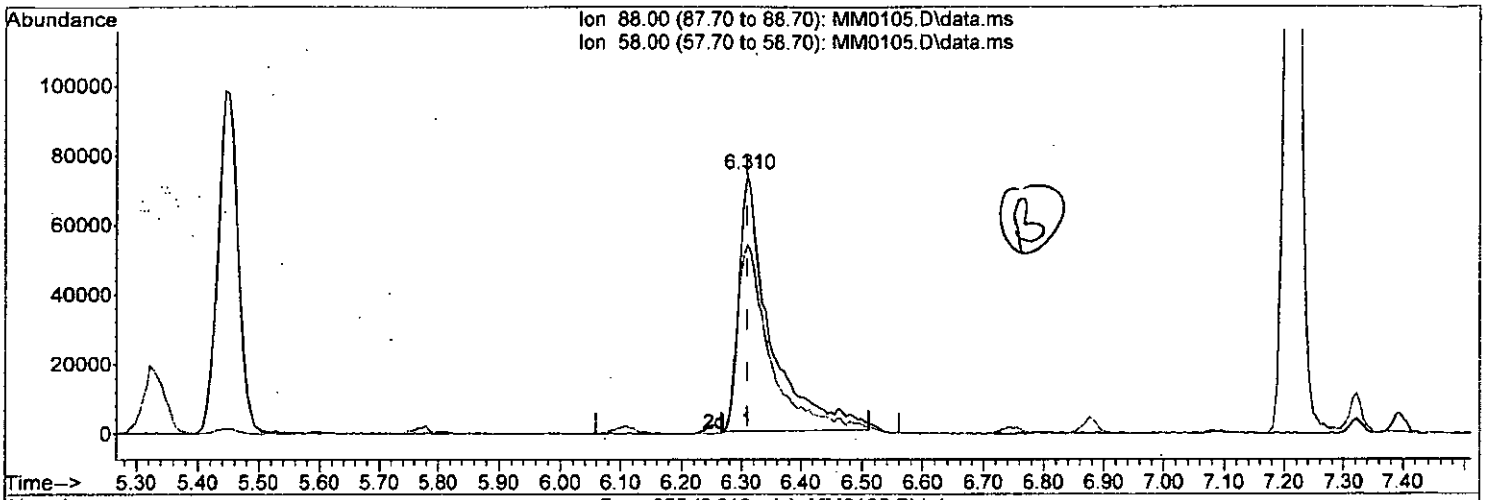
response 2122391

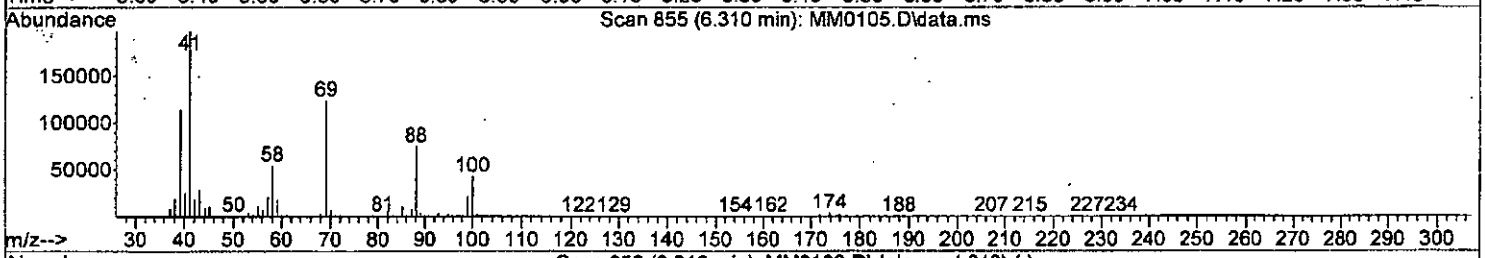
Ion	Exp%	Act%
67.00	100	100
117.00	66.20	76.10
0.00	0.00	0.00
0.00	0.00	0.00

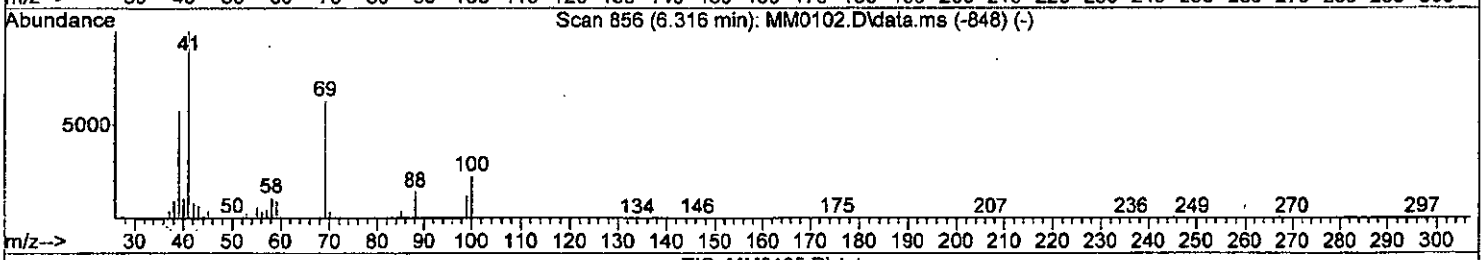
Quantitation Report (Qedit)

Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:58 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0105.D\data.ms

(58) 1,4-Dioxane

6.310min (+0.001) 3760.25 ppb

response 266711

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	72.47
0.00	0.00	0.00
0.00	0.00	0.00

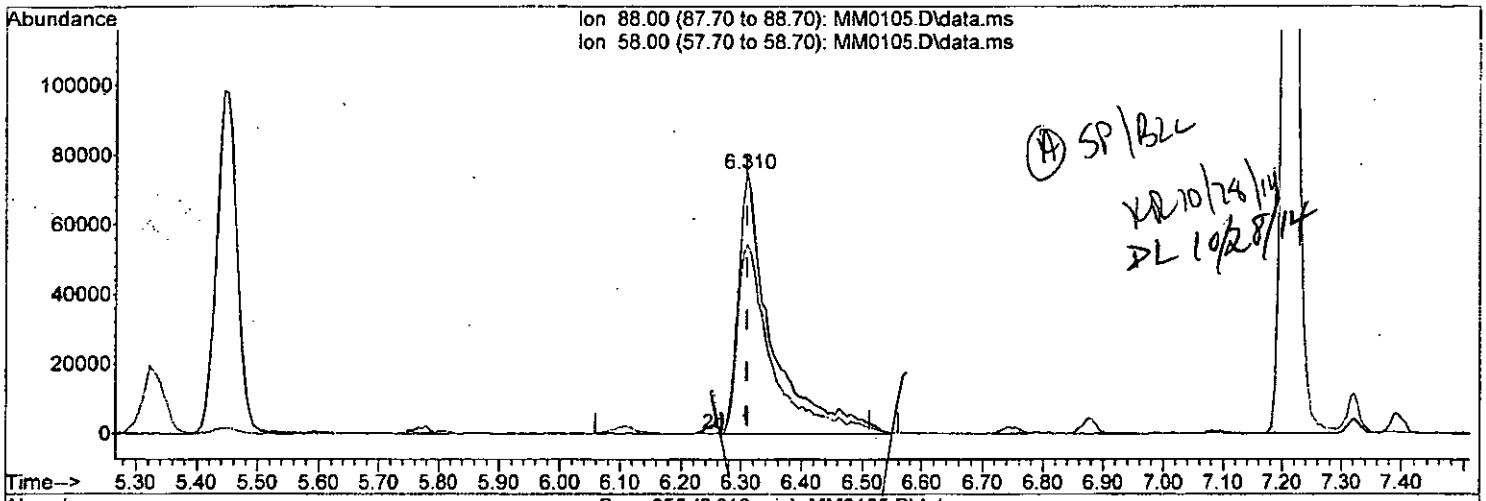
W102714.M Tue Oct 28 10:53:18 2014 Page: 1

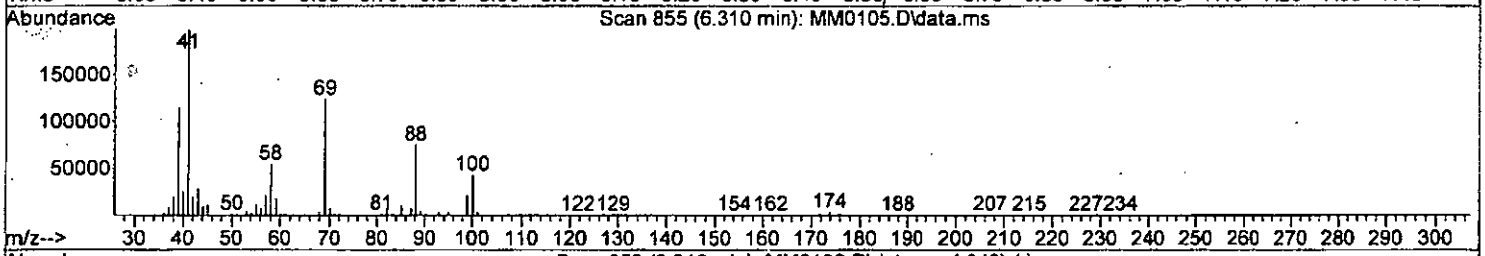
00186

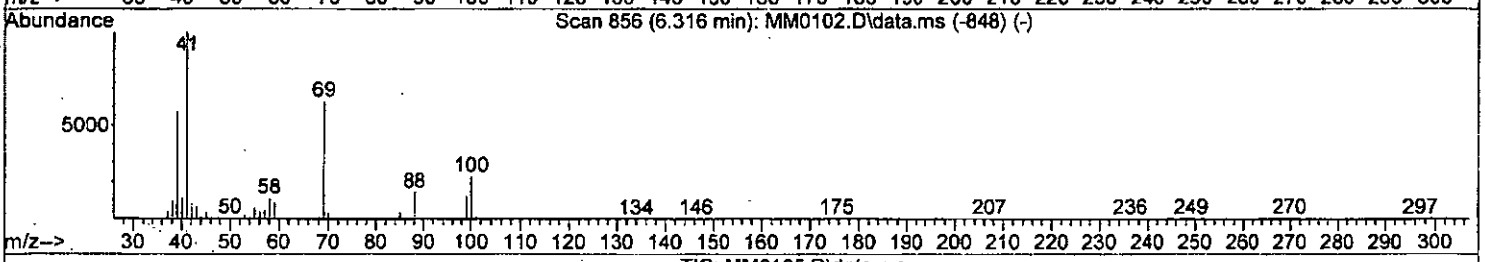
Quantitation Report (Qedit)

Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 09:42:58 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration







TIC: MM0105.D\data.ms

(58) 1,4-Dioxane

6.310min (+0.001) 3960.55 ppb m

response 280918

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	72.47
0.00	0.00	0.00
0.00	0.00	0.00

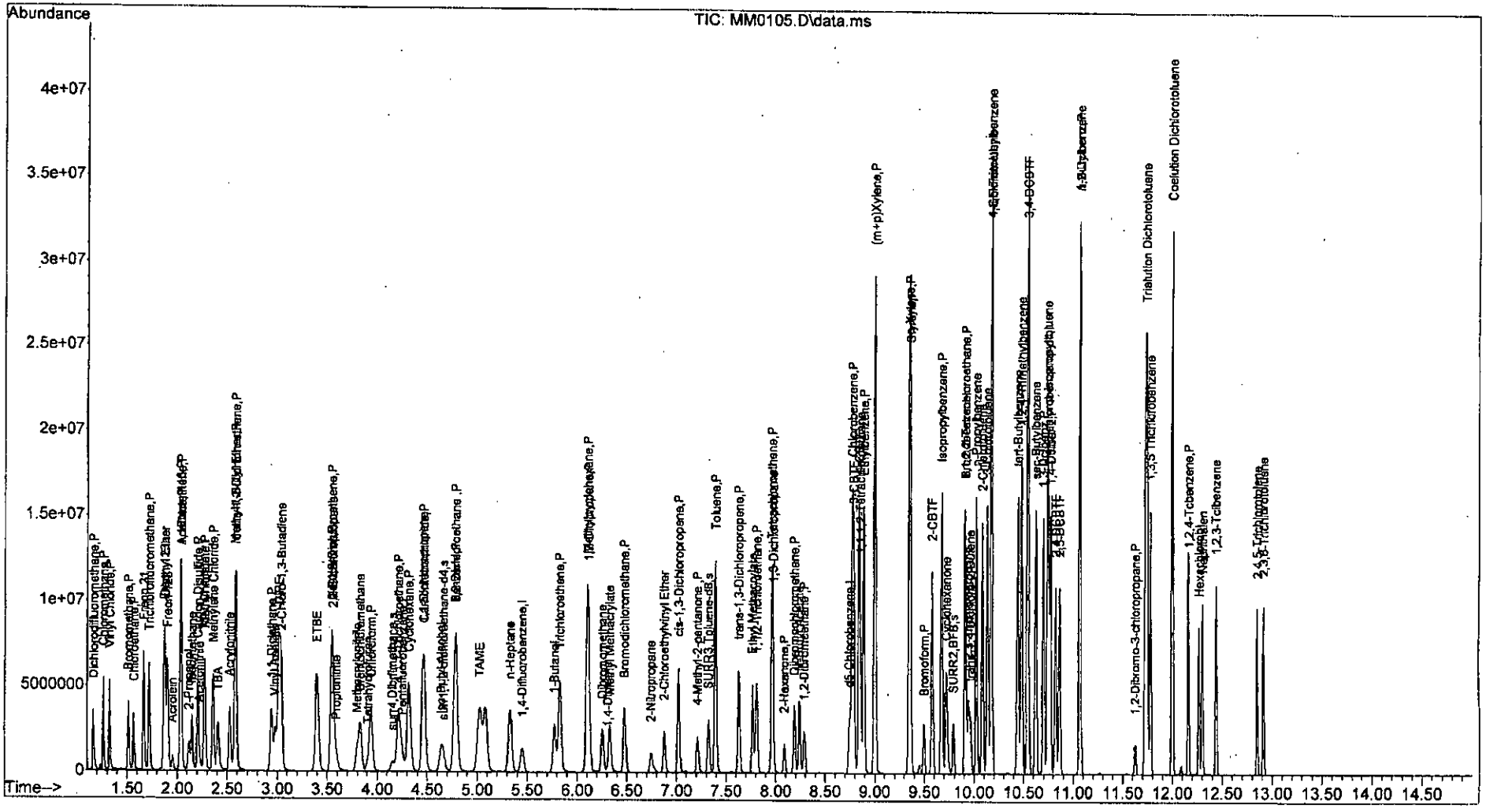
W102714.M Tue Oct 28 10:53:26 2014 Page: 1

00187

Quantitation Report (QT Reviewed)

Sample : 200ppb
Data File: I:\ACQUDATA\msvoa12\Data\102714\MM0105.D
Misc : 8260 WATER ICAL
Acq On : 27 Oct 2014 8:31 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 10:53:21 2014
QLast Update : Tue Oct 28 09:37:04 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 10:54:07 2014 Page: 4

Initial Calibration Verification Summary Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
5260 Waters W102714 **Column Name:** 1 KR 10/28/14

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1400098-10	T	Average RF	50	50.81	ppm	1.6	<=30
1,1,1-Trichloroethane (TCA)	RC1400098-10	T	Average RF	50	47.16	ppm	-5.7	<=30
1,1,2,2-Tetrachloroethane	RC1400098-10	T	Average RF	50	47.68	ppm	-4.6	<=30
1,1,2-Trichloroethane	RC1400098-10	T	Average RF	50	47.59	ppm	-4.8	<=30
1,1,2-Trichlorotrifluoroethane	RC1400098-10	T	Average RF	50	45.84	ppm	-8.3	<=30
1,1-Dichloroethane (1,1-DCA)	RC1400098-10	T	Average RF	50	47.13	ppm	-5.7	<=30
1,1-Dichloroethene (1,1-DCE)	RC1400098-10	T	Average RF	50	44.23	ppm	-11.5	<=30
1,1-Dichloropropene	RC1400098-10	T	Average RF	50	45.83	ppm	-8.3	<=30
1,2,3-Trichlorobenzene	RC1400098-10	T	Average RF	50	49.89	ppm	-0.2	<=30
1,2,3-Trichloropropane	RC1400098-10	T	Average RF	50	45.36	ppm	-9.3	<=30
1,2,4-Trichlorobenzene	RC1400098-10	T	Average RF	50	52.47	ppm	4.9	<=30
1,2,4-Trimethylbenzene	RC1400098-10	T	Average RF	50	51.18	ppm	2.4	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1400098-10	T	Average RF	50	51.40	ppm	2.8	<=30
1,2-Dibromoethane	RC1400098-10	T	Average RF	50	49.29	ppm	-1.4	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1400098-10	T	Average RF	50	49.76	ppm	-0.5	<=30
1,2-Dichlorobenzene	RC1400098-10	T	Average RF	50	49.33	ppm	-1.3	<=30
1,2-Dichloroethane	RC1400098-10	T	Average RF	50	46.57	ppm	-6.9	<=30
1,2-Dichloropropane	RC1400098-10	T	Average RF	50	47.54	ppm	-4.9	<=30
1,3,5-Trichlorobenzene	RC1400098-10	T	Average RF	50	50.75	ppm	1.5	<=30
1,3,5-Trimethylbenzene	RC1400098-10	T	Average RF	50	50.55	ppm	1.1	<=30
1,3-Dichlorobenzene	RC1400098-10	T	Average RF	50	49.00	ppm	-2.0	<=30
1,3-Dichloropropane	RC1400098-10	T	Average RF	50	47.48	ppm	-5.0	<=30
1,4-Dichlorobenzene	RC1400098-10	T	Average RF	50	48.82	ppm	-2.4	<=30
1,4-Dioxane	RC1400098-10	T	Average RF	1000	905.0	ppm	-9.5	<=30
1-Butanol	RC1400098-10	T	Average RF	2500	2549	ppm	1.9	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1400098-10	T	Average RF	50	50.95	ppm	1.9	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1400098-10	T	Average RF	50	50.14	ppm	0.3	<=30
2,2-Dichloropropane	RC1400098-10	T	Average RF	50	49.20	ppm	-1.6	<=30
2,3,6-Trichlorotoluene	RC1400098-10	T	Average RF	50	56.31	ppm	12.6	<=30
2,4,5-Trichlorotoluene	RC1400098-10	T	Average RF	50	52.75	ppm	5.5	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1400098-10	T	Average RF	150	157.0	ppm	4.7	<=30
2,4-Dichlorobenzotrifluoride	RC1400098-10	T	Average RF	50	51.68	ppm	3.4	<=30
2,5-Dichlorobenzotrifluoride	RC1400098-10	T	Average RF	50	51.37	ppm	2.7	<=30
2-Butanone (MEK)	RC1400098-10	T	Average RF	50	47.96	ppm	-4.1	<=30
2-Chloro-1,3-butadiene	RC1400098-10	T	Average RF	50	55.43	ppm	10.9	<=30
2-Chlorobenzotrifluoride	RC1400098-10	T	Average RF	50	49.25	ppm	-1.5	<=30
2-Chloroethyl Vinyl Ether	RC1400098-10	T	Average RF	50	50.32	ppm	0.6	<=30
2-Chlorotoluene	RC1400098-10	T	Average RF	50	50.40	ppm	0.8	<=30
2-Hexanone	RC1400098-10	T	Average RF	50	49.61	ppm	-0.8	<=30
2-Methyl-1-propanol	RC1400098-10	T	Average RF	1000	1017	ppm	1.7	<=30
2-Methyl-2-prupanol	RC1400098-10	T	Average RF	1000	973.6	ppm	-2.6	<=30
2-Nitropropane	RC1400098-10	T	Average RF	100	99.21	ppm	-0.8	<=30
2-Propanol	RC1400098-10	T	Average RF	1000	1052	ppm	5.2	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1400098-10	T	Average RF	100	106.5	ppm	6.5	<=30
3,4-Dichlorobenzotrifluoride	RC1400098-10	T	Average RF	50	50.88	ppm	1.8	<=30
3-Chloro-1-propene	RC1400098-10	T	Average RF	50	51.10	ppm	2.2	<=30
3-Chlorobenzotrifluoride	RC1400098-10	T	Average RF	50	50.41	ppm	0.8	<=30
3-Chlorotoluene	RC1400098-10	T	Average RF	50	50.45	ppm	0.9	<=30
4-Chlorotoluene	RC1400098-10	T	Average RF	50	50.27	ppm	0.5	<=30
4-Isopropyltoluene	RC1400098-10	T	Average RF	50	52.45	ppm	4.9	<=30
4-Methyl-2-pentanone	RC1400098-10	T	Average RF	50	48.79	ppm	-2.4	<=30

Initial Calibration Verification Summary Report

Calibration ID: RC1400098 **Instrument ID:** R-MS-12
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1400098-10	T	Average RF	50	44.04	ppm	-11.9	<=30
Acetonitrile	RC1400098-10	T	Average RF	250	243.3	ppm	-2.7	<=30
Acrolein	RC1400098-10	T	Average RF	100	161.1	ppm	61.1	<=30
Acrylonitrile	RC1400098-10	T	Average RF	250	239.2	ppm	-4.3	<=30
Benzene	RC1400098-10	T	Average RF	50	48.45	ppm	-3.1	<=30
Bromobenzene	RC1400098-10	T	Average RF	50	48.75	ppm	-2.5	<=30
Bromochloromethane	RC1400098-10	T	Average RF	50	48.20	ppm	-3.6	<=30
Bromodichloromethane	RC1400098-10	T	Average RF	50	50.16	ppm	0.3	<=30
Bromoform	RC1400098-10	T	Average RF	50	53.76	ppm	7.5	<=30
Bromomethane	RC1400098-10	T	Average RF	50	56.67	ppm	13.3	<=30
Carbon Disulfide	RC1400098-10	T	Average RF	50	52.10	ppm	4.2	<=30
Carbon Tetrachloride	RC1400098-10	T	Average RF	50	48.70	ppm	-2.6	<=30
Chlorobenzene	RC1400098-10	T	Average RF	50	48.97	ppm	-2.1	<=30
Chloroethane	RC1400098-10	T	Average RF	50	47.43	ppm	-5.1	<=30
Chloroform	RC1400098-10	T	Average RF	50	47.00	ppm	-6.0	<=30
Chloromethane	RC1400098-10	T	Average RF	50	48.91	ppm	-2.2	<=30
Cyclohexane	RC1400098-10	T	Average RF	50	45.05	ppm	-9.9	<=30
Cyclohexanone	RC1400098-10	T	Average RF	1000	653.5	ppm	-34.6	<=30
Dibromochloromethane	RC1400098-10	T	Average RF	50	52.06	ppm	4.1	<=30
Dibromomethane	RC1400098-10	T	Average RF	50	47.45	ppm	-5.1	<=30
Dichlorodifluoromethane (CFC 12)	RC1400098-10	T	Average RF	50	51.33	ppm	2.7	<=30
Dichlorofluoromethane (CFC 21)	RC1400098-10	T	Average RF	50	50.33	ppm	0.7	<=30
Dichloromethane	RC1400098-10	T	Average RF	50	46.24	ppm	-7.5	<=30
Diethyl Ether	RC1400098-10	T	Average RF	50	47.80	ppm	-4.4	<=30
Diisopropyl Ether	RC1400098-10	T	Average RF	50	47.23	ppm	-5.5	<=30
Ethyl Methacrylate	RC1400098-10	T	Average RF	50	50.32	ppm	0.6	<=30
Ethyl tert-Butyl Ether	RC1400098-10	T	Average RF	50	46.92	ppm	-6.2	<=30
Ethylbenzene	RC1400098-10	T	Average RF	50	45.67	ppm	-8.7	<=30
Hexachlorobutadiene	RC1400098-10	T	Average RF	50	51.56	ppm	3.1	<=30
Iodomethane	RC1400098-10	T	Average RF	50	50.49	ppm	1.0	<=30
Isopropylbenzene (Cumene)	RC1400098-10	T	Average RF	50	50.33	ppm	0.7	<=30
Methacrylonitrile	RC1400098-10	T	Average RF	50	48.23	ppm	-3.5	<=30
Methyl Acetate	RC1400098-10	T	Average RF	50	47.48	ppm	-5.0	<=30
Methyl Methacrylate	RC1400098-10	T	Average RF	50	50.48	ppm	1.0	<=30
Methyl tert-Butyl Ether	RC1400098-10	T	Average RF	50	48.66	ppm	-2.7	<=30
Methylcyclohexane	RC1400098-10	T	Average RF	50	46.37	ppm	-7.3	<=30
Naphthalene	RC1400098-10	T	Average RF	50	52.21	ppm	4.4	<=30
Propionitrile	RC1400098-10	T	Average RF	250	222.8	ppm	-10.9	<=30
Styrene	RC1400098-10	T	Average RF	50	51.95	ppm	3.9	<=30
Tetrachloroethene (PCE)	RC1400098-10	T	Average RF	50	49.75	ppm	-0.5	<=30
Tetrahydrofuran (THF)	RC1400098-10	T	Average RF	50	46.69	ppm	-6.6	<=30
Toluene	RC1400098-10	T	Average RF	50	49.36	ppm	-1.3	<=30
Trichloroethene (TCE)	RC1400098-10	T	Average RF	50	49.04	ppm	-1.9	<=30
Trichlorofluoromethane (CFC 11)	RC1400098-10	T	Average RF	50	45.13	ppm	-9.7	<=30
Vinyl Acetate	RC1400098-10	T	Average RF	50	49.10	ppm	-1.8	<=30
Vinyl Chloride	RC1400098-10	T	Average RF	50	49.37	ppm	-1.3	<=30
cis-1,2-Dichloroethene	RC1400098-10	T	Average RF	50	49.06	ppm	-1.9	<=30
cis-1,3-Dichloropropene	RC1400098-10	T	Average RF	50	48.93	ppm	-2.1	<=30
m,p-Xylenes	RC1400098-10	T	Average RF	100	103.7	ppm	3.7	<=30
n-Butyl Acetate	RC1400098-10	T	Average RF	50	47.98	ppm	-4.0	<=30
n-Butylbenzene	RC1400098-10	T	Average RF	50	52.64	ppm	5.3	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1400098	**Instrument ID:**	R-MS-12
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1400098-10	T	Average RF	50	45.74	ppm	-8.5	<=30
n-Propylbenzene	RC1400098-10	T	Average RF	50	50.73	ppm	1.5	<=30
o-Xylene	RC1400098-10	T	Average RF	50	50.90	ppm	1.8	<=30
sec-Butylbenzene	RC1400098-10	T	Average RF	50	51.22	ppm	2.4	<=30
tert-Amyl Methyl Ether	RC1400098-10	T	Average RF	50	48.19	ppm	-3.6	<=30
tert-Butylbenzene	RC1400098-10	T	Average RF	50	50.52	ppm	1.0	<=30
trans-1,2-Dichloroethene	RC1400098-10	T	Average RF	50	48.49	ppm	-3.0	<=30
trans-1,3-Dichloropropene	RC1400098-10	T	Average RF	50	50.64	ppm	1.3	<=30
trans-1,4-Dichloro-2-butene	RC1400098-10	T	Average RF	50	43.19	ppm	-13.6	<=30
1,2-Dichloroethane-d4	RC1400098-10	S	Average RF	50	49.64	ppm	-0.7	<=30
4-Bromofluorobenzene	RC1400098-10	S	Average RF	50	51.49	ppm	3.0	<=30
Dibromofluoromethane	RC1400098-10	S	Average RF	50	51.59	ppm	3.2	<=30
Toluene-d8	RC1400098-10	S	Average RF	50	51.62	ppm	3.2	<=30

Exceptions

QAP	Method
CRA-OXY	8260C

Compound	Type	Criteria	Result
Acrolein	Percent Difference	<= 30	61.10
Cyclohexanone	Percent Difference	<= 30	-34.65

Sample : ICV/ICS
Data File: I:\ACQUDATA\msvoa12\Data\102814\MM0112.D
Misc : 50ppb
Acq On : 28 Oct 2014 11:34 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 11:49:50 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.243	168	942917	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.450	114	1419933	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1331669	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	783683	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	426611	51.59	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.18%				
48) surr1,1,2-dichloroetha...	4.658	65	499853	49.64	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 99.28%				
65) SURR3,Toluene-d8	7.322	98	1796948	51.62	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.24%				
70) SURR2,BFB	9.785	95	695509	51.49	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.164	85	457869	51.33	ppb		99
3) Chloromethane	1.262	50	595075	48.91	ppb		99
4) Vinyl Chloride	1.323	62	637845	49.37	ppb		99
5) Bromomethane	1.512	94	354073	56.67	ppb		98
6) Chloroethane	1.567	64	381754	47.43	ppb		98
7) Freon 21	1.664	67	1011524	50.33	ppb		98
8) Trichlorofluoromethane	1.719	101	693291	45.13	ppb		98
9) Diethyl Ether	1.878	59	334342	47.80	ppb		97
10) Freon 123a	1.865	67	553348	49.76	ppb		99
11) Freon 123	1.902	83	588218	50.14	ppb		96
12) Acrolein	1.951	56	63493	161.10	ppb		99
13) 1,1-Diclethene	2.036	96	360299	44.23	ppb		99
14) Freon 113	2.036	101	382396	45.84	ppb		96
15) Acetone	2.048	43	87928	44.04	ppb		97
16) 2-Propanol	2.128	45	416714	1052.08	ppb		99
17) Iodomethane	2.146	142	593585	50.49	ppb		99
18) Carbon Disulfide	2.207	76	1426748	52.10	ppb		99
19) Acetonitrile	2.225	40	77246	243.30	ppb		95
20) Allyl Chloride	2.274	76	235825	51.10	ppb		99
21) Methyl Acetate	2.274	43	218861	47.48	ppb		99
22) Methylene Chloride	2.359	84	410394	46.24	ppb		98
23) TBA	2.414	59	638250	973.56	ppb		98
24) Acrylonitrile	2.524	53	513252	239.23	ppb		98
25) Methyl-t-Butyl Ether	2.579	73	1111212	48.66	ppb		99
26) trans-1,2-Dichloroethene	2.585	96	426894	48.49	ppb		96
28) 1,1-Diclethane	2.938	63	766656	47.13	ppb		98
29) Vinyl Acetate	2.981	86	72385	49.10	ppb	#	86
30) DIPE	3.012	45	1544536	47.23	ppb		98
31) 2-Chloro-1,3-Butadiene	3.042	53	833770	55.43	ppb		99
32) ETBE	3.396	59	1332038	46.92	ppb		98
33) 2,2-Dichloropropane	3.554	77	710302	49.20	ppb		98
34) cis-1,2-Dichloroethene	3.542	96	468151	49.06	ppb		98
35) 2-Butanone	3.548	43	136396	47.96	ppb		93
36) Propionitrile	3.591	54	186469	222.83	ppb		98
37) Bromochloromethane	3.828	130	260223	48.20	ppb		94

W102714.M Tue Oct 28 11:50:38 2014 Page: 1

00192

Sample : 1CV/LCS
Data File: I:\ACQUDATA\msvoa12\Data\102814\MM0112.D
Misc : 50ppb
Acq On : 28 Oct 2014 11:34 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 11:49:50 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) Methacrylonitrile	3.798	67	120104	48.23 ppb	91
39) Tetrahydrofuran	3.902	42	89415	46.69 ppb	93
40) Chloroform	3.938	83	769626	47.00 ppb	99
41) 1,1,1-Trichloroethane	4.213	97	692759	47.16 ppb	99
42) TAME	5.023	73	1144817	48.19 ppb	98
44) Cyclohexane	4.316	41	473633	45.05 ppb	97
46) Carbontetrachloride	4.462	121	180570	48.70 ppb	95
47) 1,1-Dichloropropene	4.462	75	568484	45.83 ppb	98
49) Benzene	4.779	78	1762197	48.45 ppb	100
50) 1,2-Dichloroethane	4.786	62	570681	46.57 ppb	97
51) Iso-Butyl Alcohol	4.651	43	292792	1016.99 ppb	98
52) n-Heptane	5.328	43	538080	45.74 ppb	98
53) 1-Butanol	5.779	56	452641	2548.57 ppb	94
54) Trichloroethene	5.828	130	466244	49.04 ppb	98
55) Methylcyclohexane	6.102	55	565715	46.37 ppb	96
56) 1,2-Diclpropane	6.108	63	452957	47.54 ppb	97
57) Dibromomethane	6.255	93	213867	47.45 ppb	94
58) 1,4-Dioxane	6.322	88	64914m	905.05 ppb	
59) Methyl Methacrylate	6.328	69	221957	50.48 ppb	94
60) Bromodichloromethane	6.474	83	566148	50.16 ppb	99
61) 2-Nitropropane	6.742	41	149044	99.21 ppb	97
62) 2-Chloroethylvinyl Ether	6.877	63	223464	50.32 ppb	98
63) cis-1,3-Dichloropropene	7.017	75	688107	48.93 ppb	98
64) 4-Methyl-2-pentanone	7.212	43	316516	48.79 ppb	98
66) Toluene	7.389	91	1935529	49.36 ppb	99
67) trans-1,3-Dichloropropene	7.626	75	607062	50.64 ppb	99
68) Ethyl Methacrylate	7.767	69	469406	50.32 ppb	100
69) 1,1,2-Trichloroethane	7.809	97	314525	47.59 ppb	98
72) Tetrachloroethene	7.962	164	381277	49.75 ppb	98
73) 2-Hexanone	8.084	43	222431	49.61 ppb	96
74) 1,3-Dichloropropane	7.968	76	567306	47.48 ppb	99
75) Dibromochloromethane	8.187	129	372957	52.06 ppb	99
76) N-Butyl Acetate	8.236	43	555367	47.98 ppb	100
77) 1,2-Dibromoethane	8.285	107	308172	49.29 ppb	98
78) Chlorobenzene	8.767	112	1262882	48.97 ppb	99
79) 3-CBTF	8.785	180	712114	50.41 ppb	99
80) 4-CBTF	8.834	180	644089	50.95 ppb	99
81) 1,1,1,2-Tetrachloroethane	8.846	131	430743	50.81 ppb	99
82) Ethylbenzene	8.888	106	635274	45.67 ppb	96
83) (m+p)Xylene	8.998	106	1746106	103.74 ppb	99
84) o-Xylene	9.346	106	861363	50.90 ppb	98
85) Styrene	9.352	104	1454346	51.95 ppb	99
87) Bromoform	9.492	173	209330	53.76 ppb	99
88) 2-CBTF	9.577	180	679818	49.25 ppb	99
89) Isopropylbenzene	9.669	105	2104650	50.33 ppb	99
90) Cyclohexanone	9.718	55	300306	653.51 ppb	99
91) trans-1,4-Dichloro-2-B...	9.961	53	108545	43.19 ppb	99
92) 1,1,2,2-Tetrachloroethane	9.913	83	388617	47.68 ppb	100
93) Bromobenzene	9.907	156	537758	48.75 ppb	99
94) 1,2,3-Trichloropropane	9.943	110	112131	45.36 ppb	93
95) n-Propylbenzene	10.022	91	2459940	50.73 ppb	100
96) 2-Chlorotoluene	10.083	91	1480490	50.40 ppb	98

W102714.M Tue Oct 28 11:50:38 2014 Page: 2

Sample : ICV/LCS
Data File: I:\ACQUDATA\msvoa12\Data\102814\MM0112.D
Misc : 50ppb
Acq On : 28 Oct 2014 11:34 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 11:49:50 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.132	91	1576716	50.45	ppb	99
98)	4-Chlorotoluene	10.169	91	1851599	50.27	ppb	100
99)	1,3,5-Trimethylbenzene	10.169	105	1833826	50.55	ppb	99
100)	tert-Butylbenzene	10.437	119	1480067	50.52	ppb	99
101)	1,2,4-Trimethylbenzene	10.473	105	1820594	51.18	ppb	100
102)	3,4-DCBTF	10.534	214	528944	50.88	ppb	100
103)	sec-Butylbenzene	10.620	105	2110226	51.22	ppb	99
104)	p-Isopropyltoluene	10.742	119	1877023	52.45	ppb	99
105)	1,3-Dclbenz	10.693	146	1032346	49.00	ppb	99
106)	1,4-Dclbenz	10.766	146	1075495	48.82	ppb	99
107)	2,4-DCBTF	10.821	214	460780	51.68	ppb	99
108)	2,5-DCBTF	10.858	214	518365	51.37	ppb	97
109)	n-Butylbenzene	11.065	91	1666960	52.64	ppb	99
110)	1,2-Dclbenz	11.065	146	977926	49.33	ppb	97
111)	1,2-Dibromo-3-chloropr...	11.626	157	70506	51.40	ppb	93
112)	Trielution Dichlorotol...	11.729	125	2552099	157.01	ppb	99
113)	1,3,5 Trichlorobenzene	11.778	180	689868	50.75	ppb	100
114)	Coelution Dichlorotoluene	11.998	125	1812374	106.47	ppb	99
115)	1,2,4-Tcbenzene	12.156	180	609007	52.47	ppb	99
116)	Hexachlorobt	12.266	225	236614	51.56	ppb	98
117)	Naphthalen	12.296	128	1151418	52.21	ppb	99
118)	1,2,3-Tclbenzene	12.437	180	492466	49.89	ppb	98
119)	2,4,5-Trichlorotolene	12.851	159	352622	52.75	ppb	98
120)	2,3,6-Trichlorotoluene	12.912	159	347379	56.31	ppb	99

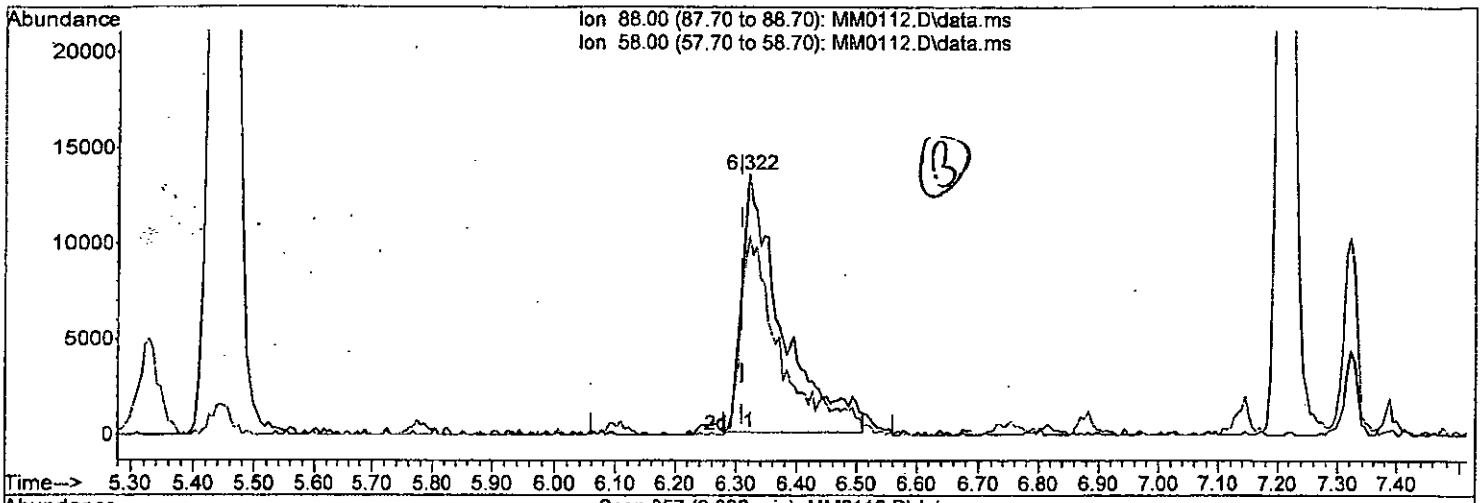
(#) = qualifier out of range (m) = manual integration (+) = signals summed

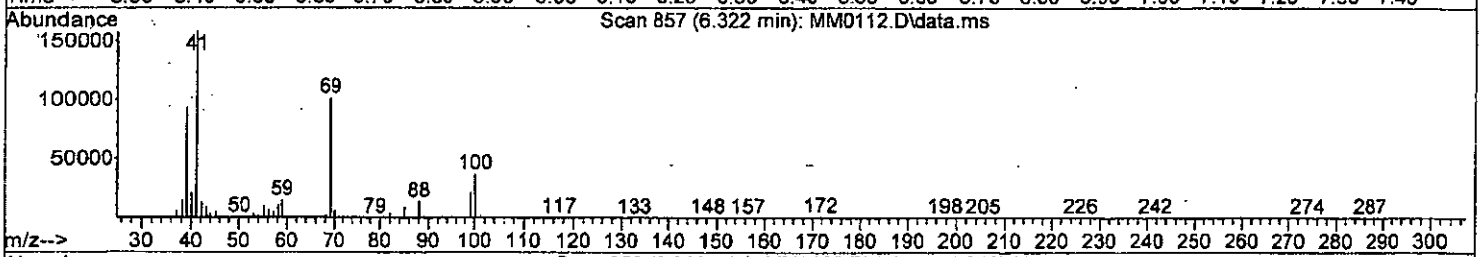
W102714.M Tue Oct 28 11:50:38 2014 Page: 3

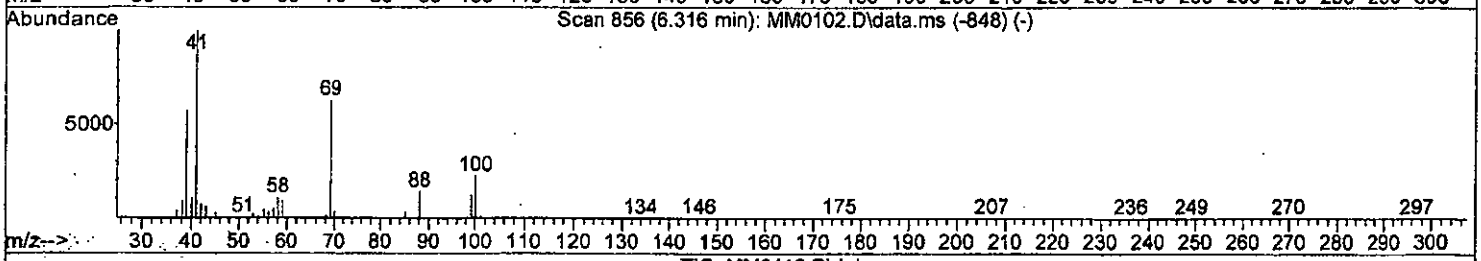
0194

Sample : 10W1KS
Data File: I:\ACQUDATA\msvoa12\Data\102814\MM0112.D
Misc : 50ppb
Acq On : 28 Oct 2014 11:34 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 11:48:28 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration







TIC: MM0112.D\data.ms

(58) 1,4-Dioxane

6.322min (+0.012) 859.71 ppb

response 61662

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	76.18
0.00	0.00	0.00
0.00	0.00	0.00

W102714.M Tue Oct 28 11:49:46 2014 Page: 1

00195

```
Sample      : ICV/LCS
Data File: I:\ACQUDATA\msvoa12\Data\102814\MM0112.D
Misc        : 50ppb
Acq On      : 28 Oct 2014  11:34 am
Operator    : K.Ruest
InstName    : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title  : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Oct 28 11:48:28 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration
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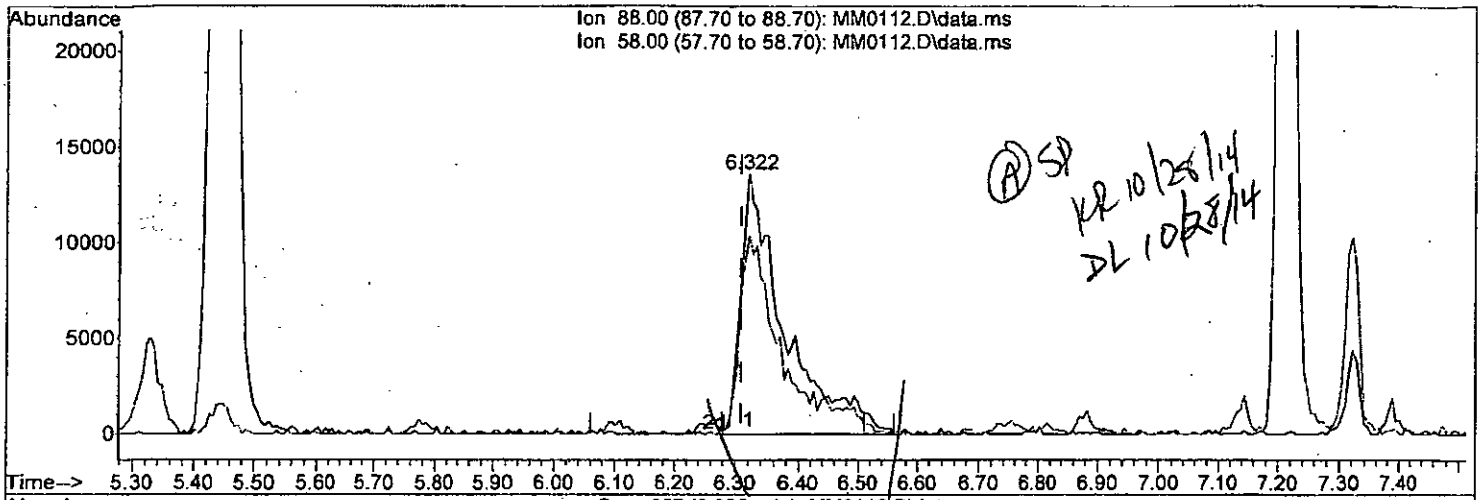
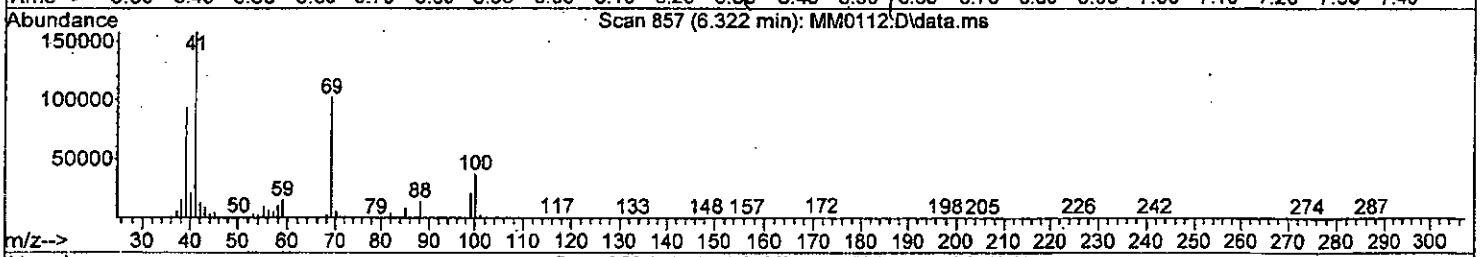
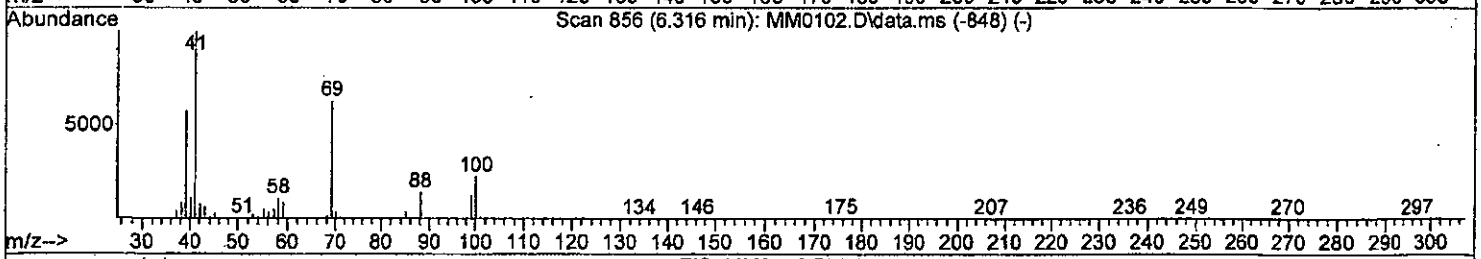






TIC: MM0112.D\data.ms

(58) 1,4-Dioxane

6.322min (+0.012) 905.05 ppb m

response 64914

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	76.18
0.00	0.00	0.00
0.00	0.00	0.00

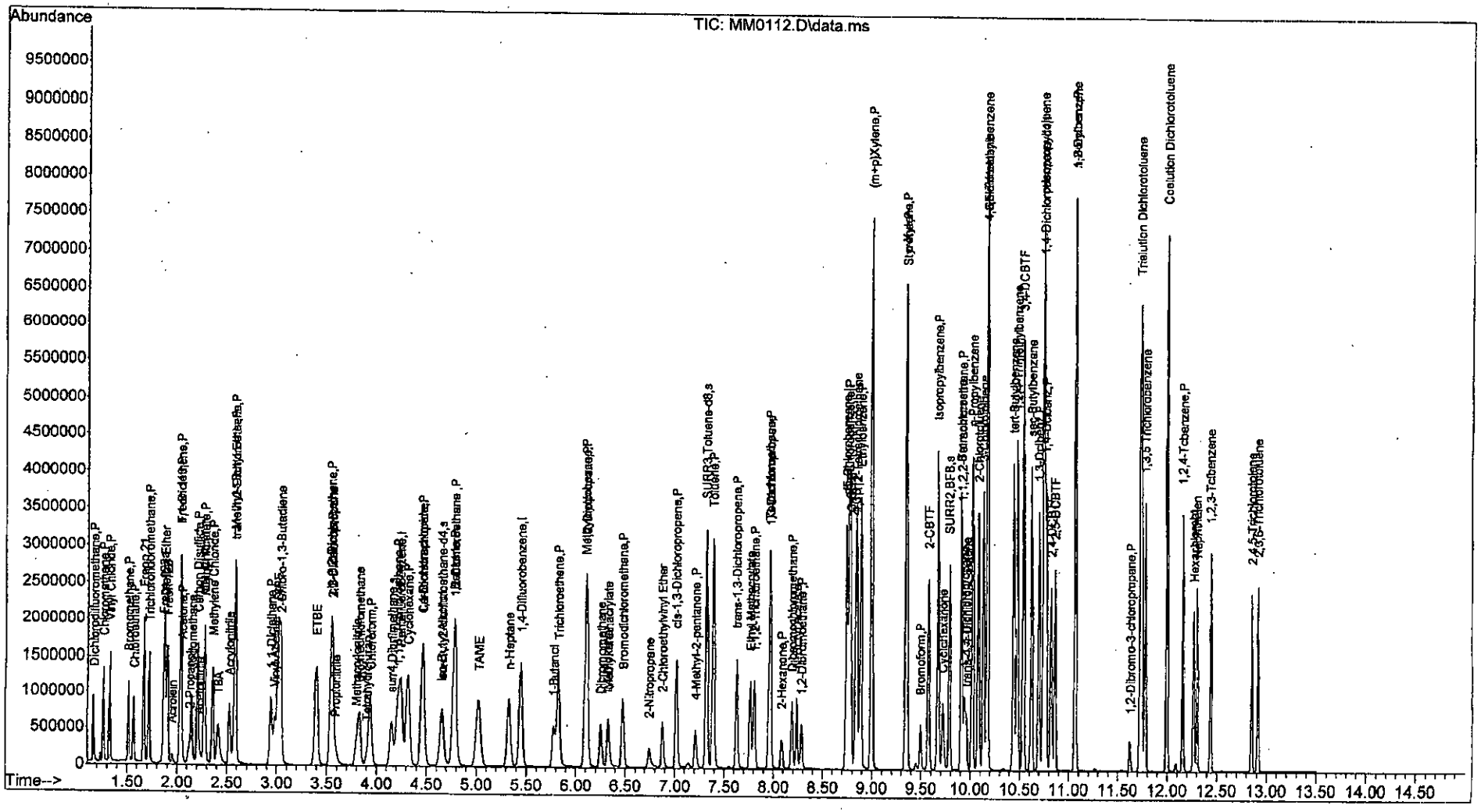
W102714.M Tue Oct 28 11:49:54 2014 Page: 1

00196

Quantitation Report (QT Reviewed)

Sample : ICV/LCS
Data File: I:\ACQUDATA\msvoa12\Data\102814\MM0112.D
Misc : 50ppb
Acq On : 28 Oct 2014 11:34 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 ~ 8260B WATERS 10mL Purge
Quant Time: Oct 28 11:49:50 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



W102714.M Tue Oct 28 11:50:41 2014 Page: 4

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000

Service Request: R1410310
Date Analyzed: 12/29/14

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D\

Calibration Date: 10/27/14
Calibration ID: RC1400098
Analysis Lot: 427219
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	50.2	0.3183	0.3196	0.4	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	43.6	0.7789	0.6789	-12.8	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	45.6	0.5200	0.4740	-8.9	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	48.2	0.2327	0.2245	-3.5	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	44.9	0.8626	0.7740	-10.3	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.1	0.4319	0.3896	-9.8	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	46.2	0.4368	0.4037	-7.6	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	51.0	0.6298	0.6428	2.1	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	43.3	0.1577	0.1364	-13.5	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	53.4	0.7405	0.7913	6.9	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	49.2	2.270	2.231	-1.7	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	46.7	0.08752	0.08178	-6.6	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	49.0	0.2348	0.2301	-2.0	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	49.8	1.265	1.261	-0.3	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	45.3	0.4315	0.3911	-9.4	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	45.6	0.3355	0.3063	-8.7	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	49.0	2.314	2.270	-1.9	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	48.8	1.344	1.312	-2.4	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	48.6	0.4486	0.4364	-2.7	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	48.1	1.406	1.353	-3.8	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	41.8	0.7655	0.6400	-16.4	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	48.8	0.1508	0.1471	-2.5	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	47.9	1.874	1.794	-4.3	NA	± 20 %	Average RF
2-Hexanone	50.0	42.8	0.1683	0.1440	-14.5	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	713	0.03476	0.02478	-28.7 *	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	47.4	2.350	2.226	-5.3	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	51.8	2.283	2.367	3.7	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	43.4	0.2284	0.1982	-13.2	NA	± 20 %	Average RF
Acetone	50.0	53.2	0.1059	0.1126	6.3	NA	± 20 %	Average RF
Benzene	50.0	47.0	1.281	1.203	-6.1	NA	± 20 %	Average RF
Bromobenzene	50.0	47.4	0.7038	0.6668	-5.3	NA	± 20 %	Average RF
Bromochloromethane	50.0	46.3	0.2863	0.2653	-7.3	NA	± 20 %	Average RF
Bromodichloromethane	50.0	46.7	0.3975	0.3710	-6.7	NA	± 20 %	Average RF
Bromoform	50.0	51.5	0.2484	0.2561	3.1	NA	± 20 %	Average RF
Bromomethane	50.0	42.7	0.3313	0.2832	-14.5	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	46.4	0.1306	0.1211	-7.2	NA	± 20 %	Average RF
Chlorobenzene	50.0	48.8	0.9683	0.9453	-2.4	NA	± 20 %	Average RF
Chloroethane	50.0	53.7	0.4268	0.4581	7.3	NA	± 20 %	Average RF
Chloroform	50.0	45.0	0.8684	0.7822	-9.9	NA	± 20 %	Average RF
Chloromethane	50.0	54.1	0.6451	0.6976	8.1	NA	± 20 %	Average RF
Dibromochloromethane	50.0	51.5	0.2690	0.2769	3.0	NA	± 20 %	Average RF

Client: Parsons Engineering Science
Project: FTMM 1Q 2015 GW/748810-03000

Service Request: R1410310
Date Analyzed: 12/29/14

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D\

Calibration Date: 10/27/14
Calibration ID: RC1400098
Analysis Lot: 427219
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	49.9	0.4730	0.4719	-0.2	NA	± 20 %	Average RF
Methylene Chloride	50.0	45.6	0.4706	0.4292	-8.8	NA	± 20 %	Average RF
Ethylbenzene	50.0	49.3	0.5223	0.5151	-1.4	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	56.7	0.2928	0.3317	13.3	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	48.3	2.668	2.576	-3.4	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	44.3	1.211	1.073	-11.4	NA	± 20 %	Average RF
Naphthalene	50.0	51.9	1.407	1.461	3.8	NA	± 20 %	Average RF
Styrene	50.0	49.8	1.051	1.046	-0.5	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	49.7	0.2877	0.2862	-0.5	NA	± 20 %	Average RF
Toluene	50.0	48.0	1.381	1.325	-4.0	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	47.9	0.3348	0.3209	-4.2	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	45.7	0.8147	0.7446	-8.6	NA	± 20 %	Average RF
Vinyl Chloride	50.0	59.2	0.6851	0.8111	18.4	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	48.1	0.5060	0.4869	-3.8	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	46.8	0.4952	0.4637	-6.4	NA	± 20 %	Average RF
m,p-Xylenes	100	101	0.6320	0.6392	1.1	NA	± 20 %	Average RF
n-Butylbenzene	50.0	52.6	2.020	2.127	5.3	NA	± 20 %	Average RF
n-Propylbenzene	50.0	49.6	3.094	3.070	-0.8	NA	± 20 %	Average RF
o-Xylene	50.0	48.8	0.6354	0.6203	-2.4	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	50.0	2.628	2.630	0.1	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	49.4	1.869	1.846	-1.3	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	47.4	0.4668	0.4424	-5.2	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	45.1	0.4221	0.3804	-9.9	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	49.1	0.4756	0.4671	-1.8	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	51.0	0.2912	0.2968	1.9	NA	± 20 %	Average RF
Toluene-d8	50.0	51.0	1.226	1.249	1.9	NA	± 20 %	Average RF

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:12:37 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

KR 12/29/14

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	101	0.00
2	P	Dichlorodifluoromethane	0.4730	0.4719	0.2	96	0.00
3	P	Chloromethane	0.6451	0.6976	-8.1	110	0.00
4	P	Vinyl Chloride	0.6851	0.8111	-18.4	118	0.00
5	P	Bromomethane	0.3313	0.2832	14.5	88	0.00
6	P	Chloroethane	0.4268	0.4581	-7.3	109	0.00
7		Freon 21	1.0658	1.1383	-6.8	107	0.00
8	P	Trichlorofluoromethane	0.8147	0.7446	8.6	93	0.00
9		Diethyl Ether	0.3709	0.3370	9.1	93	0.00
10		Freon 123a	0.5897	0.5480	7.1	96	0.00
11		Freon 123	0.6221	0.6004	3.5	95	0.00
12		Acrolein	0.0209	0.0484	MT -131.6#	303#	0.00
13	P	1,1-Diclethene	0.4319	0.3896	9.8	94	0.00
14	P	Freon 113	0.4424	0.4268	3.5	98	0.00
15	P	Acetone	0.1059	0.1126	-6.3	111	0.00
16		2-Propanol	0.0210	0.0163	22.4#	74	0.00
17		Iodomethane	0.6235	0.3629	MT 41.8#	57	0.00
18	P	Carbon Disulfide	1.4520	1.3701	5.6	98	0.00
19		Acetonitrile	0.0168	0.0157	6.5	99	0.00
20		Allyl Chloride	0.2447	0.2452	-0.2	95	0.00
21	P	Methyl Acetate	0.2444	0.2212	9.5	87	0.00
22	P	Methylene Chloride	0.4706	0.4292	8.8	96	0.00
23		TBA	0.0348	0.0248	28.7#	73	0.00
24		Acrylonitrile	0.1138	0.1053	7.5	92	0.00
25	P	Methyl-t-Butyl Ether	1.2109	1.0731	11.4	89	0.00
26	P	trans-1,2-Dichloroethene	0.4668	0.4424	5.2	94	0.00
27		Halothane	0.0000	0.0000	0.0	0#	0.00
28	P	1,1-Diclethane	0.8626	0.7740	10.3	91	0.00
29		Vinyl Acetate	0.0782	0.0719	8.1	89	0.00
30		DIPE	1.7339	1.5413	11.1	90	0.00
31		2-Chloro-1,3-Butadiene	0.7976	0.8554	-7.2	111	0.00
32		ETBE	1.5055	1.2770	15.2	86	0.00
33		2,2-Dichloropropane	0.7655	0.6400	16.4	82	0.00
34	P	cis-1,2-Dichloroethene	0.5060	0.4869	3.8	96	0.00
35	P	2-Butanone	0.1508	0.1471	2.5	102	0.00
36		Propionitrile	0.0444	0.0373	16.0	86	0.00
37		Bromochloromethane	0.2863	0.2653	7.3	96	0.00
38		Methacrylonitrile	0.1320	0.1173	11.1	89	0.00
39		Tetrahydrofuran	0.1015	0.0838	17.4	84	0.00
40	P	Chloroform	0.8684	0.7822	9.9	95	0.00
41	P	1,1,1-Trichloroethane	0.7789	0.6789	12.8	90	0.00
42		TAME	1.2597	1.0408	17.4	84	0.00
43	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	99	0.00
44	P	Cyclohexane	0.3702	0.3214	13.2	86	0.00
45	s	surr4,Dibrflmethane	0.2912	0.2968	-1.9	99	0.00
46	P	Carbontetrachloride	0.1306	0.1211	7.3	93	0.00
47		1,1-Dichloropropene	0.4368	0.4037	7.6	92	0.00

W102714.M Mon Dec 29 11:13:40 2014 Page: 1

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:12:37 2014
QLast Update : Tue Oct 28 10:54:16 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	0.3545	0.3322	6.3	91	0.00
49	P	Benzene	1.2807	1.2029	6.1	93	0.00
50	P	1,2-Dichloroethane	0.4315	0.3911	9.4	91	0.00
51		Iso-Butyl Alcohol	0.0101	0.0076	24.8#	73	0.00
52		n-Heptane	0.4142	0.3675	11.3	90	0.00
53		1-Butanol	0.0063	0.0046	M 27.0#	75	0.00
54	P	Trichloroethene	0.3348	0.3209	4.2	95	0.00
55	P	Methylcyclohexane	0.4296	0.3923	8.7	91	0.00
56	P	1,2-Diclpropane	0.3355	0.3063	8.7	92	0.00
57		Dibromomethane	0.1587	0.1497	5.7	94	0.00
58		1,4-Dioxane	0.0025	0.0020	20.0	86	0.00
59		Methyl Methacrylate	0.1548	0.1379	10.9	85	0.00
60	P	Bromodichloromethane	0.3975	0.3710	6.7	92	0.00
61		2-Nitropropane	0.0529	0.0378	M 28.5#	74	0.00
62		2-Chloroethylvinyl Ether	0.1564	0.1402	10.4	89	0.00
63	P	cis-1,3-Dichloropropene	0.4952	0.4637	6.4	89	0.00
64	P	4-Methyl-2-pentanone	0.2284	0.1982	13.2	86	0.00
65	s	SURR3,Toluene-d8	1.2258	1.2494	-1.9	97	0.00
66	P	Toluene	1.3809	1.3253	4.0	93	0.00
67	P	trans-1,3-Dichloropropene	0.4221	0.3804	9.9	84	0.00
68		Ethyl Methacrylate	0.3285	0.2909	11.4	84	0.00
69	P	1,1,2-Trichloroethane	0.2327	0.2245	3.5	95	0.00
70	s	SURR2,BFB	0.4756	0.4671	1.8	94	0.00
71	I	d5-Chlorobenzene	1.0000	1.0000	0.0	98	0.00
72	P	Tetrachloroethene	0.2877	0.2862	0.5	96	0.00
73	P	2-Hexanone	0.1683	0.1440	14.4	85	0.00
74		1,3-Dichloropropane	0.4486	0.4364	2.7	95	0.00
75	P	Dibromochloromethane	0.2690	0.2769	-2.9	98	0.00
76		N-Butyl Acetate	0.4346	0.3688	15.1	80	0.00
77	P	1,2-Dibromoethane	0.2348	0.2301	2.0	93	0.00
78	P	Chlorobenzene	0.9683	0.9453	2.4	96	0.00
79		3-CBTF	0.5304	0.5484	-3.4	100	0.00
80		4-CBTF	0.4746	0.4902	-3.3	100	0.00
81		1,1,1,2-Tetrachloroethane	0.3183	0.3196	-0.4	94	0.00
82	P	Ethylbenzene	0.5223	0.5151	1.4	95	0.00
83	P	(m+p)Xylene	0.6320	0.6392	-1.1	95	0.00
84	P	o-Xylene	0.6354	0.6203	2.4	94	0.00
85	P	Styrene	1.0510	1.0462	0.5	91	0.00
86	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	101	0.00
87	P	Bromoform	0.2484	0.2561	-3.1	96	0.00
88		2-CBTF	0.8807	0.8535	3.1	98	0.00
89	P	Isopropylbenzene	2.6682	2.5763	3.4	95	0.00
90		Cyclohexanone	0.0293	0.0421	M -43.7#	183	0.00
91		trans-1,4-Dichloro-2-Butene	0.1604	0.1239	22.8#	81	0.00
92	P	1,1,2,2-Tetrachloroethane	0.5200	0.4740	8.8	92	0.00
93		Bromobenzene	0.7038	0.6668	5.3	96	0.00

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:12:37 2014
QLast Update : Tue Oct 28 10:54:16 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	0.1577	0.1364	13.5	95	0.00
95		n-Propylbenzene	3.0936	3.0695	0.8	97	0.00
96		2-Chlorotoluene	1.8742	1.7936	4.3	94	0.00
97		3-Chlorotoluene	1.9940	1.9066	4.4	95	0.00
98		4-Chlorotoluene	2.3499	2.2265	5.3	93	0.00
99		1,3,5-Trimethylbenzene	2.3144	2.2701	1.9	95	0.00
100		tert-Butylbenzene	1.8691	1.8457	1.3	97	0.00
101		1,2,4-Trimethylbenzene	2.2696	2.2312	1.7	94	0.00
102		3,4-DCBTF	0.6633	0.6756	-1.9	100	0.00
103		sec-Butylbenzene	2.6283	2.6305	-0.1	97	0.00
104		p-Isopropyltoluene	2.2834	2.3674	-3.7	100	0.00
105	P	1,3-Dclbenz	1.3443	1.3123	2.4	98	0.00
106	P	1,4-Dclbenz	1.4056	1.3528	3.8	97	0.00
107		2,4-DCBTF	0.5688	0.6107	-7.4	105	0.00
108		2,5-DCBTF	0.6438	0.6723	-4.4	103	0.00
109		n-Butylbenzene	2.0204	2.1271	-5.3	101	0.00
110	P	1,2-Dclbenz	1.2649	1.2606	0.3	100	0.00
111	P	1,2-Dibromo-3-chloropropane	0.0875	0.0818	6.5	90	0.00
112		Trielution Dichlorotoluene	1.0371	1.1043	-6.5	102	0.00
113		1,3,5 Trichlorobenzene	0.8672	0.9300	-7.2	106	0.00
114		Coelution Dichlorotoluene	1.0860	1.1783	-8.5	103	0.00
115	P	1,2,4-Tcbenzene	0.7405	0.7913	-6.9	103	0.00
116		Hexachlorobt	0.2928	0.3317	-13.3	111	0.00
117		Naphthalen	1.4071	1.4613	-3.9	98	0.00
118		1,2,3-Tclbenzene	0.6298	0.6428	-2.1	101	0.00
119		2,4,5-Trichlorotolene	0.4265	0.4772	-11.9	110	0.00
120		2,3,6-Trichlorotoluene	0.3936	0.4958	-26.0#	121	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W102714.M Mon Dec 29 11:13:40 2014 Page: 3

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12 RQ1415949-02

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:12:37 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.249	168	902925	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1341979	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1248765	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	751808	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	398313	50.97	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.94%				
48) surr1,1,2-dichloroetha...	4.658	65	445861	46.85	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 93.70%				
65) SURR3,Toluene-d8	7.322	98	1676710	50.96	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.92%				
70) SURR2,BFB	9.785	95	626778	49.10	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.165	85	426093	49.88	ppb		98
3) Chloromethane	1.268	50	629906	54.07	ppb		99
4) Vinyl Chloride	1.329	62	732344	59.19	ppb		100
5) Bromomethane	1.512	94	255664	42.73	ppb		100
6) Chloroethane	1.567	64	413610	53.66	ppb		98
7) Freon 21	1.671	67	1027781	53.40	ppb		96
8) Trichlorofluoromethane	1.719	101	672311	45.70	ppb		98
9) Diethyl Ether	1.884	59	304288	45.43	ppb		95
10) Freon 123a	1.872	67	494793	46.46	ppb		90
11) Freon 123	1.902	83	542126	48.26	ppb		97
12) Acrolein	1.957	56	218355	578.57	ppb		93
13) 1,1-Diclethene	2.042	96	351813	45.10	ppb	#	89
14) Freon 113	2.036	101	385408	48.25	ppb		97
15) Acetone	2.049	43	101642	53.16	ppb		95
16) 2-Propanol	2.122	45	293699	774.35	ppb		98
17) Iodomethane	2.146	142	327640	29.10	ppb		99
18) Carbon Disulfide	2.207	76	1237078	47.18	ppb		99
19) Acetonitrile	2.225	40	70837	233.00	ppb		97
20) Allyl Chloride	2.274	76	221425	50.11	ppb	#	93
21) Methyl Acetate	2.274	43	199696	45.24	ppb		99
22) Methylene Chloride	2.359	84	387504	45.59	ppb		97
23) TBA	2.414	59	447499	712.83	ppb		96
24) Acrylonitrile	2.524	53	475220	231.32	ppb		100
25) Methyl-t-Butyl Ether	2.579	73	968929	44.31	ppb		99
26) trans-1,2-Dichloroethene	2.585	96	399485	47.39	ppb		95
28) 1,1-Diclethane	2.939	63	698838	44.86	ppb		99
29) Vinyl Acetate	2.981	86	64951	46.01	ppb	#	78
30) DIPE	3.012	45	1391665	44.44	ppb		98
31) 2-Chloro-1,3-Butadiene	3.042	53	772349	53.63	ppb		98
32) ETBE	3.396	59	1153054	42.41	ppb		96
33) 2,2-Dichloropropane	3.554	77	577895	41.81	ppb		97
34) cis-1,2-Dichloroethene	3.542	96	439628	48.11	ppb		93
35) 2-Butanone	3.548	43	132816	48.77	ppb		91
36) Propionitrile	3.591	54	168351	210.09	ppb		94
37) Bromochloromethane	3.829	130	239586	46.34	ppb		94

KR 12/29/14

W102714.M Mon Dec 29 11:13:24 2014 Page: 1

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:12:37 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Methacrylonitrile	3.798	67	105869	44.40	ppb	94
39) Tetrahydrofuran	3.908	42	75667	41.27	ppb	91
40) Chloroform	3.938	83	706292	45.04	ppb	94
41) 1,1,1-Trichloroethane	4.213	97	612955	43.58	ppb	98
42) TAME	5.024	73	939752	41.31	ppb	98
44) Cyclohexane	4.310	41	431260	43.40	ppb	98
46) Carbontetrachloride	4.469	121	162558	46.39	ppb	89
47) 1,1-Dichloropropene	4.457	75	541721	46.21	ppb	99
49) Benzene	4.780	78	1614237	46.96	ppb	98
50) 1,2-Dichloroethane	4.786	62	524807	45.31	ppb	96
51) Iso-Butyl Alcohol	4.646	43	205088	753.74	ppb	95
52) n-Heptane	5.328	43	493118	44.35	ppb	97
53) 1-Butanol	5.773	56	311029	1852.96	ppb	95
54) Trichloroethene	5.828	130	430574	47.92	ppb	98
55) Methylcyclohexane	6.103	55	526449	45.66	ppb	93
56) 1,2-Diclpropane	6.109	63	410999	45.64	ppb	97
57) Dibromomethane	6.249	93	200949	47.17	ppb	98
58) 1,4-Dioxane	6.316	88	54274m	800.66	ppb	
59) Methyl Methacrylate	6.328	69	185116	44.54	ppb	96
60) Bromodichloromethane	6.475	83	497842	46.67	ppb	98
61) 2-Nitropropane	6.743	41	101533	71.51	ppb	99
62) 2-Chloroethylvinyl Ether	6.877	63	188161	44.83	ppb	95
63) cis-1,3-Dichloropropene	7.017	75	622313	46.82	ppb	98
64) 4-Methyl-2-pentanone	7.212	43	265982	43.39	ppb	97
66) Toluene	7.389	91	1778571	47.99	ppb	99
67) trans-1,3-Dichloropropene	7.627	75	510470	45.05	ppb	98
68) Ethyl Methacrylate	7.767	69	390375	44.28	ppb	99
69) 1,1,2-Trichloroethane	7.804	97	301268	48.23	ppb	97
72) Tetrachloroethene	7.962	164	357381	49.73	ppb	99
73) 2-Hexanone	8.084	43	179788	42.76	ppb	96
74) 1,3-Dichloropropane	7.968	76	545005	48.64	ppb	93
75) Dibromochloromethane	8.188	129	345793	51.48	ppb	100
76) N-Butyl Acetate	8.236	43	460504	42.42	ppb	98
77) 1,2-Dibromoethane	8.285	107	287312	49.00	ppb	98
78) Chlorobenzene	8.767	112	1180408	48.81	ppb	96
79) 3-CBTF	8.785	180	684805	51.69	ppb	98
80) 4-CBTF	8.834	180	612114	51.64	ppb	99
81) 1,1,1,2-Tetrachloroethane	8.846	131	399079	50.20	ppb	96
82) Ethylbenzene	8.883	106	643230	49.31	ppb	100
83) (m+p)Xylene	8.992	106	1596455	101.14	ppb	99
84) o-Xylene	9.340	106	774621	48.81	ppb	98
85) Styrene	9.352	104	1306487	49.77	ppb	97
87) Bromoform	9.492	173	192507	51.54	ppb	97
88) 2-CBTF	9.578	180	641672	48.45	ppb	97
89) Isopropylbenzene	9.669	105	1936905	48.28	ppb	99
90) Cyclohexanone	9.718	55	633772	1437.66	ppb	97
91) trans-1,4-Dichloro-2-B...	9.956	53	93165	38.64	ppb	88
92) 1,1,2,2-Tetrachloroethane	9.907	83	356357	45.57	ppb	99
93) Bromobenzene	9.907	156	501276	47.37	ppb	93
94) 1,2,3-Trichloropropane	9.937	110	102562	43.25	ppb	92
95) n-Propylbenzene	10.017	91	2307691	49.61	ppb	97
96) 2-Chlorotoluene	10.077	91	1348430	47.85	ppb	99

W102714.M Mon Dec 29 11:13:24 2014 Page: 2

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

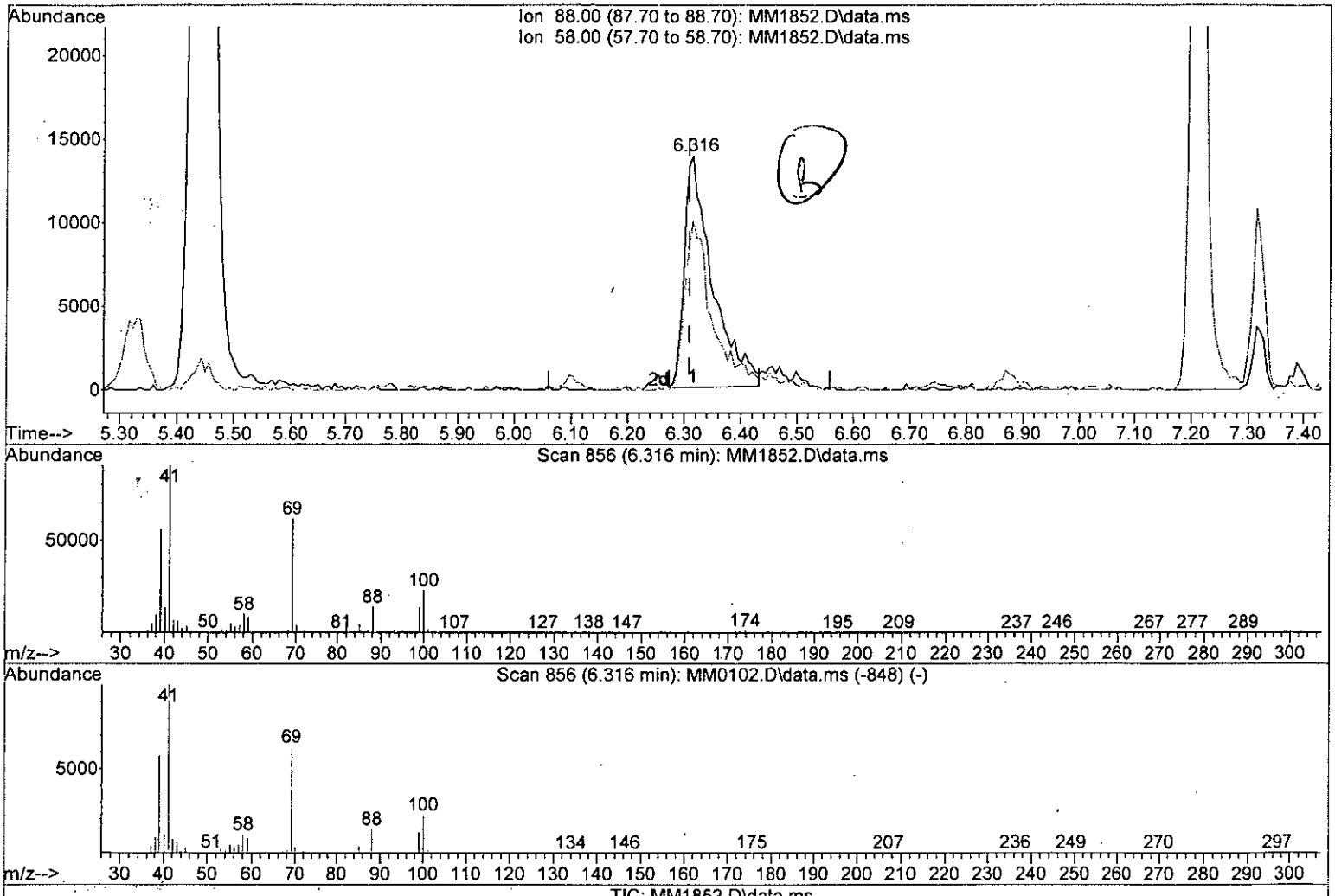
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:12:37 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.132	91	1433384	47.81	ppb	98
98)	4-Chlorotoluene	10.169	91	1673873	47.37	ppb	98
99)	1,3,5-Trimethylbenzene	10.169	105	1706691	49.04	ppb	99
100)	tert-Butylbenzene	10.437	119	1387633	49.37	ppb	99
101)	1,2,4-Trimethylbenzene	10.474	105	1677448	49.15	ppb	100
102)	3,4-DCBTF	10.535	214	507887	50.92	ppb	97
103)	sec-Butylbenzene	10.620	105	1977629	50.04	ppb	99
104)	p-Isopropyltoluene	10.736	119	1779795	51.84	ppb	99
105)	1,3-Dclbenz	10.693	146	986621	48.81	ppb	99
106)	1,4-Dclbenz	10.766	146	1017060	48.12	ppb	100
107)	2,4-DCBTF	10.821	214	459155	53.68	ppb	98
108)	2,5-DCBTF	10.858	214	505444	52.21	ppb	98
109)	n-Butylbenzene	11.065	91	1599203	52.64	ppb	99
110)	1,2-Dclbenz	11.065	146	947711	49.83	ppb	98
111)	1,2-Dibromo-3-chloropr...	11.620	157	61480	46.72	ppb	94
112)	Trielution Dichlorotol...	11.730	125	2490589	159.72	ppb	97
113)	1,3,5 Trichlorobenzene	11.778	180	699166	53.62	ppb	98
114)	Coelution Dichlorotoluene	11.992	125	1771690	108.49	ppb	96
115)	1,2,4-Tcbenzene	12.156	180	594926	53.43	ppb	98
116)	Hexachlorobt	12.266	225	249402	56.65	ppb	98
117)	Naphthalen	12.297	128	1098606	51.92	ppb	99
118)	1,2,3-Tclbenzene	12.437	180	483279	51.03	ppb	97
119)	2,4,5-Trichlorotolene	12.845	159	358795	55.94	ppb	99
120)	2,3,6-Trichlorotoluene	12.906	159	372776	62.99	ppb	97

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

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 10:59:47 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



TIC: MM1852.D\data.ms

(58) 1,4-Dioxane

6.316min (+0.006) 703.29 ppb

response 47674

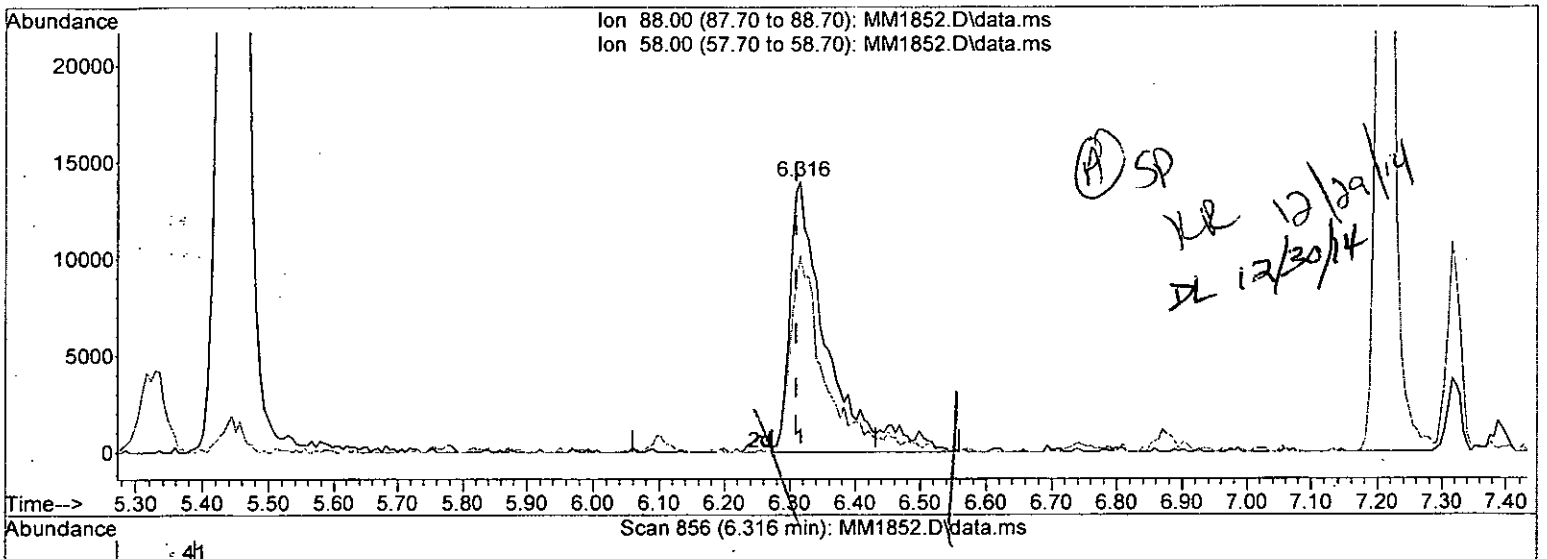
Ion	Exp%	Act%
88.00	100	100
58.00	77.40	72.22
0.00	0.00	0.00
0.00	0.00	0.00

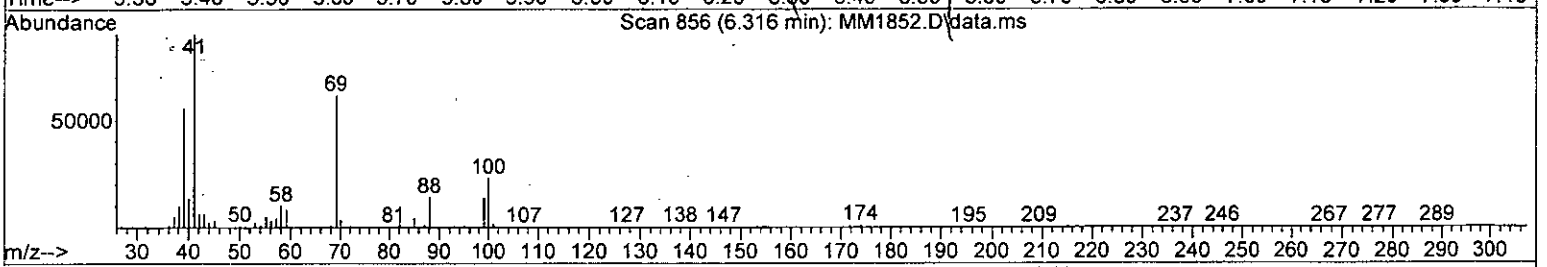
W102714.M Mon Dec 29 11:12:31 2014 Page: 1

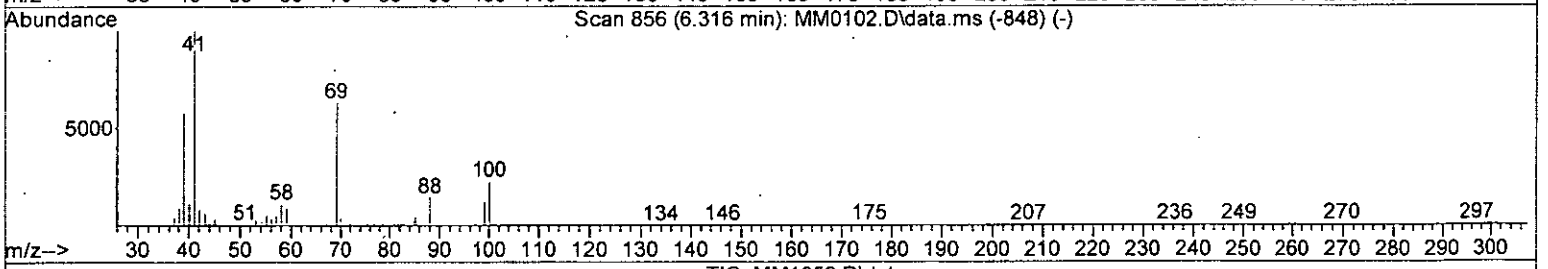
Quantitation Report (Quan)

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 10:59:47 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration







TIC: MM1852.D\data.ms

(58) 1,4-Dioxane

6.316min (+0.006) 800.66 ppb m

response 54274

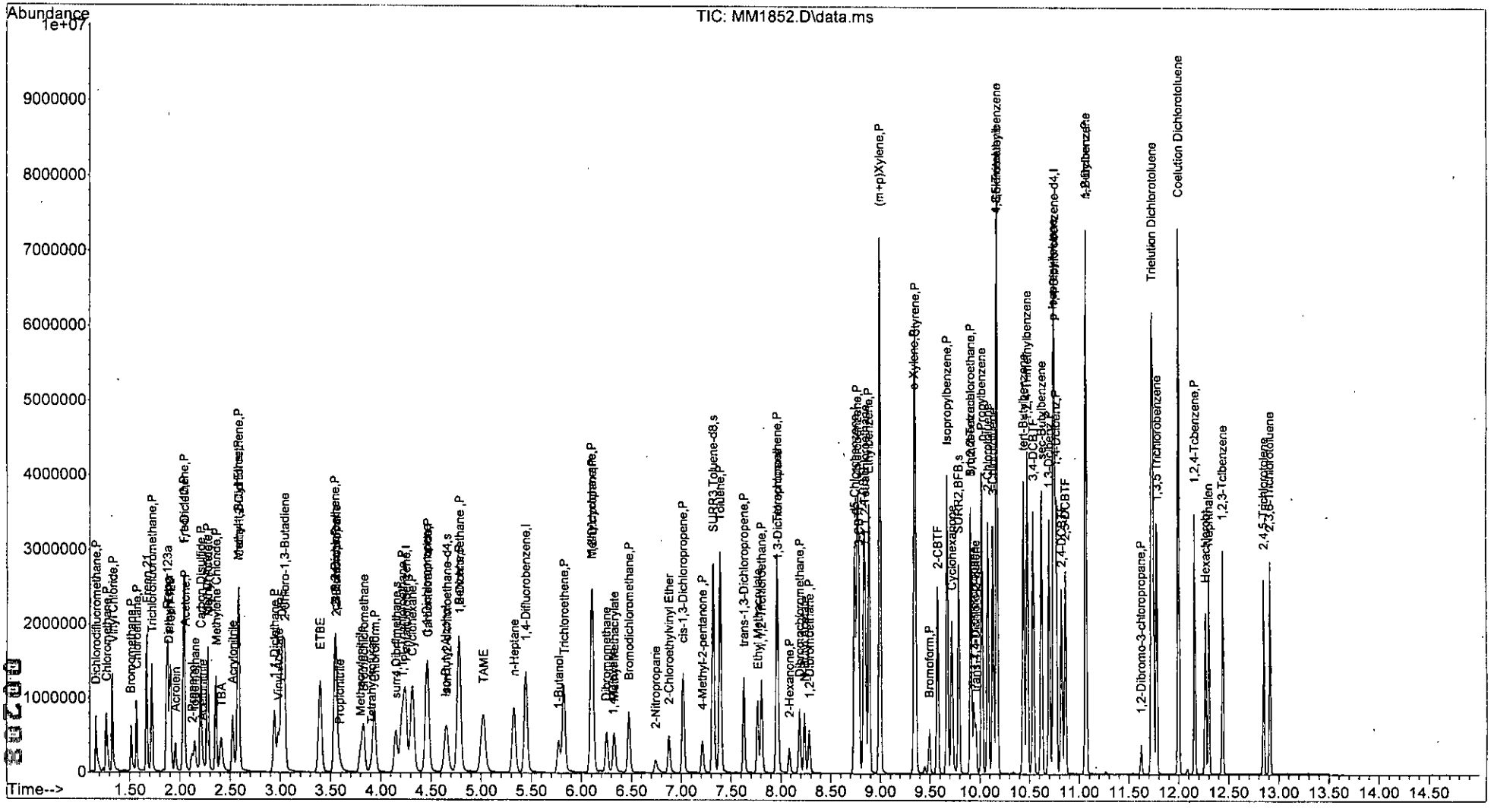
Ion	Exp%	Act%
88.00	100	100
58.00	77.40	72.22
0.00	0.00	0.00
0.00	0.00	0.00

W102714.M Mon Dec 29 11:12:37 2014 Page: 1

Quantitation Report (QT Reviewed)

Sample : CCV
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1852.D
Misc :
Acq On : 29 Dec 2014 10:45 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:12:37 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



W102714.M Mon Dec 29 11:13:27 2014 Page: 4

ALS Environmental

VOLATILE ORGANICS
RAW QC DATA

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

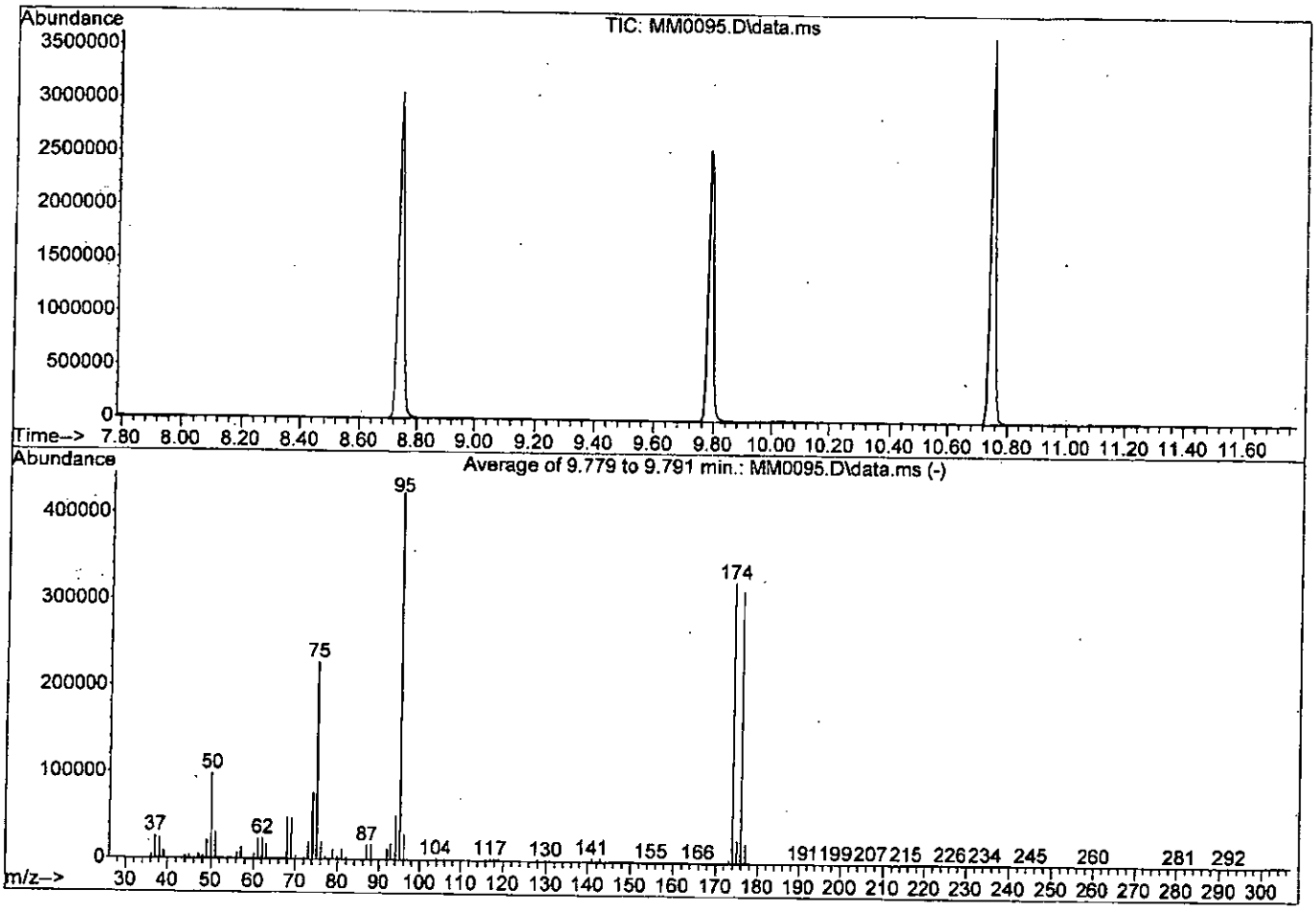
RIGHT SOLUTIONS | RIGHT PARTNER

Data Path : I:\ACQUDATA\msvoa12\data\102714\
Data File : MM0095.D
Acq On : 27 Oct 2014 3:08 pm
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Mon Oct 27 15:07:21 2014

KR 10/27/14



AutoFind: Scans 1424, 1425, 1426; Background Corrected with Scan 1419

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	98133	PASS
75	95	30	60	53.6	227669	PASS
95	95	100	100	100.0	424533	PASS
96	95	5	9	6.7	28573	PASS
173	174	0.00	2	1.1	3648	PASS
174	95	50	120	76.3	324011	PASS
175	174	5	9	7.7	25107	PASS
176	174	95	101	96.8	313536	PASS
177	176	5	9	6.8	21386	PASS

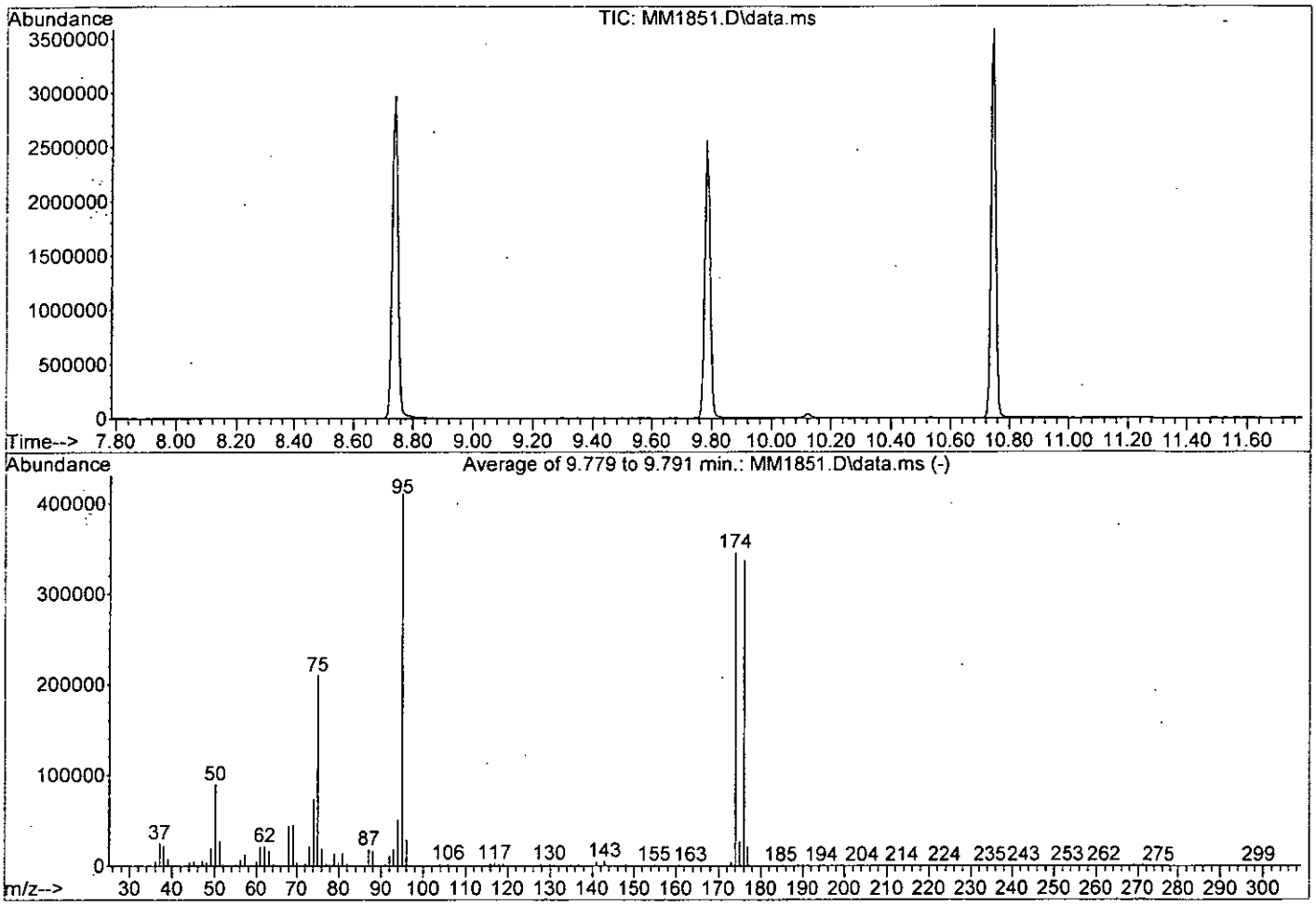
W102714.M Mon Oct 27 16:29:58 2014

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1851.D
Acq On : 29 Dec 2014 10:14 am
Operator : K.Ruest
Sample : TUNE RQ1415949-01
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Tue Oct 28 10:54:16 2014

KR 12/29/14



AutoFind: Scans 1424, 1425, 1426; Background Corrected with Scan 1419

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	89317	PASS
75	95	30	60	51.0	209451	PASS
95	95	100	100	100.0	410389	PASS
96	95	5	9	6.9	28301	PASS
173	174	0.00	.2	1.0	3604	PASS
174	95	50	120	84.1	345195	PASS
175	174	5	9	7.7	26428	PASS
176	174	95	101	97.5	336640	PASS
177	176	5	9	6.3	21047	PASS

W102714.M Mon Dec 29 10:29:44 2014 Page: 1

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 12:52
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 12:52
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

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

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 12:52
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1856.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	75-120	12/29/14 12:52	
Dibromofluoromethane	98	85-115	12/29/14 12:52	
Toluene-d8	99	85-120	12/29/14 12:52	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 1252

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1415949-04	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Sample : VBLK
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1856.D
Misc :
Acq On : 29 Dec 2014 12:52 pm
Operator : K.Ruest
InstName : MSVOA-12 RQ1415949-04

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 14:25:04 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

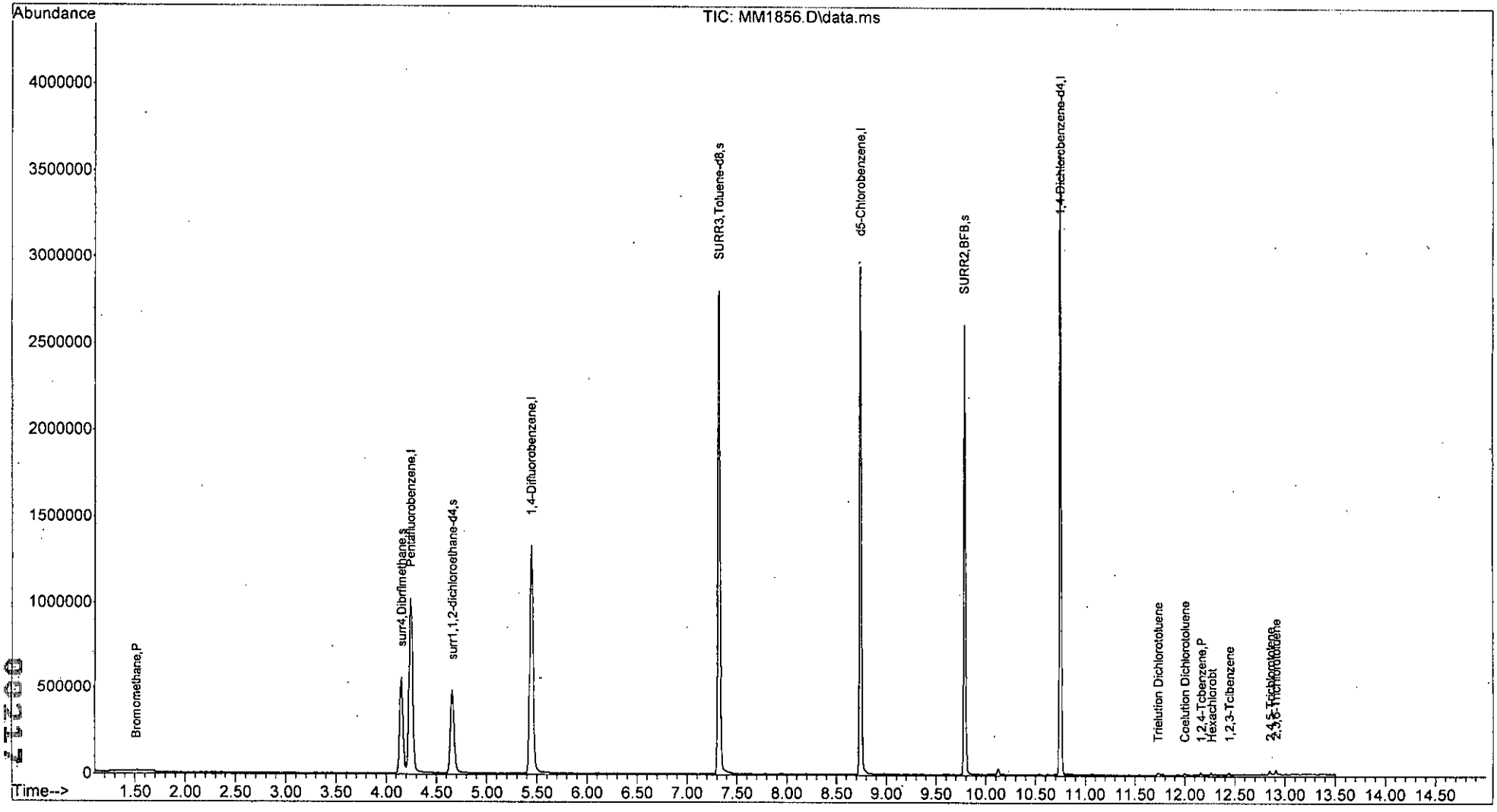
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.243	168	892318	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1341246	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1213860	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	653611	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	384719	49.25	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.50%				
48) surr1,1,2-dichloroetha...	4.658	65	448798	47.19	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 94.38%				
65) SURR3,Toluene-d8	7.322	98	1634071	49.70	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.40%				
70) SURR2,BFB	9.785	95	592938	46.47	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 92.94%				
Target Compounds							Qvalue
5) Bromomethane	1.512	94	1781	0.30	ppb		88
112) Trielution Dichlorotol...	11.729	125	4532	0.33	ppb	#	79
114) Coelution Dichlorotoluene	11.998	125	3046	0.21	ppb	#	58
115) 1,2,4-Tcbenzene	12.162	180	2019	0.21	ppb		97
116) Hexachlorobt	12.266	225	1425	0.37	ppb		97
118) 1,2,3-Tclbenzene	12.443	180	1897	0.23	ppb		92
119) 2,4,5-Trichlorotolene	12.851	159	3167	0.57	ppb	#	88 MTD
120) 2,3,6-Trichlorotoluene	12.906	159	3424	0.67	ppb	#	74 ↓

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

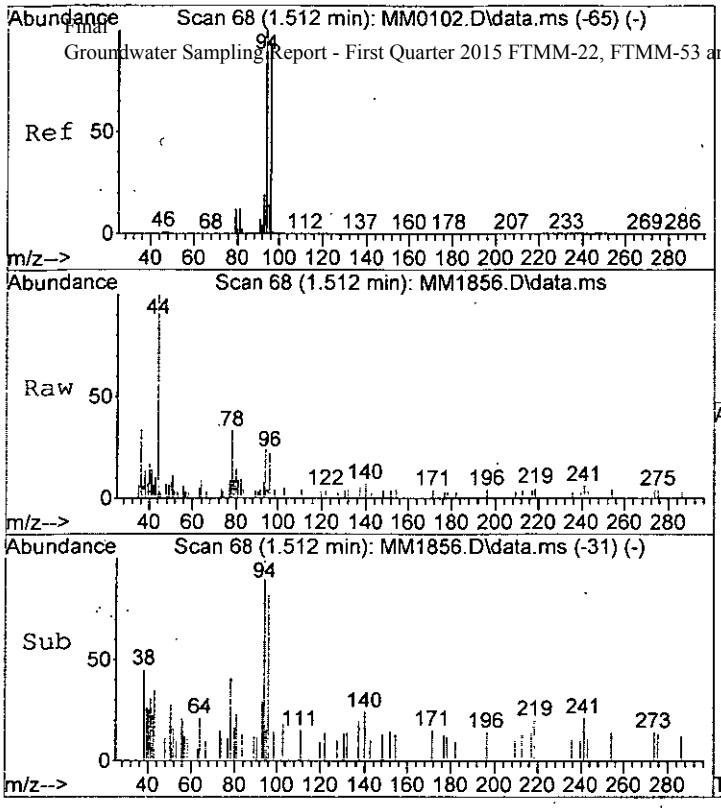
Quantitation Report (QT Reviewed)

Sample : VBLK
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1856.D
Misc :
Acq On : 29 Dec 2014 12:52 pm
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 14:25:04 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



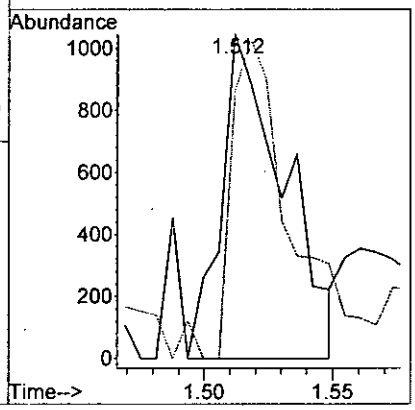
W102714.M Mon Dec 29 14:33:43 2014 Page: 2

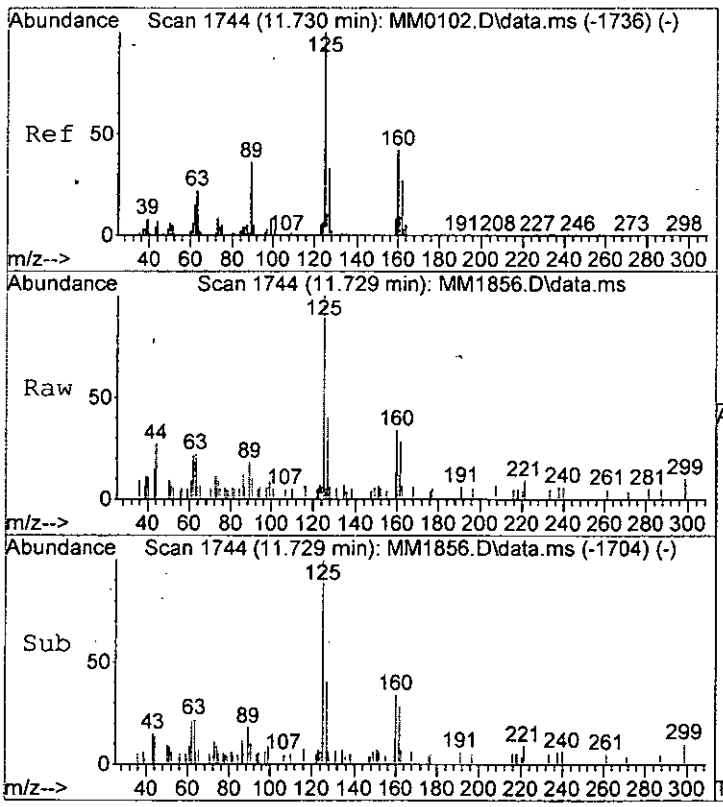


#5
Bromomethane
Concen: 0.30 ppb
RT: 1.512 min Scan# 68
Delta R.T. 0.000 min
Lab File: MM1856.D
Acq: 29 Dec 2014 12:52 pm

Tgt Ion: 94 Resp: 1781

Ion	Ratio	Lower	Upper
94	100		
96	82.4	74.3	114.3

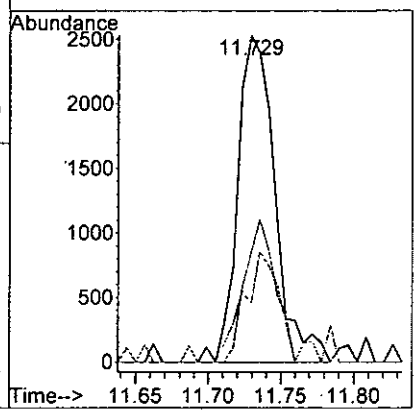




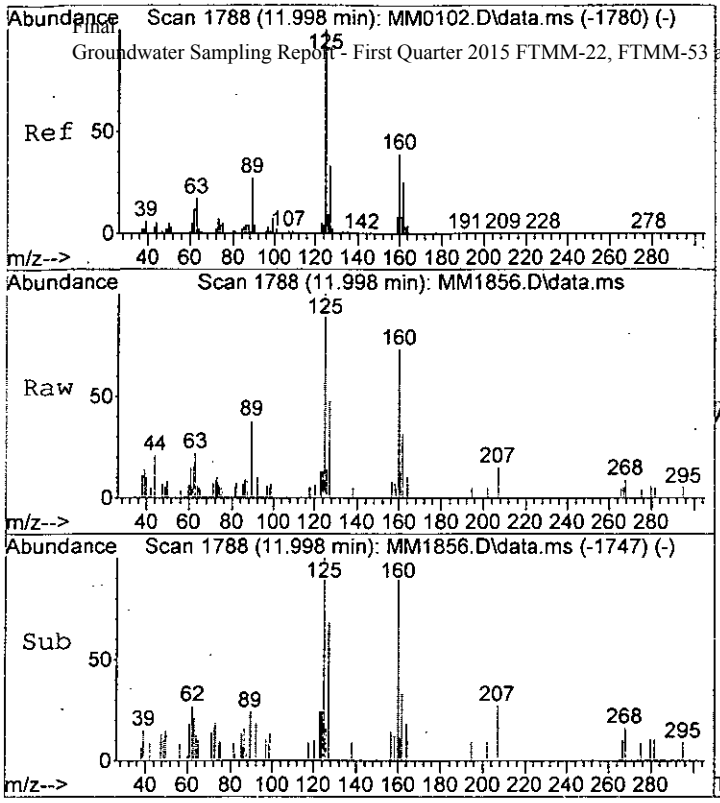
#112
Trielution Dichlorotoluene
Concen: 0.33 ppb
RT: 11.729 min Scan# 1744
Delta R.T. -0.006 min
Lab File: MM1856.D
Acq: 29 Dec 2014 12:52 pm

Tgt Ion:125 Resp: 4532

Ion	Ratio	Lower	Upper
125	100		
160	33.8	33.9	50.9#
89	17.9	28.4	42.6#



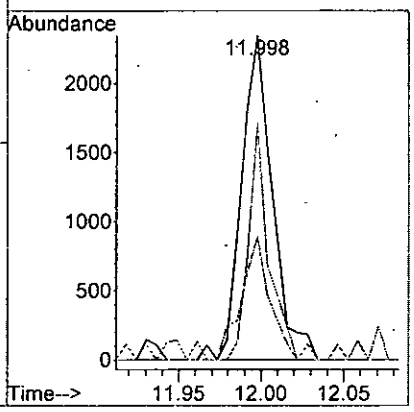
MM1856.D W102714.M Mon Dec 29 14:33:45 2014 Page 3

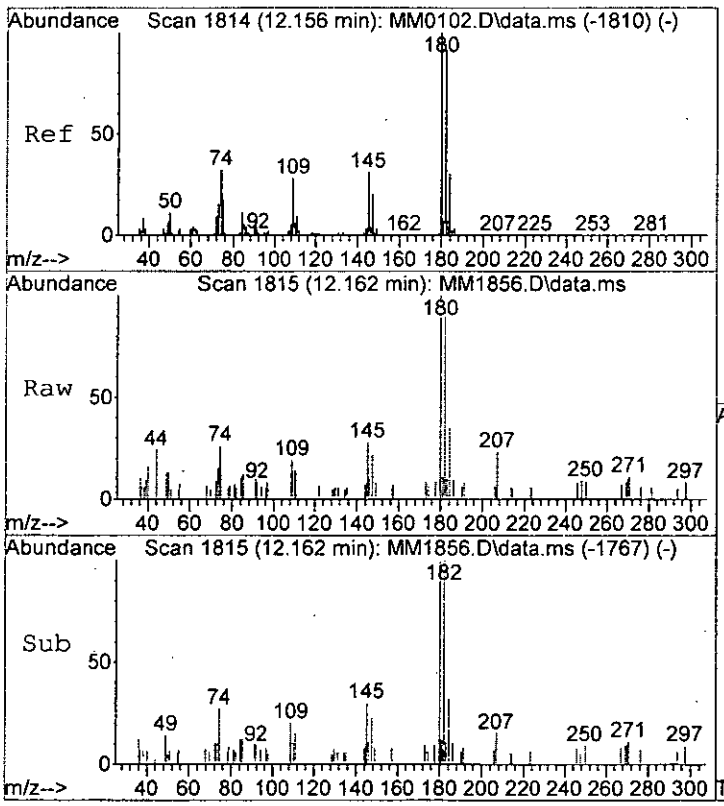


#114
Coelution Dichlorotoluene
Concen: 0.21 ppb
RT: 11.998 min Scan# 1788
Delta R.T. 0.000 min
Lab File: MM1856.D
Acq: 29 Dec 2014 12:52 pm

Tgt Ion:125 Resp: 3046

Ion	Ratio	Lower	Upper
125	100		
160	73.2	31.2	46.8#
89	37.9	21.2	31.8#

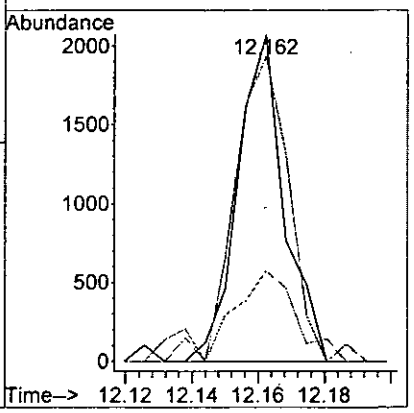


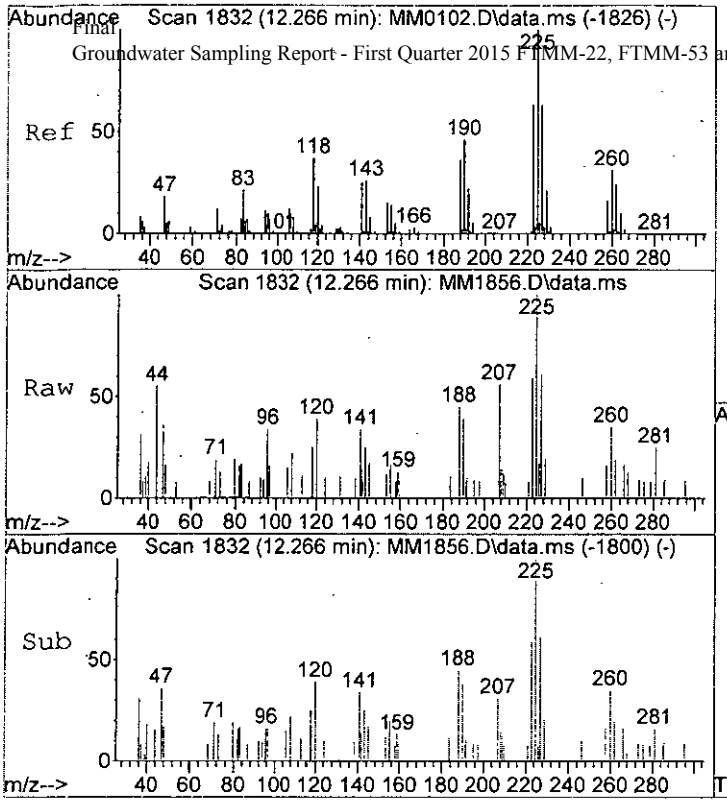


#115
1,2,4-Tcbenzene
Concen: 0.21 ppb
RT: 12.162 min Scan# 1815
Delta R.T. 0.000 min
Lab File: MM1856.D
Acq: 29 Dec 2014 12:52 pm

Tgt Ion:180 Resp: 2019

Ion	Ratio	Lower	Upper
180	100		
182	93.7	74.0	114.0
145	37.9	11.2	51.2

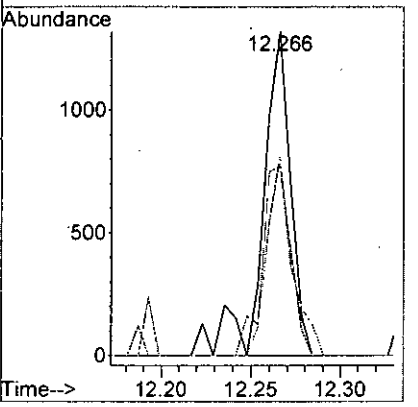


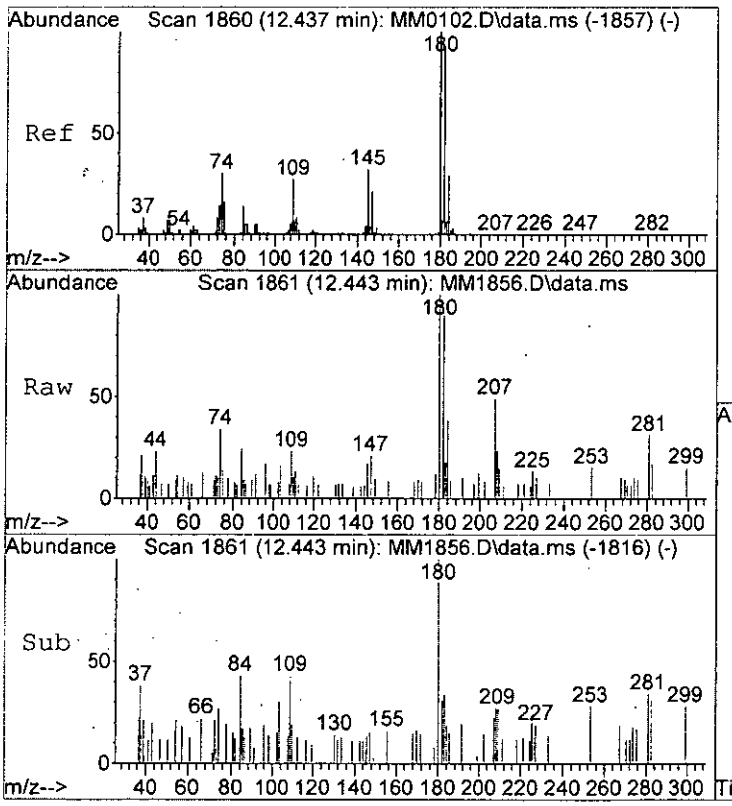


#116
Hexachlorobt
Concen: 0.37 ppb
RT: 12.266 min Scan# 1832
Delta R.T. 0.000 min
Lab File: MM1856.D
Acq: 29 Dec 2014 12:52 pm

Tgt Ion:225 Resp: 1425

Ion	Ratio	Lower	Upper
225	100		
223	58.6	42.5	82.5
227	61.3	42.6	82.6

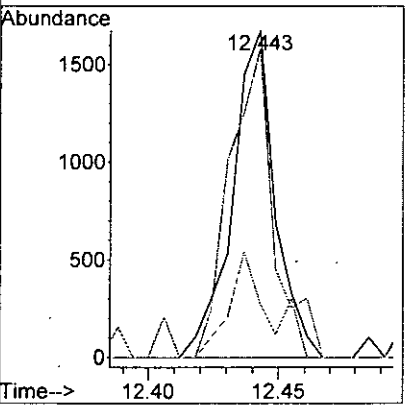




#118
1,2,3-Tclbenzene
Concen: 0.23 ppb
RT: 12.443 min Scan# 1861
Delta R.T. 0.006 min
Lab File: MM1856.D
Acq: 29 Dec 2014 12:52 pm

Tgt Ion:180 Resp: 1897

Ion	Ratio	Lower	Upper
180	100		
182	94.6	73.0	113.0
145	16.7	11.8	51.8



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1856.D
Acq On : 29 Dec 2014 12:52 pm
Operator : K.Ruest
Sample : VBLK
Misc :
ALS Vial : 8 Sample Multiplier: 1

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

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

Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: MM1856.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.152	489	501	508	rBV	555784	1288962	29.47%	5.493%
2	4.243	508	516	530	rVB	1011398	2492020	56.97%	10.619%
3	4.658	575	584	600	rBV	478706	1237866	28.30%	5.275%
4	5.444	703	713	729	rBV	1323791	3102997	70.94%	13.223%
5	7.322	1014	1021	1043	rBV	2801195	4374313	100.00%	18.641%
6	8.742	1248	1254	1267	rBV	2944550	3812085	87.15%	16.245%
7	9.785	1420	1425	1433	rBV	2609245	2999862	68.58%	12.783%
8	10.120	1475	1480	1487	rVB2	36371	49761	1.14%	0.212%
9	10.748	1578	1583	1592	rBV	3610646	4108834	93.93%	17.509%

Sum of corrected areas: 23466700

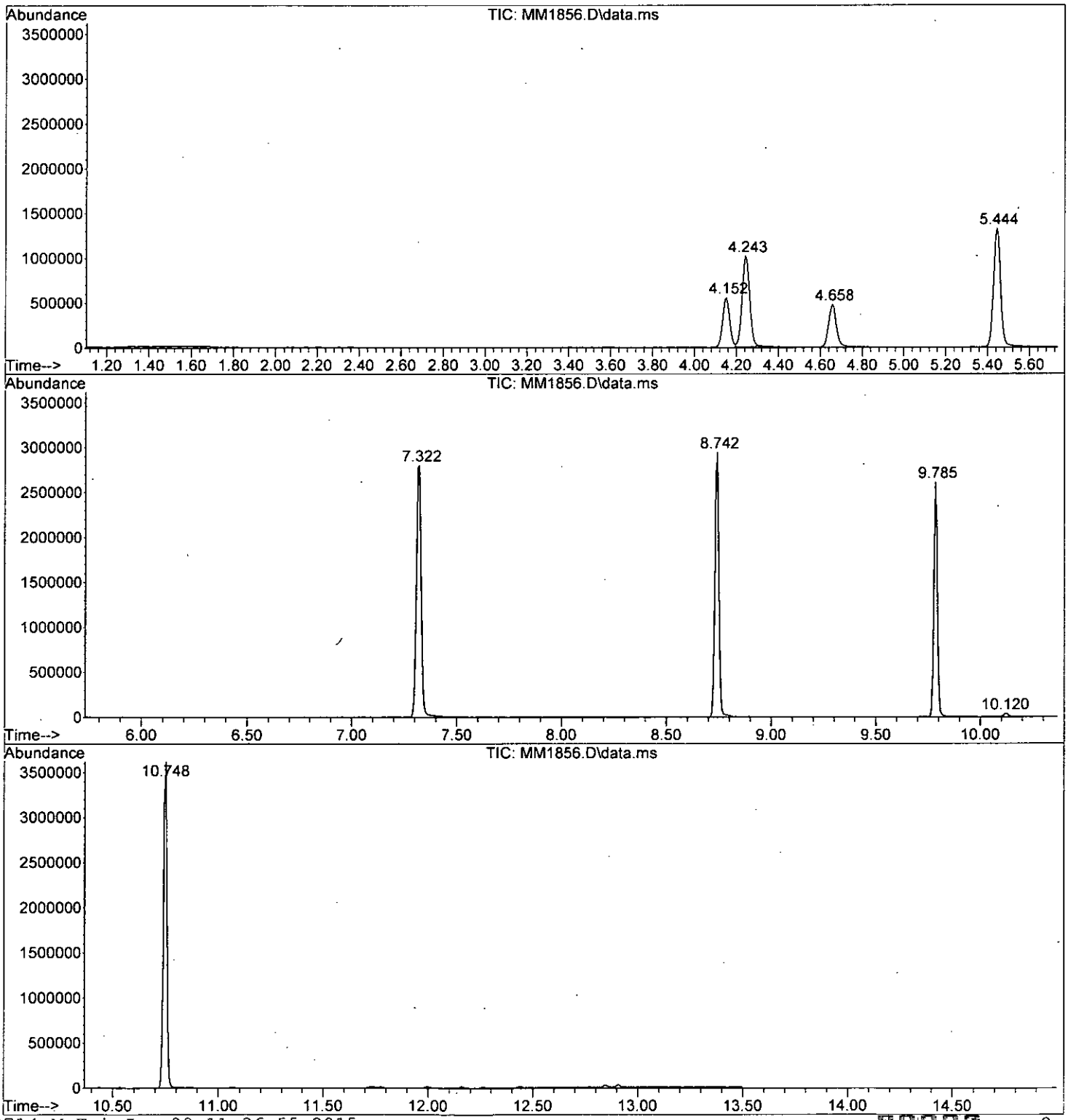
W102714.M Fri Jan 09 11:36:52 2015 Page: 1

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\122914\
Data File : MM1856.D
Acq On : 29 Dec 2014 12:52 pm
Operator : K.Ruest
Sample : VBLK
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

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



W102714.M Fri Jan 09 11:36:55 2015 Page: 2

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\122914\\
Data File : MM1856.D
Acq On : 29 Dec 2014 12:52 pmm
Operator : K.Ruestt
Sample : VBLKK
Misc :
ALS Vial : 8 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

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

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

No Library Search Compounds Detected
****

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 11:17
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1415949-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1853.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**19.1**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**17.1**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**18.9**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**18.2**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**17.7**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**17.8**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**17.2**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**22.1**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**18.1**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**22.8**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**19.6**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**18.8**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**19.1**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**19.4**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**17.7**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**17.7**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**19.1**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**19.1**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**18.9**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**19.1**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**16.5**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**19.5**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**19.2**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**16.3**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**300**		100	20	11	
106-43-4	4-Chlorotoluene	**18.5**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**20.6**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**15.8**		5.0	1.0	0.67	
67-64-1	Acetone	**21.4**		5.0	5.0	1.3	
71-43-2	Benzene	**18.3**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**19.1**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**19.1**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**18.4**		5.0	1.0	0.32	
75-25-2	Bromoform	**20.2**		5.0	1.0	0.42	
74-83-9	Bromomethane	**16.6**		5.0	1.0	0.29	

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 11:17
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1415949-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1853.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
56-23-5	Carbon Tetrachloride	**17.7**		5.0	1.0	0.45	
108-90-7	Chlorobenzene	**18.7**		5.0	1.0	0.29	
75-00-3	Chloroethane	**19.9**		5.0	1.0	0.24	
67-66-3	Chloroform	**18.1**		5.0	1.0	0.25	
74-87-3	Chloromethane	**22.8**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**19.8**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**24.2**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**17.9**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**16.9**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**24.1**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**19.6**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**17.6**		5.0	1.0	0.29	
91-20-3	Naphthalene	**22.8**		5.0	1.0	0.20	
100-42-5	Styrene	**18.4**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**19.0**		5.0	1.0	0.30	
108-88-3	Toluene	**18.5**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**18.9**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**17.9**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**22.8**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**18.3**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**17.3**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**38.4**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**20.7**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**19.8**		5.0	1.0	0.20	
95-47-6	o-Xylene	**18.4**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**20.0**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**19.8**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**18.8**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**17.3**		5.0	1.0	0.20	

Client:	Parsons Engineering Science	**Service Request:**	R1410310
Project:	FTMM 1Q 2015 GW/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	12/29/14 11:17
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1415949-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	427219
Data File Name:	I:\ACQUDATA\msvoa12\Data\122914\MM1853.D\	**Instrument Name:**	R-MS-12
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	75-120	12/29/14 11:17	
Dibromofluoromethane	102	85-115	12/29/14 11:17	
Toluene-d8	101	85-120	12/29/14 11:17	

Quantitation Report (QT Reviewed)

Sample : LCS
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1853.D
Misc :
Acq On : 29 Dec 2014 11:17 am
Operator : K.Ruest
InstName : MSVOA-12 RQ M15949-03

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:33:42 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	4.243	168	904307	50.00	ppb		0.00
43) 1,4-Difluorobenzene	5.444	114	1355907	50.00	ppb		0.00
71) d5-Chlorobenzene	8.742	117	1251162	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	10.748	152	720154	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	4.152	113	401237	50.81	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.62%				
48) surr1,1,2-dichloroetha...	4.658	65	450118	46.82	ppb		0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 93.64%				
65) SURR3,Toluene-d8	7.322	98	1673070	50.33	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.66%				
70) SURR2,BFB	9.785	95	622000	48.22	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.44%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.165	85	206612	24.15	ppb		98
3) Chloromethane	1.268	50	266300	22.82	ppb		99
4) Vinyl Chloride	1.329	62	282714	22.82	ppb		99
5) Bromomethane	1.512	94	99308	16.57	ppb		95
6) Chloroethane	1.567	64	153425	19.87	ppb		100
7) Freon 21	1.671	67	463911	24.07	ppb		96
8) Trichlorofluoromethane	1.719	101	263848	17.91	ppb		98
9) Diethyl Ether	1.884	59	126335	18.83	ppb		94
10) Freon 123a	1.872	67	220777	20.70	ppb		90
11) Freon 123	1.902	83	232829	20.69	ppb		100
12) Acrolein	1.957	56	23751	62.84	ppb		97
13) 1,1-Diclethene	2.042	96	139221	17.82	ppb		90
14) Freon 113	2.036	101	145772	18.22	ppb		98
15) Acetone	2.048	43	41039	21.43	ppb		95
16) 2-Propanol	2.116	45	118102	310.90	ppb		92
17) Iodomethane	2.146	142	109071	9.67	ppb		98
18) Carbon Disulfide	2.207	76	443837	16.90	ppb		100
19) Acetonitrile	2.225	40	26282	86.32	ppb		94
20) Allyl Chloride	2.274	76	81538	18.42	ppb	#	88
21) Methyl Acetate	2.274	43	78292	17.71	ppb		98
22) Methylene Chloride	2.359	84	152485	17.91	ppb		99
23) TBA	2.408	59	188929	300.49	ppb		87
24) Acrylonitrile	2.524	53	182658	88.77	ppb		97
25) Methyl-t-Butyl Ether	2.579	73	385853	17.62	ppb		97
26) trans-1,2-Dichloroethene	2.585	96	158680	18.79	ppb		95
28) 1,1-Diclethane	2.939	63	276005	17.69	ppb		97
29) Vinyl Acetate	2.975	86	23816	16.85	ppb	#	90
30) DIPE	3.012	45	536579	17.11	ppb		99
31) 2-Chloro-1,3-Butadiene	3.042	53	255916	17.74	ppb		96
32) ETBE	3.396	59	456071	16.75	ppb		99
33) 2,2-Dichloropropane	3.554	77	228058	16.47	ppb		100
34) cis-1,2-Dichloroethene	3.542	96	167779	18.33	ppb		92
35) 2-Butanone	3.548	43	53269	19.53	ppb		91
36) Propionitrile	3.591	54	68890	85.84	ppb		98
37) Bromochloromethane	3.829	130	99108	19.14	ppb		94

KR 12/29/14

Sample : LCS
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1853.D
Misc :
Acq On : 29 Dec 2014 11:17 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:33:42 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Methacrylonitrile	3.798	67	40877	17.12	ppb	98
39) Tetrahydrofuran	3.902	42	30946	16.85	ppb	92
40) Chloroform	3.938	83	283903	18.08	ppb	99
41) 1,1,1-Trichloroethane	4.213	97	240376	17.06	ppb	87
42) TAME	5.024	73	380825	16.72	ppb	99
44) Cyclohexane	4.316	41	175608	17.49	ppb	98
46) Carbontetrachloride	4.469	121	62537	17.66	ppb	94
47) 1,1-Dichloropropene	4.463	75	204039	17.22	ppb	97
49) Benzene	4.780	78	634528	18.27	ppb	99
50) 1,2-Dichloroethane	4.786	62	206779	17.67	ppb	97
51) Iso-Butyl Alcohol	4.633	43	85254	310.11	ppb	93
52) n-Heptane	5.328	43	182878	16.28	ppb	94
53) 1-Butanol	5.773	56	123936	730.77	ppb	94
54) Trichloroethene	5.828	130	171679	18.91	ppb	97
55) Methylcyclohexane	6.103	55	208933	17.93	ppb	91
56) 1,2-Diclpropane	6.109	63	160621	17.65	ppb	99
57) Dibromomethane	6.255	93	79034	18.36	ppb	97
58) 1,4-Dioxane	6.316	88	25474m	371.94	ppb	
59) Methyl Methacrylate	6.328	69	72297	17.22	ppb	98
60) Bromodichloromethane	6.474	83	198285	18.40	ppb	97
61) 2-Nitropropane	6.743	41	39374	27.45	ppb	98
62) 2-Chloroethylvinyl Ether	6.877	63	75863	17.89	ppb	100
63) cis-1,3-Dichloropropene	7.017	75	232007	17.28	ppb	99
64) 4-Methyl-2-pentanone	7.212	43	98086	15.84	ppb	98
66) Toluene	7.389	91	691657	18.47	ppb	97
67) trans-1,3-Dichloropropene	7.627	75	197758	17.28	ppb	98
68) Ethyl Methacrylate	7.767	69	144658	16.24	ppb	100
69) 1,1,2-Trichloroethane	7.803	97	114921	18.21	ppb	98
72) Tetrachloroethene	7.962	164	137036	19.03	ppb	98
73) 2-Hexanone	8.084	43	68773	16.33	ppb	97
74) 1,3-Dichloropropane	7.968	76	212483	18.93	ppb	94
75) Dibromochloromethane	8.188	129	133535	19.84	ppb	97
76) N-Butyl Acetate	8.236	43	177689	16.34	ppb	97
77) 1,2-Dibromoethane	8.285	107	112448	19.14	ppb	96
78) Chlorobenzene	8.767	112	454123	18.74	ppb	97
79) 3-CBTF	8.785	180	279790	21.08	ppb	98
80) 4-CBTF	8.834	180	254475	21.43	ppb	98
81) 1,1,1,2-Tetrachloroethane	8.846	131	152257	19.11	ppb	97
82) Ethylbenzene	8.883	106	221098	16.92	ppb	95
83) (m+p)Xylene	8.992	106	607662	38.42	ppb	97
84) o-Xylene	9.340	106	293270	18.44	ppb	96
85) Styrene	9.352	104	482655	18.35	ppb	97
87) Bromoform	9.492	173	72207	20.18	ppb	97
88) 2-CBTF	9.578	180	268068	21.13	ppb	98
89) Isopropylbenzene	9.669	105	754865	19.64	ppb	99
90) Cyclohexanone	9.718	55	218089	516.46	ppb	98
91) trans-1,4-Dichloro-2-B...	9.955	53	32090	13.89	ppb	81
92) 1,1,2,2-Tetrachloroethane	9.907	83	141806	18.93	ppb	97
93) Bromobenzene	9.907	156	193772	19.11	ppb	95
94) 1,2,3-Trichloropropane	9.937	110	41047	18.07	ppb	97
95) n-Propylbenzene	10.016	91	883270	19.82	ppb	97
96) 2-Chlorotoluene	10.077	91	519049	19.23	ppb	98

Sample : LCS
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1853.D
Misc :
Acq On : 29 Dec 2014 11:17 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:33:42 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration

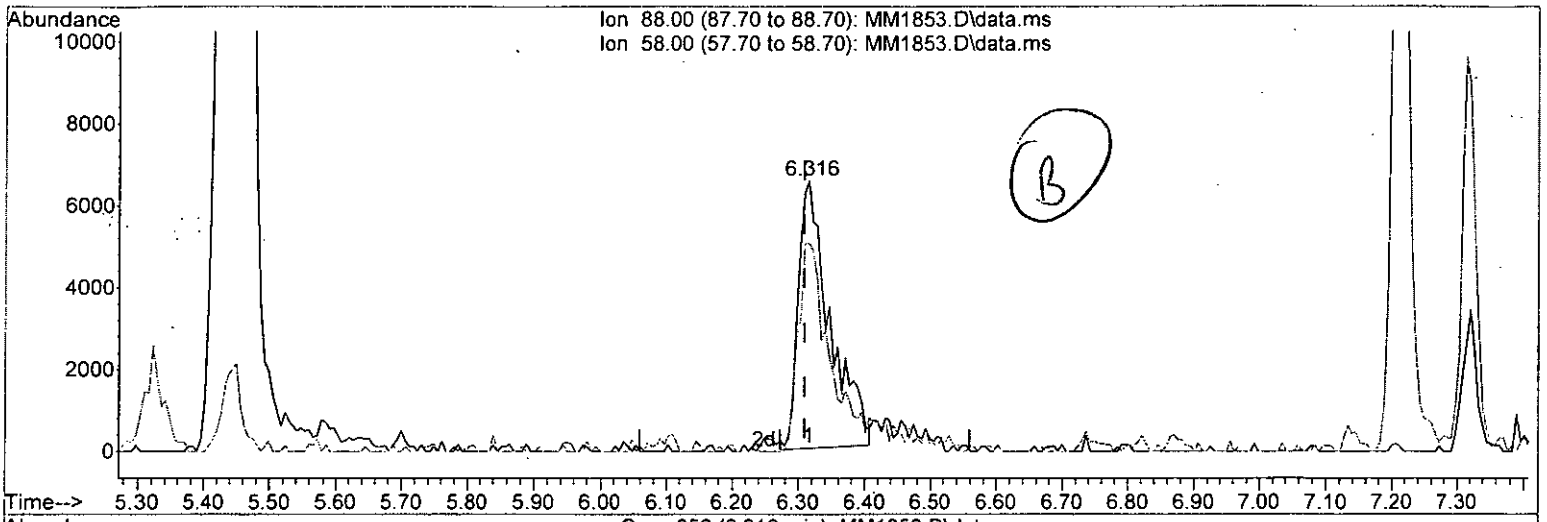
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	3-Chlorotoluene	10.126	91	593489	20.66	ppb	97
98)	4-Chlorotoluene	10.169	91	627319	18.53	ppb	98
99)	1,3,5-Trimethylbenzene	10.169	105	638002	19.14	ppb	99
100)	tert-Butylbenzene	10.437	119	533213	19.81	ppb	99
101)	1,2,4-Trimethylbenzene	10.474	105	639739	19.57	ppb	99
102)	3,4-DCBTF	10.535	214	204486	21.40	ppb	98
103)	sec-Butylbenzene	10.620	105	755615	19.96	ppb	99
104)	p-Isopropyltoluene	10.736	119	678152	20.62	ppb	98
105)	1,3-Dclbenz	10.693	146	370223	19.12	ppb	99
106)	1,4-Dclbenz	10.766	146	386495	19.09	ppb	98
107)	2,4-DCBTF	10.821	214	187585	22.90	ppb	97
108)	2,5-DCBTF	10.858	214	205948	22.21	ppb	97
109)	n-Butylbenzene	11.065	91	601155	20.66	ppb	99
110)	1,2-Dclbenz	11.065	146	353238	19.39	ppb	98
111)	1,2-Dibromo-3-chloropr...	11.620	157	23674	18.78	ppb	91
112)	Trielution Dichlorotol...	11.730	125	1004067	67.22	ppb	97
113)	1,3,5 Trichlorobenzene	11.778	180	286129	22.91	ppb	95
114)	Coelution Dichlorotoluene	11.992	125	730611	46.71	ppb	96
115)	1,2,4-Tcbenzene	12.156	180	243026	22.79	ppb	97
116)	Hexachlorobt	12.266	225	101489	24.07	ppb	96
117)	Naphthalen	12.296	128	461022	22.75	ppb	99
118)	1,2,3-Tclbenzene	12.437	180	200802	22.14	ppb	97
119)	2,4,5-Trichlorotolene	12.845	159	182593	29.72	ppb	97
120)	2,3,6-Trichlorotoluene	12.906	159	191046	33.70	ppb	98

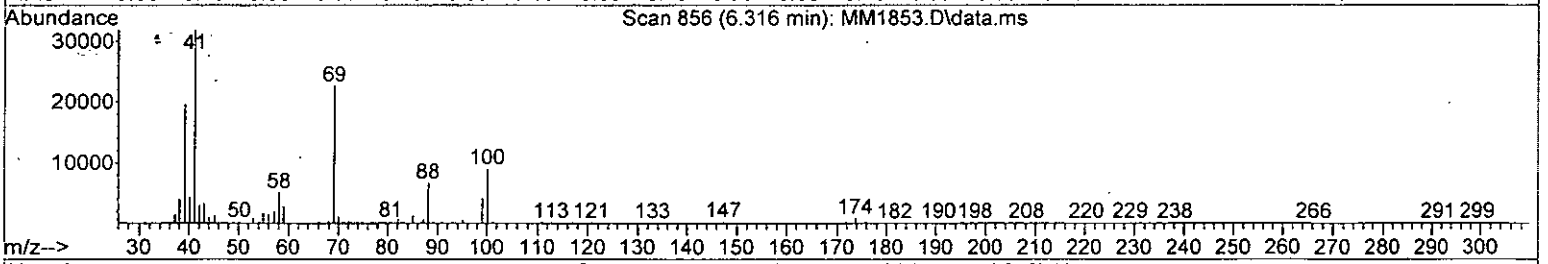
(#) = qualifier out of range (m) = manual integration (+) = signals summed

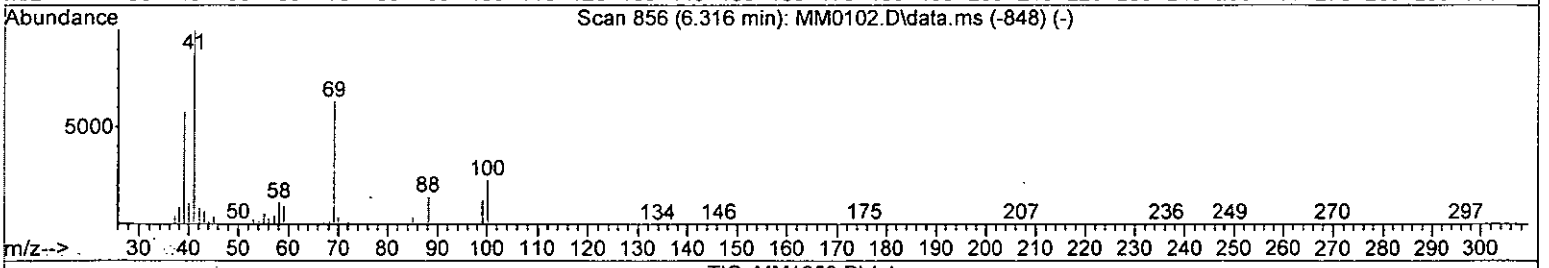
Quantitation Report (Qedit)

Sample : LCS
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1853.D
Misc :
Acq On : 29 Dec 2014 11:17 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:31:25 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration







TIC: MM1853.D\data.ms

(58) 1,4-Dioxane

6.316min (+0.006) 309.96 ppb

response 21229

Ion	Exp%	Act%
88.00	100	100
58.00	77.40	76.73
0.00	0.00	0.00
0.00	0.00	0.00

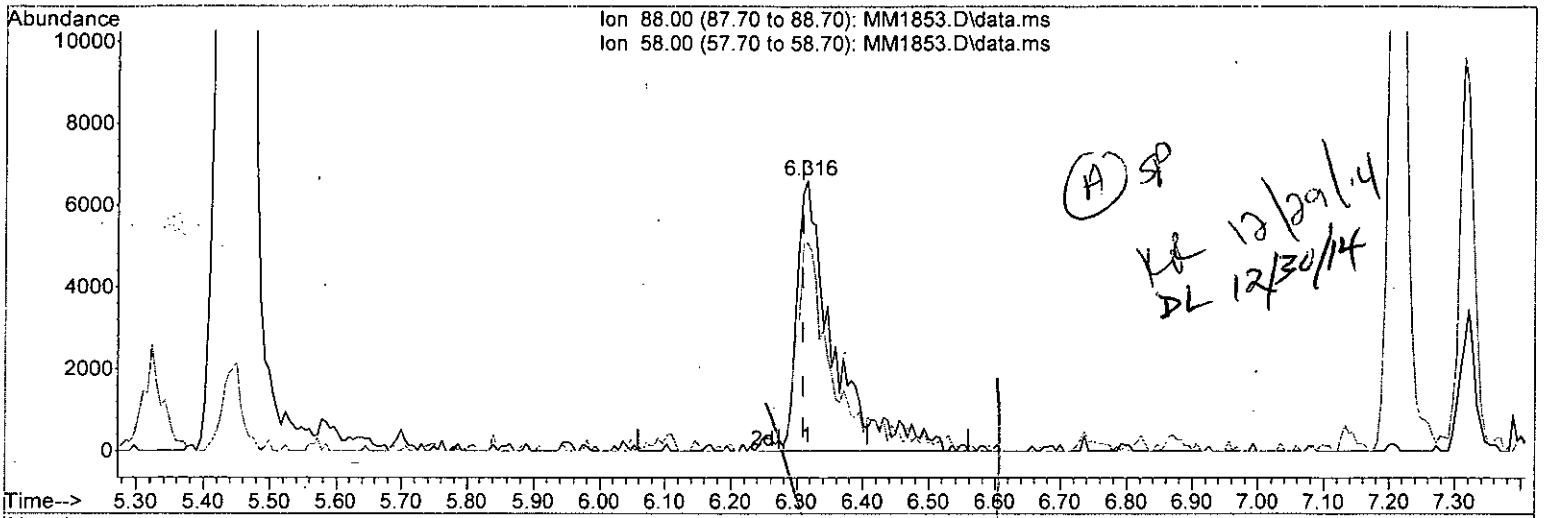
W102714.M Mon Dec 29 11:33:36 2014 Page: 1

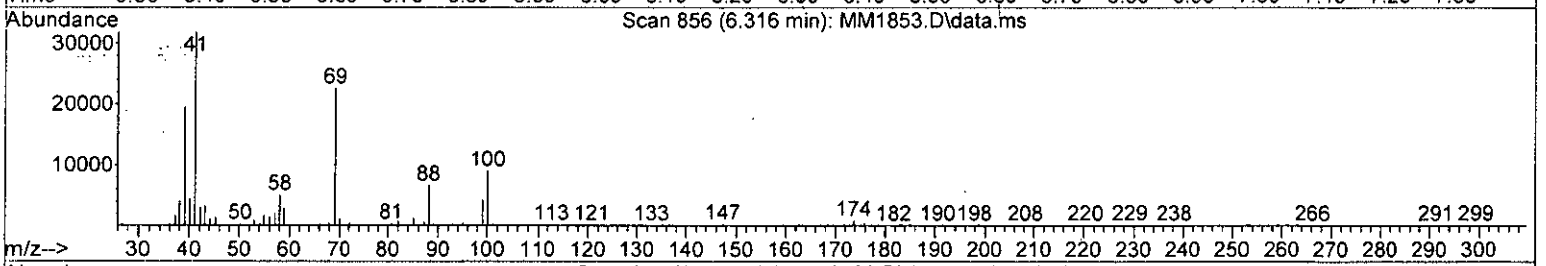
00230

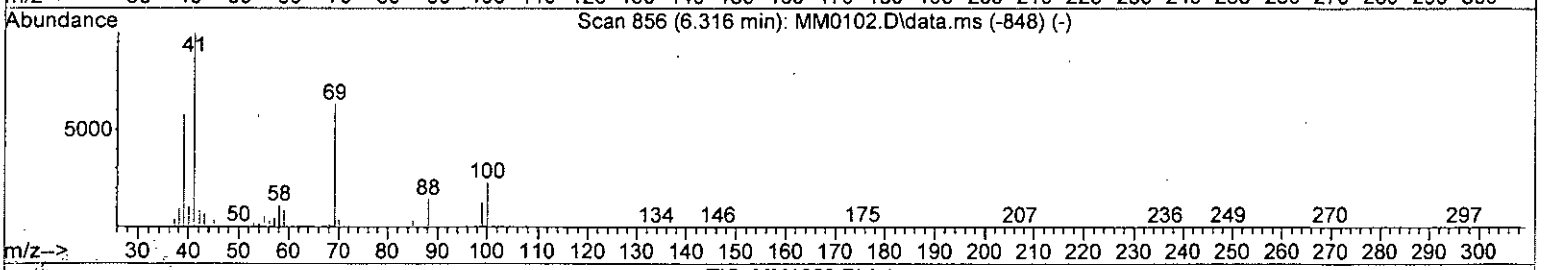
Quantitation Report (Qedit)

Sample : LCS
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1853.D
Misc :
Acq On : 29 Dec 2014 11:17 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:31:25 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration







TIC: MM1853.D\data.ms

(58) 1,4-Dioxane

6.316min (+0.006) 371.94 ppb m

response 25474

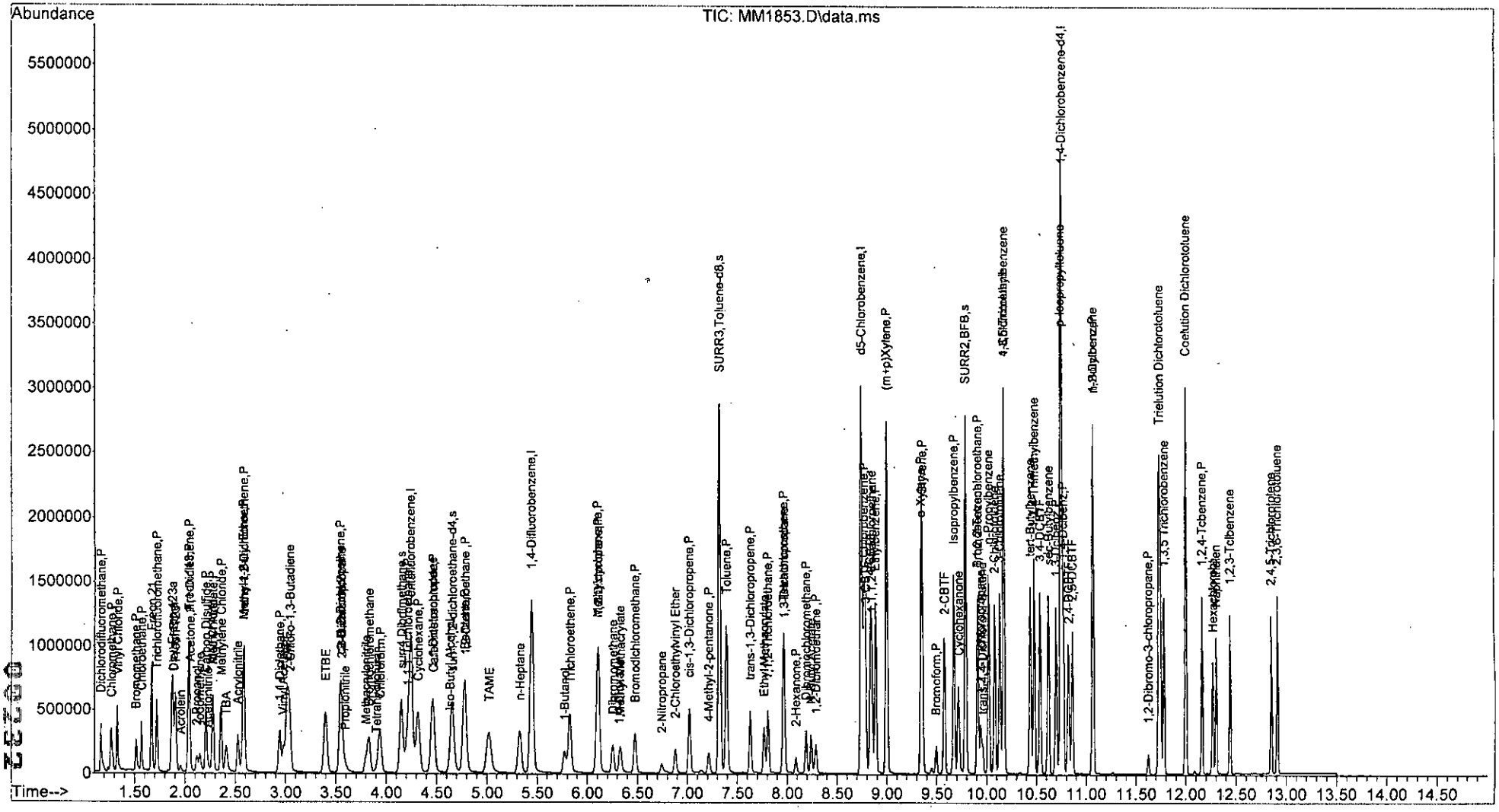
Ion	Exp%	Act%
88.00	100	100
58.00	77.40	76.73
0.00	0.00	0.00
0.00	0.00	0.00

W102714.M Mon Dec 29 11:33:44 2014 Page: 1

Quantitation Report (QT Reviewed)

Sample : LCS
Data File: I:\ACQUDATA\msvoa12\Data\122914\MM1853.D
Misc :
Acq On : 29 Dec 2014 11:17 am
Operator : K.Ruest
InstName : MSVOA-12

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W102714.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Quant Time: Dec 29 11:33:42 2014
QLast Update : Tue Oct 28 10:54:16 2014
Response via : Initial Calibration



W102714.M Mon Dec 29 11:35:39 2014 Page: 4

Analysis: 8260 Waters | Analyst: KRuest | Tune Method: W102714

Date: 10/27/14 | Data Path: j:\acqudata\msvoa \ | Run Method: ↓

Instr. 12 | (source cleaned / new trap 10/25/14) | LIMS Run#: — ICAL —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								MM0085		
2	↓								MM0086		
3	IVVE (carbon is 14)								MM0087	YT	(auto)
4	CCV								MM0088	(N)	↑ - Acrolein very ↓
5	BLK								MM0089	—	
6	↓								MM0090	—	
7	↑ Acrolein std								MM0091		
8	BLK								MM0092	—	
9	HSL 50 ppb (new std)								MM0093		
1	BLK								MM0094		
2	IVVE (carbon is 5m)								MM0095	YT	(auto) 15:08
3	IBLK	5ppm	500ppm 5+500 FV						MM0096	YB	
4	0.5ppb	5ml	— — 50mls						MM0097	Y	
5	1.0	10ml	— —						MM0098	Y	
6	2.0	20ml	— 1ml						MM0099	Y	
7	5.0	50ml	— 2ml						MM0100	Y	
8	20ml	—	2ml 5ml						MM0101	Y	
9	50ml	—	5ml —						MM0102	Y	
10	100ml	—	10ml 7.5ml						MM0103	Y	
11	150ml	—	15ml 10ml						MM0104	Y	
12	200ml	—	20ml — ↓						MM0105	Y	
13	— BLK								MM0106	—	
14	— BLK								MM0107	—	

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Primary HBU : 76005

Primary OCC : 75766

Primary ~~Fr+~~ : 76084 (1452)

Primary ~~Fr+~~ : 76076

Primary ~~Fr~~ : 76057

5ml → 50mls = CCV

Secondary :

Secondary :

Secondary :

Secondary :

Secondary :

Combined IS/Surr 500 : 76064

Surrogate 500 : 75340

Internal Std —

Runlog-MSVOAr2 9/20/13

Analysis: 8260 waters | Analyst: K. Quest | Tune Method: W102714
Date: 10/29/14 | Data Path: j:\acqudata\msvoa12\102814 | Run Method: ↓
Instr: 12 | LIMS Run# :

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								MM0108		
2	↓								MM0109		
3	TUNE (carbon is/su)								mm0110	YT	(auto) 10:31
4	CCV								MM0111	YC	Acrolein ↓
5	ICV/LCS (50ppb)								mm0112	YD	* Acrolein ↑
6	VBLK								MM0113	(N)	ND+/o
7	↓								MM0114		

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary OCC : 75766
Primary HBO : 76005
Primary FT : 76058 5ml → 50mls
Primary TG : 76057 = CCV
Primary HSL : 76054

200 Secondary FT : 76047 -12.5ml
500 Secondary OCC : 75768
Secondary HBO : 75765 5ml → 50mls = ICV/LCS
Secondary TG : 75816
Secondary HSL : 76045

Combined IS/Surr 500 : 76064
Surrogate :
Internal Std :

Runlog-MSVOAr2 9/20/13
Page 141

Analysis: 8260 WaterS | Analyst: K. Ruest | Tune Method: W102714
Date: 12/29/14 | Data Path: j:\acqudata\msvoa12\122914 | Run Method: ↓
Instr. 12 | LIMS Run#: 427219

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								MM1849		
2	↓								MM1850		
3	TUNE (BFB 1/4/13)		RQ1415949-01						MM1851	YT	(auto) 10:14
4	CCV		01						MM1852	YC	
5	LCS		02						MM1853	YC	
6	VBLK		—						MM1854	(Y)	ND+c/D
7	↓		↓ (RE) 04						MM1855	(N)	↓
8	↓		04						MM1856	YB	
9	R1410281-001	1.0		[redacted]	94143	2	1	12	MM1857	Y	
10	R1410310-001	1.0		[redacted]	111603	4	1	12	MM1858	Y	
11	↓ 002	1.0		↓	↓	↓	1	12	MM1859	Y	
12	↓ 003	1.0		↓	↓	↓	1	12	MM1860	Y	
13	R1410281-004	2.0	25/50mls	[redacted]	88835	2	3	12	MM1861	(Y)	DL (RE)
14	010	20	2.5/50mls	↓	↓	↓	3	12	MM1862	(Y)	DL
15	↓ 006	50	1/50mls	↓	↓	↓	3	12	MM1863	(Y)	DL
16	R1410305-004	1.0		[redacted]	66053	4	1	12	MM1864	Y	
17	↓ 003	50	1/50mls	↓	↓	↓	1	12	MM1865	(Y)	very foamy!
18	R1410233-007	1.0		[redacted]	66013	2	1	12	MM1866	Y	
19	003	1.0		↓	↓	↓	1	12	MM1867	Y	
20	002	1.0					1	12	MM1868	Y	
21	004	1.0					1	12	MM1869	Y	
22	005	1.0					1	12	MM1870	Y	
23	006	1.0					1	12	MM1871	Y	
24	001	10	5/50mls				1	12	MM1872	(N)	ND+1.0
25	MS 001	10	↓				1	12	MM1873	(N)	RunQL - Overdilute
26	↓ MSD 001	10	↓	↓	↓	↓	1	12	MM1874	(N)	↓
27	MeOH STD							—	MM1875	—	
28	BLK							—	MM1876	—	
											EOD

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary OCC : 77316
Primary HBO : 77410
Primary TO : 77102 5uL → 50mls
Primary FrT : 77318 = CCV
Primary HSL : 77558

200 Secondary FrT : 77448 - 5uL
500 Secondary OCC : 77315
Secondary HBO : 77314 2uL
Secondary TO : 77562
Secondary HSL : 77159
50mls = LCS

- 10.6uL
4.2uL
42mL vial = MS/D

Combined IS/Surr 500: 77601
Surrogate :
Internal Std :

Runlog-MSVOAr2 9/20/13

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

April 13, 2015

Analytical Report for Service Request No: R1502204

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

Laboratory Results for: FTMM 2015 Q1 GW Sampling/748810-03000

Dear Sandra:

Enclosed are the results of the sample(s) submitted to our laboratory on March 31, 2015. For your reference, these analyses have been assigned our service request number **R1502204.**

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

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

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ALS Environmental

Client:	Parsons, Inc.
Service Request No.:	R1502204
Project:	FTMM 2015 Q1 GW Sampling
Date Received:	3/31/15
Sample Matrix:	Water
Project/Case No.:	

CASE NARRATIVE

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

Sample Receipt

Water samples were received for analysis at ALS Environmental on 3/31/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Comments

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

Volatile Organics

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

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

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria were met for all analytes except Dichlorodifluoromethane and Acetone were not within the DoD limits but were within the limits specified by the method. As no data was affected by this, the data was accepted. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Bromomethane and Chloroethane on the 04/02/15 CCV, Acetone and Bromoform on the 04/03/15 CCV and Bromoform, Bromomethane, Chloroethane, Dichlorodifluoromethane and Methylene chloride on the 04/07/15 CCV. No data was affected.

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

The Blank Spike (LCS) recoveries were all acceptable.

Service Request #R1502204
Page 2

A Matrix Spike/Matrix spike duplicate (MS/MSD) was performed on FTMM-53-699MW06-10.2 as requested. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for FTMM-53-699RW05-10.0 have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

The Method Blanks associated with these samples were free of contamination.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 748810-03000	Batch Complete: Yes	Date Revised:
Submission: R1502204	Diskette Requested: No	Date Due: 4/21/15
Client: Parsons Engineering Science	Date: 4/7/15	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: FTMM 2015 Q1 GW Sampling	Chain of Custody: Present/Absent:	SDG #: FTMM-TB-03302015

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1502204-001	FTMM-TB-03302015	Water	8260C	3/30/15	3/31/15			
R1502204-002	FTMM-68-565MW01D-22.31	Water	8260C	3/30/15	3/31/15			
R1502204-003	FTMM-68-565MW01-11.99	Water	8260C	3/30/15	3/31/15			
R1502204-004	FTMM-53-699RW05-10.0	Water	8260C	3/30/15	3/31/15			
R1502204-004.R01	FTMM-53-699RW05-10.0	Water	8260C	3/30/15	3/31/15			
R1502204-005	FTMM-53-699MW01-7.5	Water	8260C	3/30/15	3/31/15			
R1502204-006	FTMM-53-699MW09-7.75	Water	8260C	3/30/15	3/31/15			
R1502204-007	FTMM-53-699MW16-7.5	Water	8260C	3/30/15	3/31/15			
R1502204-008QC	FTMM-53-699MW06-10.2	Water	8260C	3/30/15	3/31/15			
R1502204-009	FTMM-53-699MW106-10.2	Water	8260C	3/30/15	3/31/15			
R1502204-010	FTMM-53-699MW04-8.0	Water	8260C	3/30/15	3/31/15			
R1502204-011	FTMM-53-699RW11-8.3	Water	8260C	3/30/15	3/31/15			
R1502204-012	FTMM-53-699RW03-8.2	Water	8260C	3/30/15	3/31/15			
R1502204-013	FTMM-22-CW1MW29-10.85	Water	8260C	3/30/15	3/31/15			
R1502204-014	FTMM-22-CW1MW37-11.78	Water	8260C	3/30/15	3/31/15			
R1502204-015	FTMM-22-CW1MW31-16.4	Water	8260C	3/30/15	3/31/15			
R1502204-016	FTMM-22-CW1MW27-12.63	Water	8260C	3/30/15	3/31/15			
R1502204-017	FTMM-22-CW1MW28-11.21	Water	8260C	3/30/15	3/31/15			
R1502204-018	FTMM-22-CW1MW281-33.74	Water	8260C	3/30/15	3/31/15			

Folder Comments: DoD reporting

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

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

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

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

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

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

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

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

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

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

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

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

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

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

C Confirmed by GC/MS

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

X See Case Narrative for discussion.

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

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

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

24473

ALS Environmental

2015 Q1

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: FTMM 2014 Q4 GW Sampling	Project Number: 148810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIonno	Sampler's Printed Name: Alex DiIonno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP	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-TB-03302015		3/30/15		TB	3	X							
FTMM-68-565MW010-11.98		3/30/15	0950	GW	3	X							
FTMM-68-565MW01-11.99		3/30/15	0945	GW	3	X							
FTMM-53-699RW05-10.0		3/30/15	1000	GW	3	X							
FTMM-53-699MW01-7.5		3/30/15	1005	GW	3	X							
FTMM-53-699MW09-7.75		3/30/15	1015	GW	3	X							
FTMM-53-699MW16-7.5		3/30/15	1020	GW	3	X							
FTMM-53-699MW06-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW06-MS-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW06-MSD-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW106-10.2		3/30/15	1200	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 New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature:	Signature:	Signature:	Signature:	
Printed Name: Alex DiIonno	Printed Name: J Seward	Printed Name:	Printed Name:	Printed Name:	
Firm: Parsons	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 3/30/15; 1715	Date/Time: 3/31/15 0825	Date/Time:	Date/Time:	Date/Time:	

R1502204 5
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FTMM Baseline

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24473

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Project Name: FTMM 2014 Q4 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIonno	Sampler's Printed Name: Alex DiIonno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs • 8260 • 624 • CLP	GCMS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)
FTMM-TB-03302015		3/30/15		TB	3	X						
FTMM-68-565MW01D-22.31		3/30/15	0950	GW	3	X						
FTMM-68-565MW01-11.99		3/30/15	0945	GW	3	X						
FTMM-53-699RW05-10.0		3/30/15	1000	GW	3	X						
FTMM-53-699MW01-7.5		3/30/15	1005	GW	3	X						
FTMM-53-699MW09-7.75		3/30/15	1015	GW	3	X						
FTMM-53-699MW16-7.5		3/30/15	1020	GW	3	X						
FTMM-53-699MW06-10.2		3/30/15	1025	GW	3	X						
FTMM-53-699MW06-MS-10.2		3/30/15	1025	GW	3	X						
FTMM-53-699MW06-MSD-10.2		3/30/15	1025	GW	3	X						
FTMM-53-699MW106-10.2		3/30/15	1200	GW	3	X						

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

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

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: New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature:	Signature:	Signature:	Signature:	
Printed Name: Alex DiIonno	Printed Name: J Seward	Printed Name:	Printed Name:	Printed Name:	
Firm: Parsons	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 3/30/15; 1715	Date/Time: 3/31/15 0825	Date/Time:	Date/Time:	Date/Time:	

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24475

ALS Environmental

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Project Name: FTMM 2014-Q4 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIonno	Sampler's Printed Name: Alex DiIonno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs • 8260 • 624 • CLP	GCMS 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-53-699MW04-8.0		3/30/15	1035	GW	3	X							
FTMM-53-699RW11-8.3		3/30/15	1040	GW	3	X							
FTMM-53-699RW03-8.2		3/30/15	1050	GW	3	X							
FTMM-22-CW1MW29-10.85		3/30/15	1345	GW	3	X							
FTMM-22-CW1MW37-11.78		3/30/15	1340	GW	3	X							
FTMM-22-CW1MW31-16.4		3/30/15	1335	GW	3	X							
FTMM-22-CW1MW27-12.63		3/30/15	1330	GW	3	X							
FTMM-22-CW1MW28-11.2		3/30/15	1325	GW	3	X							
FTMM-22-CW1MW28I-33.74		3/30/15	1320	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: New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature: J. Seward	Signature	Signature	Signature	Signature
Printed Name: Alex DiIonno	Printed Name: J. Seward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 3/30/15; 1715	Date/Time: 3/31/15 0825	Date/Time	Date/Time	Date/Time	Date/Time

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24475

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Project Name: FTMM 2014 Q4 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIonno	Sampler's Printed Name: Alex DiIonno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs • 8260 • 624 • CLP	GCMS 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-53-699RW04-8.0		3/30/15	1035	GW	3	X							
FTMM-53-699RW11-8.3		3/30/15	1040	GW	3	X							
FTMM-53-699RW03-8.2		3/30/15	1050	GW	3	X							
FTMM-22-CW1MW29-10.85		3/30/15	1345	GW	3	X							
FTMM-22-CW1MW37-11.78		3/30/15	1340	GW	3	X							
FTMM-22-CW1MW31-16.4		3/30/15	1335	GW	3	X							
FTMM-22-CW1MW27-12.63		3/30/15	1330	GW	3	X							
FTMM-22-CW1MW28-11.21		3/30/15	1325	GW	3	X							
FTMM-22-CW1MW28I-33.79		3/30/15	1320	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: New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature: J. Seward	Signature	Signature	Signature	Signature
Printed Name: Alex DiIonno	Printed Name: J. Seward	Printed Name	Printed Name	Printed Name	
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	
Date/Time: 3/30/15 1715	Date/Time: 3/31/15 0825	Date/Time	Date/Time	Date/Time	

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Parsons, Inc.
FTMM Baseline

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

R1502204
Parsons, Inc.
FTMM Baseline

Cooler Receipt and Preservation Check Form

Project/Client Parsons Folder Number R1502204

Cooler received on 3/31/15 by: JFS 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: 3/31/15 Time: 0826 ID: IR#3 IR#8 From: Temp Blank Sample Bottle

Observed Temp (°C)	1.2						
Correction Factor (°C)	-0.4						
Corrected Temp (°C)	0.8						
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: RUN by JFS on 3/31/15 at 0828
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: VMS 3/31/15

Cooler Breakdown: Date: 3-31-15 Time: 1845 by: M

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	**	**	4114050	03/16				

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

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 4-258-004
Other Comments:

PC Secondary Review: VMS 3/31/15 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 19:01
Sample Name:	FTMM-TB-03302015	**Units:**	µg/L
Lab Code:	R1502204-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D\	**Instrument Name:**	R-MS-07
		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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15 19:01

Sample Name: FTMM-TB-03302015
Lab Code: R1502204-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/2/15 19:01	
Dibromofluoromethane	108	85-115	4/2/15 19:01	
Toluene-d8	104	85-120	4/2/15 19:01	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15 1901

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

Sample Name: FTMM-TB-03302015
Lab Code: R1502204-001

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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 0950
Date Received: 3/31/15
Date Analyzed: 4/7/15 15:50

Sample Name: FTMM-68-565MW01D-22.31
Lab Code: R1502204-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
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)	ND	U	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	ND	U	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	
56-23-5	Carbon Tetrachloride	ND	U	25	5.0	2.3	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 0950
Date Received: 3/31/15
Date Analyzed: 4/7/15 15:50

Sample Name: FTMM-68-565MW01D-22.31
Lab Code: R1502204-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
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	3.0	
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)	**860**		25	5.0	1.5	
108-88-3	Toluene	ND	U	25	5.0	1.0	
79-01-6	Trichloroethene (TCE)	**45**		25	5.0	1.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	25	5.0	1.0	
75-01-4	Vinyl Chloride	**2.5**	J	25	5.0	1.6	
156-59-2	cis-1,2-Dichloroethene	**53**		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	**1.9**	J	25	5.0	1.7	
10061-02-6	trans-1,3-Dichloropropene	ND	U	25	5.0	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	75-120	4/7/15 15:50	
Dibromofluoromethane	109	85-115	4/7/15 15:50	
Toluene-d8	110	85-120	4/7/15 15:50	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/7/15 1550

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

Sample Name:	FTMM-68-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1502204-002	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 0945
Date Received: 3/31/15
Date Analyzed: 4/3/15 13:31

Sample Name: FTMM-68-565MW01-11.99
Lab Code: R1502204-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	1.7	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 0945
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 13:31
Sample Name:	FTMM-68-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1502204-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**94**		5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**25**		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	**1.7**	J	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**40**		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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	75-120	4/3/15 13:31	
Dibromofluoromethane	108	85-115	4/3/15 13:31	
Toluene-d8	110	85-120	4/3/15 13:31	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1331

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

Sample Name:	FTMM-68-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1502204-003	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1000
Date Received: 3/31/15
Date Analyzed: 4/2/15 20:48

Sample Name: FTMM-53-699RW05-10.0
Lab Code: R1502204-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	
79-00-5	1,1,2-Trichloroethane	ND	U	13	2.5	0.86	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	13	2.5	1.5	
563-58-6	1,1-Dichloropropene	ND	U	13	2.5	0.73	
87-61-6	1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	
96-18-4	1,2,3-Trichloropropane	ND	U	13	2.5	1.8	
120-82-1	1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	
95-63-6	1,2,4-Trimethylbenzene	**680**	E	13	2.5	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	
106-93-4	1,2-Dibromoethane	ND	U	13	2.5	0.60	
95-50-1	1,2-Dichlorobenzene	ND	U	13	2.5	0.53	
107-06-2	1,2-Dichloroethane	ND	U	13	2.5	0.90	
78-87-5	1,2-Dichloropropane	ND	U	13	2.5	0.50	
108-67-8	1,3,5-Trimethylbenzene	**120**		13	2.5	0.50	
541-73-1	1,3-Dichlorobenzene	ND	U	13	2.5	0.50	
142-28-9	1,3-Dichloropropane	ND	U	13	2.5	0.68	
106-46-7	1,4-Dichlorobenzene	ND	U	13	2.5	0.50	
594-20-7	2,2-Dichloropropane	ND	U	13	2.5	0.68	
78-93-3	2-Butanone (MEK)	ND	U	13	2.5	2.1	
95-49-8	2-Chlorotoluene	ND	U	13	2.5	0.50	
591-78-6	2-Hexanone	ND	U	13	13	4.2	
75-65-0	tert-Butyl Alcohol	ND	U	250	50	27	
106-43-4	4-Chlorotoluene	ND	U	13	2.5	0.60	
99-87-6	p-Isopropyltoluene	**2.1**	J	13	2.5	0.50	
108-10-1	4-Methyl-2-pentanone	ND	U	13	2.5	1.7	
67-64-1	Acetone	ND	U	13	13	3.1	
71-43-2	Benzene	**1.2**	J	13	2.5	0.50	
108-86-1	Bromobenzene	ND	U	13	2.5	0.71	
74-97-5	Bromochloromethane	ND	U	13	2.5	0.80	
75-27-4	Bromodichloromethane	ND	U	13	2.5	0.80	
75-25-2	Bromoform	ND	U	13	2.5	1.1	
74-83-9	Bromomethane	ND	U	13	2.5	0.73	
56-23-5	Carbon Tetrachloride	ND	U	13	2.5	1.2	

ALS Group USA, Corp. dba ALS Environmental

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1000
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 20:48
Sample Name:	FTMM-53-699RW05-10.0	**Units:**	µg/L
Lab Code:	R1502204-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	13	2.5	0.73	
75-00-3	Chloroethane	ND	U	13	2.5	0.60	
67-66-3	Chloroform	ND	U	13	2.5	0.63	
74-87-3	Chloromethane	ND	U	13	2.5	0.53	
124-48-1	Dibromochloromethane	ND	U	13	2.5	0.78	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	
75-09-2	Methylene Chloride	ND	U	13	2.5	1.5	
100-41-4	Ethylbenzene	**330**		13	2.5	0.50	
87-68-3	Hexachlorobutadiene	ND	U	13	2.5	1.6	
98-82-8	Isopropylbenzene (Cumene)	**23**		13	2.5	0.50	
1634-04-4	Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	
91-20-3	Naphthalene	**160**		13	2.5	0.50	
100-42-5	Styrene	ND	U	13	2.5	0.50	
127-18-4	Tetrachloroethene (PCE)	ND	U	13	2.5	0.75	
108-88-3	Toluene	**7.4**	J	13	2.5	0.50	
79-01-6	Trichloroethene (TCE)	ND	U	13	2.5	0.55	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	
75-01-4	Vinyl Chloride	ND	U	13	2.5	0.80	
156-59-2	cis-1,2-Dichloroethene	ND	U	13	2.5	0.75	
10061-01-5	cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	
179601-23-1	m,p-Xylenes	**820**		25	5.0	0.83	
104-51-8	n-Butylbenzene	ND	U	13	2.5	0.53	
103-65-1	n-Propylbenzene	**39**		13	2.5	0.50	
95-47-6	o-Xylene	**520**	E	13	2.5	0.50	
135-98-8	sec-Butylbenzene	**2.7**	J	13	2.5	0.68	
98-06-6	tert-Butylbenzene	ND	U	13	2.5	0.50	
156-60-5	trans-1,2-Dichloroethene	ND	U	13	2.5	0.83	
10061-02-6	trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/2/15 20:48	
Dibromofluoromethane	108	85-115	4/2/15 20:48	
Toluene-d8	109	85-120	4/2/15 20:48	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15 2048

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

Sample Name: FTMM-53-699RW05-10.0
Lab Code: R1502204-004

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	5.83	**103.3**	JN
000109-66-0	Pentane	6.22	**53.5**	JN
000107-83-5	Pentane, 2-methyl-	7.52	**116.1**	JN
	unknown	7.66	**25.1**	J
000096-14-0	Pentane, 3-methyl-	7.87	**67.4**	JN
000096-37-7	Cyclopentane, methyl-	9.16	**189.1**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	18.97	**254.8**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	19.04	**135.7**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	19.60	**236.4**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	20.79	**287.8**	JN
	unknown	21.20	**247.0**	J
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	21.73	**31.7**	JN
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	21.80	**21.8**	JN
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	21.93	**53.2**	JN
027133-93-3	2,3-Dihydro-1-methylindene	22.24	**36.6**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	22.70	**32.9**	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	22.81	**45.7**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	23.39	**35.2**	JN
	unknown	23.65	**23.8**	J
	unknown	23.73	**65.3**	J

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1000
Date Received: 3/31/15
Date Analyzed: 4/3/15 20:38

Sample Name: FTMM-53-699RW05-10.0
Lab Code: R1502204-004
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
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)	ND	U	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	**690**	D	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	**120**	D	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	**2.3**	DJ	25	5.0	1.0	
108-10-1	4-Methyl-2-pentanone	ND	U	25	5.0	3.4	
67-64-1	Acetone	ND	U	25	25	6.2	
71-43-2	Benzene	**1.2**	DJ	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	
56-23-5	Carbon Tetrachloride	ND	U	25	5.0	2.3	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1000
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 20:38
Sample Name:	FTMM-53-699RW05-10.0	**Units:**	µg/L
Lab Code:	R1502204-004	**Basis:**	NA
Run Type:	Dilution		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
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	3.0	
100-41-4	Ethylbenzene	**330**	D	25	5.0	1.0	
87-68-3	Hexachlorobutadiene	ND	U	25	5.0	3.1	
98-82-8	Isopropylbenzene (Cumene)	**22**	DJ	25	5.0	1.0	
1634-04-4	Methyl tert-Butyl Ether	ND	U	25	5.0	1.5	
91-20-3	Naphthalene	**150**	D	25	5.0	1.0	
100-42-5	Styrene	ND	U	25	5.0	1.0	
127-18-4	Tetrachloroethene (PCE)	ND	U	25	5.0	1.5	
108-88-3	Toluene	**7.2**	DJ	25	5.0	1.0	
79-01-6	Trichloroethene (TCE)	ND	U	25	5.0	1.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	25	5.0	1.0	
75-01-4	Vinyl Chloride	ND	U	25	5.0	1.6	
156-59-2	cis-1,2-Dichloroethene	ND	U	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	**820**	D	50	10	1.7	
104-51-8	n-Butylbenzene	ND	U	25	5.0	1.1	
103-65-1	n-Propylbenzene	**36**	D	25	5.0	1.0	
95-47-6	o-Xylene	**510**	D	25	5.0	1.0	
135-98-8	sec-Butylbenzene	**1.9**	DJ	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/3/15 20:38	
Dibromofluoromethane	109	85-115	4/3/15 20:38	
Toluene-d8	108	85-120	4/3/15 20:38	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 2038

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

Sample Name: FTMM-53-699RW05-10.0DL
Lab Code: R1502204-004
Run Type: Dilution

Analytical Method: 8260C

Units: µg/L
Basis: NA

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	5.82	**102.8**	JN
000109-66-0	Pentane	6.21	**51.5**	JN
000107-83-5	Pentane, 2-methyl-	7.51	**121.5**	JN
000096-14-0	Pentane, 3-methyl-	7.86	**65.6**	JN
000096-37-7	Cyclopentane, methyl-	9.16	**192.5**	JN
	unknown	10.15	**40.8**	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	18.96	**238.2**	JN
	unknown	19.03	**126.3**	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	19.59	**222.6**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	20.78	**273.2**	JN
	unknown	21.20	**233.7**	J
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	21.72	**28.2**	JN
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	21.93	**47.9**	JN
027133-93-3	2,3-Dihydro-1-methylindene	22.23	**34.4**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	22.70	**29.6**	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	22.81	**42.1**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	23.39	**33.6**	JN
001560-06-1	Benzene, 2-butenyl-	23.71	**58.2**	JN

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1005
Date Received: 3/31/15
Date Analyzed: 4/3/15 12:56

Sample Name: FTMM-53-699MW01-7.5
Lab Code: R1502204-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.3**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

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Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1005
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 12:56
Sample Name:	FTMM-53-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1502204-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/3/15 12:56	
Dibromofluoromethane	107	85-115	4/3/15 12:56	
Toluene-d8	99	85-120	4/3/15 12:56	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1256

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

Sample Name: FTMM-53-699MW01-7.5
Lab Code: R1502204-005

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:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1015
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 14:07
Sample Name:	FTMM-53-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1502204-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1015
Date Received: 3/31/15
Date Analyzed: 4/3/15 14:07

Sample Name: FTMM-53-699MW09-7.75
Lab Code: R1502204-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/3/15 14:07	
Dibromofluoromethane	109	85-115	4/3/15 14:07	
Toluene-d8	106	85-120	4/3/15 14:07	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1407

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

Sample Name:	FTMM-53-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1502204-006	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1020
Date Received: 3/31/15
Date Analyzed: 4/3/15 14:42

Sample Name: FTMM-53-699MW16-7.5
Lab Code: R1502204-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.4**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1020
Date Received: 3/31/15
Date Analyzed: 4/3/15 14:42

Sample Name: FTMM-53-699MW16-7.5
Lab Code: R1502204-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
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	**4.5**	**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	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**0.95**	**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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 14:42	
Dibromofluoromethane	111	85-115	4/3/15 14:42	
Toluene-d8	107	85-120	4/3/15 14:42	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1442

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

Sample Name:	FTMM-53-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1502204-007	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1025
Date Received: 3/31/15
Date Analyzed: 4/2/15 21:58

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	1.6	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1025
Date Received: 3/31/15
Date Analyzed: 4/2/15 21:58

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/2/15 21:58	
Dibromofluoromethane	108	85-115	4/2/15 21:58	
Toluene-d8	108	85-120	4/2/15 21:58	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 2158

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

Sample Name:	FTMM-53-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1502204-008	**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:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1200
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 15:18
Sample Name:	FTMM-53-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1502204-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1200
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 15:18
Sample Name:	FTMM-53-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1502204-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	4/3/15 15:18	
Dibromofluoromethane	110	85-115	4/3/15 15:18	
Toluene-d8	106	85-120	4/3/15 15:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1518

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

Sample Name: FTMM-53-699MW106-10.2
Lab Code: R1502204-009

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

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1035
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 15:53
Sample Name:	FTMM-53-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1502204-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	**J**	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1035
Date Received: 3/31/15
Date Analyzed: 4/3/15 15:53

Sample Name: FTMM-53-699MW04-8.0
Lab Code: R1502204-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/3/15 15:53	
Dibromofluoromethane	109	85-115	4/3/15 15:53	
Toluene-d8	108	85-120	4/3/15 15:53	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1553

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

Sample Name:	FTMM-53-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1502204-010	**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:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1040
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 16:29
Sample Name:	FTMM-53-699RW11-8.3	**Units:**	µg/L
Lab Code:	R1502204-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D\	**Instrument Name:**	R-MS-07
		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	**7.1**		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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1040
Date Received: 3/31/15
Date Analyzed: 4/3/15 16:29

Sample Name: FTMM-53-699RW11-8.3
Lab Code: R1502204-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**0.30**	J	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**6.1**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.96**	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	**0.55**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**4.4**	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	**0.89**	J	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**0.37**	J	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/3/15 16:29	
Dibromofluoromethane	109	85-115	4/3/15 16:29	
Toluene-d8	108	85-120	4/3/15 16:29	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1629

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

Sample Name: FTMM-53-699RW11-8.3
Lab Code: R1502204-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	5.83	**15.6**	JN
	unknown	6.88	**6.0**	J
000079-29-8	Butane, 2,3-dimethyl-	7.50	**27.2**	JN
000096-14-0	Pentane, 3-methyl-	7.86	**16.4**	JN
000096-37-7	Cyclopentane, methyl-	9.16	**20.3**	JN
000565-59-3	Pentane, 2,3-dimethyl-	10.09	**10.7**	JN
	unknown	10.15	**6.7**	J
	unknown	10.61	**5.6**	J
000591-48-0	Cyclohexene, 3-methyl-	12.45	**5.1**	JN
	unknown	21.20	**12.9**	J
000768-00-3	Benzene, (1-methyl-1-propenyl)-, (E)-	22.09	**6.2**	JN
	unknown	22.23	**16.0**	J
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	22.70	**6.4**	JN
027133-93-3	2,3-Dihydro-1-methylindene	23.39	**12.3**	JN
000767-58-8	Indan, 1-methyl-	23.72	**27.6**	JN

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1050
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 17:04
Sample Name:	FTMM-53-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1502204-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D\	**Instrument Name:**	R-MS-07
		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	**1.1**	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	**0.45**	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	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1050
Date Received: 3/31/15
Date Analyzed: 4/3/15 17:04

Sample Name: FTMM-53-699RW03-8.2
Lab Code: R1502204-012

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	2.3	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 17:04	
Dibromofluoromethane	108	85-115	4/3/15 17:04	
Toluene-d8	108	85-120	4/3/15 17:04	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1704

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

Sample Name:	FTMM-53-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1502204-012	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1345
Date Received: 3/31/15
Date Analyzed: 4/3/15 17:40

Sample Name: FTMM-22-CW1MW29-10.85
Lab Code: R1502204-013

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.9**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1345
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 17:40
Sample Name:	FTMM-22-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1502204-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**7.5**		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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/3/15 17:40	
Dibromofluoromethane	110	85-115	4/3/15 17:40	
Toluene-d8	107	85-120	4/3/15 17:40	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1740

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

Sample Name:	FTMM-22-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1502204-013	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1340
Date Received: 3/31/15
Date Analyzed: 4/3/15 18:15

Sample Name: FTMM-22-CW1MW37-11.78
Lab Code: R1502204-014

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.4**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1340
Date Received: 3/31/15
Date Analyzed: 4/3/15 18:15

Sample Name: FTMM-22-CW1MW37-11.78
Lab Code: R1502204-014

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 18:15	
Dibromofluoromethane	108	85-115	4/3/15 18:15	
Toluene-d8	108	85-120	4/3/15 18:15	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1815

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

Sample Name:	FTMM-22-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1502204-014	**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:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1335
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 18:51
Sample Name:	FTMM-22-CW1MW31-16.4	**Units:**	µg/L
Lab Code:	R1502204-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.5**	**J**	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1335
Date Received: 3/31/15
Date Analyzed: 4/3/15 18:51

Sample Name: FTMM-22-CW1MW31-16.4
Lab Code: R1502204-015

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.37**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	4/3/15 18:51	
Dibromofluoromethane	109	85-115	4/3/15 18:51	
Toluene-d8	107	85-120	4/3/15 18:51	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1851

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

Sample Name: FTMM-22-CW1MW31-16.4
Lab Code: R1502204-015

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:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1330
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 19:27
Sample Name:	FTMM-22-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1502204-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1330
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 19:27
Sample Name:	FTMM-22-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1502204-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.29**	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 19:27	
Dibromofluoromethane	110	85-115	4/3/15 19:27	
Toluene-d8	105	85-120	4/3/15 19:27	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1927

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

Sample Name: FTMM-22-CW1MW27-12.63
Lab Code: R1502204-016

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:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1325
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 20:02
Sample Name:	FTMM-22-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1502204-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1325
Date Received: 3/31/15
Date Analyzed: 4/3/15 20:02

Sample Name: FTMM-22-CW1MW28-11.21
Lab Code: R1502204-017

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**2.0**	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	75-120	4/3/15 20:02	
Dibromofluoromethane	108	85-115	4/3/15 20:02	
Toluene-d8	106	85-120	4/3/15 20:02	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 2002

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

Sample Name: FTMM-22-CW1MW28-11.21
Lab Code: R1502204-017

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1320
Date Received: 3/31/15
Date Analyzed: 4/7/15 16:26

Sample Name: FTMM-22-CW1MW281-33.74
Lab Code: R1502204-018

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
Dilution Factor: 2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	
79-00-5	1,1,2-Trichloroethane	ND	U	13	2.5	0.86	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	13	2.5	1.5	
563-58-6	1,1-Dichloropropene	ND	U	13	2.5	0.73	
87-61-6	1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	
96-18-4	1,2,3-Trichloropropane	ND	U	13	2.5	1.8	
120-82-1	1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	
95-63-6	1,2,4-Trimethylbenzene	ND	U	13	2.5	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	
106-93-4	1,2-Dibromoethane	ND	U	13	2.5	0.60	
95-50-1	1,2-Dichlorobenzene	ND	U	13	2.5	0.53	
107-06-2	1,2-Dichloroethane	ND	U	13	2.5	0.90	
78-87-5	1,2-Dichloropropane	ND	U	13	2.5	0.50	
108-67-8	1,3,5-Trimethylbenzene	ND	U	13	2.5	0.50	
541-73-1	1,3-Dichlorobenzene	ND	U	13	2.5	0.50	
142-28-9	1,3-Dichloropropane	ND	U	13	2.5	0.68	
106-46-7	1,4-Dichlorobenzene	ND	U	13	2.5	0.50	
594-20-7	2,2-Dichloropropane	ND	U	13	2.5	0.68	
78-93-3	2-Butanone (MEK)	ND	U	13	2.5	2.1	
95-49-8	2-Chlorotoluene	ND	U	13	2.5	0.50	
591-78-6	2-Hexanone	ND	U	13	13	4.2	
75-65-0	tert-Butyl Alcohol	ND	U	250	50	27	
106-43-4	4-Chlorotoluene	ND	U	13	2.5	0.60	
99-87-6	p-Isopropyltoluene	ND	U	13	2.5	0.50	
108-10-1	4-Methyl-2-pentanone	ND	U	13	2.5	1.7	
67-64-1	Acetone	ND	U	13	13	3.1	
71-43-2	Benzene	ND	U	13	2.5	0.50	
108-86-1	Bromobenzene	ND	U	13	2.5	0.71	
74-97-5	Bromochloromethane	ND	U	13	2.5	0.80	
75-27-4	Bromodichloromethane	ND	U	13	2.5	0.80	
75-25-2	Bromoform	ND	U	13	2.5	1.1	
74-83-9	Bromomethane	ND	U	13	2.5	0.73	
56-23-5	Carbon Tetrachloride	ND	U	13	2.5	1.2	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1320
Date Received: 3/31/15
Date Analyzed: 4/7/15 16:26

Sample Name: FTMM-22-CW1MW281-33.74
Lab Code: R1502204-018

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
Dilution Factor: 2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	13	2.5	0.73	
75-00-3	Chloroethane	ND	U	13	2.5	0.60	
67-66-3	Chloroform	ND	U	13	2.5	0.63	
74-87-3	Chloromethane	ND	U	13	2.5	0.53	
124-48-1	Dibromochloromethane	ND	U	13	2.5	0.78	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	
75-09-2	Methylene Chloride	ND	U	13	2.5	1.5	
100-41-4	Ethylbenzene	ND	U	13	2.5	0.50	
87-68-3	Hexachlorobutadiene	ND	U	13	2.5	1.6	
98-82-8	Isopropylbenzene (Cumene)	ND	U	13	2.5	0.50	
1634-04-4	Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	
91-20-3	Naphthalene	ND	U	13	2.5	0.50	
100-42-5	Styrene	ND	U	13	2.5	0.50	
127-18-4	Tetrachloroethene (PCE)	**0.90**	**J**	13	2.5	0.75	
108-88-3	Toluene	ND	U	13	2.5	0.50	
79-01-6	Trichloroethene (TCE)	**250**		13	2.5	0.55	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	
75-01-4	Vinyl Chloride	**1.4**	**J**	13	2.5	0.80	
156-59-2	cis-1,2-Dichloroethene	**16**		13	2.5	0.75	
10061-01-5	cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	
179601-23-1	m,p-Xylenes	ND	U	25	5.0	0.83	
104-51-8	n-Butylbenzene	ND	U	13	2.5	0.53	
103-65-1	n-Propylbenzene	ND	U	13	2.5	0.50	
95-47-6	o-Xylene	ND	U	13	2.5	0.50	
135-98-8	sec-Butylbenzene	ND	U	13	2.5	0.68	
98-06-6	tert-Butylbenzene	ND	U	13	2.5	0.50	
156-60-5	trans-1,2-Dichloroethene	ND	U	13	2.5	0.83	
10061-02-6	trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	75-120	4/7/15 16:26	
Dibromofluoromethane	106	85-115	4/7/15 16:26	
Toluene-d8	109	85-120	4/7/15 16:26	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/7/15 1626

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

Sample Name:	FTMM-22-CW1MW281-33.74	**Units:**	µg/L
Lab Code:	R1502204-018	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/15 13:42

Sample Name: Method Blank
Lab Code: RQ1503200-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/2/15 13:42
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503200-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	75-120	4/2/15 13:42	
Dibromofluoromethane	110	85-115	4/2/15 13:42	
Toluene-d8	111	85-120	4/2/15 13:42	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/2/15 1342

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503200-04	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

ALS Group USA, Corp. dba ALS Environmental

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/3/15 12:20
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503202-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D\	**Instrument Name:**	R-MS-07
		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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/3/15 12:20
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503202-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 12:20	
Dibromofluoromethane	109	85-115	4/3/15 12:20	
Toluene-d8	111	85-120	4/3/15 12:20	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/3/15 1220

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503202-04	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/15 12:53

Sample Name: Method Blank
Lab Code: RQ1503305-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

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Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/7/15 12:53
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503305-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439385
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/7/15 12:53	
Dibromofluoromethane	110	85-115	4/7/15 12:53	
Toluene-d8	111	85-120	4/7/15 12:53	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/7/15 1253

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503305-04	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

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Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/ 2/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-699MW06-10.2MS			FTMM-53-699MW06-10.2DMS					
		Matrix Spike RQ1503200-05			Duplicate Matrix Spike RQ1503200-06					
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	55.0	50.0	110	53.7	50.0	107	80 - 130	2	30
1,1,1-Trichloroethane (TCA)	ND	50.2	50.0	100	49.3	50.0	99	65 - 130	2	30
1,1,2,2-Tetrachloroethane	ND	51.8	50.0	104	51.6	50.0	103	65 - 130	<1	30
1,1,2-Trichloroethane	ND	48.4	50.0	97	48.4	50.0	97	75 - 125	<1	30
1,1-Dichloroethane (1,1-DCA)	ND	43.2	50.0	86	45.6	50.0	91	70 - 135	5	30
1,1-Dichloroethene (1,1-DCE)	ND	43.2	50.0	86	43.2	50.0	86	70 - 130	<1	30
1,1-Dichloropropene	ND	47.6	50.0	95	47.8	50.0	96	75 - 130	<1	30
1,2,3-Trichlorobenzene	ND	50.7	50.0	101	50.7	50.0	101	75 - 125	<1	30
1,2,3-Trichloropropane	ND	50.3	50.0	101	49.2	50.0	98	75 - 125	2	30
1,2,4-Trichlorobenzene	ND	51.0	50.0	102	50.8	50.0	102	65 - 135	<1	30
1,2,4-Trimethylbenzene	ND	51.2	50.0	102	46.3	50.0	92	75 - 130	10	30
1,2-Dibromo-3-chloropropane (DBC	ND	52.1	50.0	104	52.2	50.0	104	50 - 130	<1	30
1,2-Dibromoethane	ND	52.7	50.0	105	52.6	50.0	105	80 - 120	<1	30
1,2-Dichlorobenzene	ND	51.1	50.0	102	49.5	50.0	99	70 - 120	3	30
1,2-Dichloroethane	ND	52.5	50.0	105	53.0	50.0	106	70 - 130	<1	30
1,2-Dichloropropane	ND	47.3	50.0	95	47.6	50.0	95	75 - 125	<1	30
1,3,5-Trimethylbenzene	ND	49.5	50.0	99	43.8	50.0	88	75 - 130	12	30
1,3-Dichlorobenzene	ND	49.9	50.0	100	48.8	50.0	98	75 - 125	2	30
1,3-Dichloropropane	ND	51.2	50.0	102	51.0	50.0	102	75 - 125	<1	30
1,4-Dichlorobenzene	ND	49.8	50.0	100	49.1	50.0	98	75 - 125	1	30
2,2-Dichloropropane	ND	42.2	50.0	84	41.2	50.0	82	70 - 135	2	30
2-Butanone (MEK)	ND	38.3	50.0	77	42.5	50.0	85	30 - 150	10	30
2-Chlorotoluene	ND	50.2	50.0	100	48.7	50.0	97	75 - 125	3	30
2-Hexanone	ND	48.0	50.0	96	50.9	50.0	102	55 - 130	6	30
tert-Butyl Alcohol	ND	1010	1000	101	1120	1000	112	50 - 150	11	30
4-Chlorotoluene	ND	50.8	50.0	102	49.7	50.0	99	75 - 130	2	30
p-Isopropyltoluene	ND	51.0	50.0	102	48.4	50.0	97	75 - 130	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/ 2/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-699MW06-10.2MS			FTMM-53-699MW06-10.2DMS					
		Matrix Spike RQ1503200-05			Duplicate Matrix Spike RQ1503200-06					
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone	ND	48.7	50.0	97	51.5	50.0	103	60 - 135	5	30
Acetone	1.6	34.5	50.0	66	37.7	50.0	72	40 - 140	9	30
Benzene	ND	46.9	50.0	94	46.3	50.0	93	80 - 120	1	30
Bromobenzene	ND	52.0	50.0	104	51.1	50.0	102	75 - 125	2	30
Bromochloromethane	ND	44.9	50.0	90	44.8	50.0	90	65 - 130	<1	30
Bromodichloromethane	ND	51.1	50.0	102	50.6	50.0	101	75 - 120	<1	30
Bromoform	ND	53.0	50.0	106	52.5	50.0	105	70 - 130	<1	30
Bromomethane	ND	37.2	50.0	74	38.3	50.0	77	30 - 145	3	30
Carbon Tetrachloride	ND	49.9	50.0	100	49.2	50.0	98	65 - 140	1	30
Chlorobenzene	ND	51.0	50.0	102	50.4	50.0	101	80 - 120	1	30
Chloroethane	ND	40.9	50.0	82	39.8	50.0	80	60 - 135	3	30
Chloroform	ND	47.6	50.0	95	46.4	50.0	93	65 - 135	3	30
Chloromethane	ND	45.9	50.0	92	44.1	50.0	88	40 - 125	4	30
Dibromochloromethane	ND	49.6	50.0	99	49.0	50.0	98	60 - 135	1	30
Dichlorodifluoromethane (CFC 12)	ND	50.0	50.0	100	49.0	50.0	98	30 - 155	2	30
Methylene Chloride	ND	42.4	50.0	85	41.4	50.0	83	55 - 140	2	30
Ethylbenzene	ND	48.0	50.0	96	46.9	50.0	94	75 - 125	2	30
Hexachlorobutadiene	ND	50.7	50.0	101	49.2	50.0	98	50 - 140	3	30
Isopropylbenzene (Cumene)	ND	53.2	50.0	106	51.2	50.0	102	75 - 125	4	30
Methyl tert-Butyl Ether	ND	49.2	50.0	98	48.8	50.0	98	65 - 125	<1	30
Naphthalene	ND	51.1	50.0	102	50.6	50.0	101	55 - 140	1	30
Styrene	ND	48.4	50.0	97	43.3	50.0	87	65 - 135	11	30
Tetrachloroethene (PCE)	ND	51.5	50.0	103	51.2	50.0	102	45 - 150	<1	30
Toluene	ND	51.1	50.0	102	49.7	50.0	99	75 - 120	3	30
Trichloroethene (TCE)	ND	49.4	50.0	99	47.4	50.0	95	70 - 125	4	30
Trichlorofluoromethane (CFC 11)	ND	47.2	50.0	94	46.9	50.0	94	60 - 145	<1	30
Vinyl Chloride	ND	48.2	50.0	96	48.2	50.0	96	50 - 145	<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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/ 2/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-699MW06-10.2MS			FTMM-53-699MW06-10.2DMS					
		Matrix Spike RQ1503200-05			Duplicate Matrix Spike RQ1503200-06					
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND	44.4	50.0	89	44.1	50.0	88	70 - 125	<1	30
cis-1,3-Dichloropropene	ND	47.7	50.0	95	47.1	50.0	94	70 - 130	1	30
m,p-Xylenes	ND	102	100	102	97.6	100	98	75 - 130	4	30
n-Butylbenzene	ND	48.3	50.0	97	47.3	50.0	94	70 - 135	2	30
n-Propylbenzene	ND	49.8	50.0	100	48.0	50.0	96	70 - 130	4	30
o-Xylene	ND	50.0	50.0	100	48.3	50.0	97	80 - 120	3	30
sec-Butylbenzene	ND	49.2	50.0	98	47.8	50.0	96	70 - 125	3	30
tert-Butylbenzene	ND	50.0	50.0	100	48.6	50.0	97	70 - 130	3	30
trans-1,2-Dichloroethene	ND	43.7	50.0	87	42.7	50.0	85	60 - 140	2	30
trans-1,3-Dichloropropene	ND	52.0	50.0	104	50.6	50.0	101	55 - 140	3	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 2/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 438870

Lab Control Sample
RQ1503200-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	22.7	20.0	113	80 - 130
1,1,1-Trichloroethane (TCA)	22.0	20.0	110	65 - 130
1,1,2,2-Tetrachloroethane	20.1	20.0	100	65 - 130
1,1,2-Trichloroethane	20.2	20.0	101	75 - 125
1,1-Dichloroethane (1,1-DCA)	18.7	20.0	93	70 - 135
1,1-Dichloroethene (1,1-DCE)	17.3	20.0	86	70 - 130
1,1-Dichloropropene	20.0	20.0	100	75 - 130
1,2,3-Trichlorobenzene	22.2	20.0	111	75 - 125
1,2,3-Trichloropropane	22.1	20.0	110	75 - 125
1,2,4-Trichlorobenzene	22.9	20.0	115	65 - 135
1,2,4-Trimethylbenzene	22.1	20.0	111	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	22.9	20.0	115	50 - 130
1,2-Dibromoethane	21.3	20.0	106	80 - 120
1,2-Dichlorobenzene	21.3	20.0	106	70 - 120
1,2-Dichloroethane	23.5	20.0	118	70 - 130
1,2-Dichloropropane	19.1	20.0	96	75 - 125
1,3,5-Trimethylbenzene	22.2	20.0	111	75 - 130
1,3-Dichlorobenzene	20.9	20.0	105	75 - 125
1,3-Dichloropropane	20.5	20.0	103	75 - 125
1,4-Dichlorobenzene	20.5	20.0	102	75 - 125
2,2-Dichloropropane	21.7	20.0	108	70 - 135
2-Butanone (MEK)	19.3	20.0	97	30 - 150
2-Chlorotoluene	21.6	20.0	108	75 - 125
2-Hexanone	22.7	20.0	114	55 - 130
tert-Butyl Alcohol	505	400	126	50 - 150
4-Chlorotoluene	22.1	20.0	110	75 - 130
p-Isopropyltoluene	22.0	20.0	110	75 - 130
4-Methyl-2-pentanone	21.7	20.0	109	60 - 135
Acetone	20.7	20.0	103	40 - 140
Benzene	19.2	20.0	96	80 - 120
Bromobenzene	21.1	20.0	105	75 - 125
Bromochloromethane	17.6	20.0	88	65 - 130
Bromodichloromethane	22.8	20.0	114	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/2/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 438870

Lab Control Sample
RQ1503200-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	24.1	20.0	121	70 - 130
Bromomethane	15.8	20.0	79	30 - 145
Carbon Tetrachloride	22.7	20.0	113	65 - 140
Chlorobenzene	20.6	20.0	103	80 - 120
Chloroethane	15.7	20.0	78	60 - 135
Chloroform	20.3	20.0	101	65 - 135
Chloromethane	18.4	20.0	92	40 - 125
Dibromochloromethane	22.1	20.0	111	60 - 135
Dichlorodifluoromethane (CFC 12)	21.5	20.0	108	30 - 155
Methylene Chloride	17.2	20.0	86	55 - 140
Ethylbenzene	20.4	20.0	102	75 - 125
Hexachlorobutadiene	26.4	20.0	132	50 - 140
Isopropylbenzene (Cumene)	22.5	20.0	112	75 - 125
Methyl tert-Butyl Ether	21.0	20.0	105	65 - 125
Naphthalene	22.1	20.0	110	55 - 140
Styrene	21.1	20.0	106	65 - 135
Tetrachloroethene (PCE)	21.5	20.0	107	45 - 150
Toluene	20.8	20.0	104	75 - 120
Trichloroethene (TCE)	20.5	20.0	102	70 - 125
Trichlorofluoromethane (CFC 11)	20.8	20.0	104	60 - 145
Vinyl Chloride	19.5	20.0	97	50 - 145
cis-1,2-Dichloroethene	18.2	20.0	91	70 - 125
cis-1,3-Dichloropropene	20.4	20.0	102	70 - 130
m,p-Xylenes	42.7	40.0	107	75 - 130
n-Butylbenzene	22.0	20.0	110	70 - 135
n-Propylbenzene	21.5	20.0	108	70 - 130
o-Xylene	21.0	20.0	105	80 - 120
sec-Butylbenzene	21.2	20.0	106	70 - 125
tert-Butylbenzene	21.5	20.0	108	70 - 130
trans-1,2-Dichloroethene	17.4	20.0	87	60 - 140
trans-1,3-Dichloropropene	23.0	20.0	115	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/3/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439004

Lab Control Sample
RQ1503202-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	23.2	20.0	116	80 - 130
1,1,1-Trichloroethane (TCA)	21.9	20.0	109	65 - 130
1,1,2,2-Tetrachloroethane	20.5	20.0	102	65 - 130
1,1,2-Trichloroethane	19.6	20.0	98	75 - 125
1,1-Dichloroethane (1,1-DCA)	19.5	20.0	98	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	93	70 - 130
1,1-Dichloropropene	20.7	20.0	104	75 - 130
1,2,3-Trichlorobenzene	22.6	20.0	113	75 - 125
1,2,3-Trichloropropane	20.2	20.0	101	75 - 125
1,2,4-Trichlorobenzene	23.3	20.0	116	65 - 135
1,2,4-Trimethylbenzene	22.3	20.0	112	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	19.5	20.0	97	50 - 130
1,2-Dibromoethane	21.4	20.0	107	80 - 120
1,2-Dichlorobenzene	21.5	20.0	107	70 - 120
1,2-Dichloroethane	22.6	20.0	113	70 - 130
1,2-Dichloropropane	20.2	20.0	101	75 - 125
1,3,5-Trimethylbenzene	22.3	20.0	111	75 - 130
1,3-Dichlorobenzene	21.8	20.0	109	75 - 125
1,3-Dichloropropane	21.4	20.0	107	75 - 125
1,4-Dichlorobenzene	21.4	20.0	107	75 - 125
2,2-Dichloropropane	21.0	20.0	105	70 - 135
2-Butanone (MEK)	19.1	20.0	95	30 - 150
2-Chlorotoluene	21.6	20.0	108	75 - 125
2-Hexanone	20.9	20.0	104	55 - 130
tert-Butyl Alcohol	461	400	115	50 - 150
4-Chlorotoluene	21.9	20.0	110	75 - 130
p-Isopropyltoluene	22.1	20.0	111	75 - 130
4-Methyl-2-pentanone	20.0	20.0	100	60 - 135
Acetone	17.7	20.0	89	40 - 140
Benzene	19.8	20.0	99	80 - 120
Bromobenzene	21.8	20.0	109	75 - 125
Bromochloromethane	19.5	20.0	97	65 - 130
Bromodichloromethane	22.5	20.0	113	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/3/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439004

Lab Control Sample
RQ1503202-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	24.8	20.0	124	70 - 130
Bromomethane	16.7	20.0	83	30 - 145
Carbon Tetrachloride	22.2	20.0	111	65 - 140
Chlorobenzene	21.8	20.0	109	80 - 120
Chloroethane	18.2	20.0	91	60 - 135
Chloroform	21.1	20.0	105	65 - 135
Chloromethane	20.4	20.0	102	40 - 125
Dibromochloromethane	22.0	20.0	110	60 - 135
Dichlorodifluoromethane (CFC 12)	21.3	20.0	107	30 - 155
Methylene Chloride	17.7	20.0	89	55 - 140
Ethylbenzene	20.7	20.0	104	75 - 125
Hexachlorobutadiene	24.2	20.0	121	50 - 140
Isopropylbenzene (Cumene)	22.6	20.0	113	75 - 125
Methyl tert-Butyl Ether	20.6	20.0	103	65 - 125
Naphthalene	22.3	20.0	111	55 - 140
Styrene	21.8	20.0	109	65 - 135
Tetrachloroethene (PCE)	22.1	20.0	110	45 - 150
Toluene	22.0	20.0	110	75 - 120
Trichloroethene (TCE)	21.4	20.0	107	70 - 125
Trichlorofluoromethane (CFC 11)	20.5	20.0	103	60 - 145
Vinyl Chloride	20.4	20.0	102	50 - 145
cis-1,2-Dichloroethene	19.0	20.0	95	70 - 125
cis-1,3-Dichloropropene	20.7	20.0	103	70 - 130
m,p-Xylenes	44.1	40.0	110	75 - 130
n-Butylbenzene	21.7	20.0	108	70 - 135
n-Propylbenzene	21.7	20.0	108	70 - 130
o-Xylene	21.4	20.0	107	80 - 120
sec-Butylbenzene	21.4	20.0	107	70 - 125
tert-Butylbenzene	21.7	20.0	108	70 - 130
trans-1,2-Dichloroethene	19.2	20.0	96	60 - 140
trans-1,3-Dichloropropene	22.2	20.0	111	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 7/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439385

Analyte Name	Lab Control Sample RQ1503305-03 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	22.2	20.0	111	80 - 130
1,1,1-Trichloroethane (TCA)	19.8	20.0	99	65 - 130
1,1,2,2-Tetrachloroethane	20.5	20.0	102	65 - 130
1,1,2-Trichloroethane	19.3	20.0	97	75 - 125
1,1-Dichloroethane (1,1-DCA)	18.6	20.0	93	70 - 135
1,1-Dichloroethene (1,1-DCE)	17.1	20.0	85	70 - 130
1,1-Dichloropropene	19.1	20.0	95	75 - 130
1,2,3-Trichlorobenzene	22.1	20.0	110	75 - 125
1,2,3-Trichloropropane	19.8	20.0	99	75 - 125
1,2,4-Trichlorobenzene	22.1	20.0	111	65 - 135
1,2,4-Trimethylbenzene	21.4	20.0	107	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	21.4	20.0	107	50 - 130
1,2-Dibromoethane	21.3	20.0	107	80 - 120
1,2-Dichlorobenzene	20.9	20.0	105	70 - 120
1,2-Dichloroethane	21.6	20.0	108	70 - 130
1,2-Dichloropropane	18.9	20.0	94	75 - 125
1,3,5-Trimethylbenzene	21.1	20.0	106	75 - 130
1,3-Dichlorobenzene	20.7	20.0	104	75 - 125
1,3-Dichloropropane	20.5	20.0	102	75 - 125
1,4-Dichlorobenzene	20.9	20.0	105	75 - 125
2,2-Dichloropropane	19.1	20.0	96	70 - 135
2-Butanone (MEK)	16.6	20.0	83	30 - 150
2-Chlorotoluene	20.6	20.0	103	75 - 125
2-Hexanone	21.7	20.0	108	55 - 130
tert-Butyl Alcohol	437	400	109	50 - 150
4-Chlorotoluene	21.8	20.0	109	75 - 130
p-Isopropyltoluene	21.3	20.0	106	75 - 130
4-Methyl-2-pentanone	21.1	20.0	105	60 - 135
Acetone	18.5	20.0	93	40 - 140
Benzene	18.9	20.0	95	80 - 120
Bromobenzene	20.9	20.0	104	75 - 125
Bromochloromethane	18.1	20.0	90	65 - 130
Bromodichloromethane	21.0	20.0	105	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 7/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439385

Lab Control Sample
RQ1503305-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	24.2	20.0	121	70 - 130
Bromomethane	15.7	20.0	78	30 - 145
Carbon Tetrachloride	20.8	20.0	104	65 - 140
Chlorobenzene	21.3	20.0	106	80 - 120
Chloroethane	15.1	20.0	76	60 - 135
Chloroform	18.9	20.0	94	65 - 135
Chloromethane	18.2	20.0	91	40 - 125
Dibromochloromethane	22.6	20.0	113	60 - 135
Dichlorodifluoromethane (CFC 12)	19.2	20.0	96	30 - 155
Methylene Chloride	16.8	20.0	84	55 - 140
Ethylbenzene	20.0	20.0	100	75 - 125
Hexachlorobutadiene	25.0	20.0	125	50 - 140
Isopropylbenzene (Cumene)	21.7	20.0	108	75 - 125
Methyl tert-Butyl Ether	19.2	20.0	96	65 - 125
Naphthalene	20.6	20.0	103	55 - 140
Styrene	20.8	20.0	104	65 - 135
Tetrachloroethene (PCE)	21.6	20.0	108	45 - 150
Toluene	21.2	20.0	106	75 - 120
Trichloroethene (TCE)	20.1	20.0	100	70 - 125
Trichlorofluoromethane (CFC 11)	18.9	20.0	95	60 - 145
Vinyl Chloride	19.4	20.0	97	50 - 145
cis-1,2-Dichloroethene	18.2	20.0	91	70 - 125
cis-1,3-Dichloropropene	19.5	20.0	97	70 - 130
m,p-Xylenes	41.9	40.0	105	75 - 130
n-Butylbenzene	21.0	20.0	105	70 - 135
n-Propylbenzene	21.0	20.0	105	70 - 130
o-Xylene	20.9	20.0	104	80 - 120
sec-Butylbenzene	21.0	20.0	105	70 - 125
tert-Butylbenzene	21.2	20.0	106	70 - 130
trans-1,2-Dichloroethene	17.2	20.0	86	60 - 140
trans-1,3-Dichloropropene	21.3	20.0	107	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.

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April 13, 2015

Analytical Report for Service Request No: R1502204

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

Laboratory Results for: FTMM 2015 Q1 GW Sampling/748810-03000

Dear Sandra:

Enclosed are the results of the sample(s) submitted to our laboratory on March 31, 2015. For your reference, these analyses have been assigned our service request number **R1502204.**

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

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

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

Parsons, Inc.
R1502204

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SDG NARRATIVE

ALS Environmental - Rochester, NY
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ALS Environmental

Client:	Parsons, Inc.
Service Request No.:	R1502204
Project:	FTMM 2015 Q1 GW Sampling
Date Received:	3/31/15
Sample Matrix:	Water
Project/Case No.:	

CASE NARRATIVE

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

Sample Receipt

Water samples were received for analysis at ALS Environmental on 3/31/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

General Comments

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

Volatile Organics

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

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

All Tuning criteria for BFB were and within QC limits.

Internal Standard Areas were within QC limits.

All the initial calibration criteria were met for all analytes except Dichlorodifluoromethane and Acetone were not within the DoD limits but were within the limits specified by the method. As no data was affected by this, the data was accepted. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Bromomethane and Chloroethane on the 04/02/15 CCV, Acetone and Bromoform on the 04/03/15 CCV and Bromoform, Bromomethane, Chloroethane, Dichlorodifluoromethane and Methylene chloride on the 04/07/15 CCV. No data was affected.

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

The Blank Spike (LCS) recoveries were all acceptable.

Service Request #R1502204
Page 2

A Matrix Spike/Matrix spike duplicate (MS/MSD) was performed on FTMM-53-699MW06-10.2 as requested. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for FTMM-53-699RW05-10.0 have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

The Method Blanks associated with these samples were free of contamination.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #:	748810-03000	Batch Complete:	Yes	Date Revised:	
Submission:	R1502204	Diskette Requested:	No	Date Due:	4/21/15
Client:	Parsons Engineering Science	Date:	4/7/15	Protocol:	SW846
Client Rep:	JJAEGER	Custody Seal: Present/Absent:		Shipping No.:	
Project:	FTMM 2015 Q1 GW Sampling	Chain of Custody: Present/Absent:		SDG #:	FTMM-TB-03302015

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1502204-001	FTMM-TB-03302015	Water	8260C	3/30/15	3/31/15			
R1502204-002	FTMM-68-565MW01D-22.31	Water	8260C	3/30/15	3/31/15			
R1502204-003	FTMM-68-565MW01-11.99	Water	8260C	3/30/15	3/31/15			
R1502204-004	FTMM-53-699RW05-10.0	Water	8260C	3/30/15	3/31/15			
R1502204-004.R01	FTMM-53-699RW05-10.0	Water	8260C	3/30/15	3/31/15			
R1502204-005	FTMM-53-699MW01-7.5	Water	8260C	3/30/15	3/31/15			
R1502204-006	FTMM-53-699MW09-7.75	Water	8260C	3/30/15	3/31/15			
R1502204-007	FTMM-53-699MW16-7.5	Water	8260C	3/30/15	3/31/15			
R1502204-008QC	FTMM-53-699MW06-10.2	Water	8260C	3/30/15	3/31/15			
R1502204-009	FTMM-53-699MW106-10.2	Water	8260C	3/30/15	3/31/15			
R1502204-010	FTMM-53-699MW04-8.0	Water	8260C	3/30/15	3/31/15			
R1502204-011	FTMM-53-699RW11-8.3	Water	8260C	3/30/15	3/31/15			
R1502204-012	FTMM-53-699RW03-8.2	Water	8260C	3/30/15	3/31/15			
R1502204-013	FTMM-22-CW1MW29-10.85	Water	8260C	3/30/15	3/31/15			
R1502204-014	FTMM-22-CW1MW37-11.78	Water	8260C	3/30/15	3/31/15			
R1502204-015	FTMM-22-CW1MW31-16.4	Water	8260C	3/30/15	3/31/15			
R1502204-016	FTMM-22-CW1MW27-12.63	Water	8260C	3/30/15	3/31/15			
R1502204-017	FTMM-22-CW1MW28-11.21	Water	8260C	3/30/15	3/31/15			
R1502204-018	FTMM-22-CW1MW281-33.74	Water	8260C	3/30/15	3/31/15			

Folder Comments: DoD reporting

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

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

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

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

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

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

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

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

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

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

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

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

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

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

C Confirmed by GC/MS

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

X See Case Narrative for discussion.

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

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

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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00007

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24473

ALS Environmental

SD 4/6/15

2015 Q1

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PAGE 1 OF 2

Project Name: FTMM ~~2014-Q4~~ GW Sampling	Project Number: 148810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIorno	Sampler's Printed Name: Alex DiIorno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	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-TB-03302015		3/30/15		TB	3	X							
FTMM-68-565MW01D-~~22.31~~		3/30/15	0950	GW	3	X							
FTMM-68-565MW01-11.99		3/30/15	0945	GW	3	X							
FTMM-53-699RW05-10.0		3/30/15	1000	GW	3	X							
FTMM-53-699MW01-7.5		3/30/15	1005	GW	3	X							
FTMM-53-699MW09-7.75		3/30/15	1015	GW	3	X							
FTMM-53-699MW16-7.5		3/30/15	1020	GW	3	X							
FTMM-53-699MW06-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW06-MS-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW06-MSD-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW106-10.2		3/30/15	1200	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: New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIorno	Signature:	Signature:	Signature:	Signature:	
Printed Name: Alex DiIorno	Printed Name: JSeward	Printed Name:	Printed Name:	Printed Name:	
Firm: Parsons	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 3/30/15; 1715	Date/Time: 3/31/15 0825	Date/Time:	Date/Time:	Date/Time:	

R1502204 5
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FTMM Baseline

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24473

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: FTMM 2014 Q4 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIonno	Sampler's Printed Name: Alex DiIonno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs • 8260 • 624 • CLP	GCMS 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-TB-03302015		3/30/15		TB	3	X							
FTMM-68-565MW010-22.31		3/30/15	0950	GW	3	X							
FTMM-68-565MW01-11.99		3/30/15	0945	GW	3	X							
FTMM-53-699RW05-10.0		3/30/15	1000	GW	3	X							
FTMM-53-699MW01-7.5		3/30/15	1005	GW	3	X							
FTMM-53-699MW09-7.75		3/30/15	1015	GW	3	X							
FTMM-53-699MW16-7.5		3/30/15	1020	GW	3	X							
FTMM-53-699MW06-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW06-MS-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW06-MSD-10.2		3/30/15	1025	GW	3	X							
FTMM-53-699MW06-10.2		3/30/15	1200	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: New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature: J Seward	Signature	Signature	Signature	Signature
Printed Name: Alex DiIonno	Printed Name: J Seward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 3/30/15; 1715	Date/Time: 3/31/15 0825	Date/Time	Date/Time	Date/Time	Date/Time

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Parsons, Inc.
FTMM Baseline

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24475

2015 Q1 1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: FTMM 2014-Q4 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIonno	Sampler's Printed Name: Alex DiIonno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCAMS VOAs • 8260 • 624 • CLP	GCAMS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
FTMM-53-699MW04-8.0		3/30/15	1035	GW	3	X							
FTMM-53-699RW11-8.3		3/30/15	1040	GW	3	X							
FTMM-53-699RW03-8.2		3/30/15	1050	GW	3	X							
FTMM-22-CW1MW29-10.85		3/30/15	1345	GW	3	X							
FTMM-22-CW1MW37-11.78		3/30/15	1340	GW	3	X							
FTMM-22-CW1MW31-16.4		3/30/15	1335	GW	3	X							
FTMM-22-CW1MW27-12.63		3/30/15	1330	GW	3	X							
FTMM-22-CW1MW28-11.21		3/30/15	1325	GW	3	X							
FTMM-22-CW1MW28I-33.79		3/30/15	1320	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 ☐

STATE WHERE SAMPLES WERE COLLECTED: New Jersey

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:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature: J. Sandoval	Signature	Signature	Signature	Signature
Printed Name: Alex DiIonno	Printed Name: J. Sandoval	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 3/30/15 1715	Date/Time: 3/31/15 0825	Date/Time	Date/Time	Date/Time	Date/Time

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

24475

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: FTMM 2014 Q4 GW Sampling	Project Number: 748810-03000
Project Manager: Cris Grill	Report CC:
Company/Address: 100 High Street, 4th Floor, Boston, MA 02110	
Phone #: (617) 449-1583	Email: Cris.Grill@parsons.com
Sampler's Signature: Alex DiIonno	Sampler's Printed Name: Alex DiIonno

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

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

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs ○ 8260 ○ 624 ○ CLP	GCMS 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-53-699MW04-8.0		3/30/15	1035	GW	3	X							
FTMM-53-699RW11-8.3		3/30/15	1040	GW	3	X							
FTMM-53-699RW03-8.2		3/30/15	1050	GW	3	X							
FTMM-22-CW1MW29-10.85		3/30/15	1345	GW	3	X							
FTMM-22-CW1MW37-11.78		3/30/15	1340	GW	3	X							
FTMM-22-CW1MW31-16.4		3/30/15	1335	GW	3	X							
FTMM-22-CW1MW27-12.63		3/30/15	1330	GW	3	X							
FTMM-22-CW1MW28-11.21		3/30/15	1325	GW	3	X							
FTMM-22-CW1MW28I-33.79		3/30/15	1320	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: New Jersey

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Alex DiIonno	Signature: J. Seward	Signature	Signature	Signature	Signature
Printed Name: Alex DiIonno	Printed Name: J. Seward	Printed Name	Printed Name	Printed Name	
Firm: Parsons	Firm: ALS	Firm	Firm	Firm	
Date/Time: 3/30/15 1715	Date/Time: 3/31/15 0825	Date/Time	Date/Time	Date/Time	

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

R1502204 5
Parsons, Inc.
FTMM Baseline

R1502204 5
Parsons, Inc.
FTMM Baseline

Cooler Receipt and Preservation Check Form

Project/Client Parsons Folder Number R1502204

Cooler received on 3/31/15 by: JTS 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: 3/31/15 Time: 0826 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	1.2						
Correction Factor (°C)	-0.4						
Corrected Temp (°C)	0.8						
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: ROOM by JS on 3/31/15 at 0828
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 3/31/15

Cooler Breakdown: Date: 3-31-15 Time: 18:45 by: M

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	**	**	4114050	02/16				

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

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

Bottle lot numbers: 4-258-007

Other Comments:

PC Secondary Review: JMS 3/31/15

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Parsons, Inc.
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1502204-001.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1540	In Lab / KRUEST	
		4/2/15	1547	R-001-S07 / BWOJTASIEWICZ	
R1502204-001.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-001.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-002.01					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1540	In Lab / KRUEST	
		4/2/15	1547	R-001-S07 / BWOJTASIEWICZ	
R1502204-002.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-002.03					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/7/15	1357	In Lab / KRUEST	
		4/7/15	1414	R-001-S07 / BWOJTASIEWICZ	
R1502204-003.01					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1540	In Lab / KRUEST	
		4/2/15	1547	R-001-S07 / BWOJTASIEWICZ	
R1502204-003.02					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-003.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	

00013

Chain of Custody Report

Client: Parsons, Inc.
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Service Request: R1502204

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1502204-004.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1540	In Lab / KRUEST	
		4/2/15	1547	R-001-S07 / BWOJTASIEWICZ	
R1502204-004.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/3/15	1332	In Lab / KRUEST	
R1502204-004.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-005.01					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1540	In Lab / KRUEST	
		4/2/15	1547	R-001-S07 / BWOJTASIEWICZ	
R1502204-005.02					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-005.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-006.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-006.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-006.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-007.01					

Client: Parsons, Inc.
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Service Request: R1502204

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-007.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-007.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-008.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1540	In Lab / KRUEST	
		4/2/15	1547	R-001-S07 / BWOJTASIEWICZ	
R1502204-008.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-008.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-008.04					
		3/31/15	1236	SMO / GLAFORCE	
		3/31/15	1236	R-001 / GLAFORCE	
R1502204-008.05					
		3/31/15	1236	SMO / GLAFORCE	
		3/31/15	1236	R-001 / GLAFORCE	
R1502204-008.06					
		3/31/15	1236	SMO / GLAFORCE	
		3/31/15	1236	R-001 / GLAFORCE	
R1502204-008.07					
		3/31/15	1236	SMO / GLAFORCE	
		3/31/15	1236	R-001 / GLAFORCE	
R1502204-008.08					
		3/31/15	1236	SMO / GLAFORCE	
		3/31/15	1236	R-001 / GLAFORCE	
R1502204-008.09					

Chain of Custody Report

Client: Parsons, Inc.
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Service Request: R1502204

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		3/31/15	1236	SMO / GLAFORCE	
		3/31/15	1236	R-001 / GLAFORCE	
R1502204-009.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-009.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-009.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-010.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-010.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-010.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-011.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-011.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-011.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	

Client: Parsons, Inc. **Service Request:** R1502204
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1502204-012.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-012.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-012.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-013.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-013.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-013.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-014.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-014.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-014.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-015.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Parsons, Inc. **Service Request:** R1502204
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-015.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-015.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-016.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-016.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-016.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-017.01					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-017.02					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-017.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
R1502204-018.01					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/2/15	1538	R-001-S07 / BWOJTASIEWICZ	
		4/3/15	1332	In Lab / KRUEST	

Client: Parsons, Inc.
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		4/3/15	1342	R-001-S07 / KRUEST	
R1502204-018.02					
	8260C				
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	
		4/7/15	1357	In Lab / KRUEST	
		4/7/15	1414	R-001-S07 / BWOJTASIEWICZ	
R1502204-018.03					
		3/31/15	1221	SMO / JSEWARD	
		3/31/15	1221	R-001 / JSEWARD	

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
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RIGHT SOLUTIONS | RIGHT PARTNER

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/ 2/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-699MW06-10.2MS			FTMM-53-699MW06-10.2DMS					
		Matrix Spike RQ1503200-05			Duplicate Matrix Spike RQ1503200-06					
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND	55.0	50.0	110	53.7	50.0	107	80 - 130	2	30
1,1,1-Trichloroethane (TCA)	ND	50.2	50.0	100	49.3	50.0	99	65 - 130	2	30
1,1,2,2-Tetrachloroethane	ND	51.8	50.0	104	51.6	50.0	103	65 - 130	<1	30
1,1,2-Trichloroethane	ND	48.4	50.0	97	48.4	50.0	97	75 - 125	<1	30
1,1-Dichloroethane (1,1-DCA)	ND	43.2	50.0	86	45.6	50.0	91	70 - 135	5	30
1,1-Dichloroethene (1,1-DCE)	ND	43.2	50.0	86	43.2	50.0	86	70 - 130	<1	30
1,1-Dichloropropene	ND	47.6	50.0	95	47.8	50.0	96	75 - 130	<1	30
1,2,3-Trichlorobenzene	ND	50.7	50.0	101	50.7	50.0	101	75 - 125	<1	30
1,2,3-Trichloropropane	ND	50.3	50.0	101	49.2	50.0	98	75 - 125	2	30
1,2,4-Trichlorobenzene	ND	51.0	50.0	102	50.8	50.0	102	65 - 135	<1	30
1,2,4-Trimethylbenzene	ND	51.2	50.0	102	46.3	50.0	92	75 - 130	10	30
1,2-Dibromo-3-chloropropane (DBC	ND	52.1	50.0	104	52.2	50.0	104	50 - 130	<1	30
1,2-Dibromoethane	ND	52.7	50.0	105	52.6	50.0	105	80 - 120	<1	30
1,2-Dichlorobenzene	ND	51.1	50.0	102	49.5	50.0	99	70 - 120	3	30
1,2-Dichloroethane	ND	52.5	50.0	105	53.0	50.0	106	70 - 130	<1	30
1,2-Dichloropropane	ND	47.3	50.0	95	47.6	50.0	95	75 - 125	<1	30
1,3,5-Trimethylbenzene	ND	49.5	50.0	99	43.8	50.0	88	75 - 130	12	30
1,3-Dichlorobenzene	ND	49.9	50.0	100	48.8	50.0	98	75 - 125	2	30
1,3-Dichloropropane	ND	51.2	50.0	102	51.0	50.0	102	75 - 125	<1	30
1,4-Dichlorobenzene	ND	49.8	50.0	100	49.1	50.0	98	75 - 125	1	30
2,2-Dichloropropane	ND	42.2	50.0	84	41.2	50.0	82	70 - 135	2	30
2-Butanone (MEK)	ND	38.3	50.0	77	42.5	50.0	85	30 - 150	10	30
2-Chlorotoluene	ND	50.2	50.0	100	48.7	50.0	97	75 - 125	3	30
2-Hexanone	ND	48.0	50.0	96	50.9	50.0	102	55 - 130	6	30
tert-Butyl Alcohol	ND	1010	1000	101	1120	1000	112	50 - 150	11	30
4-Chlorotoluene	ND	50.8	50.0	102	49.7	50.0	99	75 - 130	2	30
p-Isopropyltoluene	ND	51.0	50.0	102	48.4	50.0	97	75 - 130	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/ 2/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-699MW06-10.2MS			FTMM-53-699MW06-10.2DMS				
		Matrix Spike RQ1503200-05			Duplicate Matrix Spike RQ1503200-06				
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone	ND	48.7	50.0	97	51.5	50.0	103	60 - 135	5	30
Acetone	1.6	34.5	50.0	66	37.7	50.0	72	40 - 140	9	30
Benzene	ND	46.9	50.0	94	46.3	50.0	93	80 - 120	1	30
Bromobenzene	ND	52.0	50.0	104	51.1	50.0	102	75 - 125	2	30
Bromochloromethane	ND	44.9	50.0	90	44.8	50.0	90	65 - 130	<1	30
Bromodichloromethane	ND	51.1	50.0	102	50.6	50.0	101	75 - 120	<1	30
Bromoform	ND	53.0	50.0	106	52.5	50.0	105	70 - 130	<1	30
Bromomethane	ND	37.2	50.0	74	38.3	50.0	77	30 - 145	3	30
Carbon Tetrachloride	ND	49.9	50.0	100	49.2	50.0	98	65 - 140	1	30
Chlorobenzene	ND	51.0	50.0	102	50.4	50.0	101	80 - 120	1	30
Chloroethane	ND	40.9	50.0	82	39.8	50.0	80	60 - 135	3	30
Chloroform	ND	47.6	50.0	95	46.4	50.0	93	65 - 135	3	30
Chloromethane	ND	45.9	50.0	92	44.1	50.0	88	40 - 125	4	30
Dibromochloromethane	ND	49.6	50.0	99	49.0	50.0	98	60 - 135	1	30
Dichlorodifluoromethane (CFC 12)	ND	50.0	50.0	100	49.0	50.0	98	30 - 155	2	30
Methylene Chloride	ND	42.4	50.0	85	41.4	50.0	83	55 - 140	2	30
Ethylbenzene	ND	48.0	50.0	96	46.9	50.0	94	75 - 125	2	30
Hexachlorobutadiene	ND	50.7	50.0	101	49.2	50.0	98	50 - 140	3	30
Isopropylbenzene (Cumene)	ND	53.2	50.0	106	51.2	50.0	102	75 - 125	4	30
Methyl tert-Butyl Ether	ND	49.2	50.0	98	48.8	50.0	98	65 - 125	<1	30
Naphthalene	ND	51.1	50.0	102	50.6	50.0	101	55 - 140	1	30
Styrene	ND	48.4	50.0	97	43.3	50.0	87	65 - 135	11	30
Tetrachloroethene (PCE)	ND	51.5	50.0	103	51.2	50.0	102	45 - 150	<1	30
Toluene	ND	51.1	50.0	102	49.7	50.0	99	75 - 120	3	30
Trichloroethene (TCE)	ND	49.4	50.0	99	47.4	50.0	95	70 - 125	4	30
Trichlorofluoromethane (CFC 11)	ND	47.2	50.0	94	46.9	50.0	94	60 - 145	<1	30
Vinyl Chloride	ND	48.2	50.0	96	48.2	50.0	96	50 - 145	<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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

		FTMM-53-699MW06-10.2MS			FTMM-53-699MW06-10.2DMS					
		Matrix Spike RQ1503200-05			Duplicate Matrix Spike RQ1503200-06					
Analyte Name	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND	44.4	50.0	89	44.1	50.0	88	70 - 125	<1	30
cis-1,3-Dichloropropene	ND	47.7	50.0	95	47.1	50.0	94	70 - 130	1	30
m,p-Xylenes	ND	102	100	102	97.6	100	98	75 - 130	4	30
n-Butylbenzene	ND	48.3	50.0	97	47.3	50.0	94	70 - 135	2	30
n-Propylbenzene	ND	49.8	50.0	100	48.0	50.0	96	70 - 130	4	30
o-Xylene	ND	50.0	50.0	100	48.3	50.0	97	80 - 120	3	30
sec-Butylbenzene	ND	49.2	50.0	98	47.8	50.0	96	70 - 125	3	30
tert-Butylbenzene	ND	50.0	50.0	100	48.6	50.0	97	70 - 130	3	30
trans-1,2-Dichloroethene	ND	43.7	50.0	87	42.7	50.0	85	60 - 140	2	30
trans-1,3-Dichloropropene	ND	52.0	50.0	104	50.6	50.0	101	55 - 140	3	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 2/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 438870

Analyte Name	Lab Control Sample RQ1503200-03 Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	22.7	20.0	113	80 - 130
1,1,1-Trichloroethane (TCA)	22.0	20.0	110	65 - 130
1,1,2,2-Tetrachloroethane	20.1	20.0	100	65 - 130
1,1,2-Trichloroethane	20.2	20.0	101	75 - 125
1,1-Dichloroethane (1,1-DCA)	18.7	20.0	93	70 - 135
1,1-Dichloroethene (1,1-DCE)	17.3	20.0	86	70 - 130
1,1-Dichloropropene	20.0	20.0	100	75 - 130
1,2,3-Trichlorobenzene	22.2	20.0	111	75 - 125
1,2,3-Trichloropropane	22.1	20.0	110	75 - 125
1,2,4-Trichlorobenzene	22.9	20.0	115	65 - 135
1,2,4-Trimethylbenzene	22.1	20.0	111	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	22.9	20.0	115	50 - 130
1,2-Dibromoethane	21.3	20.0	106	80 - 120
1,2-Dichlorobenzene	21.3	20.0	106	70 - 120
1,2-Dichloroethane	23.5	20.0	118	70 - 130
1,2-Dichloropropane	19.1	20.0	96	75 - 125
1,3,5-Trimethylbenzene	22.2	20.0	111	75 - 130
1,3-Dichlorobenzene	20.9	20.0	105	75 - 125
1,3-Dichloropropane	20.5	20.0	103	75 - 125
1,4-Dichlorobenzene	20.5	20.0	102	75 - 125
2,2-Dichloropropane	21.7	20.0	108	70 - 135
2-Butanone (MEK)	19.3	20.0	97	30 - 150
2-Chlorotoluene	21.6	20.0	108	75 - 125
2-Hexanone	22.7	20.0	114	55 - 130
tert-Butyl Alcohol	505	400	126	50 - 150
4-Chlorotoluene	22.1	20.0	110	75 - 130
p-Isopropyltoluene	22.0	20.0	110	75 - 130
4-Methyl-2-pentanone	21.7	20.0	109	60 - 135
Acetone	20.7	20.0	103	40 - 140
Benzene	19.2	20.0	96	80 - 120
Bromobenzene	21.1	20.0	105	75 - 125
Bromochloromethane	17.6	20.0	88	65 - 130
Bromodichloromethane	22.8	20.0	114	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 2/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 438870

Lab Control Sample
RQ1503200-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	24.1	20.0	121	70 - 130
Bromomethane	15.8	20.0	79	30 - 145
Carbon Tetrachloride	22.7	20.0	113	65 - 140
Chlorobenzene	20.6	20.0	103	80 - 120
Chloroethane	15.7	20.0	78	60 - 135
Chloroform	20.3	20.0	101	65 - 135
Chloromethane	18.4	20.0	92	40 - 125
Dibromochloromethane	22.1	20.0	111	60 - 135
Dichlorodifluoromethane (CFC 12)	21.5	20.0	108	30 - 155
Methylene Chloride	17.2	20.0	86	55 - 140
Ethylbenzene	20.4	20.0	102	75 - 125
Hexachlorobutadiene	26.4	20.0	132	50 - 140
Isopropylbenzene (Cumene)	22.5	20.0	112	75 - 125
Methyl tert-Butyl Ether	21.0	20.0	105	65 - 125
Naphthalene	22.1	20.0	110	55 - 140
Styrene	21.1	20.0	106	65 - 135
Tetrachloroethene (PCE)	21.5	20.0	107	45 - 150
Toluene	20.8	20.0	104	75 - 120
Trichloroethene (TCE)	20.5	20.0	102	70 - 125
Trichlorofluoromethane (CFC 11)	20.8	20.0	104	60 - 145
Vinyl Chloride	19.5	20.0	97	50 - 145
cis-1,2-Dichloroethene	18.2	20.0	91	70 - 125
cis-1,3-Dichloropropene	20.4	20.0	102	70 - 130
m,p-Xylenes	42.7	40.0	107	75 - 130
n-Butylbenzene	22.0	20.0	110	70 - 135
n-Propylbenzene	21.5	20.0	108	70 - 130
o-Xylene	21.0	20.0	105	80 - 120
sec-Butylbenzene	21.2	20.0	106	70 - 125
tert-Butylbenzene	21.5	20.0	108	70 - 130
trans-1,2-Dichloroethene	17.4	20.0	87	60 - 140
trans-1,3-Dichloropropene	23.0	20.0	115	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 3/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439004

Lab Control Sample
RQ1503202-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	23.2	20.0	116	80 - 130
1,1,1-Trichloroethane (TCA)	21.9	20.0	109	65 - 130
1,1,2,2-Tetrachloroethane	20.5	20.0	102	65 - 130
1,1,2-Trichloroethane	19.6	20.0	98	75 - 125
1,1-Dichloroethane (1,1-DCA)	19.5	20.0	98	70 - 135
1,1-Dichloroethene (1,1-DCE)	18.7	20.0	93	70 - 130
1,1-Dichloropropene	20.7	20.0	104	75 - 130
1,2,3-Trichlorobenzene	22.6	20.0	113	75 - 125
1,2,3-Trichloropropane	20.2	20.0	101	75 - 125
1,2,4-Trichlorobenzene	23.3	20.0	116	65 - 135
1,2,4-Trimethylbenzene	22.3	20.0	112	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	19.5	20.0	97	50 - 130
1,2-Dibromoethane	21.4	20.0	107	80 - 120
1,2-Dichlorobenzene	21.5	20.0	107	70 - 120
1,2-Dichloroethane	22.6	20.0	113	70 - 130
1,2-Dichloropropane	20.2	20.0	101	75 - 125
1,3,5-Trimethylbenzene	22.3	20.0	111	75 - 130
1,3-Dichlorobenzene	21.8	20.0	109	75 - 125
1,3-Dichloropropane	21.4	20.0	107	75 - 125
1,4-Dichlorobenzene	21.4	20.0	107	75 - 125
2,2-Dichloropropane	21.0	20.0	105	70 - 135
2-Butanone (MEK)	19.1	20.0	95	30 - 150
2-Chlorotoluene	21.6	20.0	108	75 - 125
2-Hexanone	20.9	20.0	104	55 - 130
tert-Butyl Alcohol	461	400	115	50 - 150
4-Chlorotoluene	21.9	20.0	110	75 - 130
p-Isopropyltoluene	22.1	20.0	111	75 - 130
4-Methyl-2-pentanone	20.0	20.0	100	60 - 135
Acetone	17.7	20.0	89	40 - 140
Benzene	19.8	20.0	99	80 - 120
Bromobenzene	21.8	20.0	109	75 - 125
Bromochloromethane	19.5	20.0	97	65 - 130
Bromodichloromethane	22.5	20.0	113	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 3/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439004

Lab Control Sample
RQ1503202-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	24.8	20.0	124	70 - 130
Bromomethane	16.7	20.0	83	30 - 145
Carbon Tetrachloride	22.2	20.0	111	65 - 140
Chlorobenzene	21.8	20.0	109	80 - 120
Chloroethane	18.2	20.0	91	60 - 135
Chloroform	21.1	20.0	105	65 - 135
Chloromethane	20.4	20.0	102	40 - 125
Dibromochloromethane	22.0	20.0	110	60 - 135
Dichlorodifluoromethane (CFC 12)	21.3	20.0	107	30 - 155
Methylene Chloride	17.7	20.0	89	55 - 140
Ethylbenzene	20.7	20.0	104	75 - 125
Hexachlorobutadiene	24.2	20.0	121	50 - 140
Isopropylbenzene (Cumene)	22.6	20.0	113	75 - 125
Methyl tert-Butyl Ether	20.6	20.0	103	65 - 125
Naphthalene	22.3	20.0	111	55 - 140
Styrene	21.8	20.0	109	65 - 135
Tetrachloroethene (PCE)	22.1	20.0	110	45 - 150
Toluene	22.0	20.0	110	75 - 120
Trichloroethene (TCE)	21.4	20.0	107	70 - 125
Trichlorofluoromethane (CFC 11)	20.5	20.0	103	60 - 145
Vinyl Chloride	20.4	20.0	102	50 - 145
cis-1,2-Dichloroethene	19.0	20.0	95	70 - 125
cis-1,3-Dichloropropene	20.7	20.0	103	70 - 130
m,p-Xylenes	44.1	40.0	110	75 - 130
n-Butylbenzene	21.7	20.0	108	70 - 135
n-Propylbenzene	21.7	20.0	108	70 - 130
o-Xylene	21.4	20.0	107	80 - 120
sec-Butylbenzene	21.4	20.0	107	70 - 125
tert-Butylbenzene	21.7	20.0	108	70 - 130
trans-1,2-Dichloroethene	19.2	20.0	96	60 - 140
trans-1,3-Dichloropropene	22.2	20.0	111	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 7/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439385

Lab Control Sample
RQ1503305-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	22.2	20.0	111	80 - 130
1,1,1-Trichloroethane (TCA)	19.8	20.0	99	65 - 130
1,1,2,2-Tetrachloroethane	20.5	20.0	102	65 - 130
1,1,2-Trichloroethane	19.3	20.0	97	75 - 125
1,1-Dichloroethane (1,1-DCA)	18.6	20.0	93	70 - 135
1,1-Dichloroethene (1,1-DCE)	17.1	20.0	85	70 - 130
1,1-Dichloropropene	19.1	20.0	95	75 - 130
1,2,3-Trichlorobenzene	22.1	20.0	110	75 - 125
1,2,3-Trichloropropane	19.8	20.0	99	75 - 125
1,2,4-Trichlorobenzene	22.1	20.0	111	65 - 135
1,2,4-Trimethylbenzene	21.4	20.0	107	75 - 130
1,2-Dibromo-3-chloropropane (DBCP)	21.4	20.0	107	50 - 130
1,2-Dibromoethane	21.3	20.0	107	80 - 120
1,2-Dichlorobenzene	20.9	20.0	105	70 - 120
1,2-Dichloroethane	21.6	20.0	108	70 - 130
1,2-Dichloropropane	18.9	20.0	94	75 - 125
1,3,5-Trimethylbenzene	21.1	20.0	106	75 - 130
1,3-Dichlorobenzene	20.7	20.0	104	75 - 125
1,3-Dichloropropane	20.5	20.0	102	75 - 125
1,4-Dichlorobenzene	20.9	20.0	105	75 - 125
2,2-Dichloropropane	19.1	20.0	96	70 - 135
2-Butanone (MEK)	16.6	20.0	83	30 - 150
2-Chlorotoluene	20.6	20.0	103	75 - 125
2-Hexanone	21.7	20.0	108	55 - 130
tert-Butyl Alcohol	437	400	109	50 - 150
4-Chlorotoluene	21.8	20.0	109	75 - 130
p-Isopropyltoluene	21.3	20.0	106	75 - 130
4-Methyl-2-pentanone	21.1	20.0	105	60 - 135
Acetone	18.5	20.0	93	40 - 140
Benzene	18.9	20.0	95	80 - 120
Bromobenzene	20.9	20.0	104	75 - 125
Bromochloromethane	18.1	20.0	90	65 - 130
Bromodichloromethane	21.0	20.0	105	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 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/ 7/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 439385

Analyte Name	Lab Control Sample RQ1503305-03 Result	Spike Amount	% Rec	% Rec Limits
Bromoform	24.2	20.0	121	70 - 130
Bromomethane	15.7	20.0	78	30 - 145
Carbon Tetrachloride	20.8	20.0	104	65 - 140
Chlorobenzene	21.3	20.0	106	80 - 120
Chloroethane	15.1	20.0	76	60 - 135
Chloroform	18.9	20.0	94	65 - 135
Chloromethane	18.2	20.0	91	40 - 125
Dibromochloromethane	22.6	20.0	113	60 - 135
Dichlorodifluoromethane (CFC 12)	19.2	20.0	96	30 - 155
Methylene Chloride	16.8	20.0	84	55 - 140
Ethylbenzene	20.0	20.0	100	75 - 125
Hexachlorobutadiene	25.0	20.0	125	50 - 140
Isopropylbenzene (Cumene)	21.7	20.0	108	75 - 125
Methyl tert-Butyl Ether	19.2	20.0	96	65 - 125
Naphthalene	20.6	20.0	103	55 - 140
Styrene	20.8	20.0	104	65 - 135
Tetrachloroethene (PCE)	21.6	20.0	108	45 - 150
Toluene	21.2	20.0	106	75 - 120
Trichloroethene (TCE)	20.1	20.0	100	70 - 125
Trichlorofluoromethane (CFC 11)	18.9	20.0	95	60 - 145
Vinyl Chloride	19.4	20.0	97	50 - 145
cis-1,2-Dichloroethene	18.2	20.0	91	70 - 125
cis-1,3-Dichloropropene	19.5	20.0	97	70 - 130
m,p-Xylenes	41.9	40.0	105	75 - 130
n-Butylbenzene	21.0	20.0	105	70 - 135
n-Propylbenzene	21.0	20.0	105	70 - 130
o-Xylene	20.9	20.0	104	80 - 120
sec-Butylbenzene	21.0	20.0	105	70 - 125
tert-Butylbenzene	21.2	20.0	106	70 - 130
trans-1,2-Dichloroethene	17.2	20.0	86	60 - 140
trans-1,3-Dichloropropene	21.3	20.0	107	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.

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/2/15 13:42

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1503200-04
Instrument ID: R-MS-07
File ID: I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D\

Analytical Method: 8260C

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1503200-03	I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D\	4/2/15 12:31
FTMM-TB-03302015	R1502204-001	I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D\	4/2/15 19:01
FTMM-53-699RW05-10.0	R1502204-004	I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D\	4/2/15 20:48
FTMM-53-699MW06-10.2	R1502204-008	I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D\	4/2/15 21:58
FTMM-53-699MW06-10.2MS	RQ1503200-05	I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D\	4/2/15 22:34
FTMM-53-699MW06-10.2DMS	RQ1503200-06	I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D\	4/2/15 23:09

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Analyzed:**	4/3/15 12:20
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-07
Lab Code:	RQ1503202-04	**File ID:**	I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D\
Analytical Method:	8260C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1503202-03	I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D\	4/3/15 11:09
FTMM-53-699MW01-7.5	R1502204-005	I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D\	4/3/15 12:56
FTMM-68-565MW01-11.99	R1502204-003	I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D\	4/3/15 13:31
FTMM-53-699MW09-7.75	R1502204-006	I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D\	4/3/15 14:07
FTMM-53-699MW16-7.5	R1502204-007	I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D\	4/3/15 14:42
FTMM-53-699MW106-10.2	R1502204-009	I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D\	4/3/15 15:18
FTMM-53-699MW04-8.0	R1502204-010	I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D\	4/3/15 15:53
FTMM-53-699RW11-8.3	R1502204-011	I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D\	4/3/15 16:29
FTMM-53-699RW03-8.2	R1502204-012	I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D\	4/3/15 17:04
FTMM-22-CW1MW29-10.85	R1502204-013	I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D\	4/3/15 17:40
FTMM-22-CW1MW37-11.78	R1502204-014	I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D\	4/3/15 18:15
FTMM-22-CW1MW31-16.4	R1502204-015	I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D\	4/3/15 18:51
FTMM-22-CW1MW27-12.63	R1502204-016	I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D\	4/3/15 19:27
FTMM-22-CW1MW28-11.21	R1502204-017	I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D\	4/3/15 20:02
FTMM-53-699RW05-10.0DL	R1502204-004	I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D\	4/3/15 20:38

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Analyzed: 4/7/15 12:53

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1503305-04
Instrument ID: R-MS-07
File ID: I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D\

Analytical Method: 8260C

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1503305-03	I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D\	4/7/15 11:42
FTMM-68-565MW01D-22.31	R1502204-002	I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D\	4/7/15 15:50
FTMM-22-CW1MW281-33.74	R1502204-018	I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D\	4/7/15 16:26

QA/QC Report

Client: Parsons Engineering
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 03/23/15 13:30

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa7\data\032315\W0604.D\
Instrument ID: R-MS-07

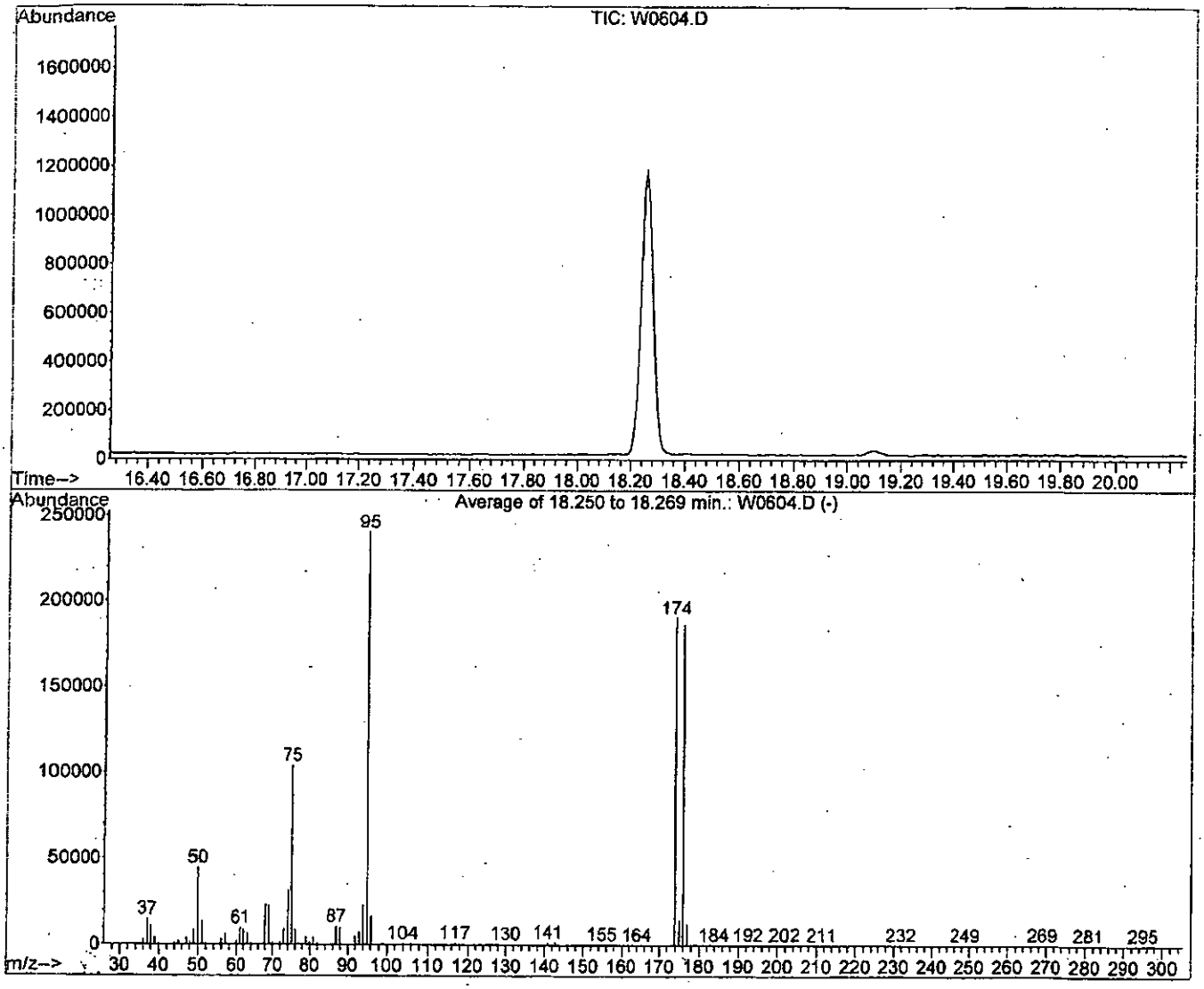
Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.5	44515	Pass
75	95	30	60	43.2	103831	Pass
95	95	100	100	100.0	240296	Pass
96	95	5	9	6.8	16459	Pass
173	174	0	2	0.2	442	Pass
174	95	50	120	79.2	190403	Pass
175	174	5	9	7.5	14297	Pass
176	174	95	101	97.9	186347	Pass
177	176	5	9	6.5	12104	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa7\data\032315\W0608A.D\	03/23/15 16:25	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa7\data\032315\W0608B.D\	03/23/15 17:00	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa7\data\032315\W0609.D\	03/23/15 17:35	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa7\data\032315\W0610.D\	03/23/15 18:10	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa7\data\032315\W0611.D\	03/23/15 18:45	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa7\data\032315\W0612.D\	03/23/15 19:20	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa7\data\032315\W0613.D\	03/23/15 19:55	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa7\data\032315\W0614.D\	03/23/15 20:30	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa7\data\032315\W0615.D\	03/23/15 21:04	

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0604.D Vial: 6
Acq On : 23 Mar 2015 1:30 pm Operator: K.Ruest
Sample : TUNE Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS

KF 3/23/15



AutoFind: Scans 1432, 1433, 1434; Background Corrected with Scan 1421

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	44515	PASS
75	95	30	60	43.2	103831	PASS
95	95	100	100	100.0	240296	PASS
96	95	5	9	6.8	16459	PASS
173	174	0.00	2	0.2	442	PASS
174	95	50	120	79.2	190403	PASS
175	174	5	9	7.5	14297	PASS
176	174	95	101	97.9	186347	PASS
177	176	5	9	6.5	12104	PASS

W0604.D W032315.M Mon Mar 23 14:37:26 2015

00034

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Service Request: R1502204
Date Analyzed: 4/2/15 11:18

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA7\DATA\040215\W0844.D\
Instrument ID: R-MS-07
Analytical Method: 8260C
Analysis Lot: 438870

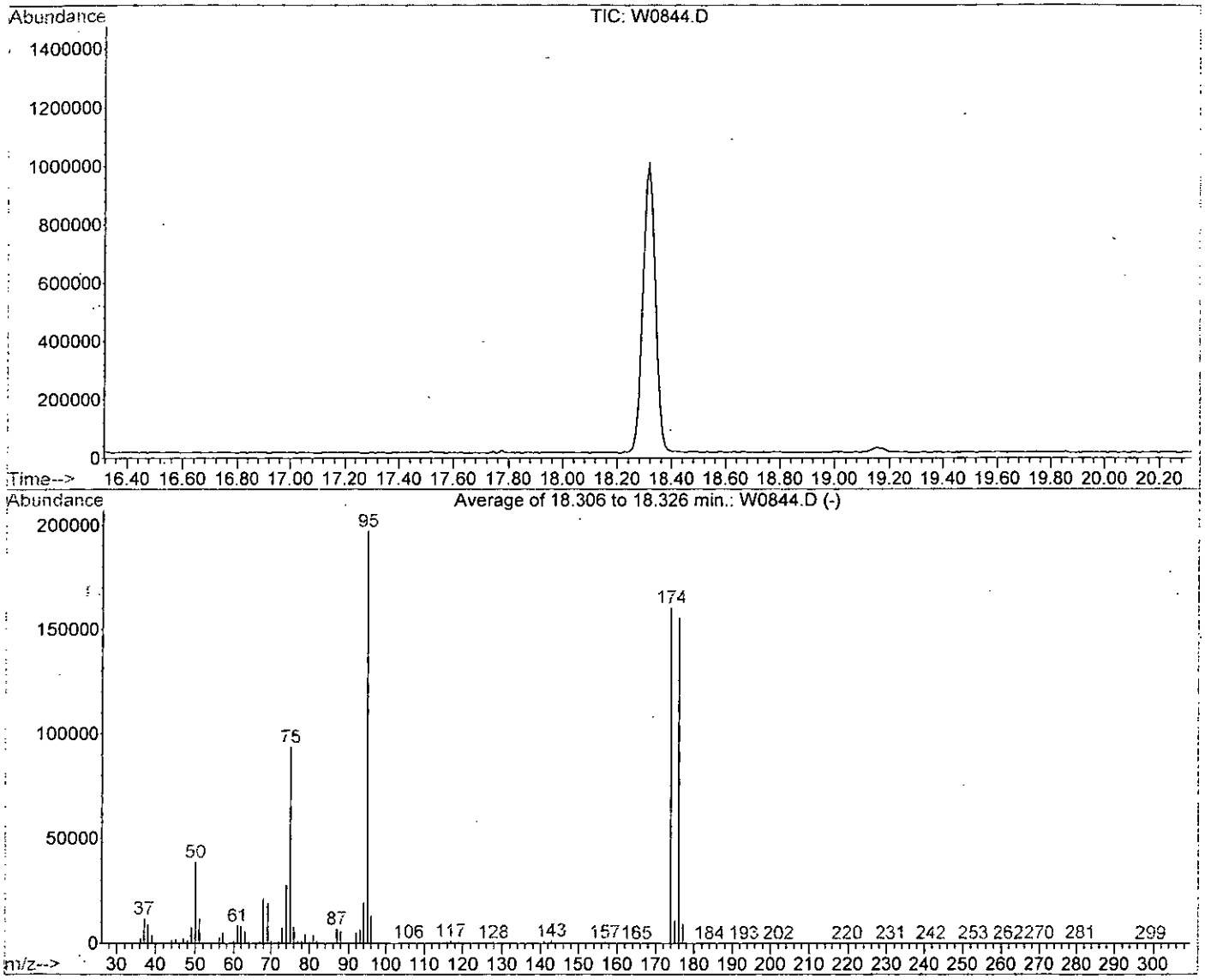
Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.60	38652	Pass
75	95	30	60	47.49	93661	Pass
95	95	100	100	100.00	197205	Pass
96	95	5	9	6.71	13239	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	81.33	160384	Pass
175	174	5	9	6.67	10700	Pass
176	174	95	101	97.03	155627	Pass
177	176	5	9	5.91	9194	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1503200-02	I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D\	4/2/15 11:55	
Lab Control Sample	RQ1503200-03	I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D\	4/2/15 12:31	
Method Blank	RQ1503200-04	I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D\	4/2/15 13:42	
FTMM-TB-03302015	R1502204-001	I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D\	4/2/15 19:01	
FTMM-53-699RW05-10.0	R1502204-004	I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D\	4/2/15 20:48	
FTMM-53-699MW06-10.2	R1502204-008	I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D\	4/2/15 21:58	
FTMM-53-699MW06-10.2MS	RQ1503200-05	I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D\	4/2/15 22:34	
FTMM-53-699MW06-10.2DMS	RQ1503200-06	I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D\	4/2/15 23:09	

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0844.D
Acq On : 2 Apr 2015 11:18 am
Sample : TUNE LQ1503163-01
Misc :
MS Integration Params: INTP2.P
Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS

Vial: 3
Operator: K.Ruest
Inst : MS #7
Multiplr: 1.00

4/2/15



AutoFind: Scans 1438, 1439, 1440; Background Corrected with Scan 1429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	38652	PASS
75	95	30	60	47.5	93661	PASS
95	95	100	100	100.0	197205	PASS
96	95	5	9	6.7	13239	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.3	160384	PASS
175	174	5	9	6.7	10700	PASS
176	174	95	101	97.0	155627	PASS
177	176	5	9	5.9	9194	PASS

00036

W0844.D W032315.M Thu Apr 02 13:20:29 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/3/15 09:56

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA7\DATA\040315\W0882.D\
Instrument ID: R-MS-07

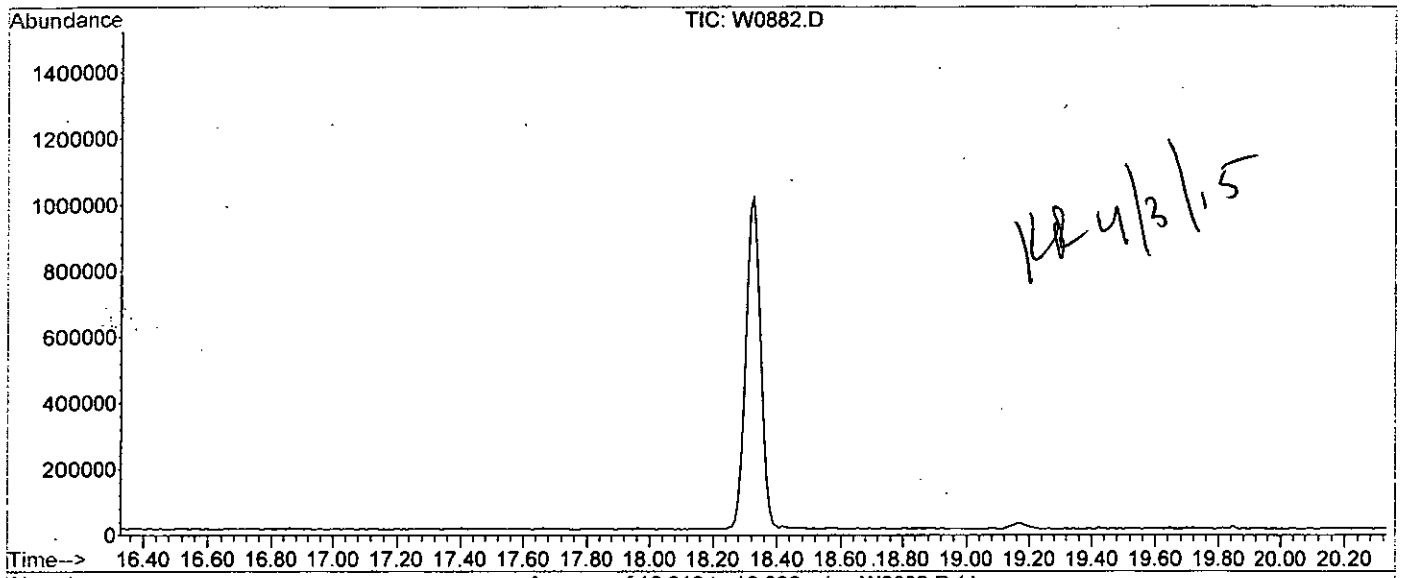
Analytical Method: 8260C
Analysis Lot: 439004

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.36	37026	Pass
75	95	30	60	44.43	89587	Pass
95	95	100	100	100.00	201624	Pass
96	95	5	9	6.51	13133	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	82.65	166635	Pass
175	174	5	9	7.36	12272	Pass
176	174	95	101	100.60	167637	Pass
177	176	5	9	6.26	10489	Pass

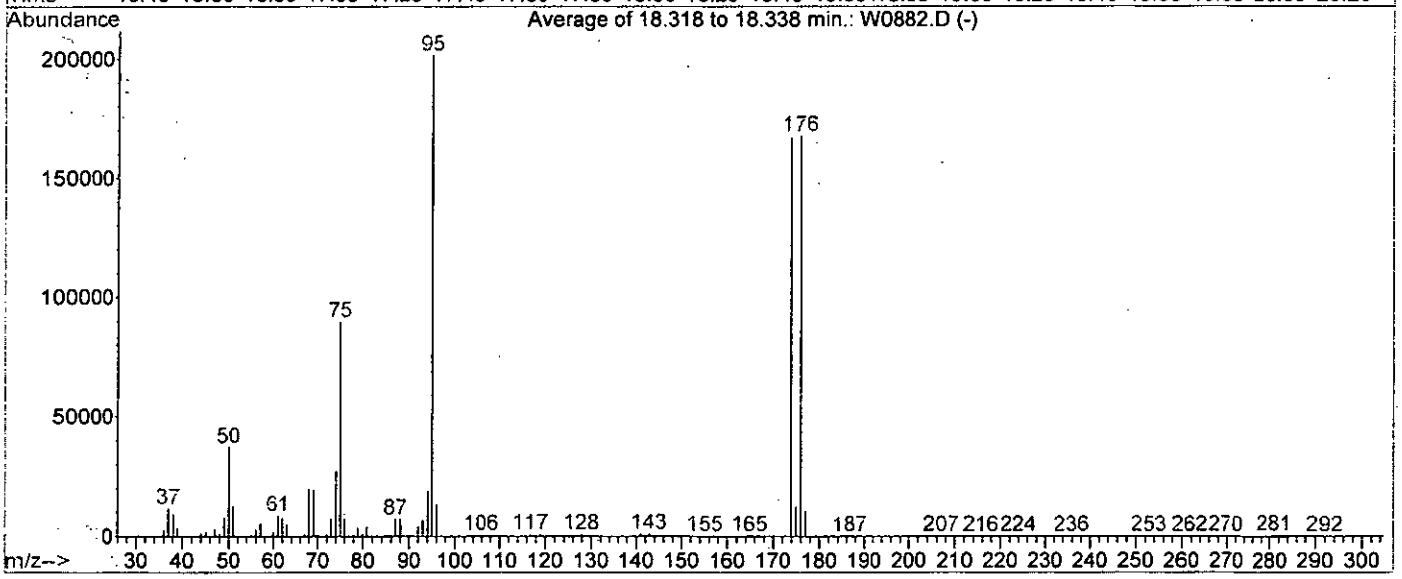
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1503202-02	I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D\	4/3/15 10:34	
Lab Control Sample	RQ1503202-03	I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D\	4/3/15 11:09	
Method Blank	RQ1503202-04	I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D\	4/3/15 12:20	
FTMM-53-699MW01-7.5	R1502204-005	I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D\	4/3/15 12:56	
FTMM-68-565MW01-11.99	R1502204-003	I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D\	4/3/15 13:31	
FTMM-53-699MW09-7.75	R1502204-006	I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D\	4/3/15 14:07	
FTMM-53-699MW16-7.5	R1502204-007	I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D\	4/3/15 14:42	
FTMM-53-699MW106-10.2	R1502204-009	I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D\	4/3/15 15:18	
FTMM-53-699MW04-8.0	R1502204-010	I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D\	4/3/15 15:53	
FTMM-53-699RW11-8.3	R1502204-011	I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D\	4/3/15 16:29	
FTMM-53-699RW03-8.2	R1502204-012	I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D\	4/3/15 17:04	
FTMM-22-CW1MW29-10.85	R1502204-013	I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D\	4/3/15 17:40	
FTMM-22-CW1MW37-11.78	R1502204-014	I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D\	4/3/15 18:15	
FTMM-22-CW1MW31-16.4	R1502204-015	I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D\	4/3/15 18:51	
FTMM-22-CW1MW27-12.63	R1502204-016	I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D\	4/3/15 19:27	
FTMM-22-CW1MW28-11.21	R1502204-017	I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D\	4/3/15 20:02	
FTMM-53-699RW05-10.0DL	R1502204-004	I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D\	4/3/15 20:38	

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0882.D
Acq On : 3 Apr 2015 9:56 am
Sample : TUNE LQ1503202-01
Misc :
MS Integration Params: INTP2.P
Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS

Vial: 2
Operator: K.Ruest
Inst : MS #7
Multiplr: 1.00



KR 4/3/15



AutoFind: Scans 1439, 1440, 1441; Background Corrected with Scan 1428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	37026	PASS
75	95	30	60	44.4	89587	PASS
95	95	100	100	100.0	201624	PASS
96	95	5	9	6.5	13133	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.6	166635	PASS
175	174	5	9	7.4	12272	PASS
176	174	95	101	100.6	167637	PASS
177	176	5	9	6.3	10489	PASS

W0882.D W032315.M Fri Apr 03 10:25:57 2015

00038

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/7/15 10:30

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA7\DATA\040715\W0908.D\
Instrument ID: R-MS-07

Analytical Method: 8260C
Analysis Lot: 439385

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.71	37623	Pass
75	95	30	60	42.97	82015	Pass
95	95	100	100	100.00	190871	Pass
96	95	5	9	6.51	12423	Pass
173	174	0	2	0.20	300	Pass
174	95	50	120	79.97	152645	Pass
175	174	5	9	7.34	11205	Pass
176	174	95	101	100.25	153025	Pass
177	176	5	9	6.84	10467	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1503305-02	I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D\	4/7/15 11:07	
Lab Control Sample	RQ1503305-03	I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D\	4/7/15 11:42	
Method Blank	RQ1503305-04	I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D\	4/7/15 12:53	
FTMM-68-565MW01D-22.31	R1502204-002	I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D\	4/7/15 15:50	
FTMM-22-CW1MW281-33.74	R1502204-018	I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D\	4/7/15 16:26	

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Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0908.D      Vial: 3
Acq On    :  7 Apr 2015  10:30 am                    Operator: K.Ruest
Sample    : TUNE RQ1503305-01                        Inst    : MS #7
Misc      :                                          Multiplr: 1.00
MS Integration Params: INTP2.P
Method    : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title     : 8260C.WATERS
```

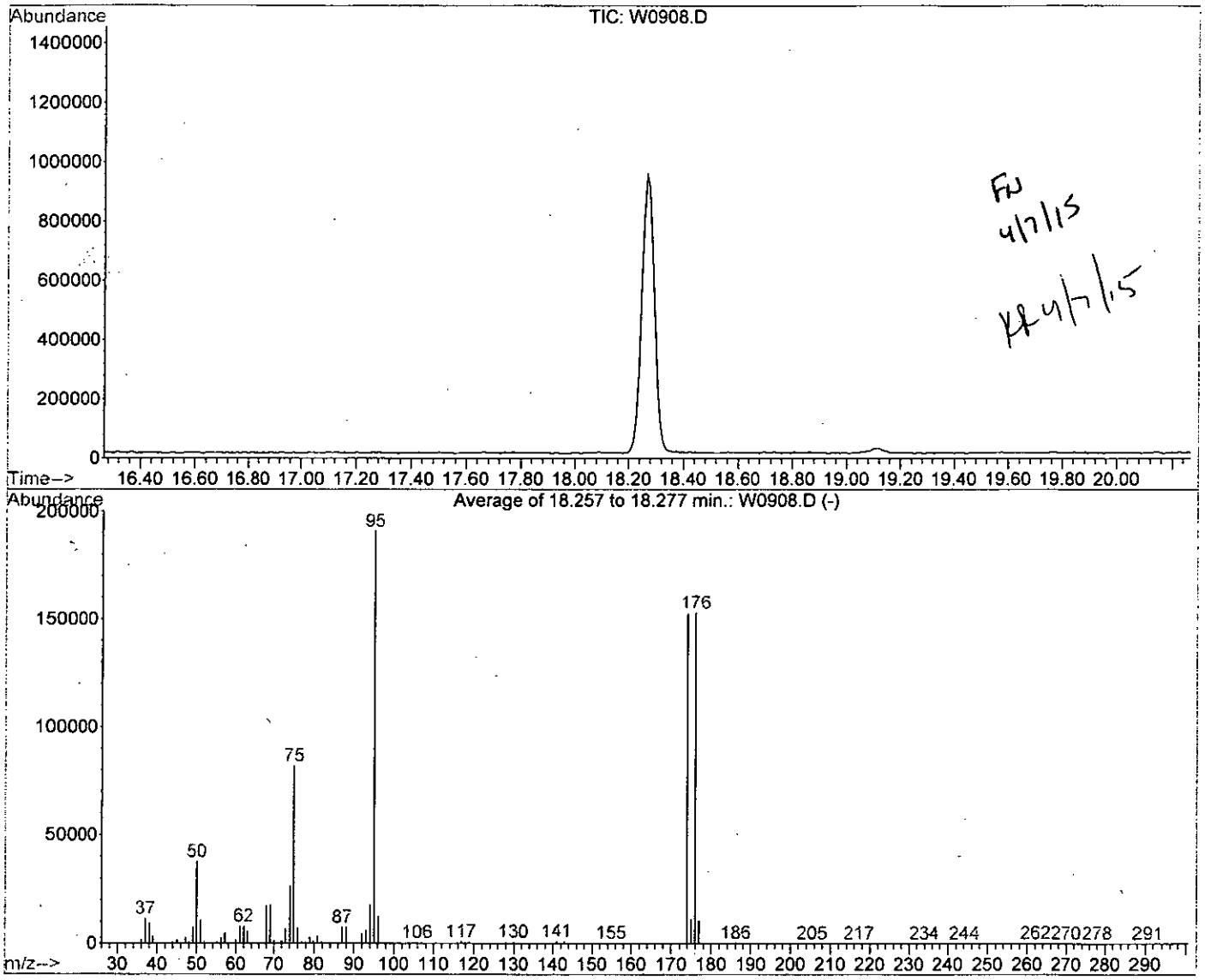

FW 4/7/15

KF 4/7/15

AutoFind: Scans 1433, 1434, 1435; Background Corrected with Scan 1425

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	37623	PASS
75	95	30	60	43.0	82015	PASS
95	95	100	100	100.0	190871	PASS
96	95	5	9	6.5	12423	PASS
173	174	0.00	2	0.2	300	PASS
174	95	50	120	80.0	152645	PASS
175	174	5	9	7.3	11205	PASS
176	174	95	101	100.2	153025	PASS
177	176	5	9	6.8	10467	PASS

W0908.D W032315.M Tue Apr 07 10:58:40 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/2/15 11:55

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

File ID: I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D\
Instrument ID: R-MS-07
Analytical Method: 8260C

Lab Code: RQ1503200-02
Analysis Lot: 438870
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	654,012	20.67	1,432,525	10.97	1,303,277	16.07
	Upper Limit ==>	1,308,024	21.17	2,865,050	11.47	2,606,554	16.57
	Lower Limit ==>	327,006	20.17	716,263	10.47	651,639	15.57
	ICAL Result ==>	820,886	20.61	1,763,697	10.92	1,662,584	16.02
Associated Analyses							
Lab Control Sample	RQ1503200-03	661,305	20.67	1,485,324	10.98	1,336,612	16.07
Method Blank	RQ1503200-04	648,030	20.68	1,488,215	10.98	1,312,899	16.08
FTMM-TB-03302015	R1502204-001	688,777	20.69	1,574,399	11.00	1,399,304	16.10
FTMM-53-699RW05-10.0	R1502204-004	728,552	20.69	1,600,493	11.00	1,464,612	16.10
FTMM-53-699MW06-10.2	R1502204-008	698,536	20.69	1,608,248	11.00	1,459,873	16.10
FTMM-53-699MW06-10.2MS	RQ1503200-05	718,048	20.69	1,587,008	11.00	1,432,827	16.10
FTMM-53-699MW06-10.2DMS	RQ1503200-06	731,081	20.69	1,591,793	10.99	1,443,313	16.10

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

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/2/15 11:55

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

File ID: I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D\
Instrument ID: R-MS-07
Analytical Method: 8260C

Lab Code: RQ1503200-02
Analysis Lot: 438870
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	939,227	9.79
	Upper Limit ==>	1,878,454	10.29
	Lower Limit ==>	469,614	9.29
	ICAL Result ==>	1,078,672	9.74
Associated Analyses			
Lab Control Sample	RQ1503200-03	979,115	9.79
Method Blank	RQ1503200-04	965,706	9.79
FTMM-TB-03302015	R1502204-001	1,027,295	9.80
FTMM-53-699RW05-10.0	R1502204-004	1,049,524	9.80
FTMM-53-699MW06-10.2	R1502204-008	1,046,214	9.80
FTMM-53-699MW06-10.2MS	RQ1503200-05	1,037,456	9.81
FTMM-53-699MW06-10.2DMS	RQ1503200-06	1,042,538	9.80

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

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/3/15 10:34

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

File ID: I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D\
Instrument ID: R-MS-07
Analytical Method: 8260C

Lab Code: RQ1503202-02
Analysis Lot: 439004
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	660,200	20.68	1,458,280	10.98	1,362,924	16.08
	Upper Limit ==>	1,320,400	21.18	2,916,560	11.48	2,725,848	16.58
	Lower Limit ==>	330,100	20.18	729,140	10.48	681,462	15.58
	ICAL Result ==>	820,886	20.61	1,763,697	10.92	1,662,584	16.02
Associated Analyses							
Lab Control Sample	RQ1503202-03	681,230	20.67	1,523,207	10.98	1,368,003	16.08
Method Blank	RQ1503202-04	673,306	20.68	1,508,280	10.98	1,364,838	16.08
FTMM-53-699MW01-7.5	R1502204-005	649,572	20.67	1,518,761	10.98	1,364,488	16.09
FTMM-68-565MW01-11.99	R1502204-003	680,946	20.67	1,506,653	10.98	1,351,774	16.08
FTMM-53-699MW09-7.75	R1502204-006	670,694	20.68	1,496,652	10.98	1,341,495	16.08
FTMM-53-699MW16-7.5	R1502204-007	655,322	20.68	1,503,901	10.98	1,358,752	16.09
FTMM-53-699MW106-10.2	R1502204-009	682,586	20.68	1,513,002	10.98	1,369,680	16.09
FTMM-53-699MW04-8.0	R1502204-010	667,315	20.68	1,475,905	10.99	1,335,861	16.10
FTMM-53-699RW11-8.3	R1502204-011	662,804	20.69	1,469,590	10.99	1,348,571	16.09
FTMM-53-699RW03-8.2	R1502204-012	661,452	20.68	1,506,110	10.99	1,344,513	16.09
FTMM-22-CW1MW29-10.85	R1502204-013	662,647	20.68	1,484,936	10.99	1,361,902	16.09
FTMM-22-CW1MW37-11.78	R1502204-014	673,925	20.68	1,457,079	10.98	1,345,803	16.10
FTMM-22-CW1MW31-16.4	R1502204-015	671,568	20.68	1,466,786	10.99	1,337,656	16.09
FTMM-22-CW1MW27-12.63	R1502204-016	678,525	20.68	1,460,051	10.98	1,348,449	16.09
FTMM-22-CW1MW28-11.21	R1502204-017	677,524	20.68	1,453,849	10.98	1,337,095	16.09
FTMM-53-699RW05-10.0DL	R1502204-004	681,012	20.69	1,459,823	10.99	1,352,728	16.09

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

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/3/15 10:34

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

File ID: I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D\
Instrument ID: R-MS-07
Analytical Method: 8260C

Lab Code: RQ1503202-02
Analysis Lot: 439004
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	956,983	9.79
	Upper Limit ==>	1,913,966	10.29
	Lower Limit ==>	478,492	9.29
	ICAL Result ==>	1,078,672	9.74
Associated Analyses			
Lab Control Sample	RQ1503202-03	978,467	9.79
Method Blank	RQ1503202-04	978,504	9.80
FTMM-53-699MW01-7.5	R1502204-005	972,111	9.79
FTMM-68-565MW01-11.99	R1502204-003	965,016	9.79
FTMM-53-699MW09-7.75	R1502204-006	964,309	9.80
FTMM-53-699MW16-7.5	R1502204-007	967,704	9.80
FTMM-53-699MW106-10.2	R1502204-009	975,614	9.80
FTMM-53-699MW04-8.0	R1502204-010	963,713	9.80
FTMM-53-699RW11-8.3	R1502204-011	952,465	9.81
FTMM-53-699RW03-8.2	R1502204-012	953,456	9.80
FTMM-22-CW1MW29-10.85	R1502204-013	964,969	9.80
FTMM-22-CW1MW37-11.78	R1502204-014	962,606	9.80
FTMM-22-CW1MW31-16.4	R1502204-015	941,474	9.80
FTMM-22-CW1MW27-12.63	R1502204-016	938,688	9.80
FTMM-22-CW1MW28-11.21	R1502204-017	957,942	9.80
FTMM-53-699RW05-10.0DL	R1502204-004	942,255	9.80

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

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/7/15 11:07

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

File ID: I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D\
Instrument ID: R-MS-07
Analytical Method: 8260C

Lab Code: RQ1503305-02
Analysis Lot: 439385
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
	Results ==>	653,870	20.62	1,485,072	10.93	1,317,798	16.02
	Upper Limit ==>	1,307,740	21.12	2,970,144	11.43	2,635,596	16.52
	Lower Limit ==>	326,935	20.12	742,536	10.43	658,899	15.52
	ICAL Result ==>	820,886	20.61	1,763,697	10.92	1,662,584	16.02
Associated Analyses							
Lab Control Sample	RQ1503305-03	646,490	20.62	1,482,130	10.92	1,305,006	16.03
Method Blank	RQ1503305-04	646,678	20.62	1,495,910	10.92	1,299,748	16.03
FTMM-68-565MW01D-22.31	R1502204-002	628,183	20.62	1,463,138	10.93	1,292,163	16.03
FTMM-22-CW1MW281-33.74	R1502204-018	628,345	20.62	1,502,762	10.93	1,301,326	16.02

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

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/7/15 11:07

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

File ID: I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D\
Instrument ID: R-MS-07
Analytical Method: 8260C

Lab Code: RQ1503305-02
Analysis Lot: 439385
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	997,595	9.75
	Upper Limit ==>	1,995,190	10.25
	Lower Limit ==>	498,798	9.25
	ICAL Result ==>	1,078,672	9.74
Associated Analyses			
Lab Control Sample	RQ1503305-03	977,681	9.74
Method Blank	RQ1503305-04	958,779	9.74
FTMM-68-565MW01D-22.31	R1502204-002	953,470	9.74
FTMM-22-CW1MW281-33.74	R1502204-018	971,766	9.74

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

ALS Environmental

VOLATILE ORGANICS SAMPLE DATA

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

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00047

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15 19:01

Sample Name: FTMM-TB-03302015
Lab Code: R1502204-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15 19:01

Sample Name: FTMM-TB-03302015
Lab Code: R1502204-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/2/15 19:01	
Dibromofluoromethane	108	85-115	4/2/15 19:01	
Toluene-d8	104	85-120	4/2/15 19:01	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 1901

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

Sample Name:	FTMM-TB-03302015	**Units:**	µg/L
Lab Code:	R1502204-001	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D Vial: 16
Acq On : 2 Apr 2015 7:01 pm Operator: K.Ruest
Sample : R1502204-001|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 14:40 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	1027295	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	11.00	114	1574399	50.00	ppb	0.07
64) d5 - Chlorobenzene	16.10	117	1399304	50.00	ppb	0.08
90) d4 - Dichlorobenzene	20.69	152	688777	50.00	ppb	0.08
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	549231	54.19	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.38%			
48) surr1,1,2-Diclethane	10.40	65	587125	57.46	ppb	0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.92%			
70) surr3,Toluene-d8	13.46	98	1586224	52.21	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.42%			
71) surr2,bfb	18.34	95	729800	55.24	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.48%			

Target Compounds Qvalue

KR
4/3/15

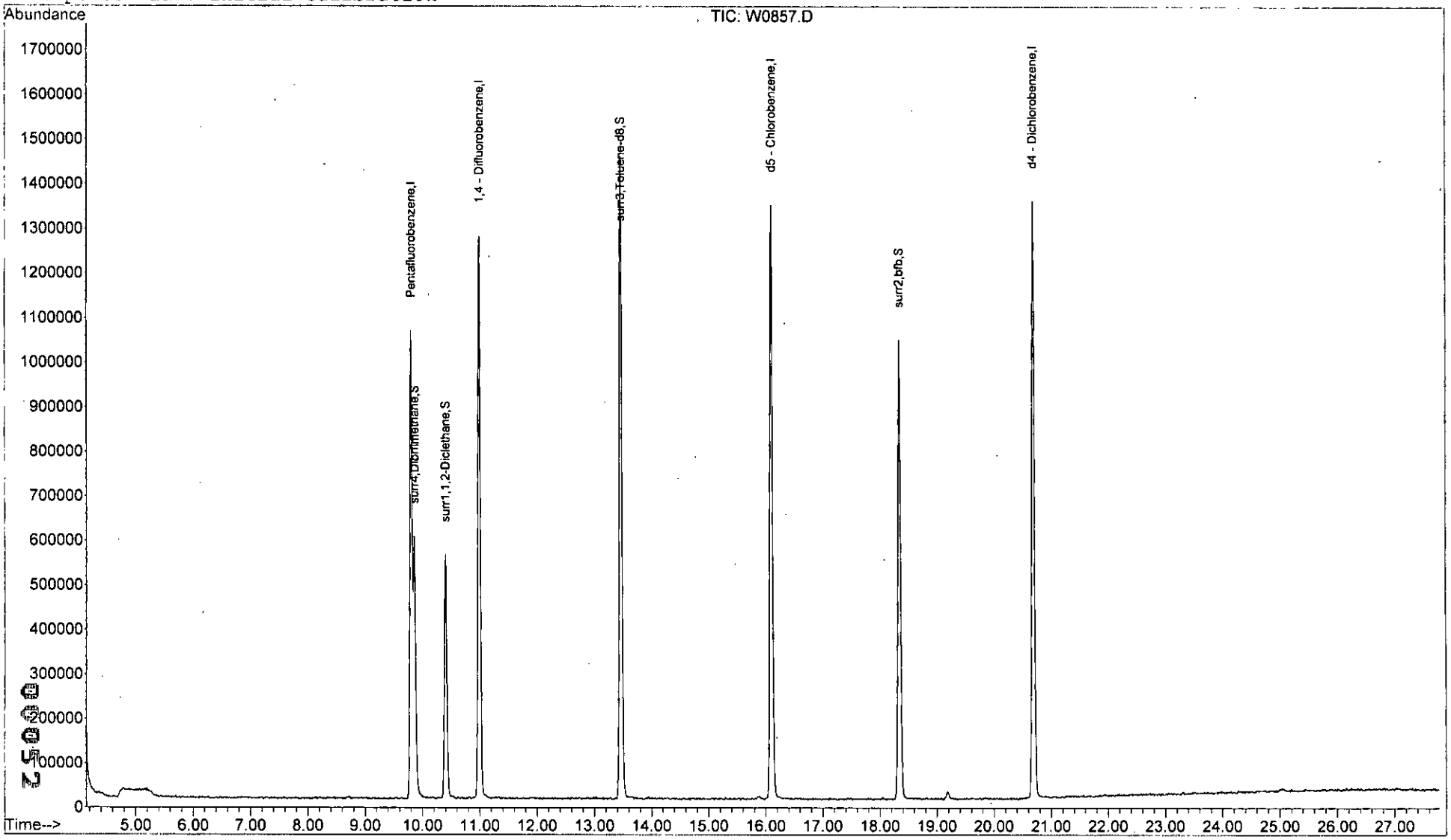
(#) = qualifier out of range (m) = manual integration
W0857.D W032315.M Fri Apr 03 14:41:30 2015

00051

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D Vial: 16
Acq On : 2 Apr 2015 7:01 pm Operator: K.Ruest
Sample : R1502204-001|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 14:40 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0857.D W032315.M Fri Apr 03 14:41:32 2015

LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D Vial: 16
Acq On : 2 Apr 2015 7:01 pm Operator: K.Ruest
Sample : R1502204-001|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.787	56	66	69	rBV9	22058	122797	2.80%	0.470%
2	9.804	568	575	579	rBV	1052200	3160925	72.08%	12.101%
3	9.863	579	581	594	rVB	586848	1412817	32.22%	5.409%
4	10.405	629	636	645	rBV	546810	1613590	36.80%	6.177%
5	10.996	689	696	704	rBV	1260029	3624851	82.66%	13.877%
6	13.460	939	946	957	rBV	1444111	4385039	100.00%	16.787%
7	16.101	1204	1214	1224	rBV	1331626	4238755	96.66%	16.227%
8	18.338	1433	1441	1451	rBV	1031985	3383325	77.16%	12.952%
9	20.684	1671	1679	1690	rBV	1339586	4179121	95.30%	15.999%

Sum of corrected areas: 26121220

W0857.D W032315.M Fri Apr 03 15:01:33 2015

00053

```
File        : I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D
Operator    : K.Ruest
Acquired    :  2 Apr 2015   7:01 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-001|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 16
Quant File :W032315.RES (RTE Integrator)
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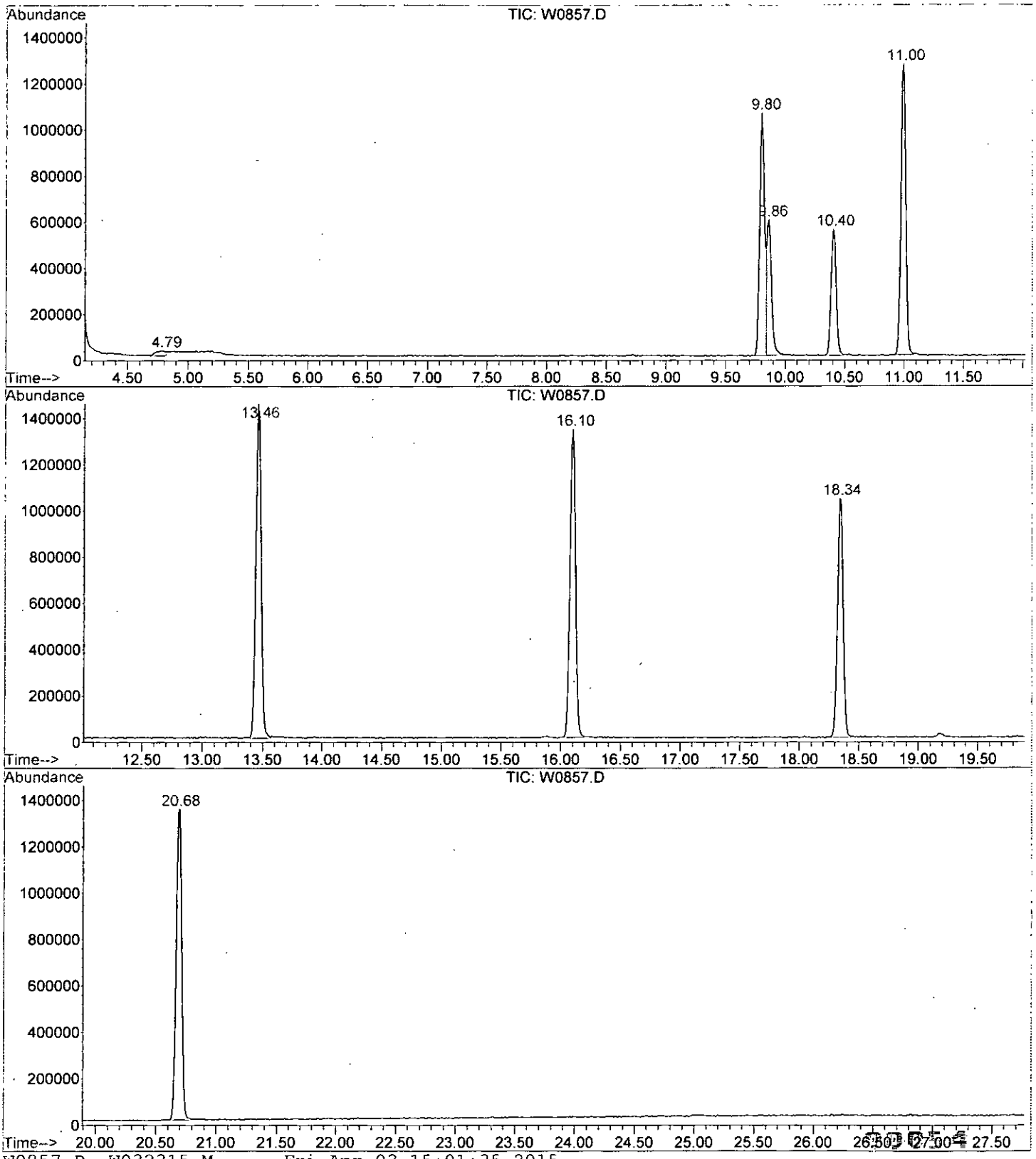


W0857.D W032315.M Fri Apr 03 15:01:35 2015

Tentatively Identified Compound (TIC) Summary

Operator ID: K.Ruest Date Acquired: 2 Apr 2015 7:01 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040215\W0857.D
Name: R1502204-001|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0857.D W032315.M Fri Apr 03 15:01:35 2015

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 0950
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/7/15 15:50
Sample Name:	FTMM-68-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1502204-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439385
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D\	**Instrument Name:**	R-MS-07
		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)	ND	U	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	ND	U	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	
56-23-5	Carbon Tetrachloride	ND	U	25	5.0	2.3	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 0950
Date Received: 3/31/15
Date Analyzed: 4/7/15 15:50

Sample Name: FTMM-68-565MW01D-22.31
Lab Code: R1502204-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
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	3.0	
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)	**860**		25	5.0	1.5	
108-88-3	Toluene	ND	U	25	5.0	1.0	
79-01-6	Trichloroethene (TCE)	**45**		25	5.0	1.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	25	5.0	1.0	
75-01-4	Vinyl Chloride	**2.5**	**J**	25	5.0	1.6	
156-59-2	cis-1,2-Dichloroethene	**53**		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	**1.9**	**J**	25	5.0	1.7	
10061-02-6	trans-1,3-Dichloropropene	ND	U	25	5.0	1.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	75-120	4/7/15 15:50	
Dibromofluoromethane	109	85-115	4/7/15 15:50	
Toluene-d8	110	85-120	4/7/15 15:50	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/7/15 1550

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

Sample Name:	FTMM-68-565MW01D-22.31	**Units:**	µg/L
Lab Code:	R1502204-002	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D Vial: 12
Acq On : 7 Apr 2015 3:50 pm Operator: K.Ruest
Sample : R1502204-002|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 9:26 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	953470	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.93	114	1463138	50.00	ppb		0.01
64) d5 - Chlorobenzene	16.03	117	1292163	50.00	ppb		0.01
90) d4 - Dichlorobenzene	20.62	152	628183	50.00	ppb		0.01
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	513326	54.50	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.00%				
48) surr1,1,2-Diclethane	10.34	65	528653	55.67	ppb		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.34%				
70) surr3,Toluene-d8	13.40	98	1549859	55.24	ppb		0.01
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.48%				
71) surr2,bfb	18.27	95	644750	52.85	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.70%				
Target Compounds							Qvalue
4) Vinyl Chloride	4.94	62	5892	0.50	ppb		79
26) trans-1,2-Dichloroethene	7.81	96	3869	0.38	ppb	#	50
35) cis-1,2-Dichloroethene	9.17	96	115528	10.61	ppb		99
54) Trichloroethene	11.43	95	86085	8.92	ppb		95
72) Tetrachloroethene	14.52	166	1654575	172.57	ppb		97

4/8/15

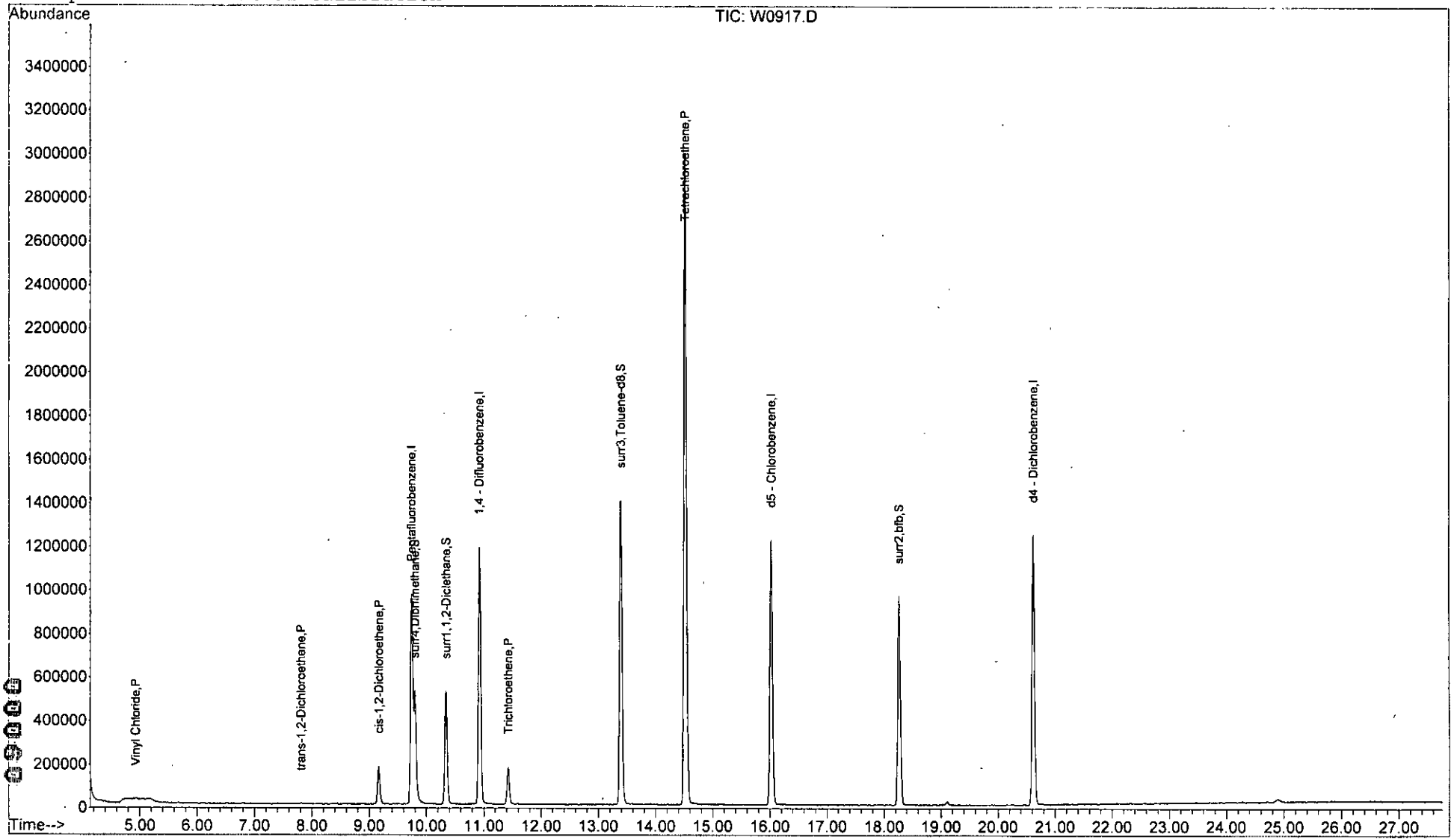
DL 4/8/15

(#) = qualifier out of range (m) = manual integration
W0917.D W032315.M Wed Apr 08 09:29:22 2015

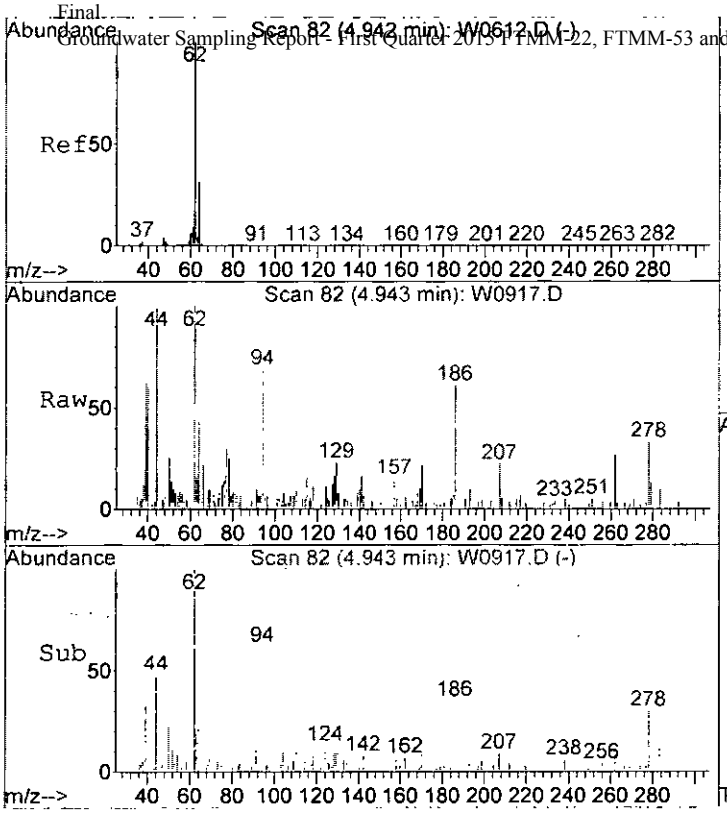
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D Vial: 12
Acq On : 7 Apr 2015 3:50 pm Operator: K.Ruest
Sample : R1502204-002|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 9:26 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



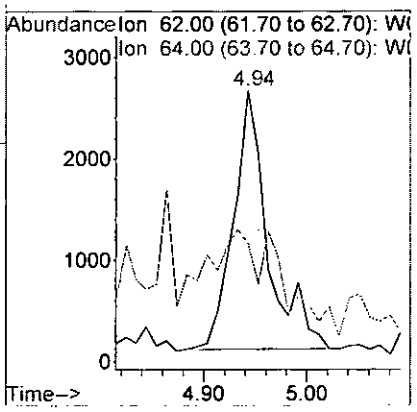
W0917.D W032315.M Wed Apr 08 09:29:25 2015

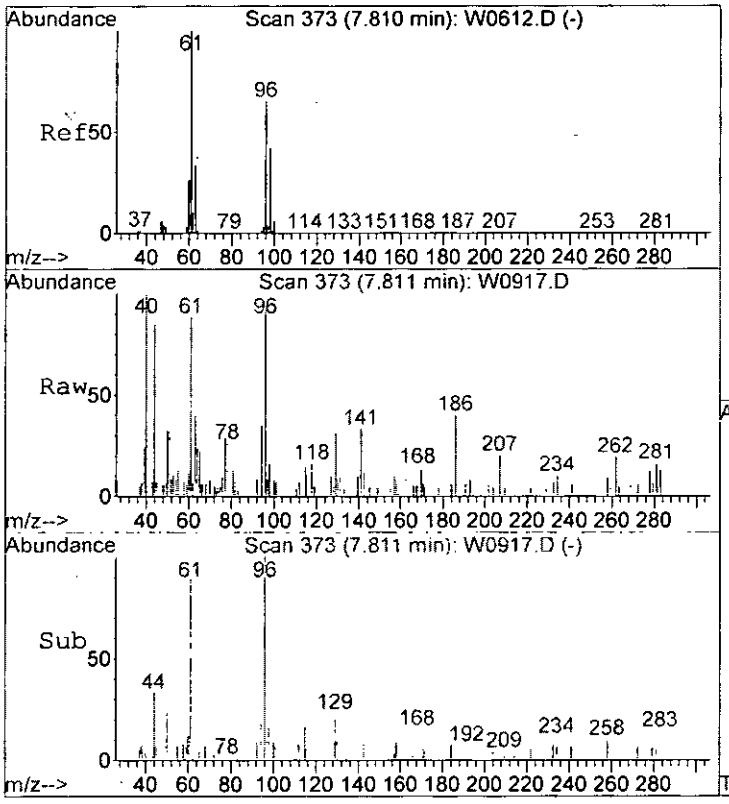


#4
Vinyl Chloride
Concen: 0.50 ppb
RT: 4.94 min Scan# 82
Delta R.T. 0.00 min
Lab File: W0917.D
Acq: 7 Apr 2015 3:50 pm

Tgt Ion: 62 Resp: 5892

Ion	Ratio	Lower	Upper
62	100		
64	43.4	11.6	51.6

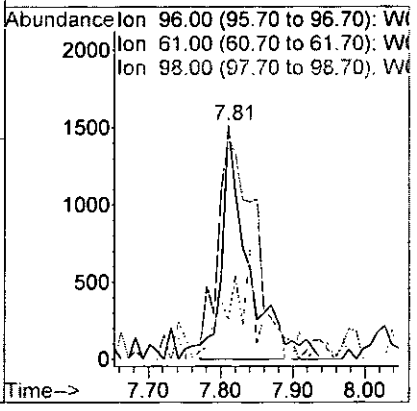


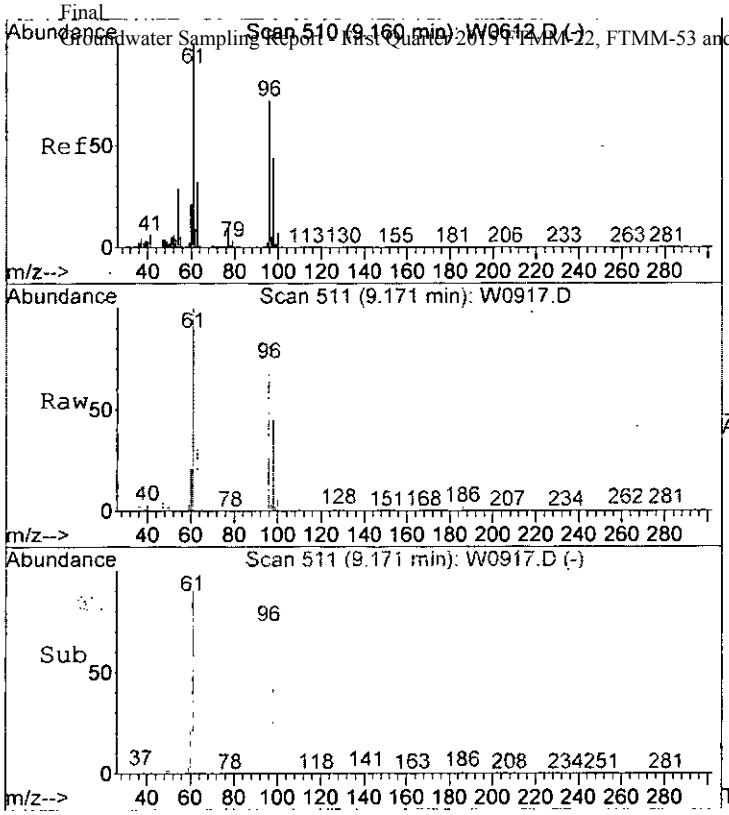


#26
trans-1,2-Dichloroethene
Concen: 0.38 ppb
RT: 7.81 min Scan# 373
Delta R.T. 0.00 min
Lab File: W0917.D
Acq: 7 Apr 2015 3:50 pm

Tgt Ion: 96 Resp: 3869

Ion	Ratio	Lower	Upper
96	100		
61	95.4	134.4	174.4#
98	17.0	44.8	84.8#

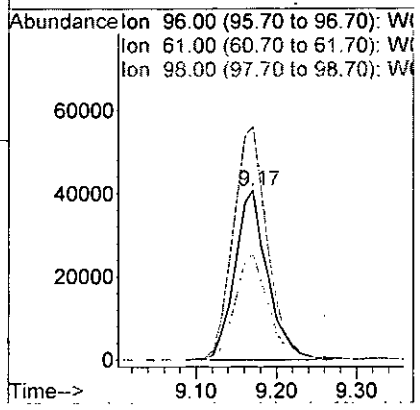


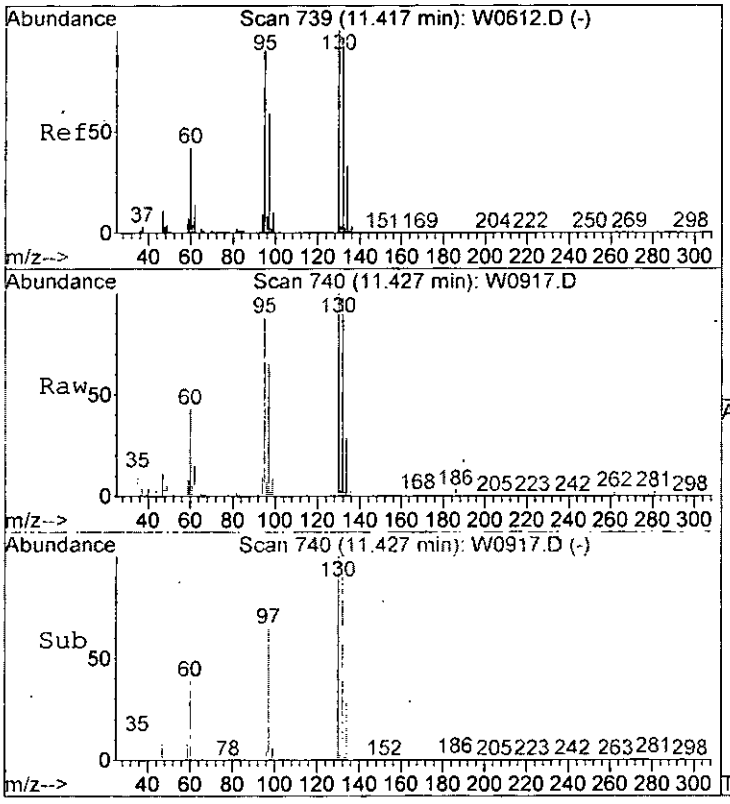


#35
cis-1,2-Dichloroethene
Concen: 10.61 ppb
RT: 9.17 min Scan# 511
Delta R.T. 0.01 min
Lab File: W0917.D
Acq: 7 Apr 2015 3:50 pm

Tgt Ion: 96 Resp: 115528

Ion	Ratio	Lower	Upper
96	100		
61	137.5	119.7	159.7
98	61.7	41.2	81.2

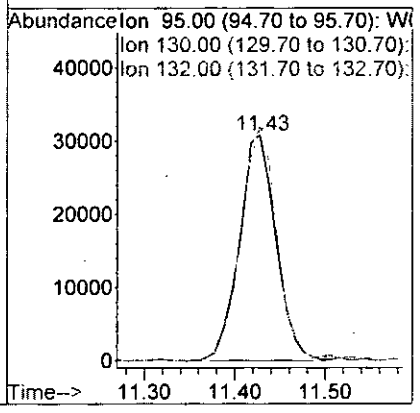


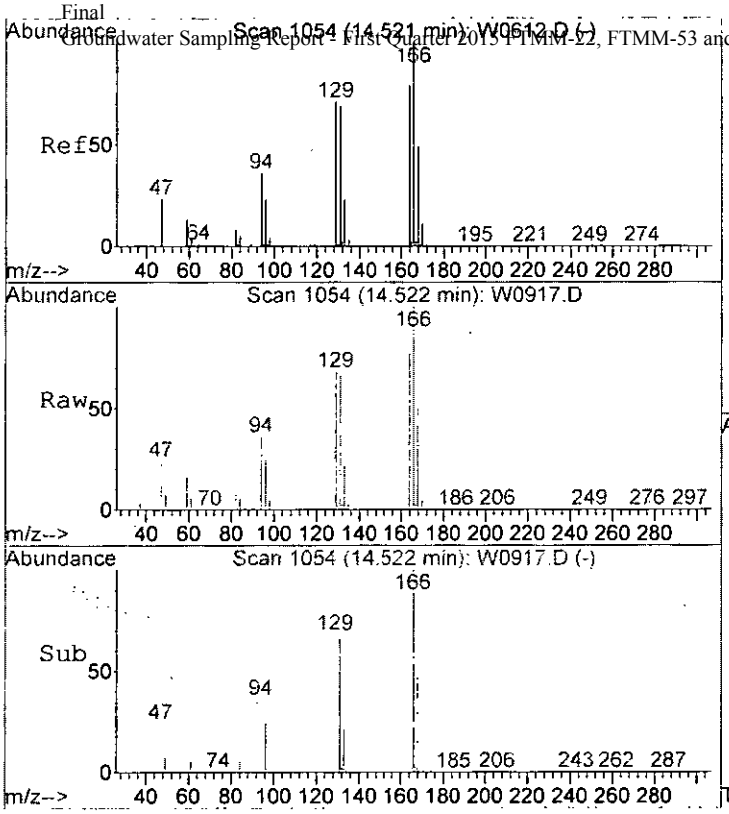


#54
Trichloroethene
Concen: 8.92 ppb
RT: 11.43 min Scan# 740
Delta R.T. 0.01 min
Lab File: W0917.D
Acq: 7 Apr 2015 3:50 pm

Tgt Ion: 95 Resp: 86085

Ion	Ratio	Lower	Upper
95	100		
130	104.0	91.2	131.2
132	102.1	86.3	126.3

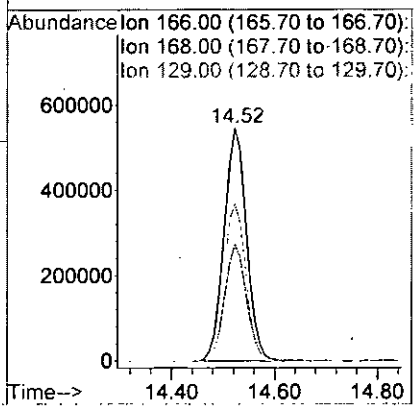




#72
Tetrachloroethene
Concen: 172.57 ppb
RT: 14.52 min Scan# 1054
Delta R.T. 0.00 min
Lab File: W0917.D
Acq: 7 Apr 2015 3:50 pm

Tgt Ion:166 Resp: 1654575

Ion	Ratio	Lower	Upper
166	100		
168	50.1	29.2	69.2
129	67.7	51.3	91.3



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D Vial: 12
Acq On : 7 Apr 2015 3:50 pm Operator: K.Ruest
Sample : R1502204-002|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

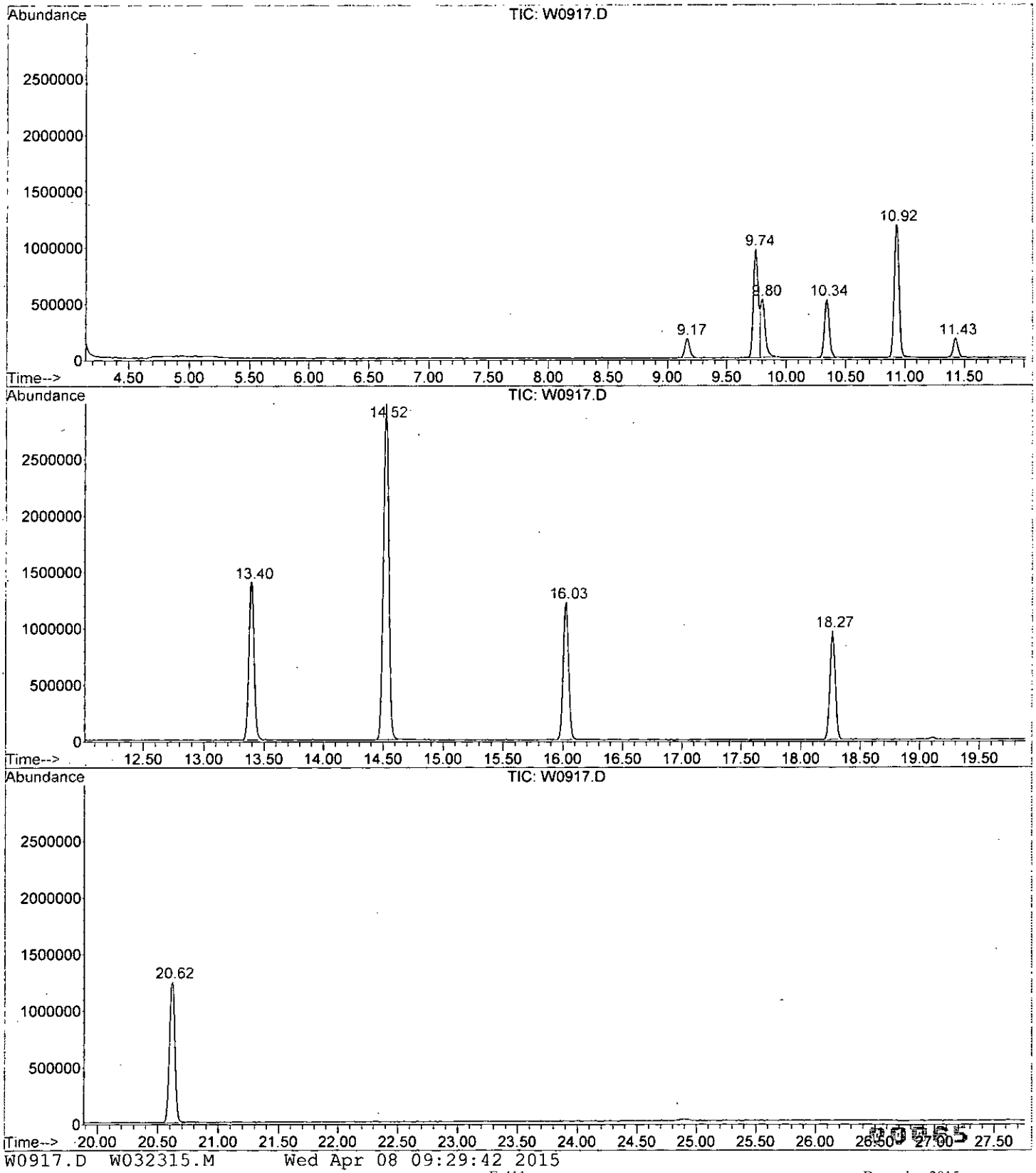
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.171	505	511	522	rVB	173537	503417	5.55%	1.481%
2	9.742	562	569	573	rBV	963798	2909128	32.05%	8.558%
3	9.801	573	575	587	rVB	515061	1257122	13.85%	3.698%
4	10.343	623	630	638	rBV	517600	1489529	16.41%	4.382%
5	10.925	682	689	704	rBV	1178359	3358155	37.00%	9.879%
6	11.427	732	740	746	rBV2	171654	481536	5.30%	1.417%
7	13.398	932	940	951	rBV	1395368	4253086	46.85%	12.512%
8	14.522	1046	1054	1065	rBV	2976241	9077307	100.00%	26.704%
9	16.030	1199	1207	1216	rBV	1216896	3855680	42.48%	11.343%
10	18.267	1424	1434	1443	rBV	960784	2985368	32.89%	8.783%
11	20.622	1663	1673	1684	rBV	1243193	3821898	42.10%	11.243%

Sum of corrected areas: 33992226

W0917.D W032315.M Wed Apr 08 09:29:40 2015

00064

```
File        : I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D
Operator    : K.Ruest
Acquired    :  7 Apr 2015   3:50 pm using AcqMethod W032315
Instrument  :   MS #7
Sample Name: R1502204-002|5.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 12
Quant File :W032315.RES (RTE Integrator)
```



W0917.D W032315.M Wed Apr 08 09:29:42 2015

Tentatively Identified Compound (LSC) summary

Operator ID: K.Ruest Date Acquired: 7 Apr 2015 3:50 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040715\W0917.D
Name: R1502204-002|5.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0917.D W032315.M Wed Apr 08 09:29:42 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 0945
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 13:31
Sample Name:	FTMM-68-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1502204-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	1.7	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 0945
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 13:31
Sample Name:	FTMM-68-565MW01-11.99	**Units:**	µg/L
Lab Code:	R1502204-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**94**		5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**25**		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	**1.7**	**J**	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**40**		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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	75-120	4/3/15 13:31	
Dibromofluoromethane	108	85-115	4/3/15 13:31	
Toluene-d8	110	85-120	4/3/15 13:31	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1331

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

Sample Name: FTMM-68-565MW01-11.99
Lab Code: R1502204-003

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D Vial: 8
Acq On : 3 Apr 2015 1:31 pm Operator: K.Ruest
Sample : R1502204-003|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:08 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.79	168	965016	50.00	ppb		0.05
42) 1,4 - Difluorobenzene	10.98	114	1506653	50.00	ppb		0.06
64) d5 - Chlorobenzene	16.08	117	1351774	50.00	ppb		0.06
90) d4 - Dichlorobenzene	20.67	152	680946	50.00	ppb		0.06
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.85	113	522134	53.83	ppb		0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.66%				
48) surr1,1,2-Diclethane	10.39	65	567083	58.00	ppb		0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 116.00%				
70) surr3,Toluene-d8	13.45	98	1611142	54.89	ppb		0.06
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.78%				
71) surr2,bfb	18.33	95	706962	55.39	ppb		0.06
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.78%				
Target Compounds							Qvalue
4) Vinyl Chloride	4.98	62	20460	1.73	ppb		93
14) 1,1-Diclethene	6.86	96	2388	0.28	ppb	#	47
15) Acetone	6.83	43	6181	1.71	ppb		62
26) trans-1,2-Dichloroethene	7.86	96	2861	0.28	ppb	#	79
35) cis-1,2-Dichloroethene	9.22	96	438882	39.81	ppb		92
54) Trichloroethene	11.48	95	249989	25.15	ppb		97
72) Tetrachloroethene	14.58	166	944375	94.15	ppb		99

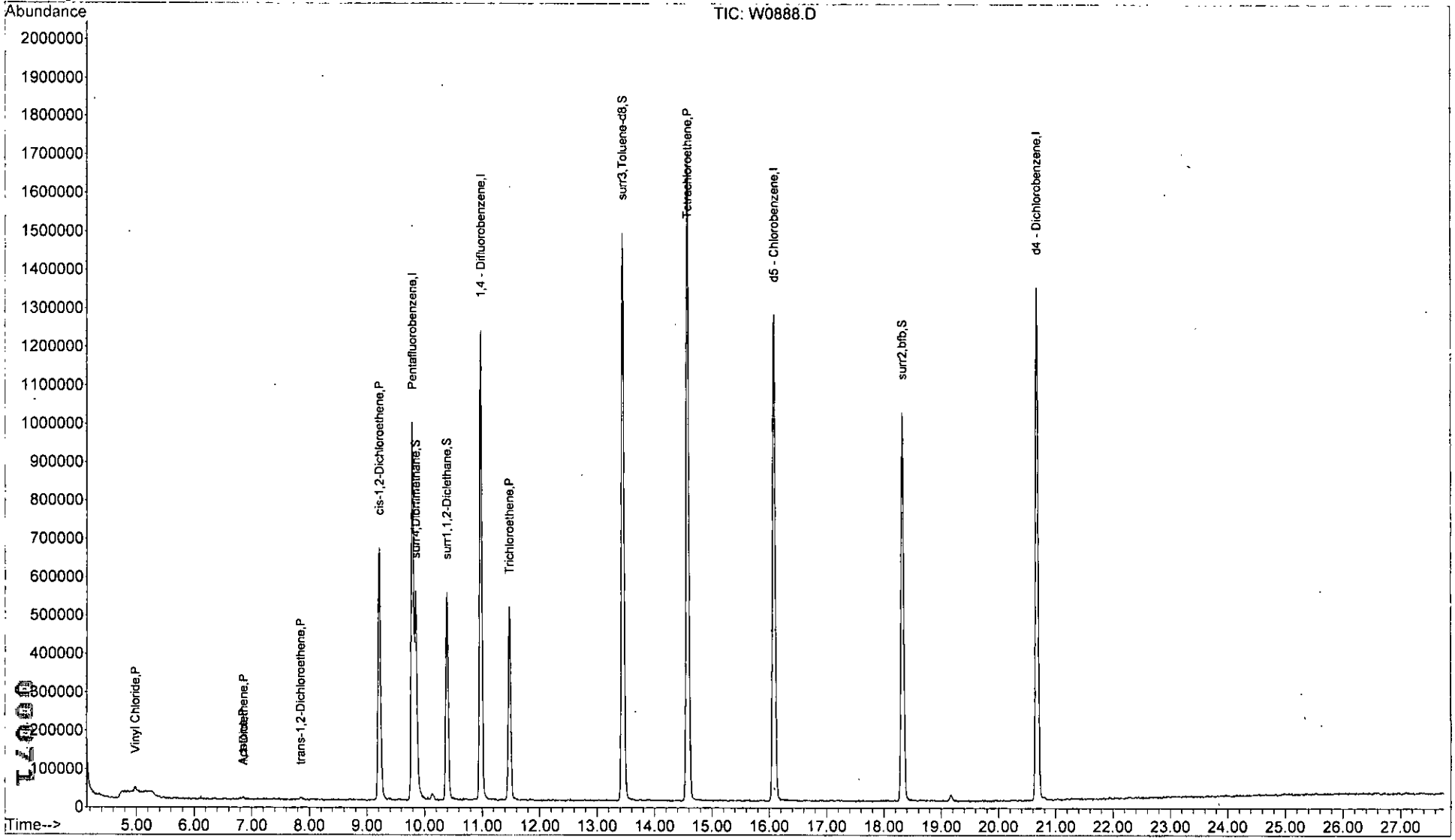
4/7/15

(#) = qualifier out of range (m) = manual integration
W0888.D W032315.M Tue Apr 07 17:09:34 2015

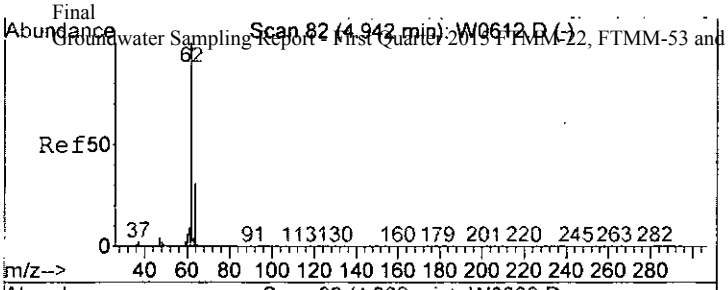
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D Vial: 8
Acq On : 3 Apr 2015 1:31 pm Operator: K.Ruest
Sample : R1502204-003|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:08 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



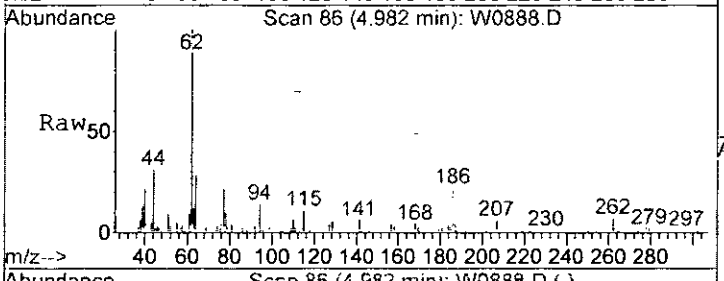
W0888.D W032315.M Tue Apr 07 17:09:36 2015

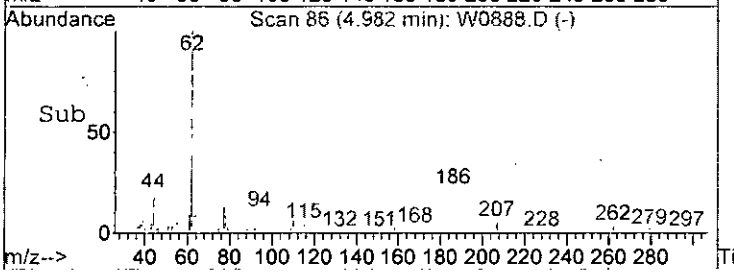


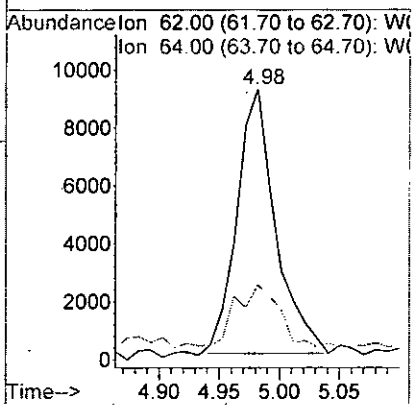
#4
Vinyl Chloride
Concen: 1.73 ppb
RT: 4.98 min Scan# 86
Delta R.T. 0.04 min
Lab File: W0888.D
Acq: 3 Apr 2015 1:31 pm

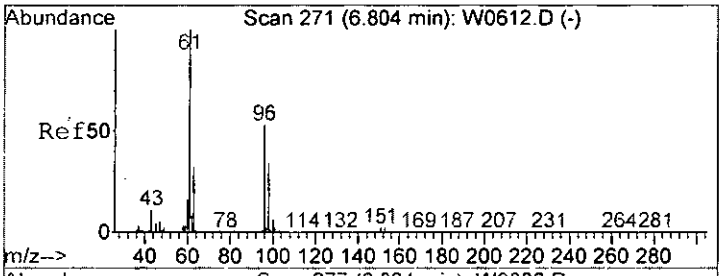
Tgt Ion: 62 Resp: 20460

Ion	Ratio	Lower	Upper
62	100		
64	27.6	11.6	51.6





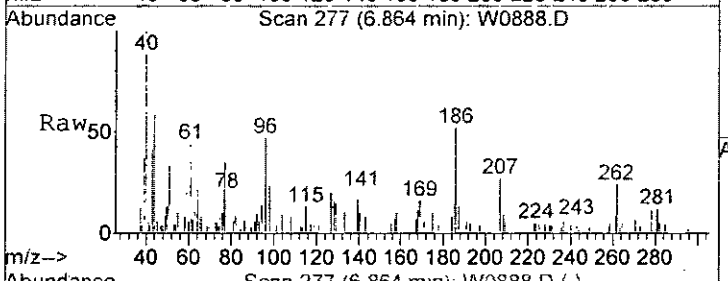


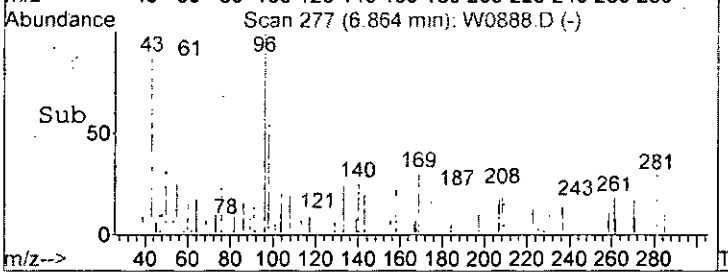


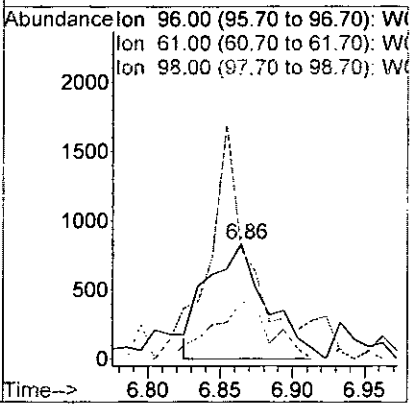
#14
1,1-Diclethene
Concen: 0.28 ppb
RT: 6.86 min Scan# 277
Delta R.T. 0.06 min
Lab File: W0888.D
Acq: 3 Apr 2015 1:31 pm

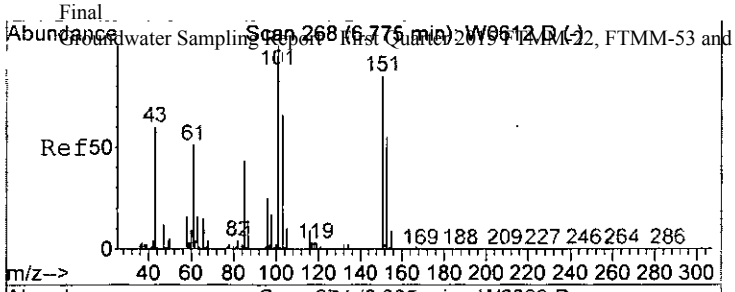
Tgt Ion: 96 Resp: 2388

Ion	Ratio	Lower	Upper
96	100		
61	94.4	168.3	208.3#
98	49.9	43.7	83.7





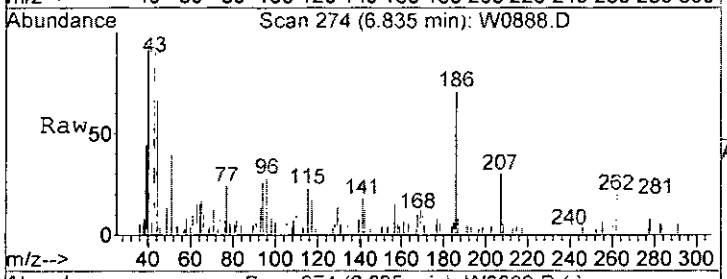


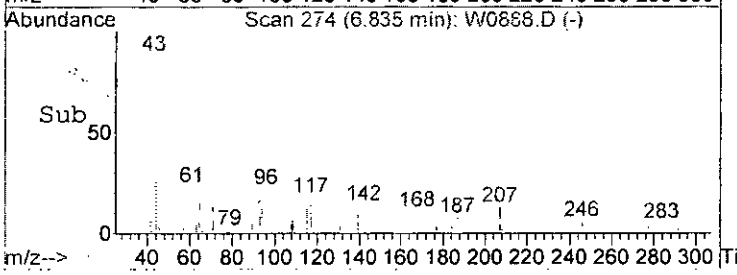


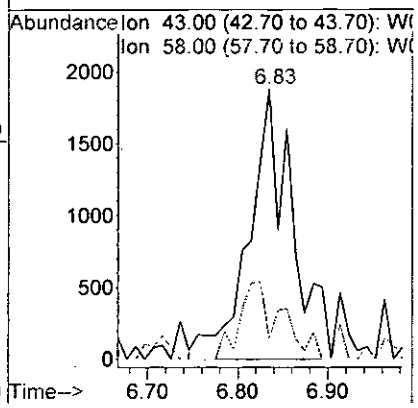
#15
Acetone
Concen: 1.71 ppb
RT: 6.83 min Scan# 274
Delta R.T. 0.06 min
Lab File: W0888.D
Acq: 3 Apr 2015 1:31 pm

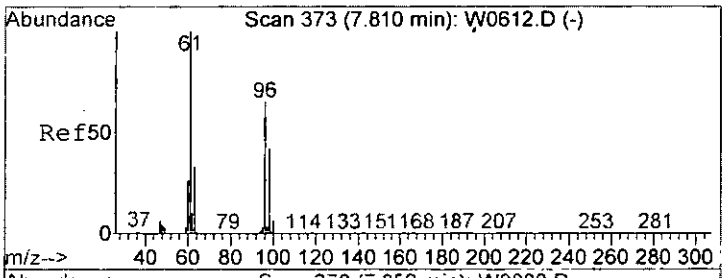
Tgt Ion: 43 Resp: 6181

Ion	Ratio	Lower	Upper
43	100		
58	7.5	7.2	47.2





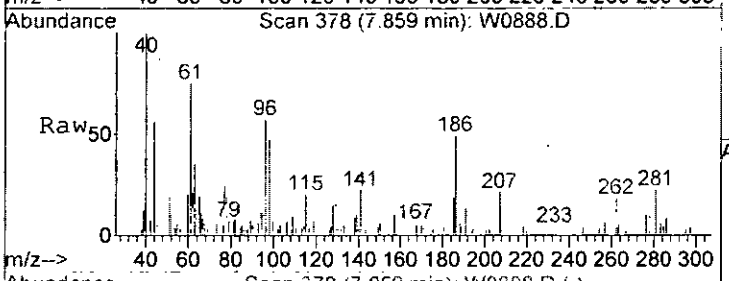


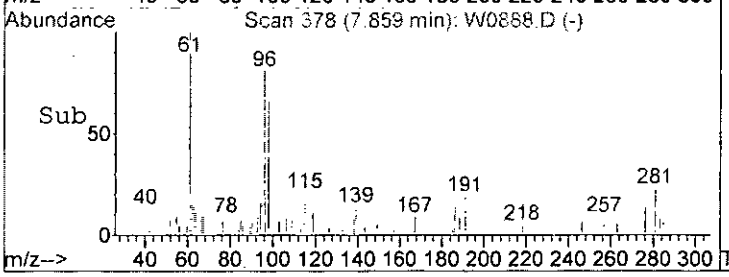


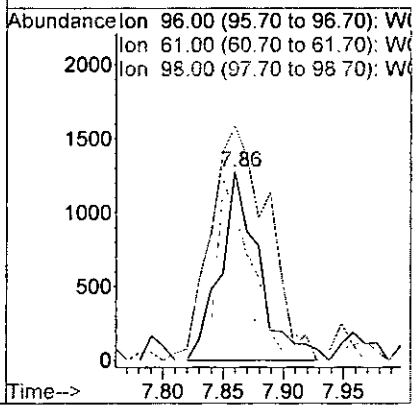
#26
trans-1,2-Dichloroethene
Concen: 0.28 ppb
RT: 7.86 min Scan# 378
Delta R.T. 0.05 min
Lab File: W0888.D
Acq: 3 Apr 2015 1:31 pm

Tgt Ion: 96 Resp: 2861

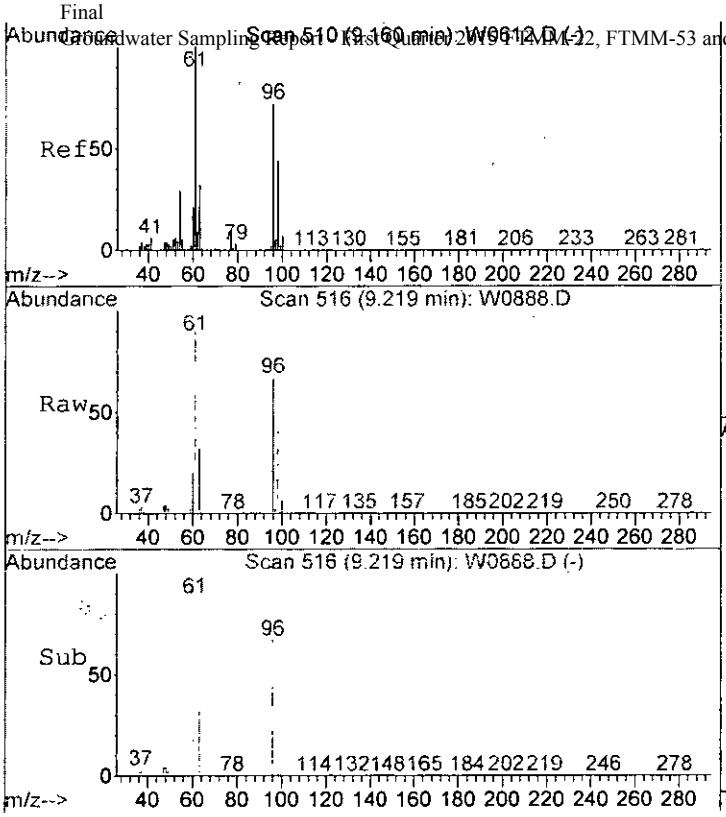
Ion	Ratio	Lower	Upper
96	100		
61	124.1	134.4	174.4#
98	76.5	44.8	84.8







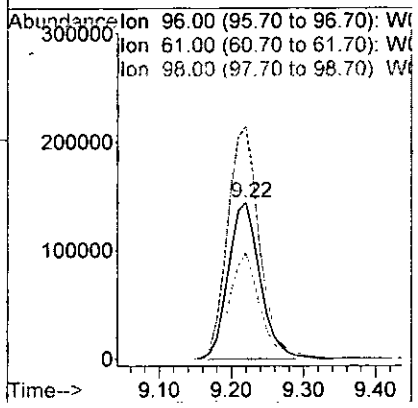
W0888.D W032315.M Tue Apr 07 17:09:39 2015 Page 4

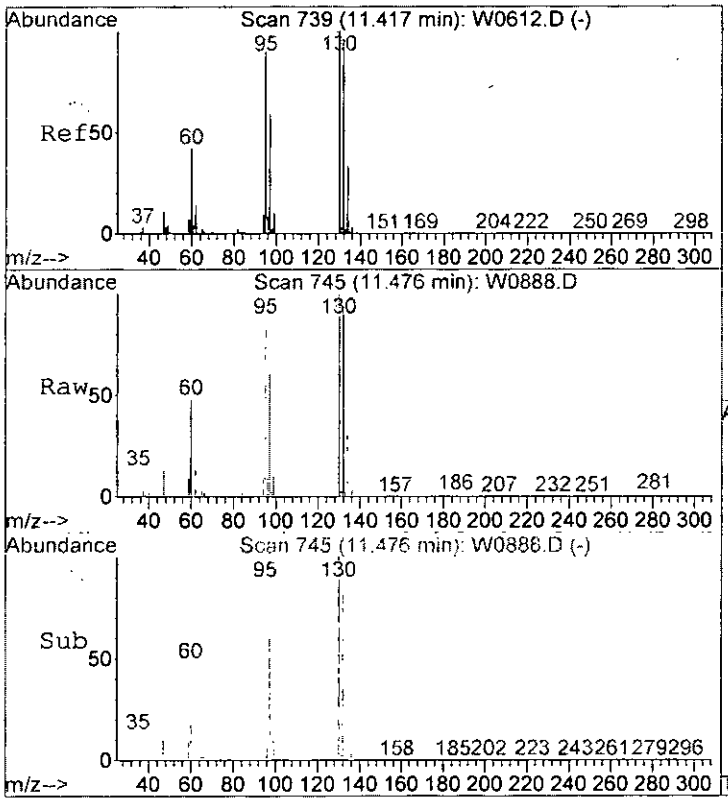


#35
cis-1,2-Dichloroethene
Concen: 39.81 ppb
RT: 9.22 min Scan# 516
Delta R.T. 0.06 min
Lab File: W0888.D
Acq: 3 Apr 2015 1:31 pm

Tgt Ion: 96 Resp: 438882

Ion	Ratio	Lower	Upper
96	100		
61	148.6	119.7	159.7
98	67.9	41.2	81.2

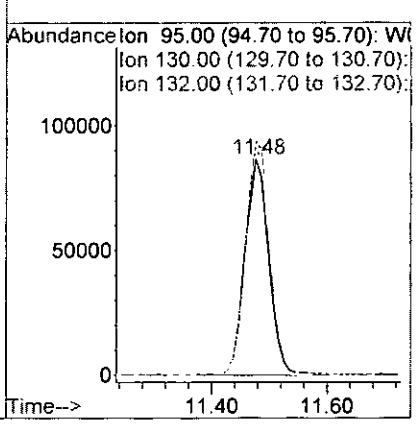


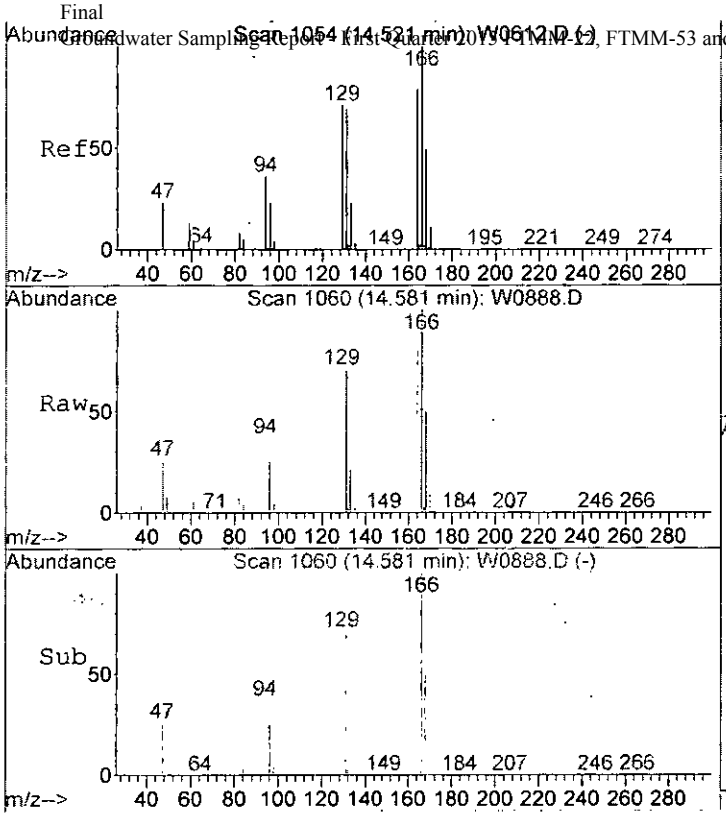


#54
Trichloroethene
Concen: 25.15 ppb
RT: 11.48 min Scan# 745
Delta R.T. 0.06 min
Lab File: W0888.D
Acq: 3 Apr 2015 1:31 pm

Tgt Ion: 95 Resp: 249989

Ion	Ratio	Lower	Upper
95	100		
130	108.3	91.2	131.2
132	102.3	86.3	126.3

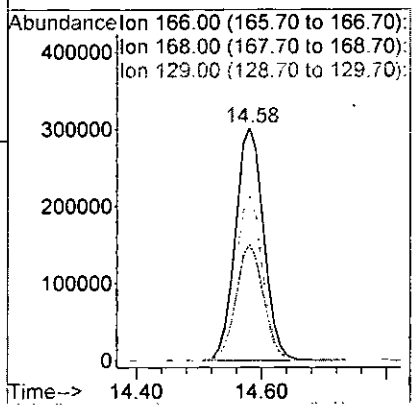




Tetrachloroethene
Concen: 94.15 ppb
RT: 14.58 min Scan# 1060
Delta R.T. 0.06 min
Lab File: W0888.D
Acq: 3 Apr 2015 1:31 pm

Tgt Ion:166 Resp: 944375

Ion	Ratio	Lower	Upper
166	100		
168	49.9	29.2	69.2
129	70.7	51.3	91.3



W0888.D W032315.M Tue Apr 07 17:09:42 2015 Page 6

LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D Vial: 8
Acq On : 3 Apr 2015 1:31 pm Operator: K.Ruest
Sample : R1502204-003|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min.	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.765	54	64	65	rBV9	19247	79764	1.53%	0.234%
2	9.219	508	516	529	rBV	658654	2023280	38.86%	5.947%
3	9.791	566	574	578	rBV	985025	2925768	56.20%	8.599%
4	9.850	578	580	594	rVB	540418	1358720	26.10%	3.993%
5	10.392	627	635	644	rBV	542217	1577932	30.31%	4.638%
6	10.984	688	695	704	rBV	1221923	3461448	66.49%	10.174%
7	11.476	737	745	752	rBV	502662	1443334	27.72%	4.242%
8	13.447	937	945	955	rBV	1477824	4443085	85.34%	13.059%
9	14.581	1051	1060	1069	rBV	1685569	5206252	100.00%	15.302%
10	16.089	1204	1213	1224	rBV	1267730	4095632	78.67%	12.037%
11	18.326	1430	1440	1448	rBV	1014656	3260906	62.63%	9.584%
12	19.173	1518	1526	1532	rBV7	17354	60146	1.16%	0.177%
13	20.671	1670	1678	1687	rBV	1336719	4087837	78.52%	12.015%

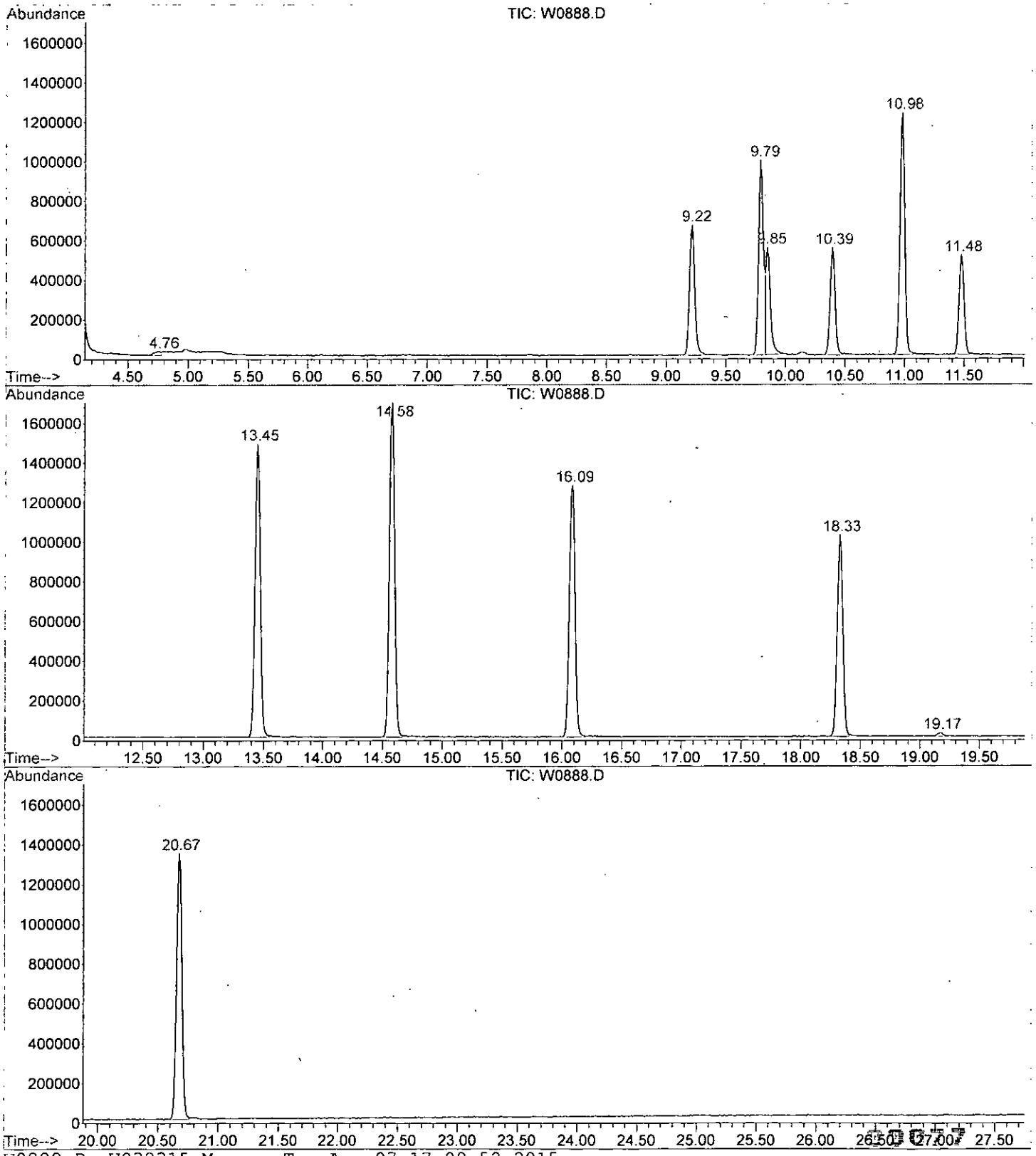
Sum of corrected areas: 34024104

W0888.D W032315.M Tue Apr 07 17:09:50 2015

00076

LSC Report - Integrated Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   1:31 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-003|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 8
Quant File :W032315.RES (RTE Integrator)
```



W0888.D W032315.M Tue Apr 07 17:09:52 2015

Tentatively Identified Compound (TIC) summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 1:31 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0888.D
Name: R1502204-003|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0888.D W032315.M Tue Apr 07 17:09:52 2015

00078

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1000
Date Received: 3/31/15
Date Analyzed: 4/2/15 20:48

Sample Name: FTMM-53-699RW05-10.0
Lab Code: R1502204-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	
79-00-5	1,1,2-Trichloroethane	ND	U	13	2.5	0.86	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	13	2.5	1.5	
563-58-6	1,1-Dichloropropene	ND	U	13	2.5	0.73	
87-61-6	1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	
96-18-4	1,2,3-Trichloropropane	ND	U	13	2.5	1.8	
120-82-1	1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	
95-63-6	1,2,4-Trimethylbenzene	**680**	E	13	2.5	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	
106-93-4	1,2-Dibromoethane	ND	U	13	2.5	0.60	
95-50-1	1,2-Dichlorobenzene	ND	U	13	2.5	0.53	
107-06-2	1,2-Dichloroethane	ND	U	13	2.5	0.90	
78-87-5	1,2-Dichloropropane	ND	U	13	2.5	0.50	
108-67-8	1,3,5-Trimethylbenzene	**120**		13	2.5	0.50	
541-73-1	1,3-Dichlorobenzene	ND	U	13	2.5	0.50	
142-28-9	1,3-Dichloropropane	ND	U	13	2.5	0.68	
106-46-7	1,4-Dichlorobenzene	ND	U	13	2.5	0.50	
594-20-7	2,2-Dichloropropane	ND	U	13	2.5	0.68	
78-93-3	2-Butanone (MEK)	ND	U	13	2.5	2.1	
95-49-8	2-Chlorotoluene	ND	U	13	2.5	0.50	
591-78-6	2-Hexanone	ND	U	13	13	4.2	
75-65-0	tert-Butyl Alcohol	ND	U	250	50	27	
106-43-4	4-Chlorotoluene	ND	U	13	2.5	0.60	
99-87-6	p-Isopropyltoluene	**2.1**	J	13	2.5	0.50	
108-10-1	4-Methyl-2-pentanone	ND	U	13	2.5	1.7	
67-64-1	Acetone	ND	U	13	13	3.1	
71-43-2	Benzene	**1.2**	J	13	2.5	0.50	
108-86-1	Bromobenzene	ND	U	13	2.5	0.71	
74-97-5	Bromochloromethane	ND	U	13	2.5	0.80	
75-27-4	Bromodichloromethane	ND	U	13	2.5	0.80	
75-25-2	Bromoform	ND	U	13	2.5	1.1	
74-83-9	Bromomethane	ND	U	13	2.5	0.73	
56-23-5	Carbon Tetrachloride	ND	U	13	2.5	1.2	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1000
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 20:48
Sample Name:	FTMM-53-699RW05-10.0	**Units:**	µg/L
Lab Code:	R1502204-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	13	2.5	0.73	
75-00-3	Chloroethane	ND	U	13	2.5	0.60	
67-66-3	Chloroform	ND	U	13	2.5	0.63	
74-87-3	Chloromethane	ND	U	13	2.5	0.53	
124-48-1	Dibromochloromethane	ND	U	13	2.5	0.78	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	
75-09-2	Methylene Chloride	ND	U	13	2.5	1.5	
100-41-4	Ethylbenzene	**330**		13	2.5	0.50	
87-68-3	Hexachlorobutadiene	ND	U	13	2.5	1.6	
98-82-8	Isopropylbenzene (Cumene)	**23**		13	2.5	0.50	
1634-04-4	Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	
91-20-3	Naphthalene	**160**		13	2.5	0.50	
100-42-5	Styrene	ND	U	13	2.5	0.50	
127-18-4	Tetrachloroethene (PCE)	ND	U	13	2.5	0.75	
108-88-3	Toluene	**7.4**	J	13	2.5	0.50	
79-01-6	Trichloroethene (TCE)	ND	U	13	2.5	0.55	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	
75-01-4	Vinyl Chloride	ND	U	13	2.5	0.80	
156-59-2	cis-1,2-Dichloroethene	ND	U	13	2.5	0.75	
10061-01-5	cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	
179601-23-1	m,p-Xylenes	**820**		25	5.0	0.83	
104-51-8	n-Butylbenzene	ND	U	13	2.5	0.53	
103-65-1	n-Propylbenzene	**39**		13	2.5	0.50	
95-47-6	o-Xylene	**520**	E	13	2.5	0.50	
135-98-8	sec-Butylbenzene	**2.7**	J	13	2.5	0.68	
98-06-6	tert-Butylbenzene	ND	U	13	2.5	0.50	
156-60-5	trans-1,2-Dichloroethene	ND	U	13	2.5	0.83	
10061-02-6	trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/2/15 20:48	
Dibromofluoromethane	108	85-115	4/2/15 20:48	
Toluene-d8	109	85-120	4/2/15 20:48	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15 2048

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

Sample Name: FTMM-53-699RW05-10.0
Lab Code: R1502204-004

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	5.83	**103.3**	JN
000109-66-0	Pentane	6.22	**53.5**	JN
000107-83-5	Pentane, 2-methyl-	7.52	**116.1**	JN
	unknown	7.66	**25.1**	J
000096-14-0	Pentane, 3-methyl-	7.87	**67.4**	JN
000096-37-7	Cyclopentane, methyl-	9.16	**189.1**	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	18.97	**254.8**	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	19.04	**135.7**	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	19.60	**236.4**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	20.79	**287.8**	JN
	unknown	21.20	**247.0**	J
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	21.73	**31.7**	JN
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	21.80	**21.8**	JN
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	21.93	**53.2**	JN
027133-93-3	2,3-Dihydro-1-methylindene	22.24	**36.6**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	22.70	**32.9**	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	22.81	**45.7**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	23.39	**35.2**	JN
	unknown	23.65	**23.8**	J
	unknown	23.73	**65.3**	J

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D Vial: 19
Acq On : 2 Apr 2015 8:48 pm Operator: K.Ruest
Sample : R1502204-004|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 14:56 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

pt 5.0

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.80	168	1049524	50.00	ppb		0.06
42) 1,4 - Difluorobenzene	11.00	114	1600493	50.00	ppb		0.07
64) d5 - Chlorobenzene	16.10	117	1464612	50.00	ppb		0.08
90) d4 - Dichlorobenzene	20.69	152	728552	50.00	ppb		0.08
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.86	113	554530	53.82	ppb		0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.64%				
48) surr1,1,2-Diclethane	10.40	65	587910	56.60	ppb		0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 113.20%				
70) surr3,Toluene-d8	13.46	98	1739245	54.69	ppb		0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.38%				
71) surr2,bfb	18.34	95	760202	54.97	ppb		0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.94%				
Target Compounds							Qvalue
43) Cyclohexane	10.16	56	206291	10.63	ppb		95
49) Benzene	10.56	78	19943	0.48	ppb	#	59
55) Methylcyclohexane	11.87	55	109325	7.15	ppb		96
66) Toluene	13.59	91	117513	2.97	ppb		96
82) Ethylbenzene	16.30	91	5783964	130.95	ppb		99
83) (m+p)Xylene	16.51	106	5396835	329.70	ppb		92
84) o-Xylene	17.30	106	3361384	207.25	ppb		95 (E)
88) Isopropylbenzene	17.99	105	376331	9.22	ppb		90
94) n-Propylbenzene	18.82	91	795450	15.70	ppb		98
96) 1,3,5-Trimethylbenzene	19.14	105	1616091	49.08	ppb		95
101) 1,2,4-Trimethylbenzene	19.93	105	9109519	271.60	ppb		97 (E)
103) sec-Butylbenzene	20.29	105	43661m	1.06	ppb		
104) p-Isopropyltoluene	20.53	119	28408	0.83	ppb		92
118) Naphthalen	25.04	128	1541993	62.04	ppb		100

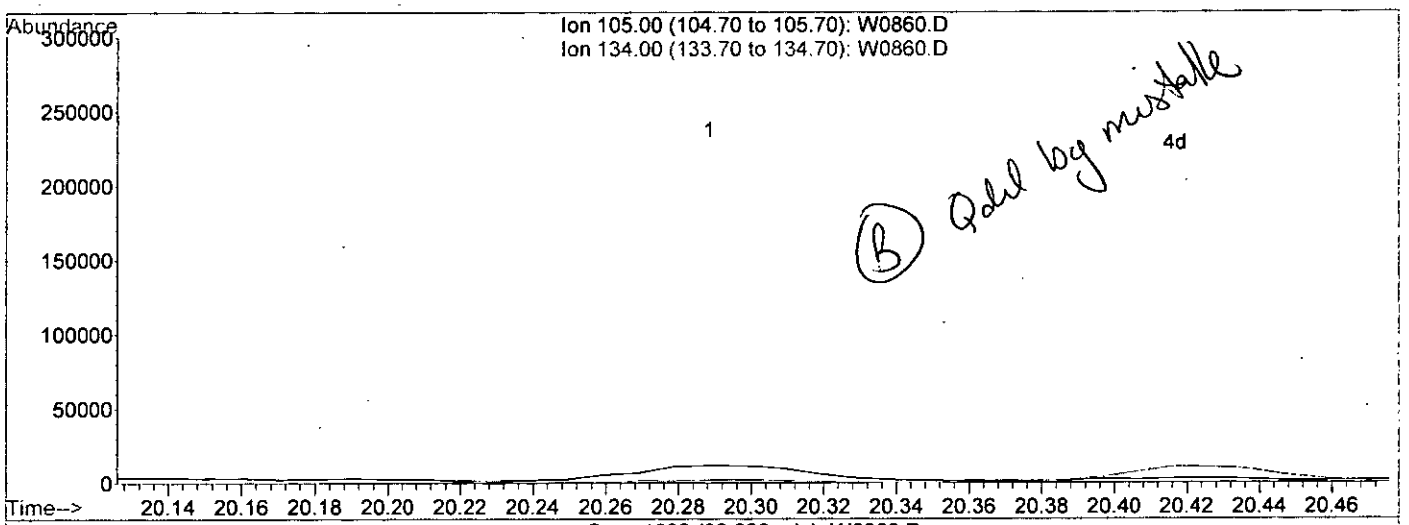
KR 4/3/15

(#) = qualifier out of range (m) = manual integration
W0860.D W032315.M Fri Apr 03 15:00:07 2015

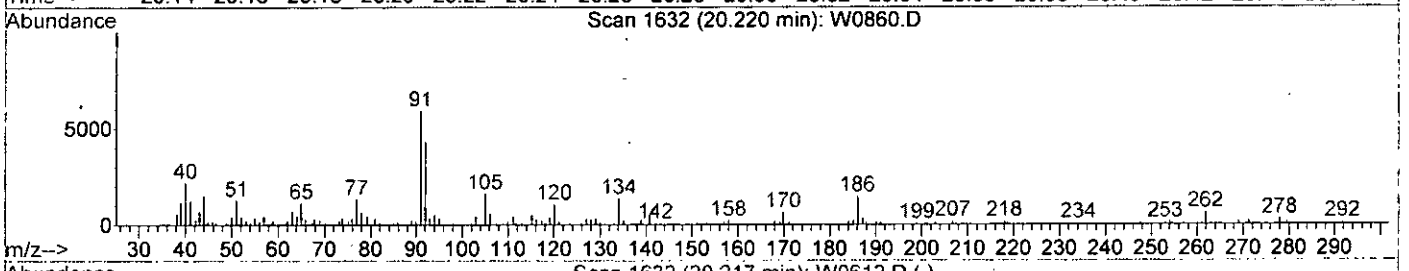
Quantitation Report (Qedit)

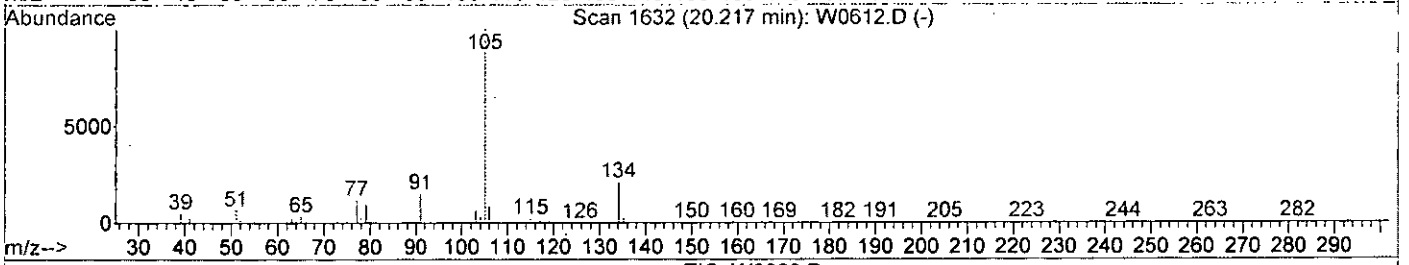
Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D Vial: 19
Acq On : 2 Apr 2015 8:48 pm Operator: K.Ruest
Sample : R1502204-004|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 14:51 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



Qdil by mistake
(B)
4d





TIC: W0860.D

(103) sec-Butylbenzene

20.22min 0.00ppb d

response 0

Ion	Exp%	Act%
105.00	100	0.00
134.00	20.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

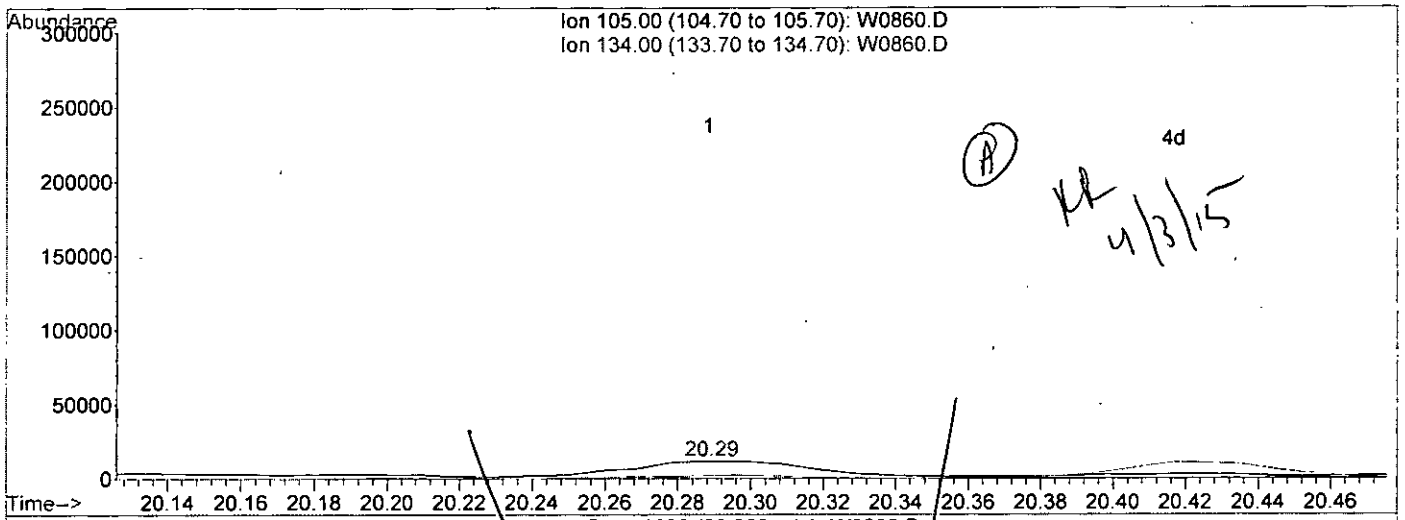
00083

W0860.D W032315.M Fri Apr 03 14:52:23 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D Vial: 19
Acq On : 2 Apr 2015 8:48 pm Operator: K.Ruest
Sample : R1502204-004|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 14:52 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0860.D

(103) sec-Butylbenzene

20.29min 1.06ppb m

response 43661

Ion	Exp%	Act%
105.00	100	100
134.00	20.80	17.68
0.00	0.00	0.00
0.00	0.00	0.00

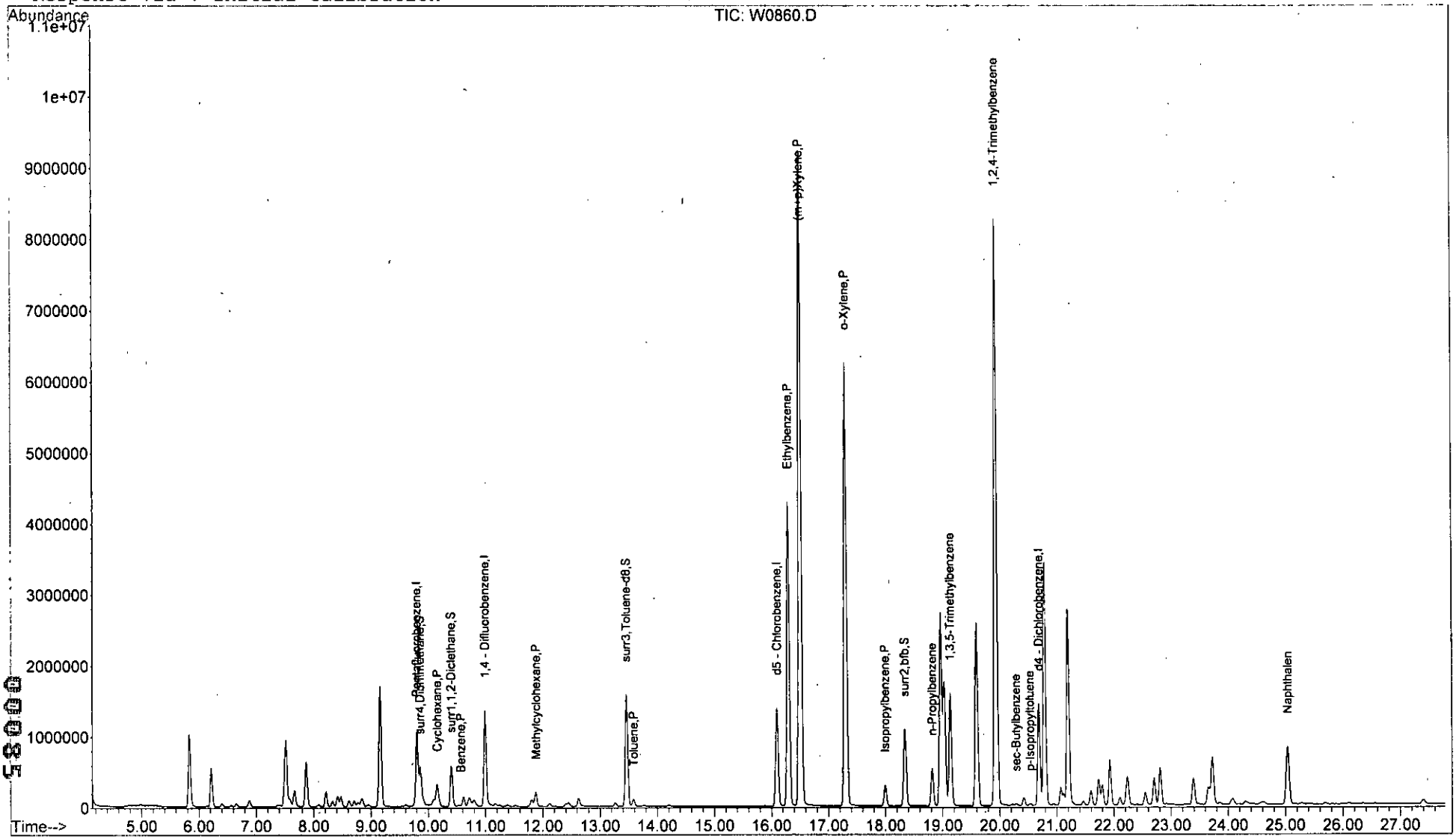
00084

W0860.D W032315.M Fri Apr 03 14:52:31 2015

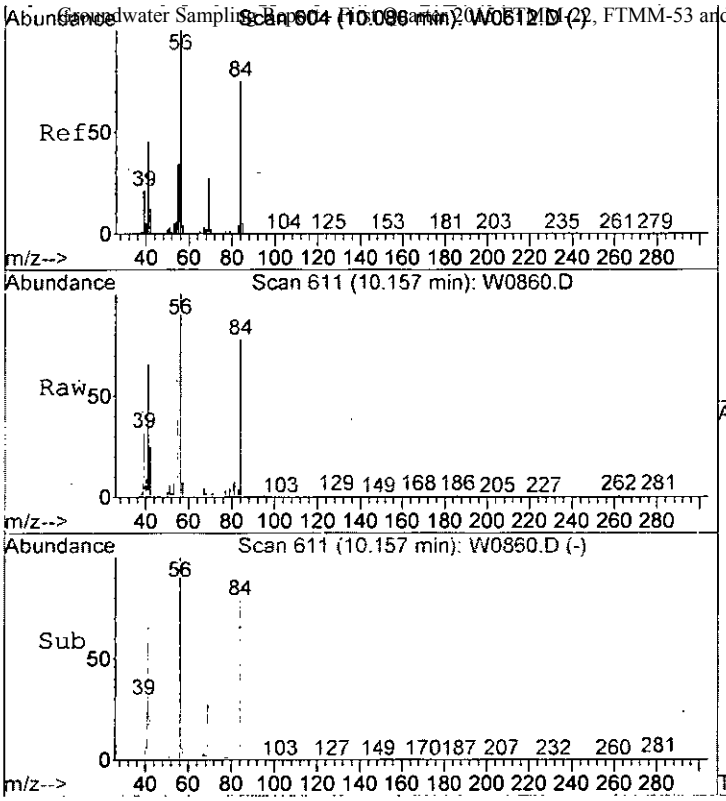
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D Vial: 19
Acq On : 2 Apr 2015 8:48 pm Operator: K.Ruest
Sample : R1502204-004|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 14:56 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



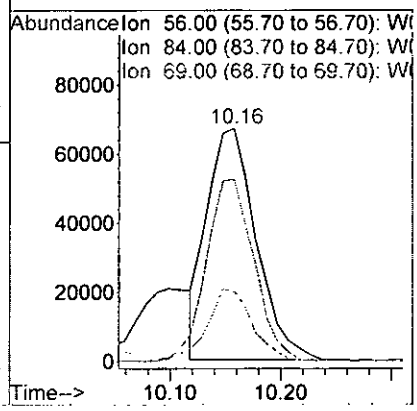
W0860.D W032315.M Fri Apr 03 15:00:09 2015 Page 2

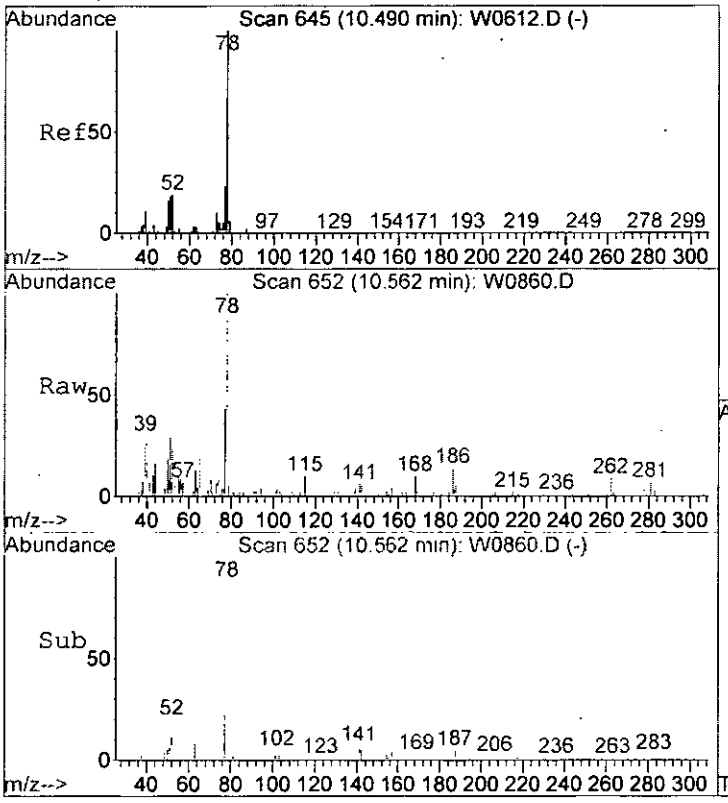


#43
Cyclohexane
Concen: 10.63 ppb
RT: 10.16 min Scan# 611
Delta R.T. 0.07 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion: 56 Resp: 206291

Ion	Ratio	Lower	Upper
56	100		
84	78.3	54.6	94.6
69	30.1	7.2	47.2

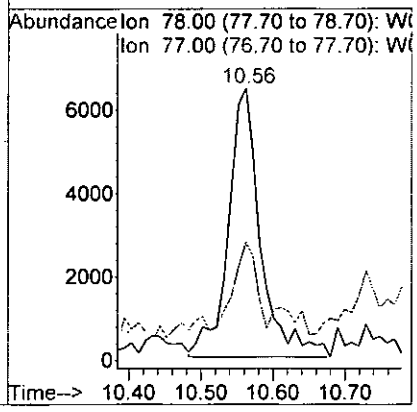


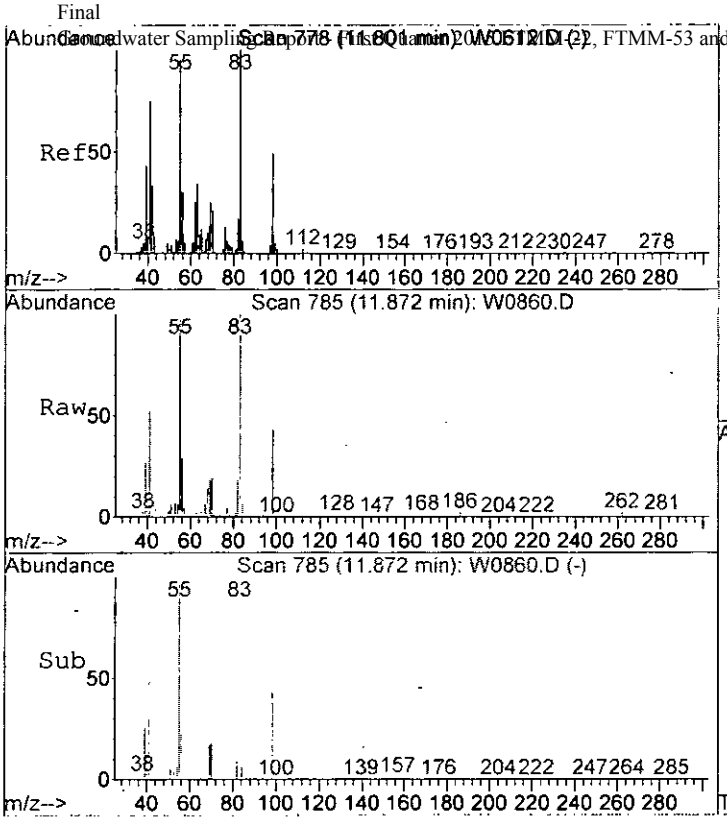


#49
Benzene
Concen: 0.48 ppb
RT: 10.56 min Scan# 652
Delta R.T. 0.07 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion: 78 Resp: 19943

Ion	Ratio	Lower	Upper
78	100		
77	43.4	3.2	43.2#

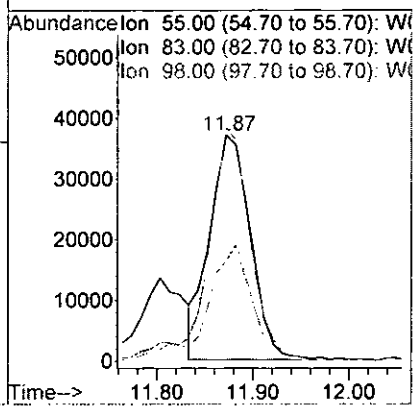


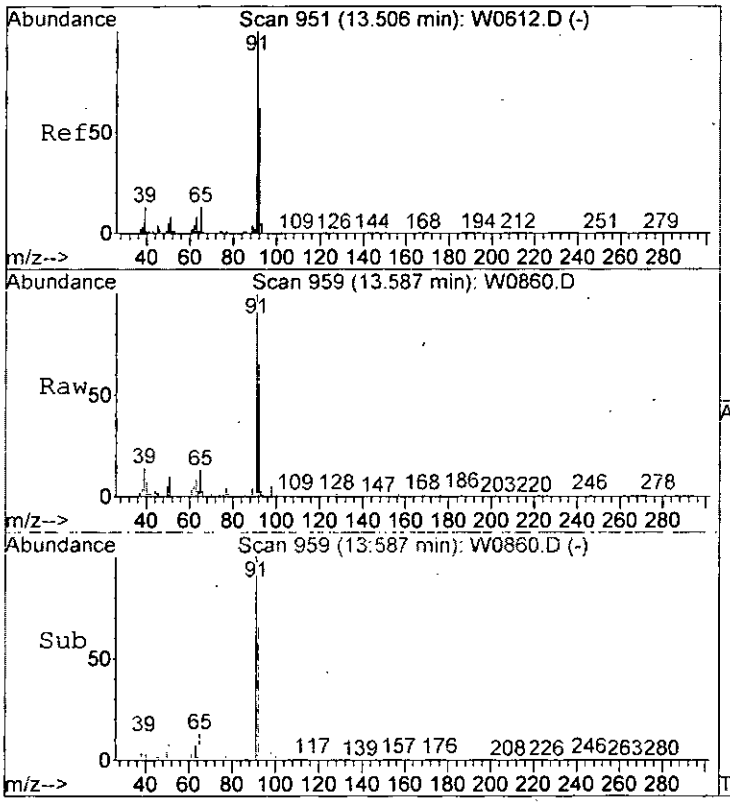


#55
Methylcyclohexane
Concen: 7.15 ppb
RT: 11.87 min Scan# 785
Delta R.T. 0.07 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion: 55 Resp: 109325

Ion	Ratio	Lower	Upper
55	100		
83	103.1	84.8	124.8
98	44.7	31.7	71.7

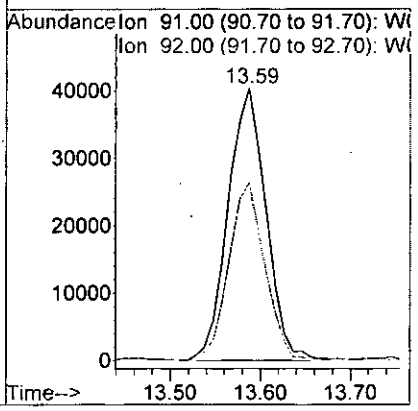


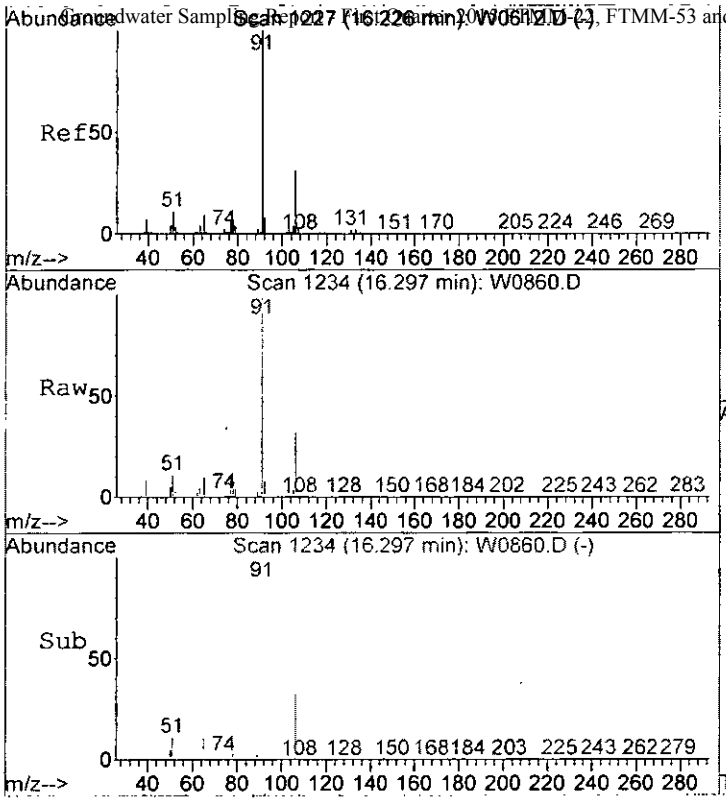


#66
Toluene
Concen: 2.97 ppb
RT: 13.59 min Scan# 959
Delta R.T. 0.08 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion: 91 Resp: 117513

Ion	Ratio	Lower	Upper
91	100		
92	65.3	42.4	82.4

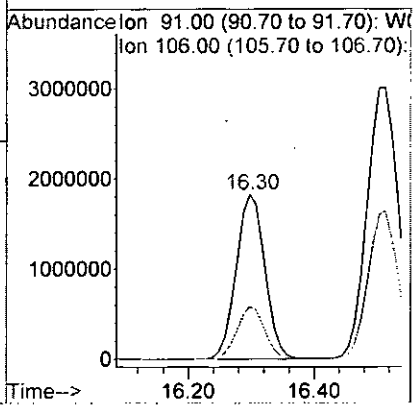


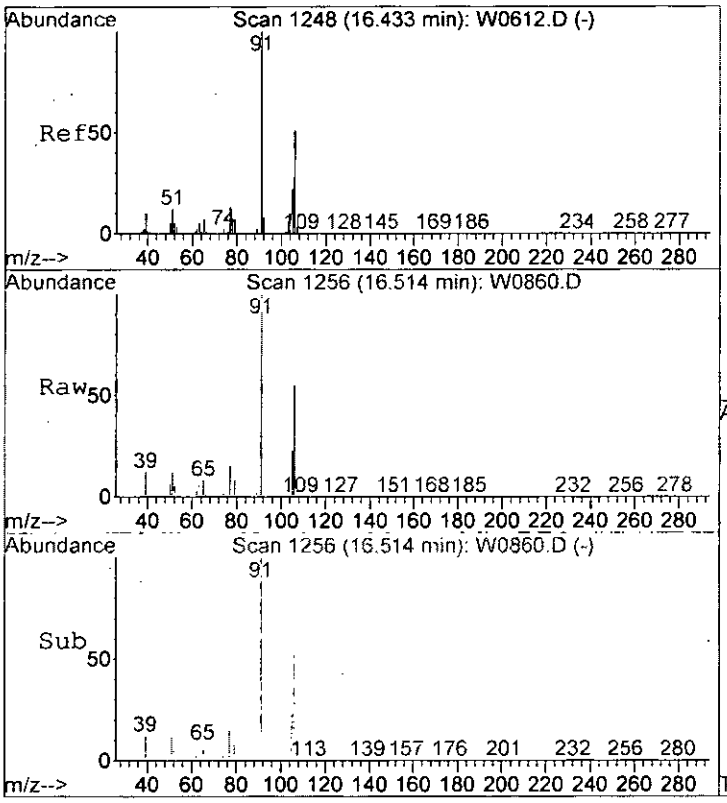


#82
Ethylbenzene
Concen: 130.95 ppb
RT: 16.30 min Scan# 1234
Delta R.T. 0.07 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion: 91 Resp: 5783964

Ion	Ratio	Lower	Upper
91	100		
106	31.8	11.2	51.2

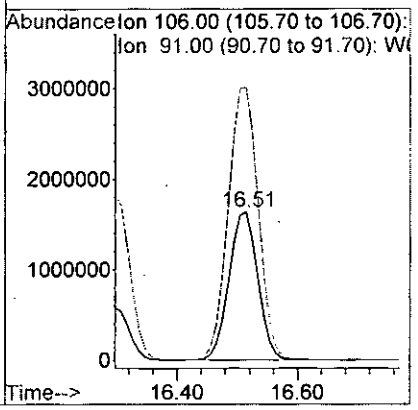


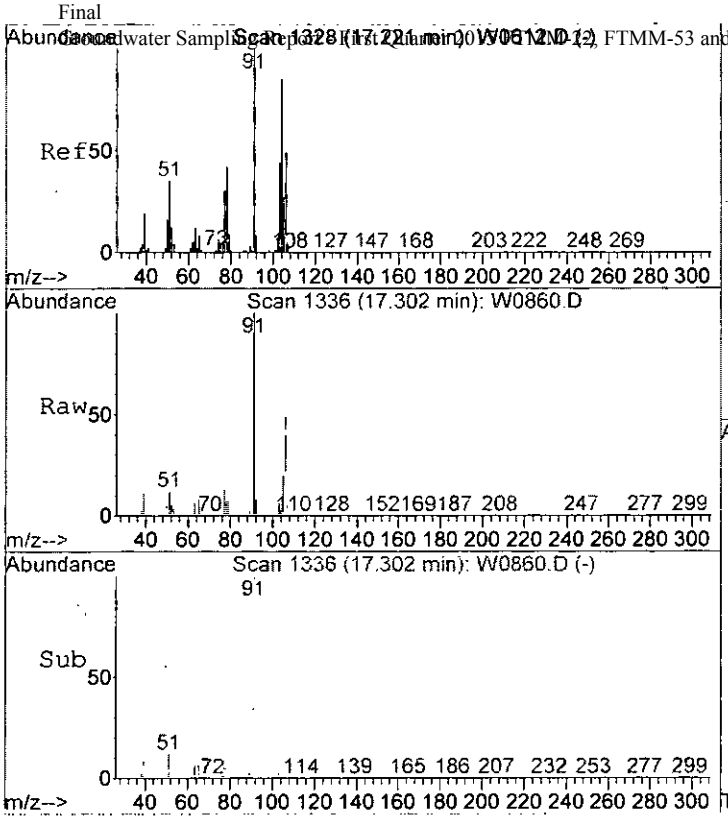


#83
(m+p)Xylene
Concen: 329.70 ppb
RT: 16.51 min Scan# 1256
Delta R.T. 0.08 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:106 Resp: 5396835

Ion	Ratio	Lower	Upper
106	100		
91	183.3	175.2	215.2

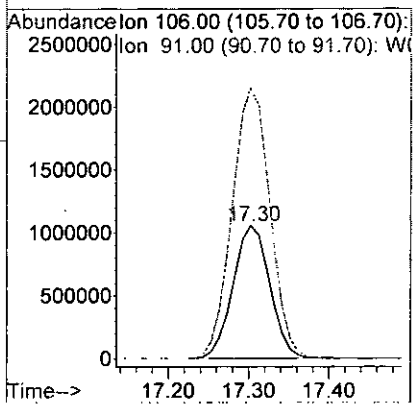


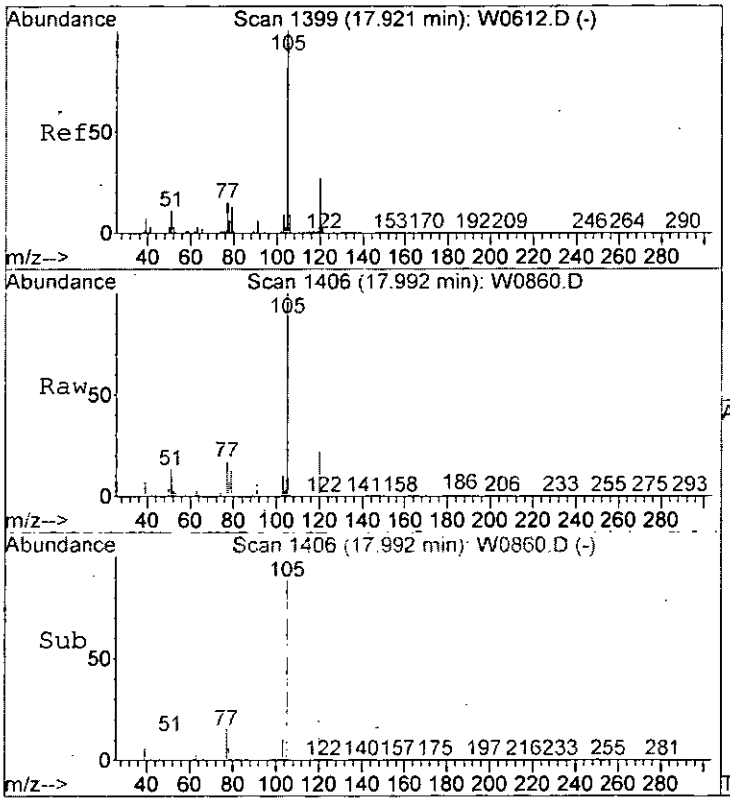


#84
o-Xylene
Concen: 207.25 ppb
RT: 17.30 min Scan# 1336
Delta R.T. 0.08 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:106 Resp: 3361384

Ion	Ratio	Lower	Upper
106	100		
91	203.9	185.2	225.2

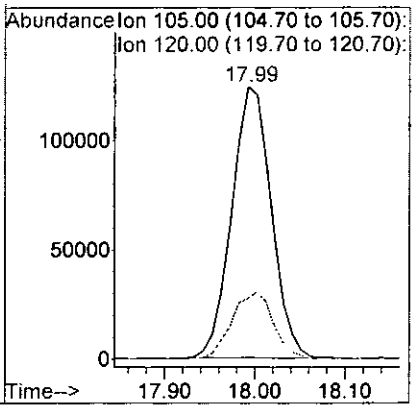


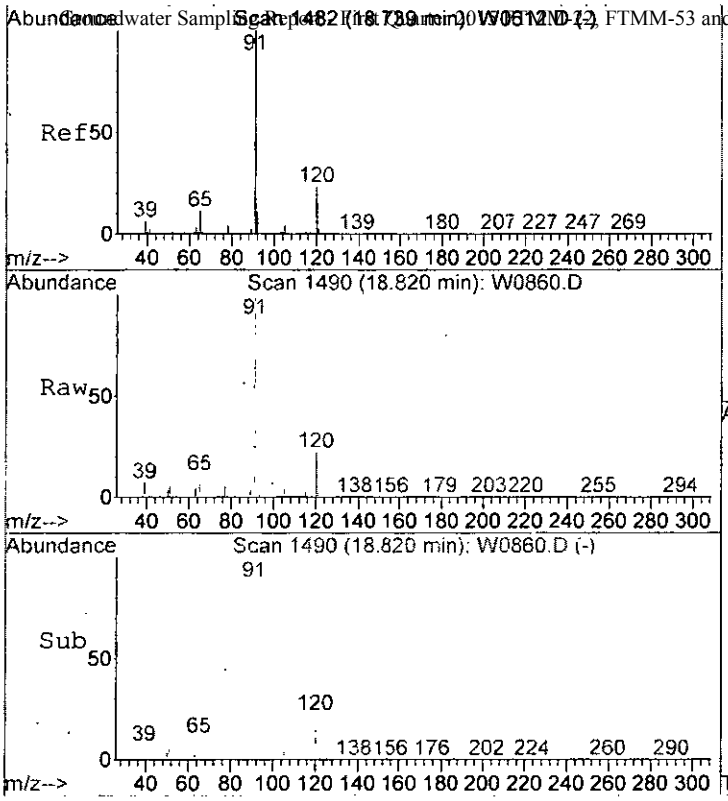


#88
Isopropylbenzene
Concen: 9.22 ppb
RT: 17.99 min Scan# 1406
Delta R.T. 0.07 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:105 Resp: 376331

Ion	Ratio	Lower	Upper
105	100		
120	22.3	7.3	47.3

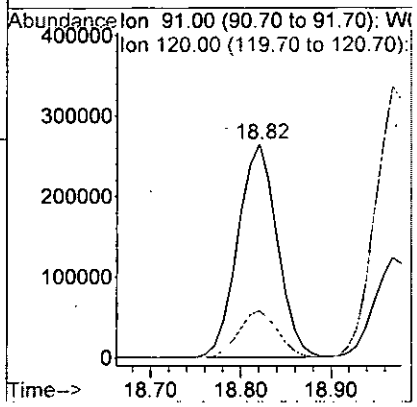


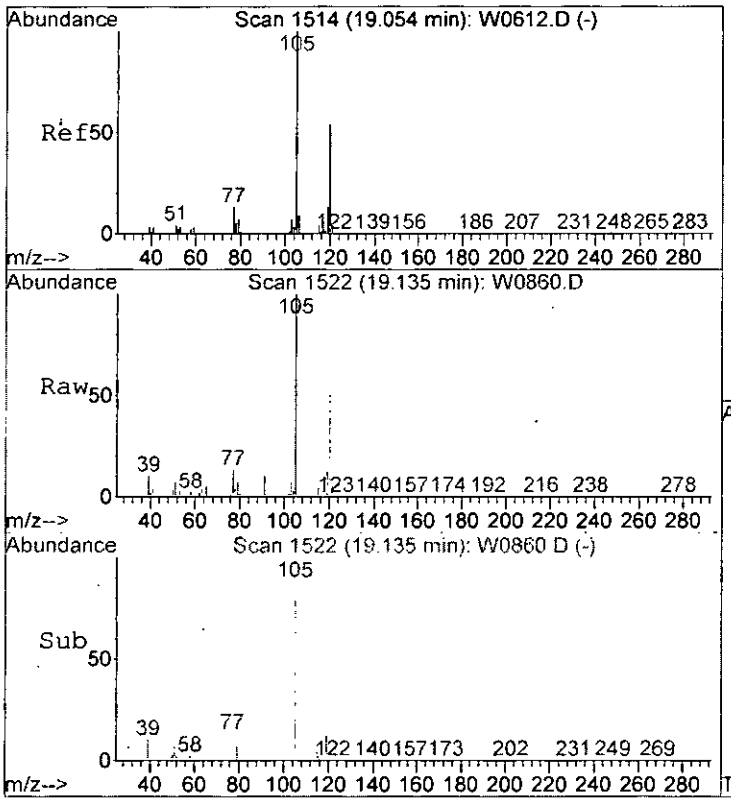


#94
n-Propylbenzene
Concen: 15.70 ppb
RT: 18.82 min Scan# 1490
Delta R.T. 0.08 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion: 91 Resp: 795450

Ion	Ratio	Lower	Upper
91	100		
120	21.9	2.8	42.8

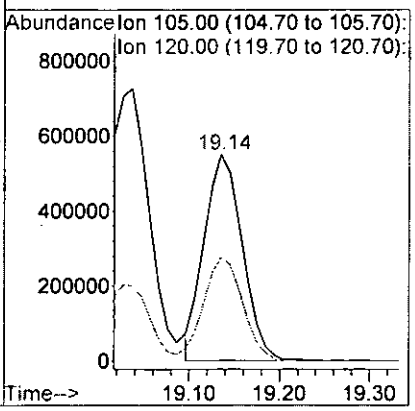


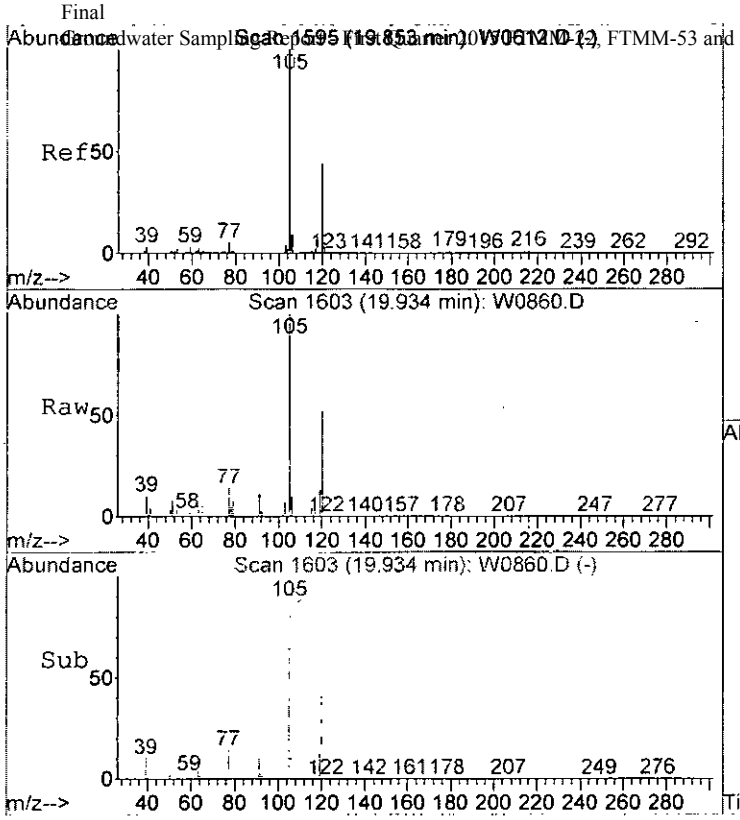


#96
1,3,5-Trimethylbenzene
Concen: 49.08 ppb
RT: 19.14 min Scan# 1522
Delta R.T. 0.08 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:105 Resp: 1616091

Ion	Ratio	Lower	Upper
105	100		
120	50.3	33.7	73.7

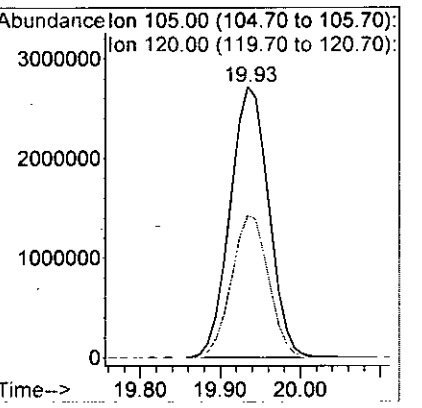


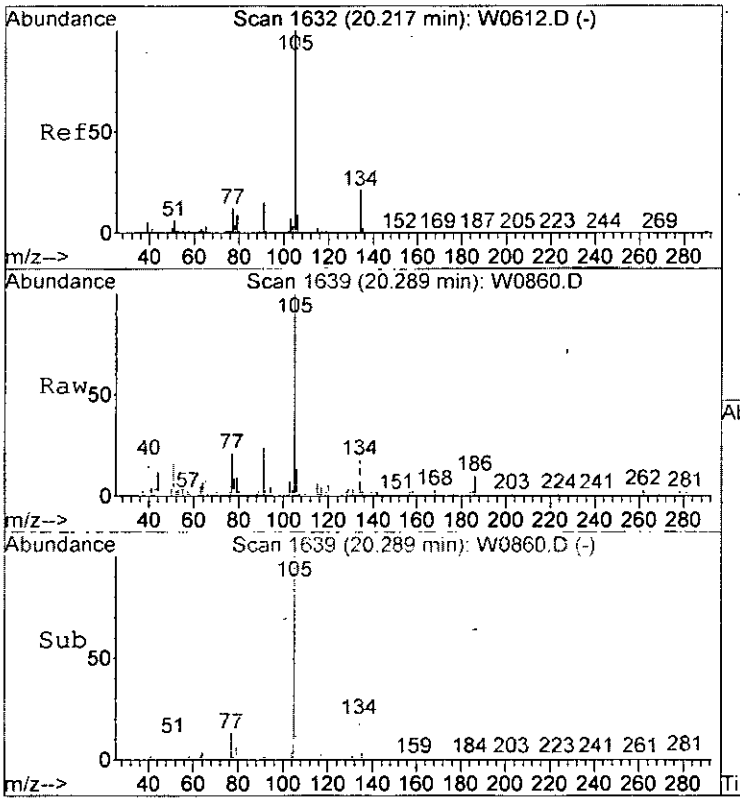


#101
1,2,4-Trimethylbenzene
Concen: 271.60 ppb
RT: 19.93 min Scan# 1603
Delta R.T. 0.08 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:105 Resp: 9109519

Ion	Ratio	Lower	Upper
105	100		
120	52.3	30.4	70.4

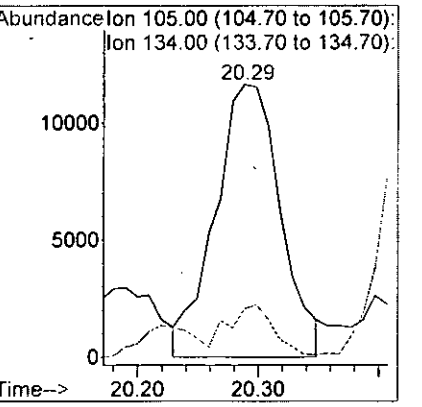


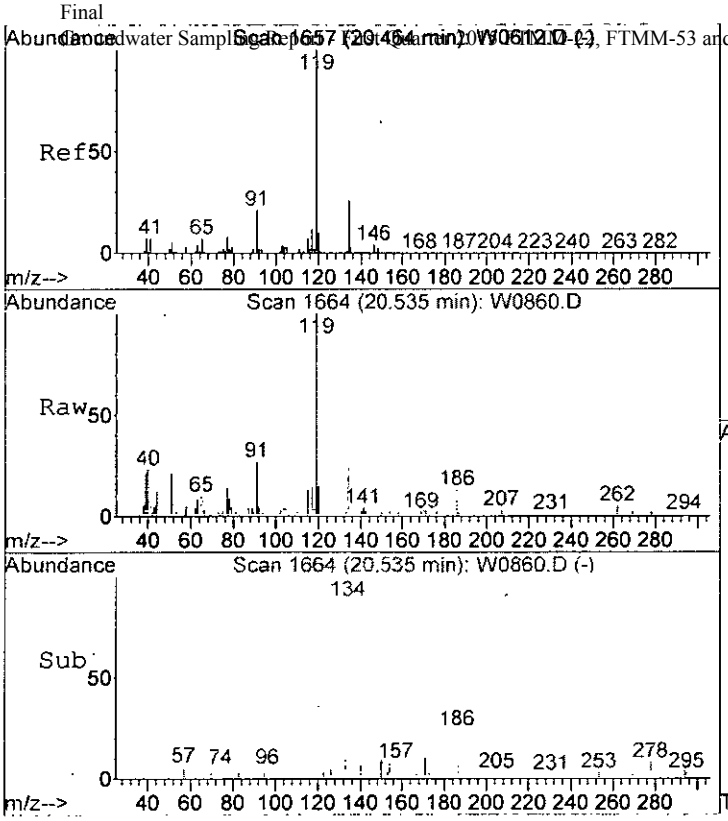


#103
sec-Butylbenzene
Concen: 1.06 ppb m
RT: 20.29 min Scan# 1639
Delta R.T. 0.07 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:105 Resp: 43661

Ion	Ratio	Lower	Upper
105	100		
134	17.7	0.8	40.8

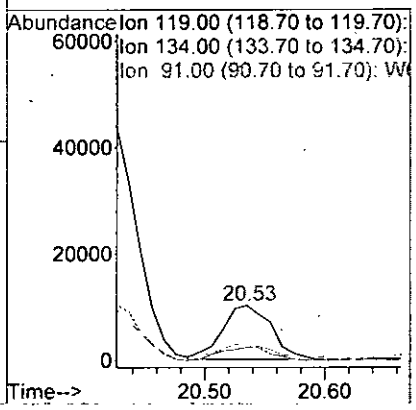


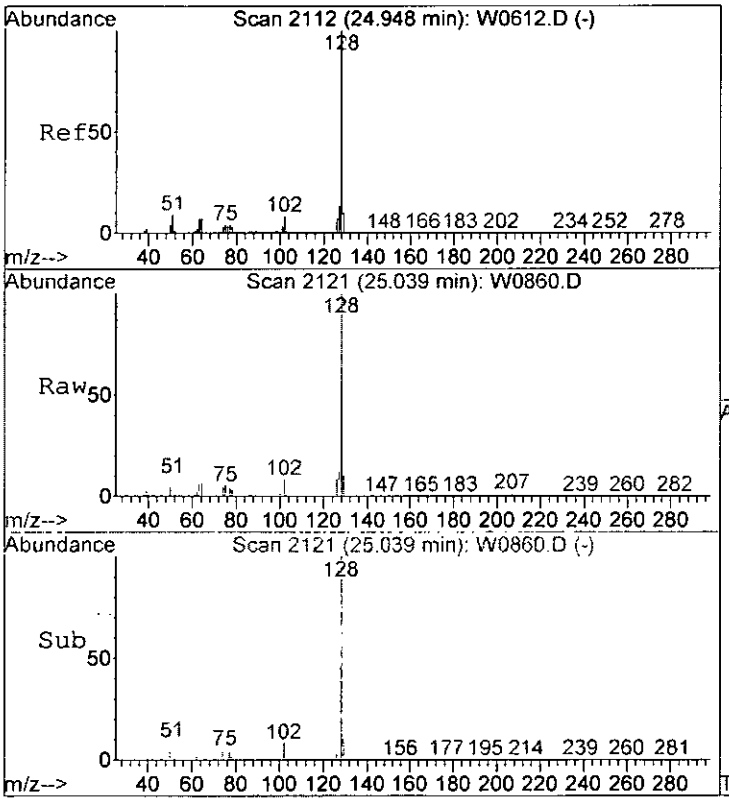


#104
p-Isopropyltoluene
Concen: 0.83 ppb
RT: 20.53 min Scan# 1664
Delta R.T. 0.07 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:119 Resp: 28408

Ion	Ratio	Lower	Upper
119	100		
134	24.0	6.5	46.5
91	26.6	1.3	41.3

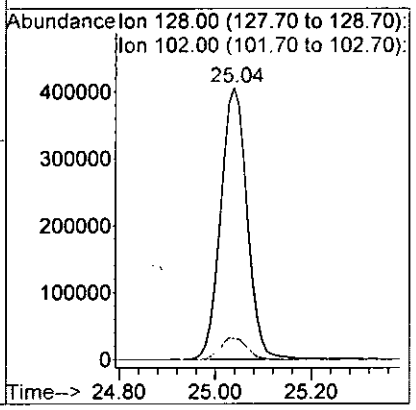




#118
Naphthalen
Concen: 62.04 ppb
RT: 25.04 min Scan# 2121
Delta R.T. 0.09 min
Lab File: W0860.D
Acq: 2 Apr 2015 8:48 pm

Tgt Ion:128 Resp: 1541993

Ion	Ratio	Lower	Upper
128	100		
102	7.7	0.0	27.8



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D Vial: 19
Acq On : 2 Apr 2015 8:48 pm Operator: K.Ruest
Sample : R1502204-004|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.831	166	172	188	rVB	1014270	2739473	8.86%	1.334%
2	6.215	205	211	220	rVB	546953	1419136	4.59%	0.691%
3	7.516	335	343	349	rBV	932563	3080120	9.96%	1.500%
4	7.664	354	358	370	rVV	230111	665136	2.15%	0.324%
5	7.871	371	379	388	rVB	633814	1786997	5.78%	0.870%
6	8.216	409	414	421	rBV	213288	550027	1.78%	0.268%
7	8.423	430	435	438	rBV	142076	386718	1.25%	0.188%
8	8.482	438	441	448	rVB	146850	352308	1.14%	0.172%
9	8.837	474	477	484	rVB3	113539	341987	1.11%	0.166%
10	9.162	500	510	519	rBV	1698264	5017989	16.23%	2.443%
11	9.803	566	575	579	rBV	1081250	3316797	10.73%	1.615%
12	9.862	579	581	591	rVB	538409	1460736	4.72%	0.711%
13	10.098	596	605	606	rVV3	98294	332421	1.08%	0.162%
14	10.157	606	611	622	rVB2	314338	1114873	3.61%	0.543%
15	10.404	629	636	645	rBV	579026	1737065	5.62%	0.846%
16	10.611	645	657	663	rVV2	131610	426303	1.38%	0.208%
17	10.719	663	668	672	rVV4	122207	419649	1.36%	0.204%
18	10.798	672	676	685	rVB3	91007	327651	1.06%	0.160%
19	10.995	689	696	710	rBV	1345753	3957756	12.80%	1.927%
20	11.803	770	778	781	rBV3	98249	334476	1.08%	0.163%
21	11.882	781	786	794	rVB	197536	590342	1.91%	0.287%
22	12.621	852	861	868	rBV	117745	373632	1.21%	0.182%
23	13.459	938	946	954	rBV	1574887	4793711	15.50%	2.334%
24	16.100	1205	1214	1225	rBV	1386692	4428100	14.32%	2.156%
25	16.297	1225	1234	1246	rVV	4291229	13295717	43.00%	6.473%
26	16.504	1246	1255	1270	rVV	9147592	30921123	100.00%	15.054%
27	17.302	1327	1336	1347	rBV	6243743	20056487	64.86%	9.764%
28	17.992	1399	1406	1415	rVB2	295934	921032	2.98%	0.448%
29	18.337	1433	1441	1453	rBV	1082607	3512074	11.36%	1.710%
30	18.820	1481	1490	1497	rBV	535671	1625616	5.26%	0.791%
31	18.968	1497	1505	1509	rVV	2730696	8933415	28.89%	4.349%
32	19.037	1509	1512	1517	rVV	1753978	4758844	15.39%	2.317%
33	19.135	1517	1522	1532	rVB	1580858	4843626	15.66%	2.358%
34	19.599	1560	1569	1579	rBV	2581443	8287792	26.80%	4.035%
35	19.934	1591	1603	1624	rBV	8257429	27131449	87.74%	13.209%
36	20.417	1647	1652	1658	rBV	109880	317536	1.03%	0.155%
37	20.693	1672	1680	1684	rBV	1433014	4383154	14.18%	2.134%
38	20.791	1684	1690	1702	rVB	3422529	10092733	32.64%	4.914%
39	21.067	1712	1718	1721	rBV	256081	694173	2.24%	0.338%

40	21.195	1726	1731	1746	rVB2	2767096	8661594	28.01%	4.217%
41	21.599	1765	1772	1779	rBV2	199390	613011	1.98%	0.298%
42	21.727	1779	1785	1789	rBV	360860	1112079	3.60%	0.541%
43	21.796	1789	1792	1799	rVB	286499	765409	2.48%	0.373%
44	21.934	1799	1806	1814	rBV	636412	1864726	6.03%	0.908%
45	22.102	1817	1823	1829	rBV	101223	318415	1.03%	0.155%
46	22.240	1829	1837	1843	rVV2	388756	1282255	4.15%	0.624%
47	22.545	1861	1868	1877	rBV	176554	578876	1.87%	0.282%
48	22.703	1877	1884	1889	rVV	381175	1152621	3.73%	0.561%
49	22.811	1889	1895	1902	rVB	519587	1601315	5.18%	0.780%
50	23.393	1946	1954	1962	rBV	370548	1234607	3.99%	0.601%
51	23.649	1972	1980	1983	rBV	244869	835050	2.70%	0.407%
52	23.728	1983	1988	1996	rVV	663340	2290017	7.41%	1.115%
53	24.073	2016	2023	2030	rBV6	83255	331079	1.07%	0.161%
54	25.039	2113	2121	2132	rBV	810479	3034022	9.81%	1.477%

Sum of corrected areas: 205403250

W0860.D W032315.M Fri Apr 03 15:00:36 2015

00094

LabChrom Report - Integrated Chromatogram

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File        : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D
Operator    : K.Ruest
Acquired    :  2 Apr 2015   8:48 pm using AcqMethod W032315
Instrument  :   MS #7
Sample Name: R1502204-004|2.5
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 19
Quant File :W032315.RES (RTE Integrator)
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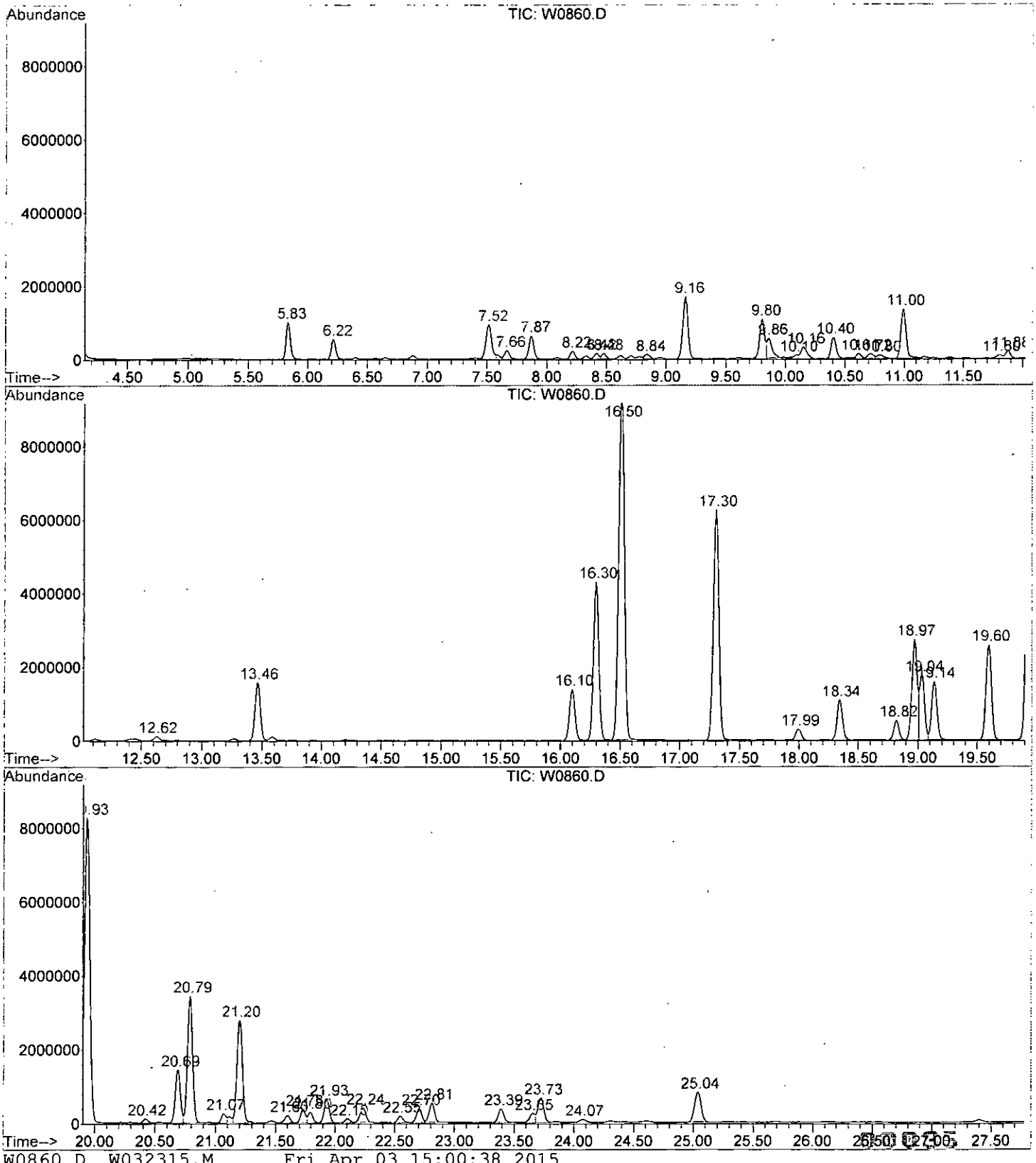

W0860.D W032315.M Fri Apr 03 15:00:38 2015

Library Search Compound Report


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Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D        Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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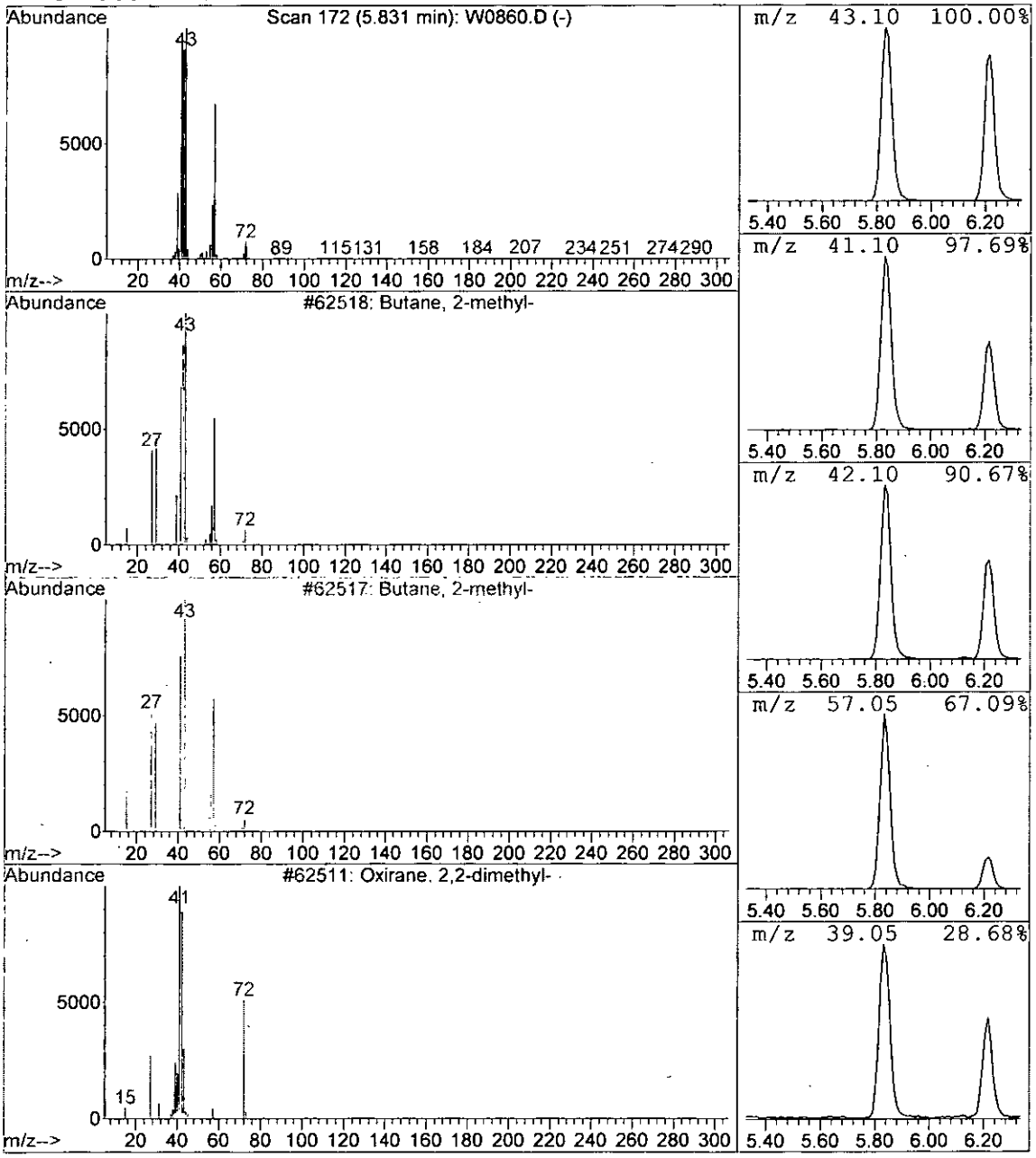
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.83	41.30 ppb	2739470	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	Oxirane, 2,2-dimethyl-	72	C4H8O	000558-30-5	33
4	3-Buten-1-ol	72	C4H8O	000627-27-0	9



Library Search Compound Report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Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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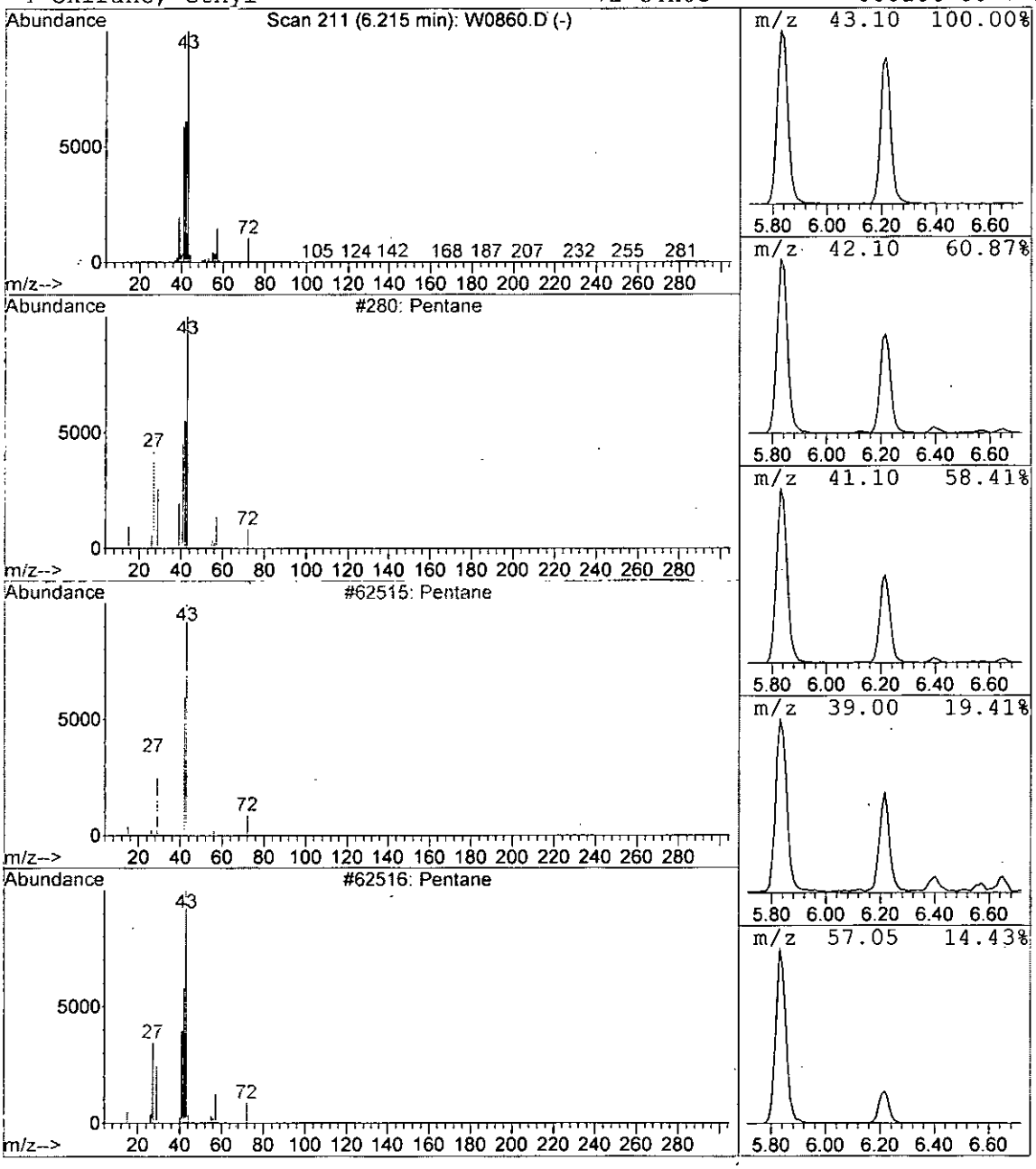
****

Peak Number 2 Pentane — Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.22	21.39 ppb	1419140	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	86
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53



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Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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Peak Number  3  Pentane, 2-methyl-              Concentration Rank  7
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R.T.	EstConc	Area	Relative to ISTD	R.T.
7.52	46.43 ppb	3080120	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
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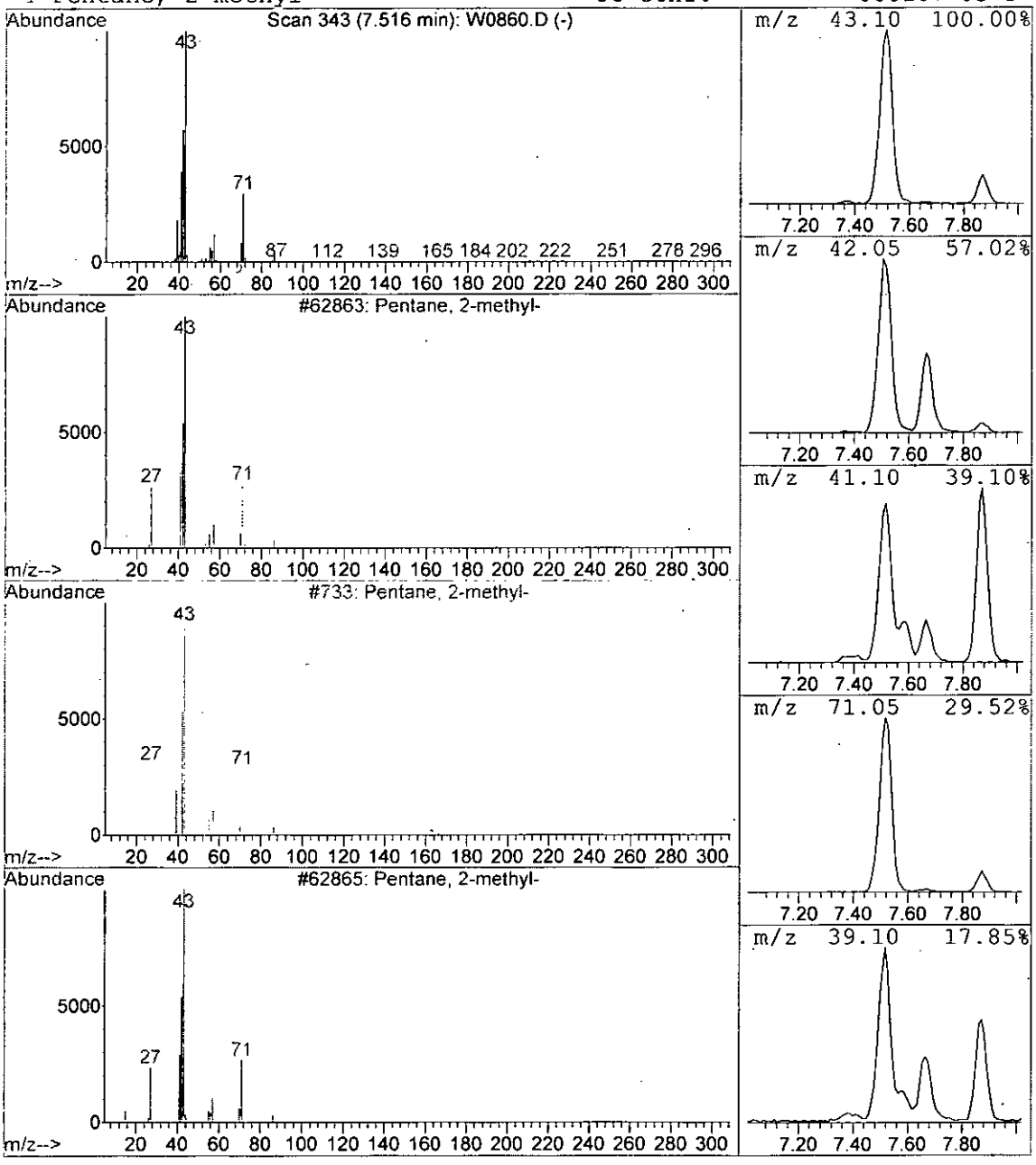

Library Search Compound Report


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Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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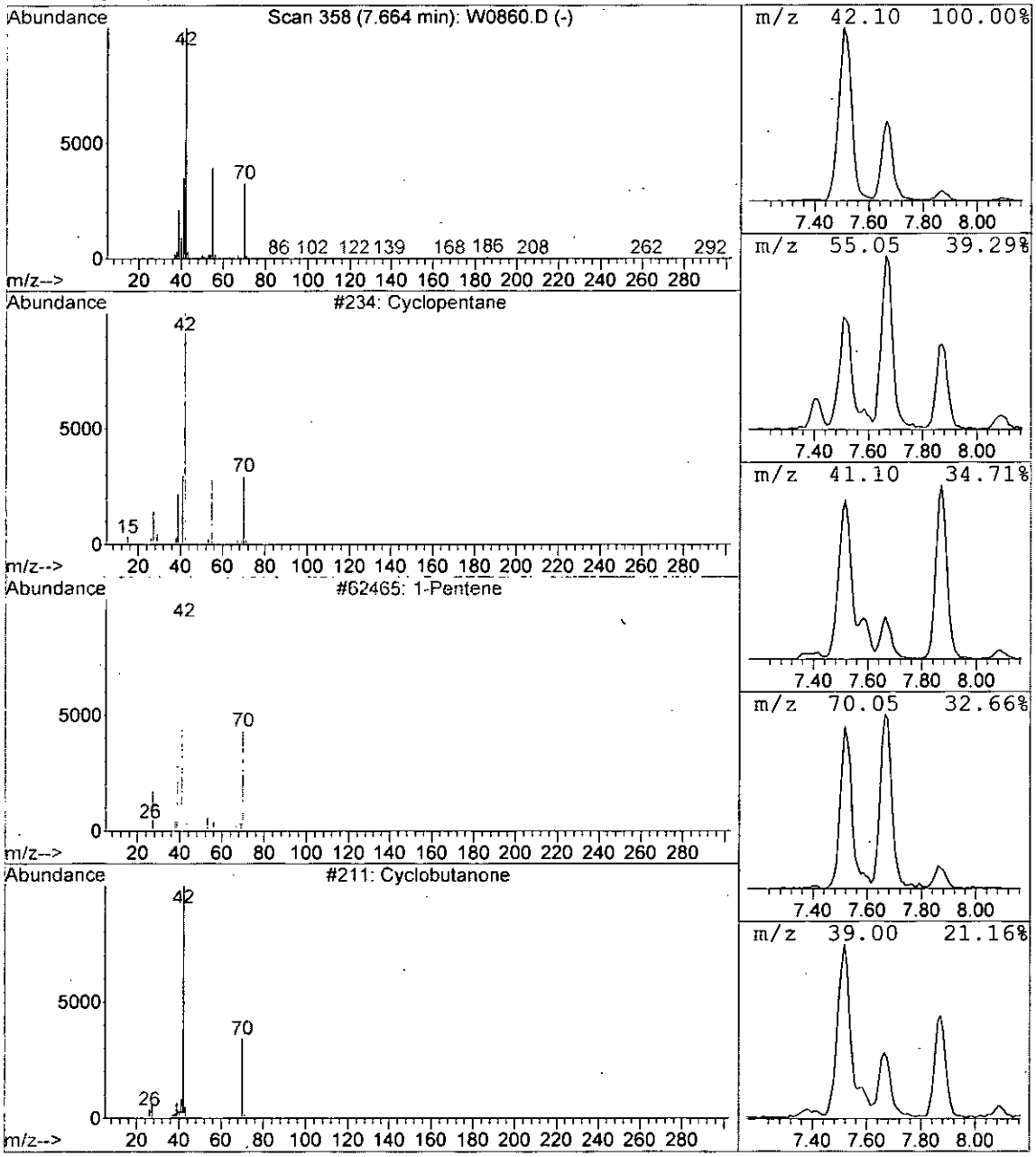
Peak Number 4 Cyclopentane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.66	10.03 ppb	665136	Pentafluorobenzene	9.80

unknown

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	80
2	1-Pentene	70	C5H10	000109-67-1	43
3	Cyclobutanone	70	C4H6O	001191-95-3	39
4	1-Pentene	70	C5H10	000109-67-1	39



00099

Library Search Compound Report

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Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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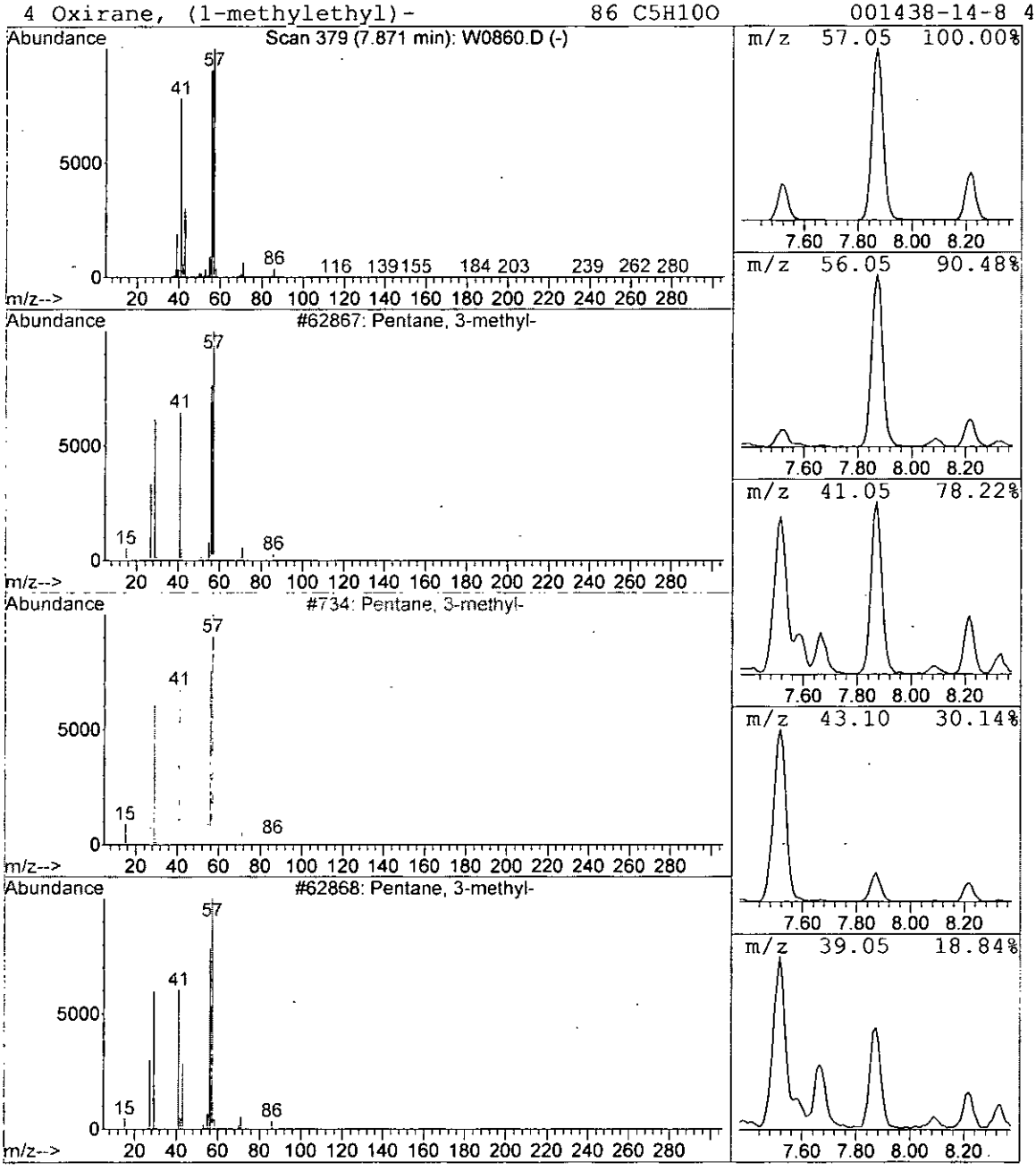
****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.87	26.94 ppb	1787000	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	86
4	Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	45



W0860.D W032315.M Fri Apr 03 15:00:49 2015

Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D Vial: 19
Acq On : 2 Apr 2015 8:48 pm Operator: K.Ruest
Sample : R1502204-004|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

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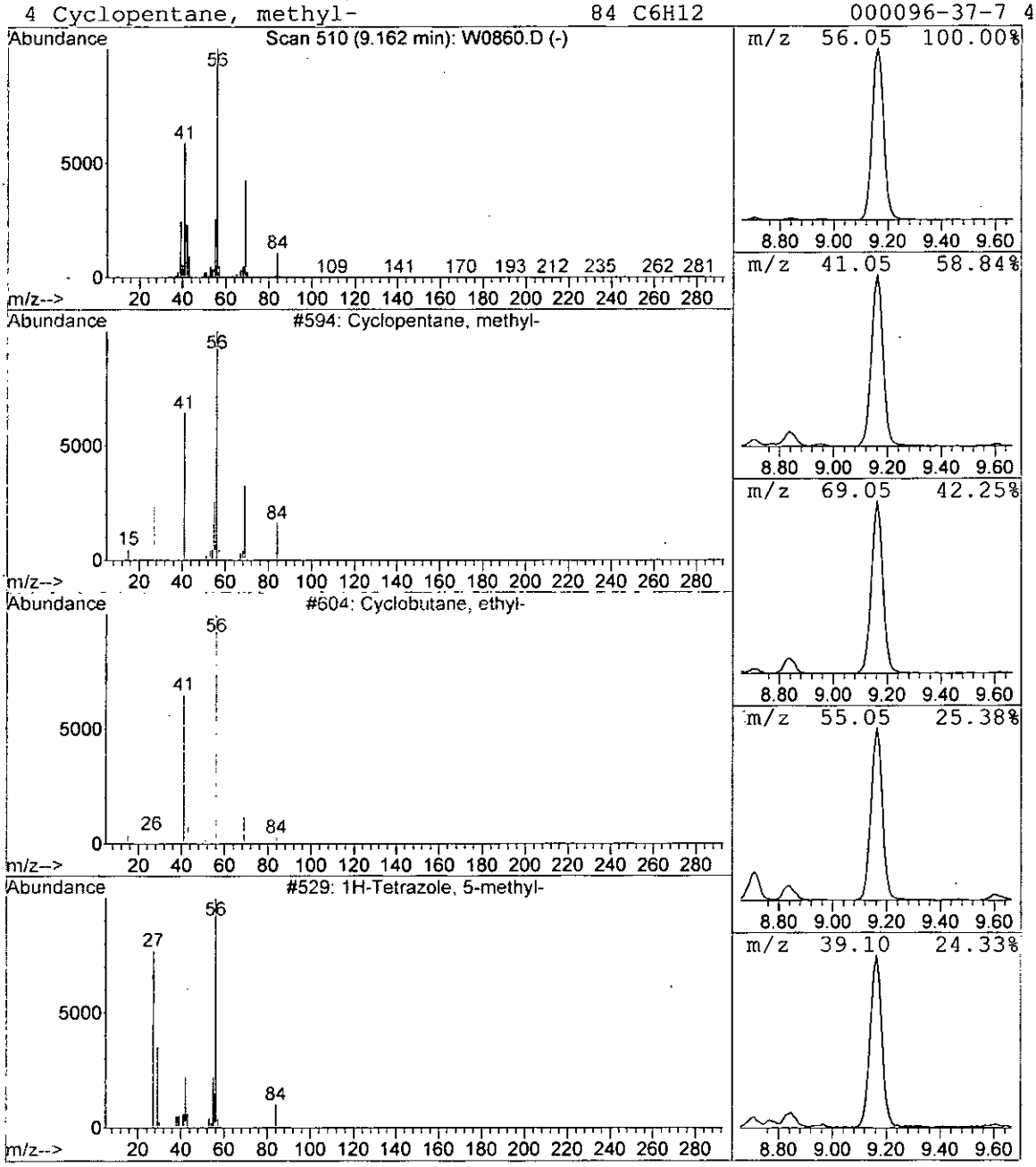
Peak Number 6 Cyclopentane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.16	75.65 ppb	5017990	Pentafluorobenzene	9.80

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	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	72
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	43



Library Search Compound Report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Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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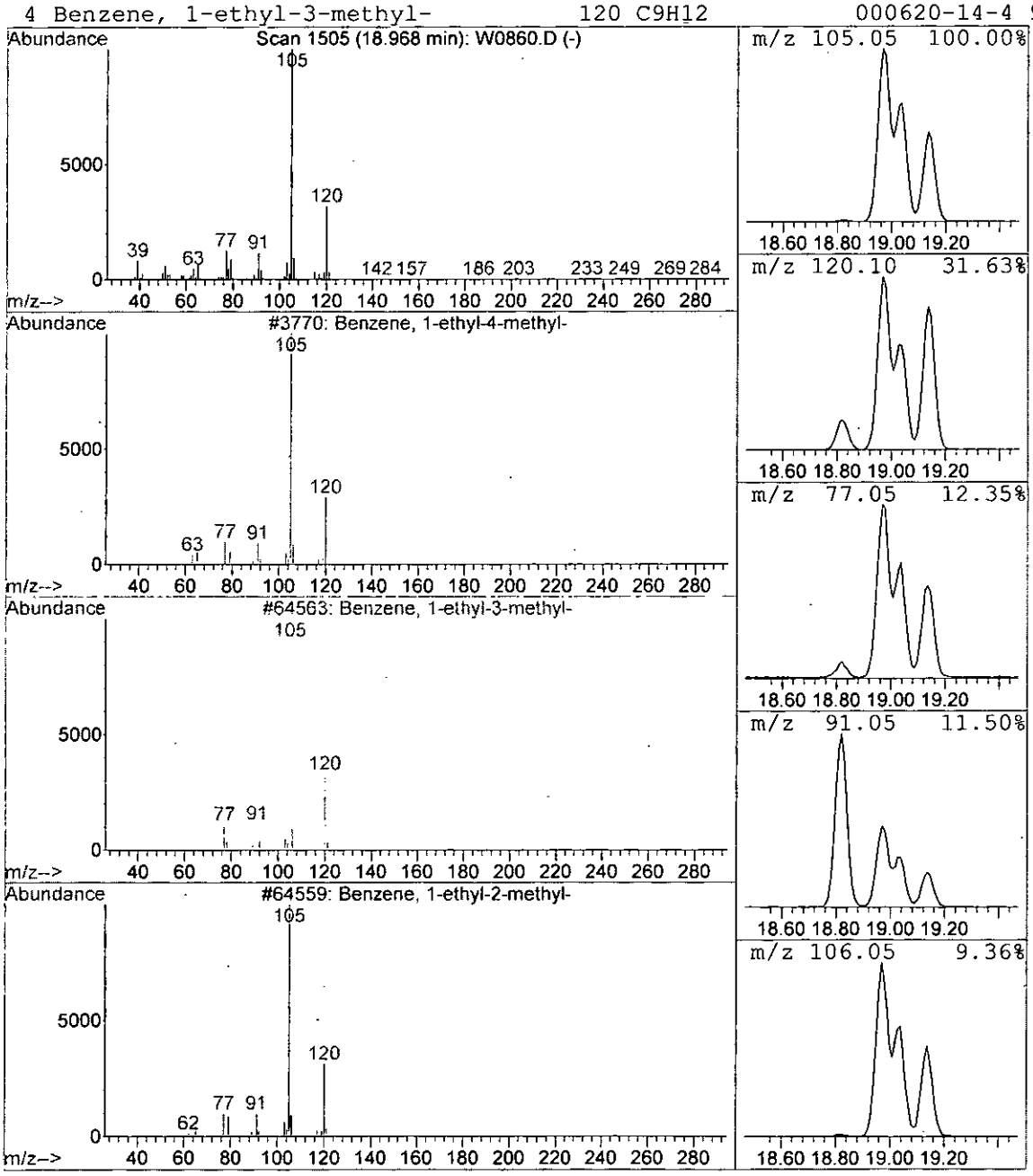
Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	101.91 ppb	8933420	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	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-3-methyl-	120	C9H12	000620-14-4	95



00102

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Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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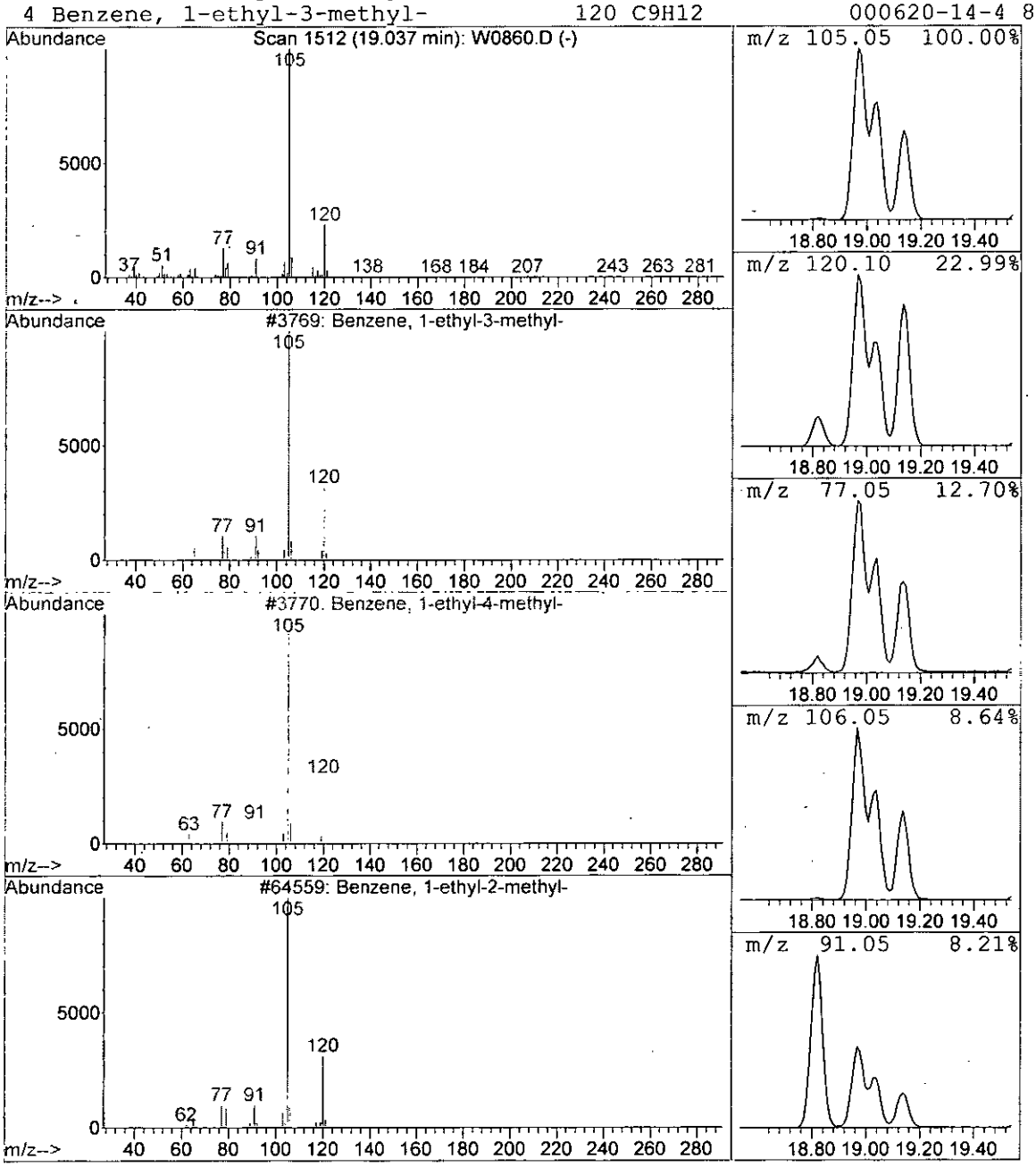
****

Peak Number 8 Benzene, 1-ethyl-3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	54.29 ppb	4758840	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	87
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87



00103

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Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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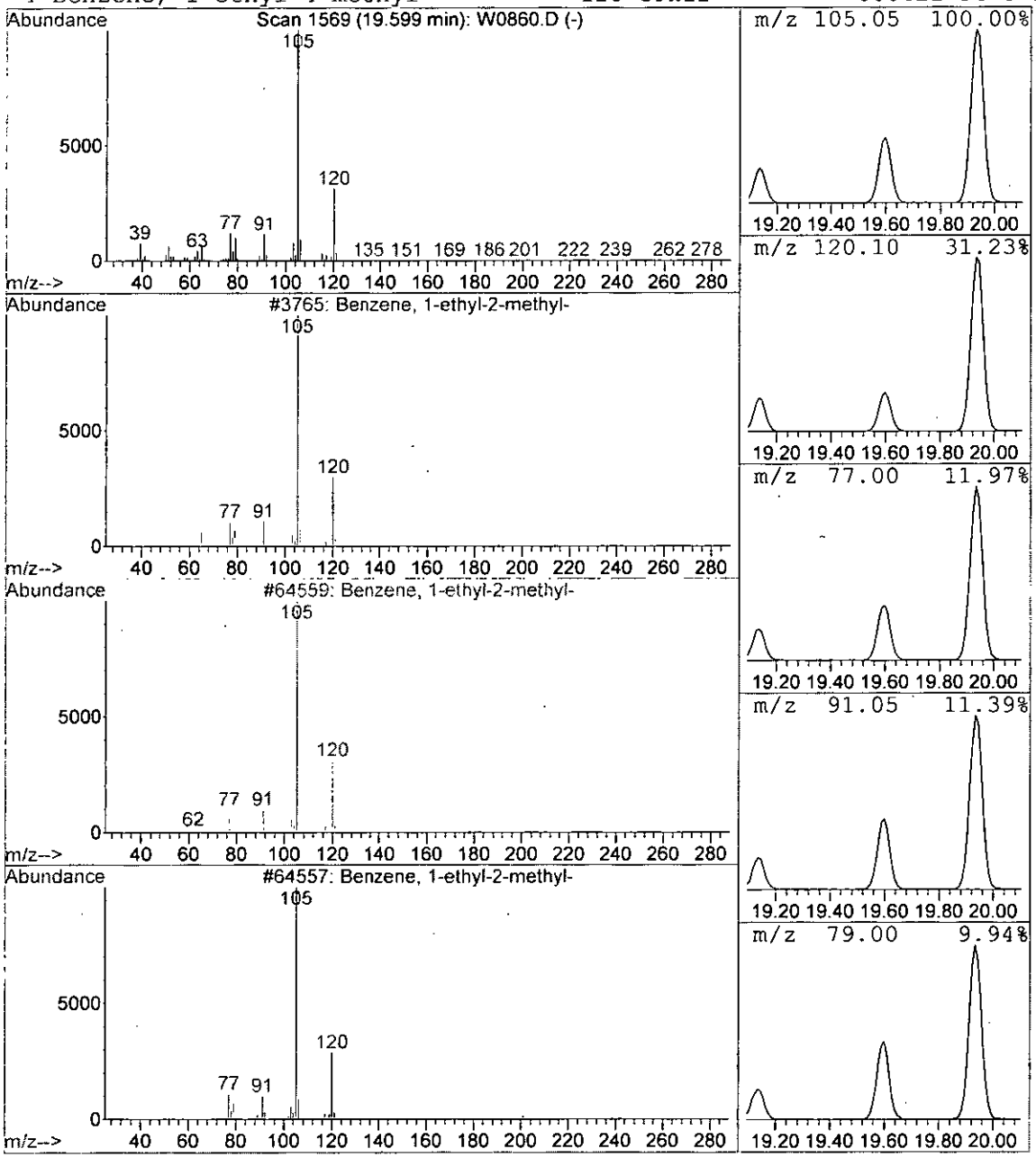
Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.60	94.54 ppb	8287790	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94



Library Search Compound Report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Sample    : R1502204-004|2.5                          Inst    : MS #7
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Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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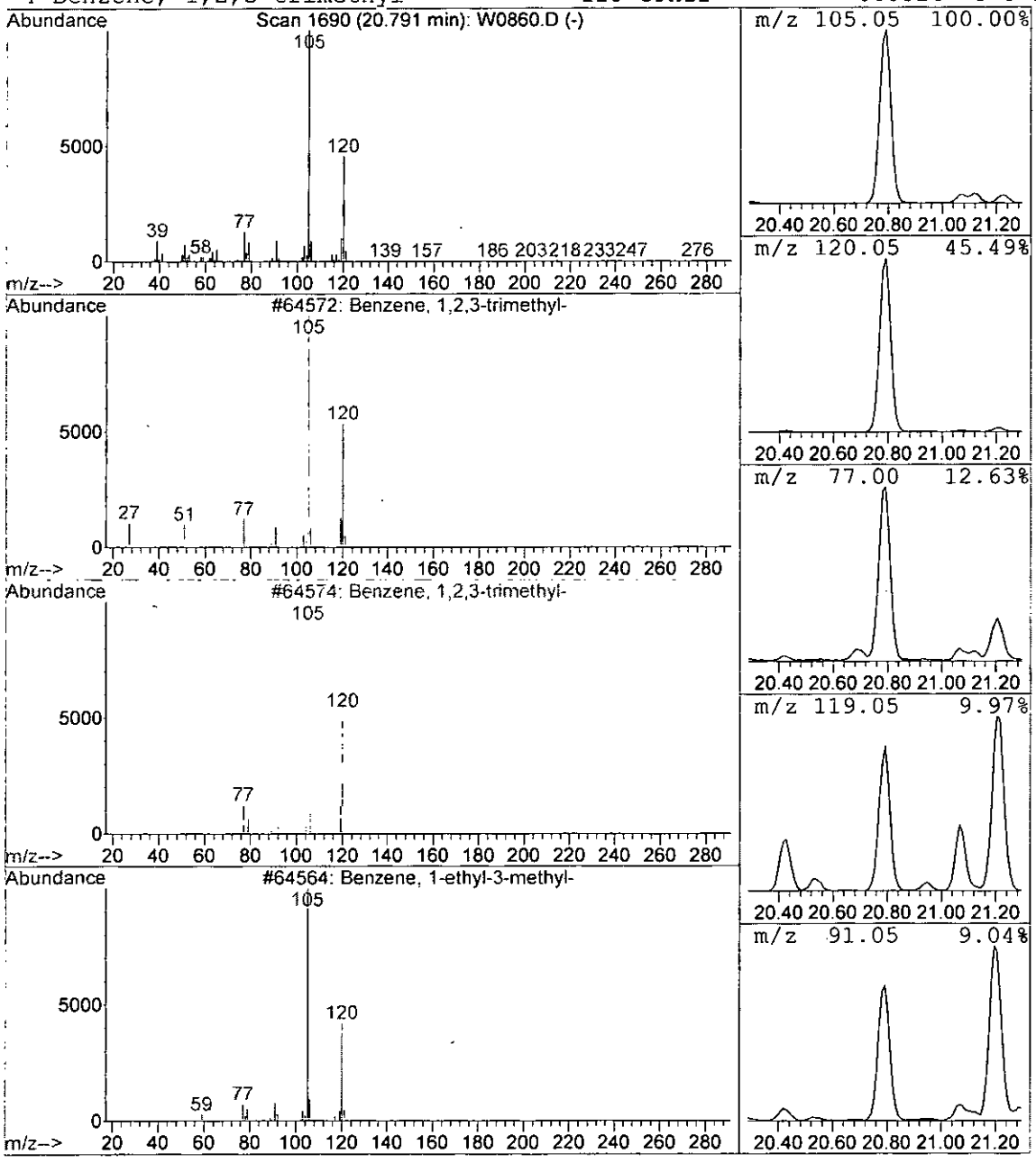
Peak Number 10 Benzene, 1,2,3-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.79	115.13 ppb	10092700	d4 - Dichlorobenzene	20.69

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-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91



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Sample    : R1502204-004|2.5                          Inst    : MS #7
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MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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****

Peak Number 11 Indane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.20	98.81 ppb	8661590	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	81
2	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	72
3	Indane	118	C9H10	000496-11-7	55
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	47

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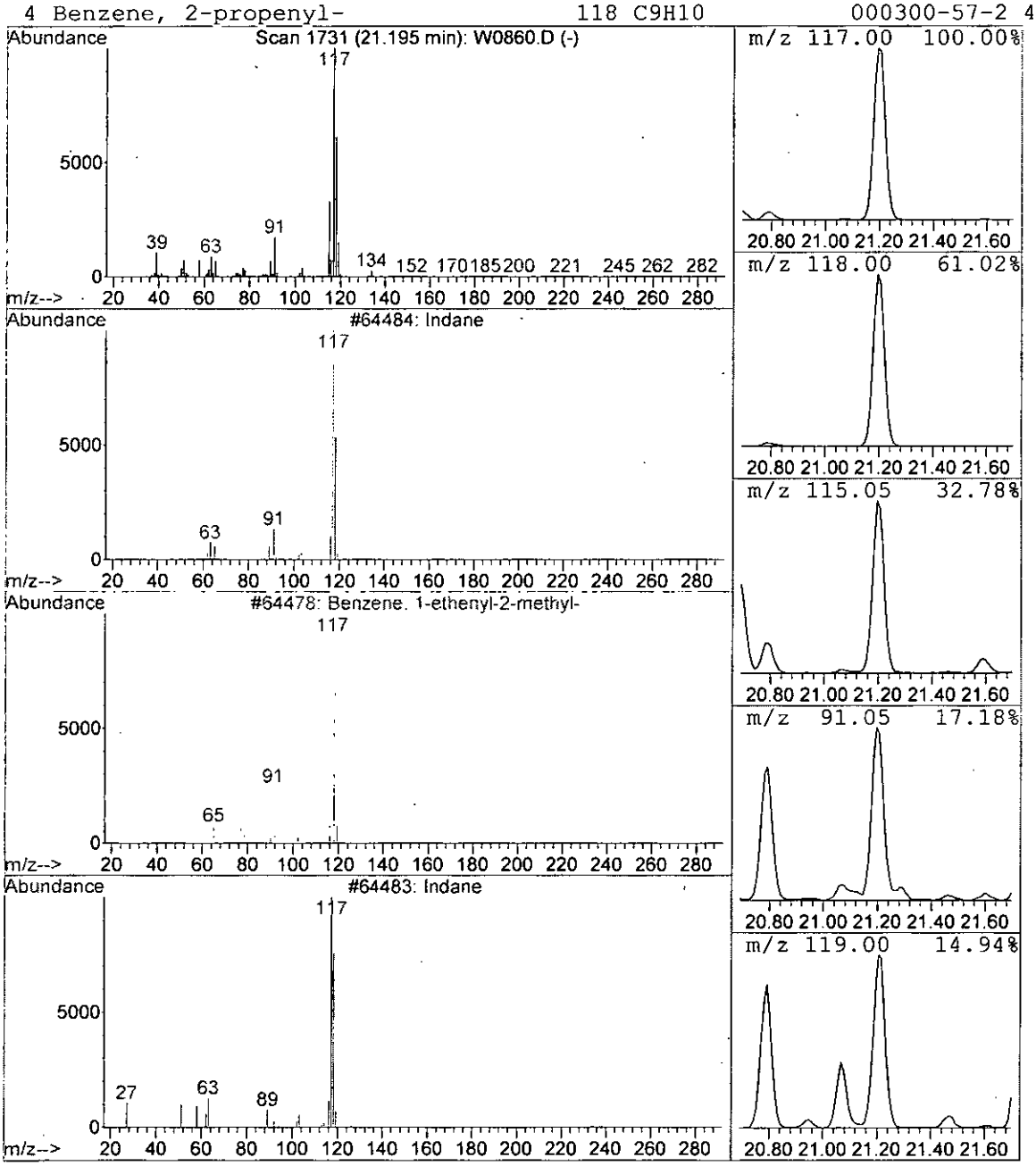


Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D Vial: 19
Acq On : 2 Apr 2015 8:48 pm Operator: K.Ruest
Sample : R1502204-004|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

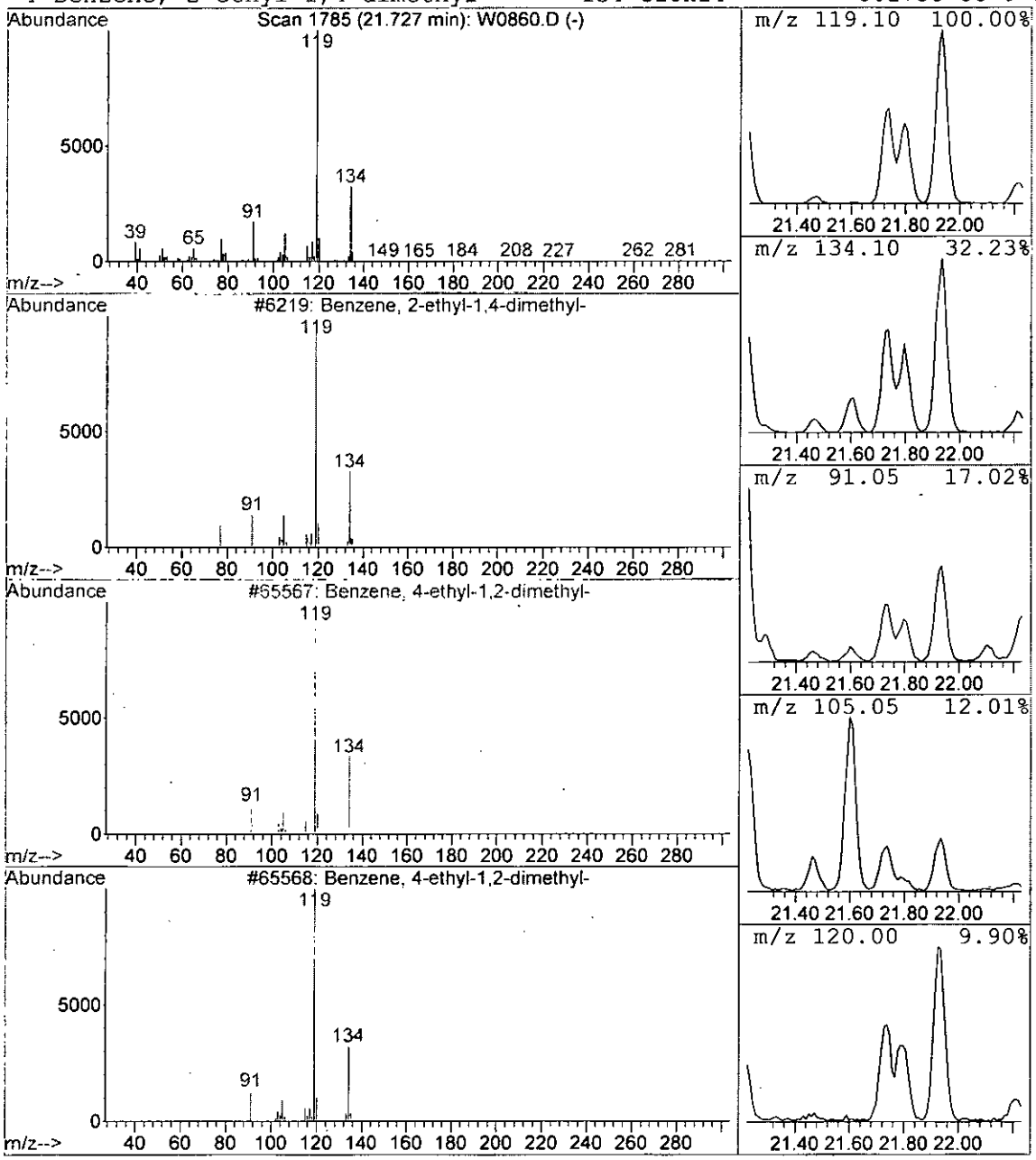
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 12 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.73	12.69 ppb	1112080	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93



Library Search Compound Report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Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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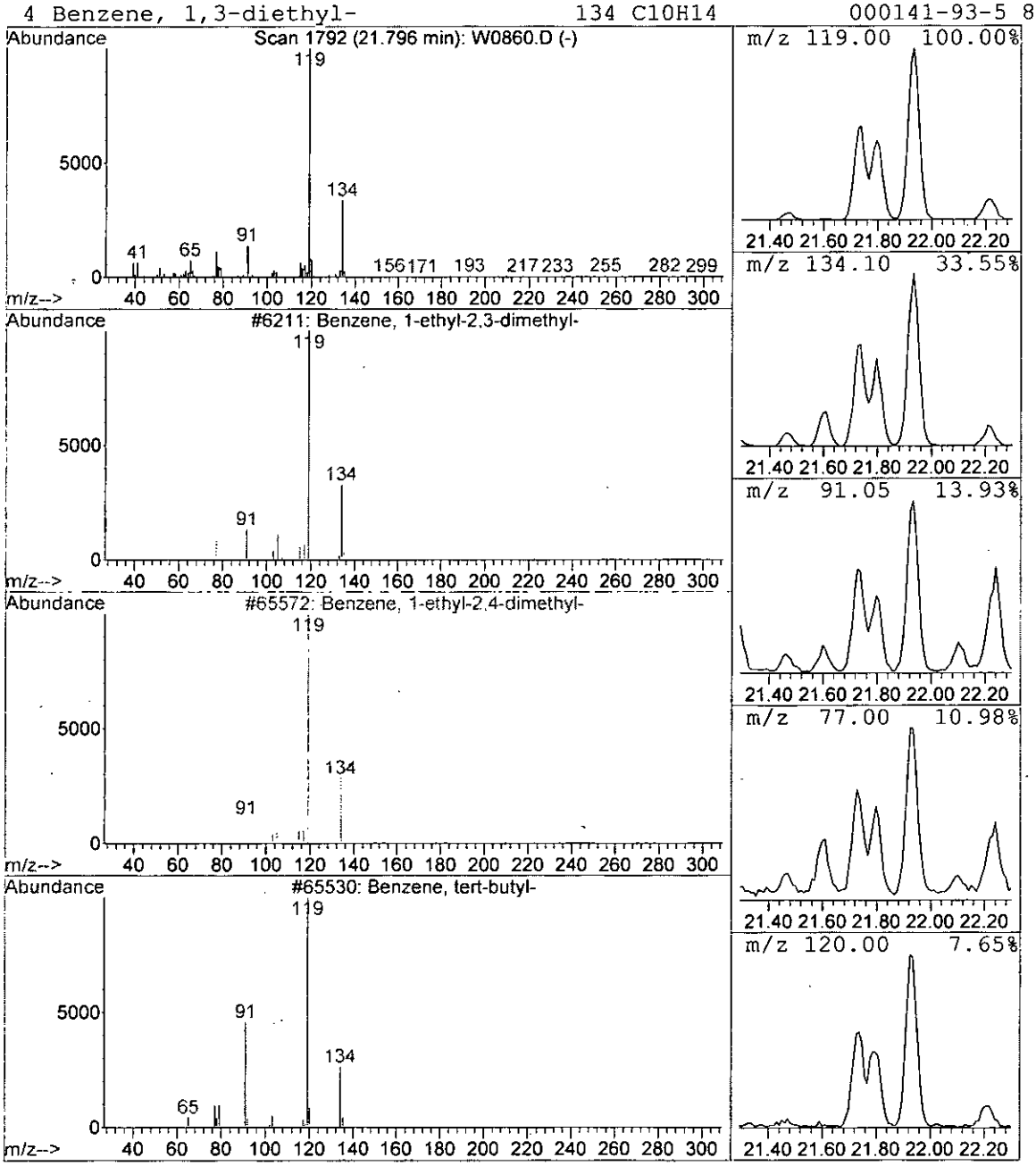
Peak Number 13 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.80	8.73 ppb	765409	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	90
3	Benzene, tert-butyl-	134	C10H14	000098-06-6	83
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	80



Library Search Compound Report


```
Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D        Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

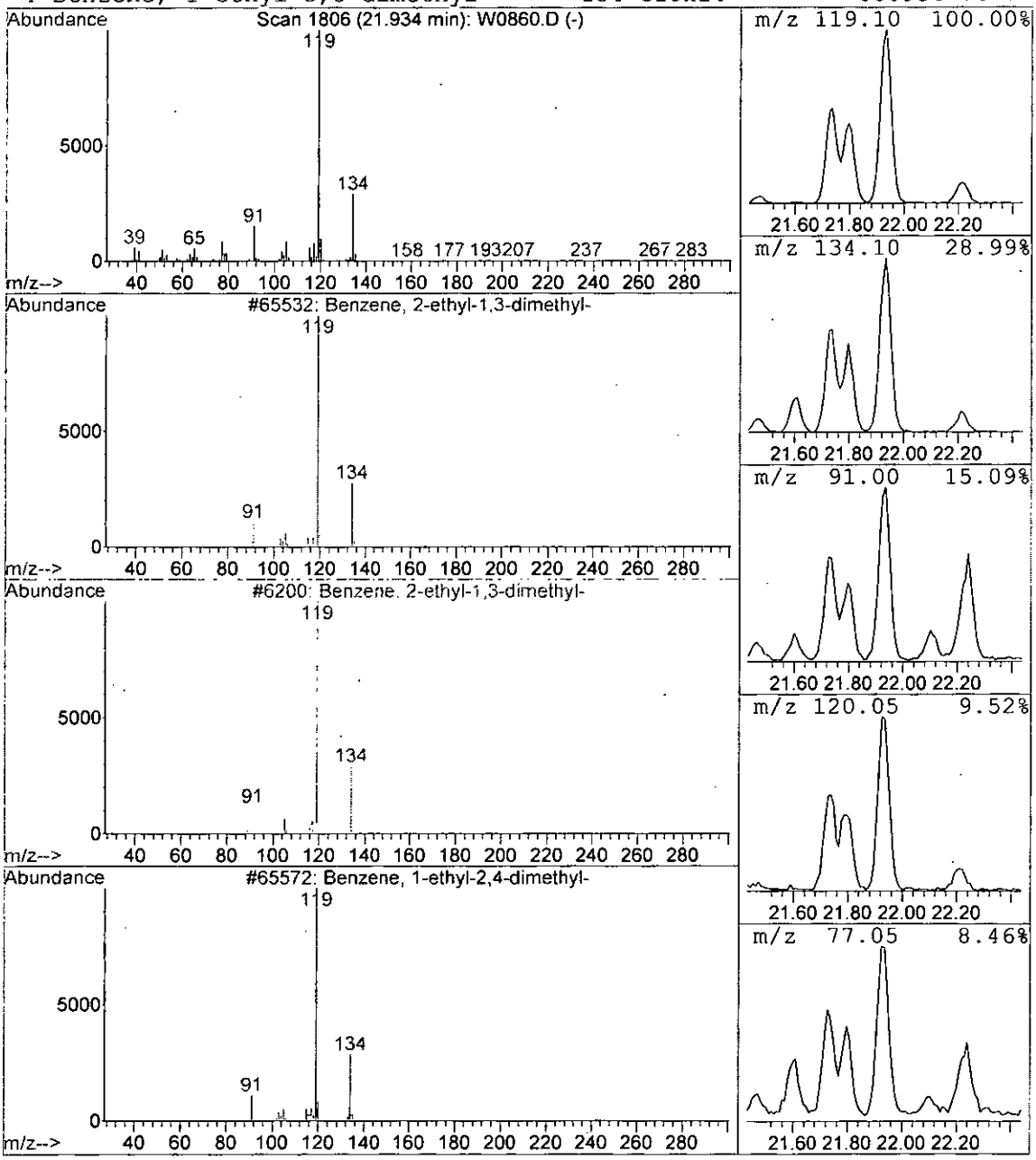
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```

****

Peak Number 14 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.93	21.27 ppb	1864730	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	94



00109

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Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D        Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```
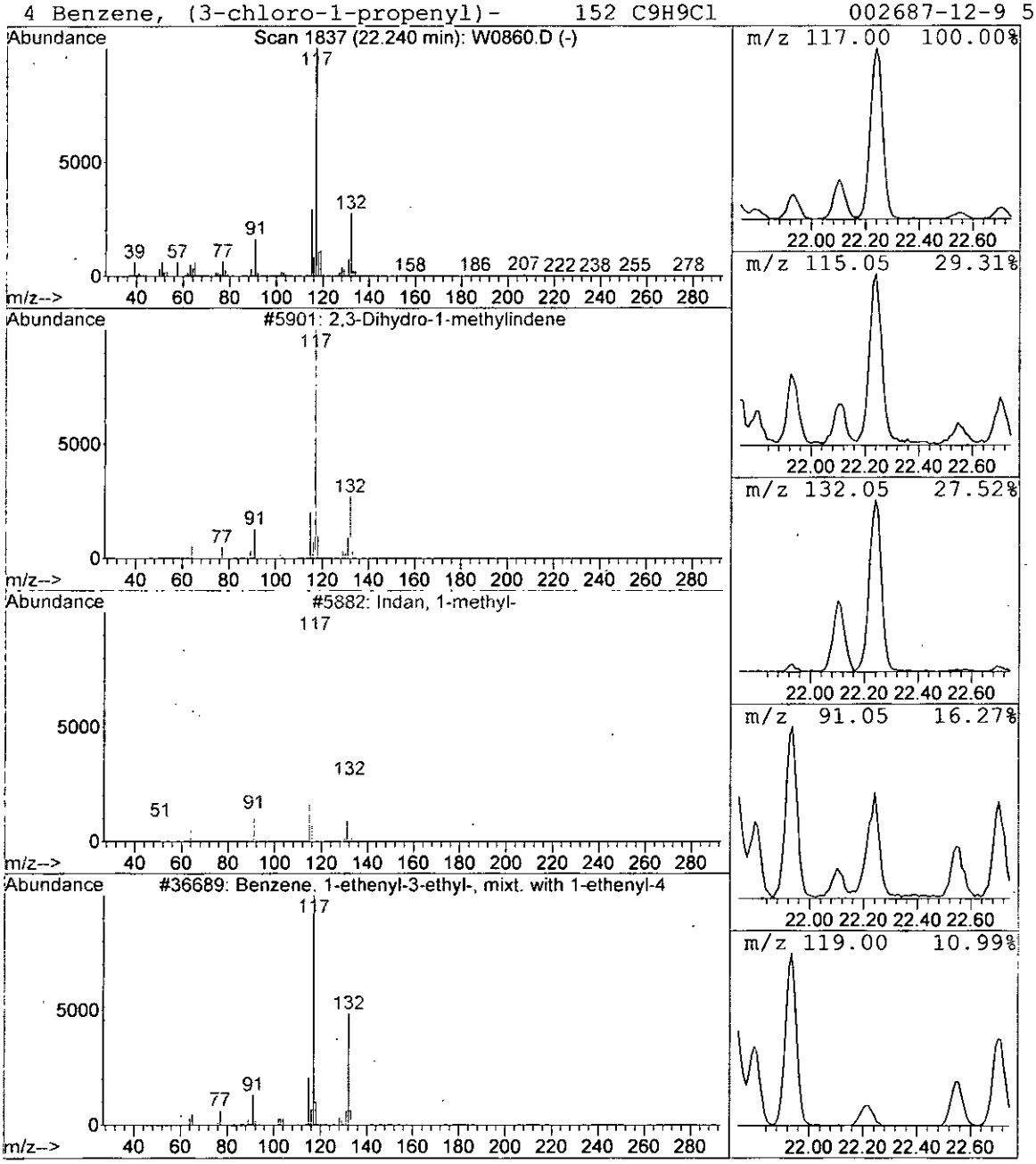

****

Peak Number 15 2,3-Dihydro-1-methylindene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.24	14.63 ppb	1282260	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	93
2	Indan, 1-methyl-	132	C10H12	000767-58-8	93
3	Benzene, 1-ethenyl-3-ethyl-, mixt.	264	C20H24	055319-72-7	64
4	Benzene, (3-chloro-1-propenyl)-	152	C9H9Cl	002687-12-9	50



Library Search Compound Report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Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D        Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

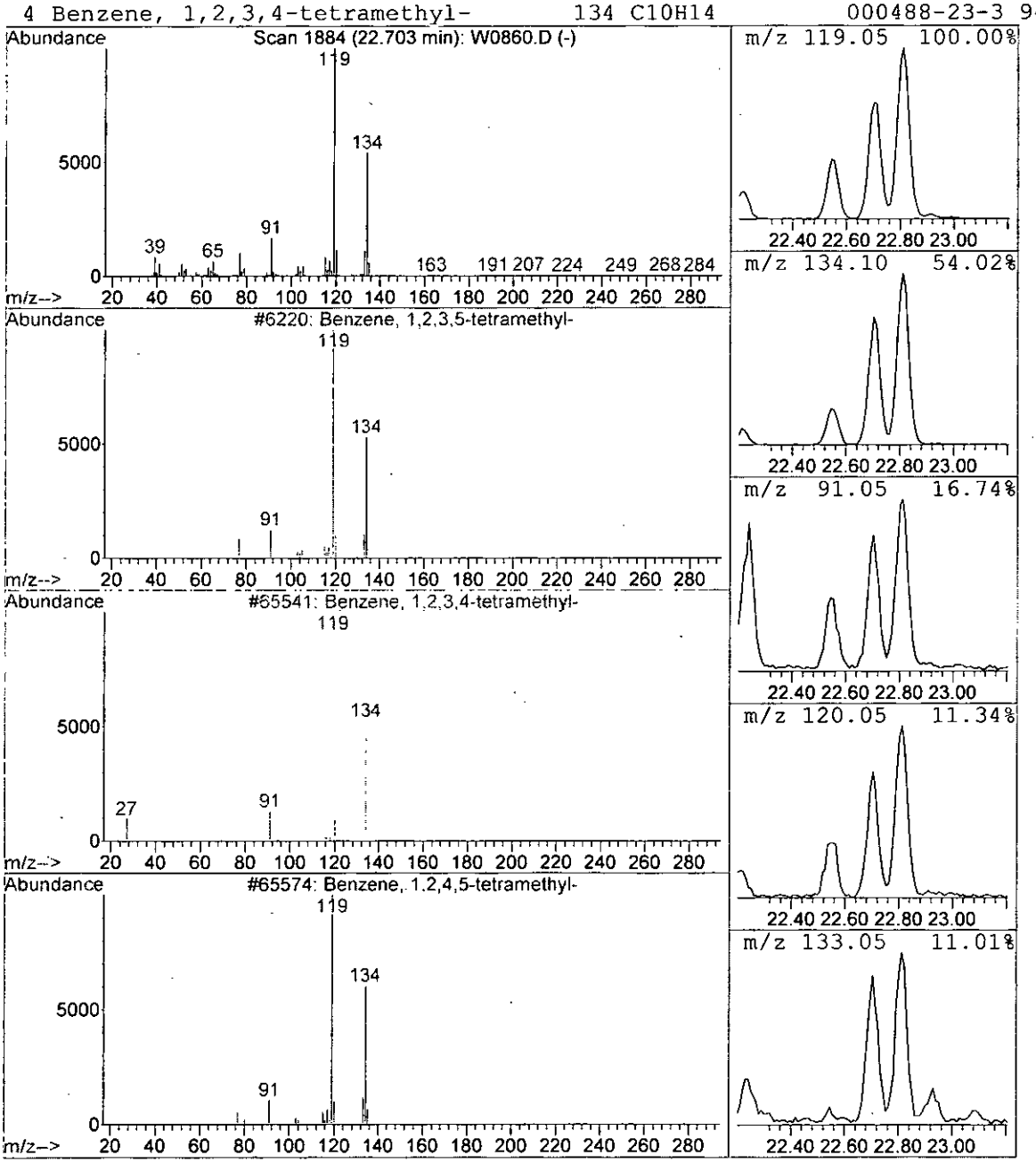
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```

****

Peak Number 16 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.70	13.15 ppb	1152620	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94



Library Search Compound Report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Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D        Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```

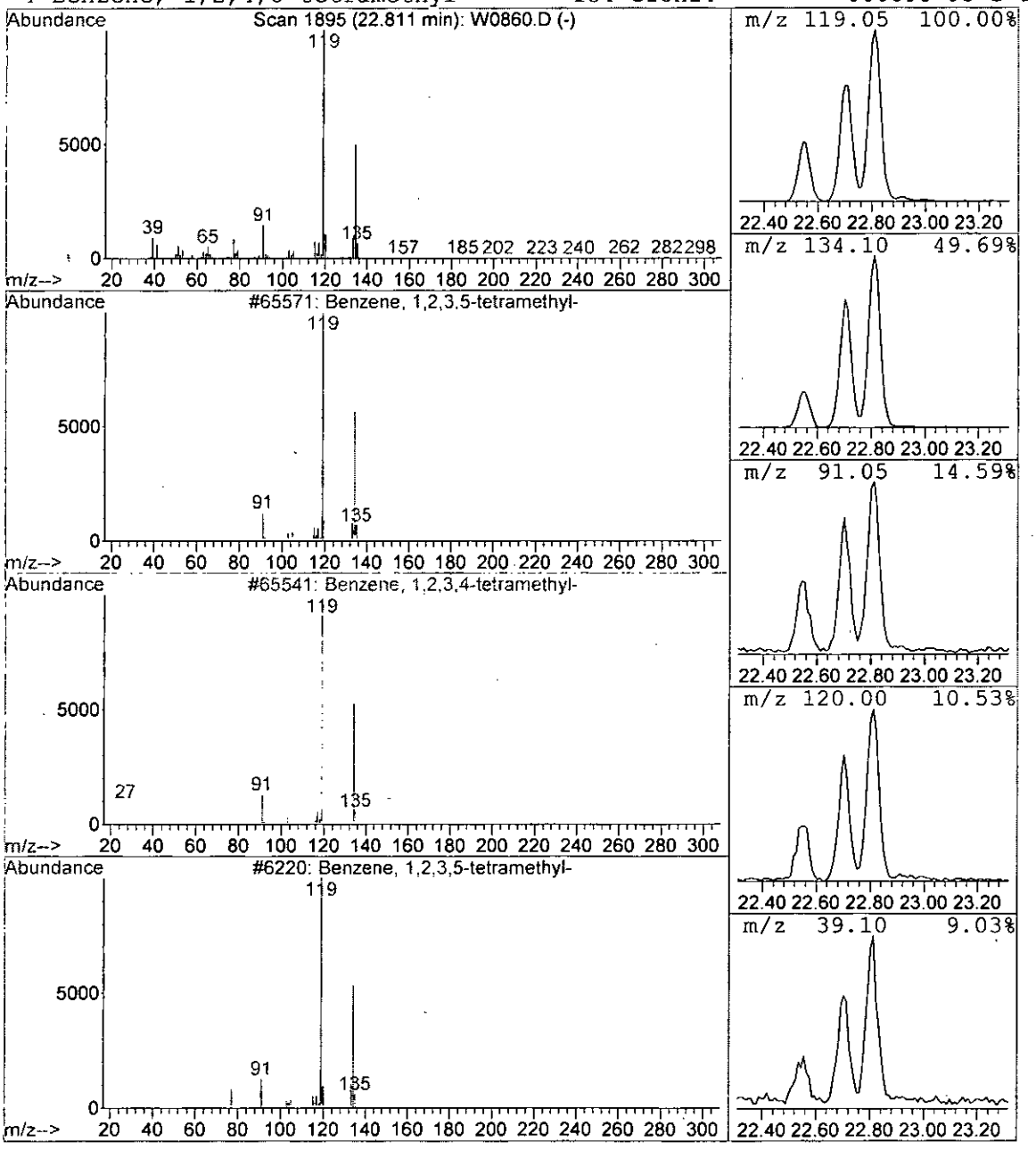
****

Peak Number 17 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.81	18.27 ppb	1601320	d4 - Dichlorobenzene	20.69

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	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94

(already called)



00112

Library Search Compound Report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Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D        Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

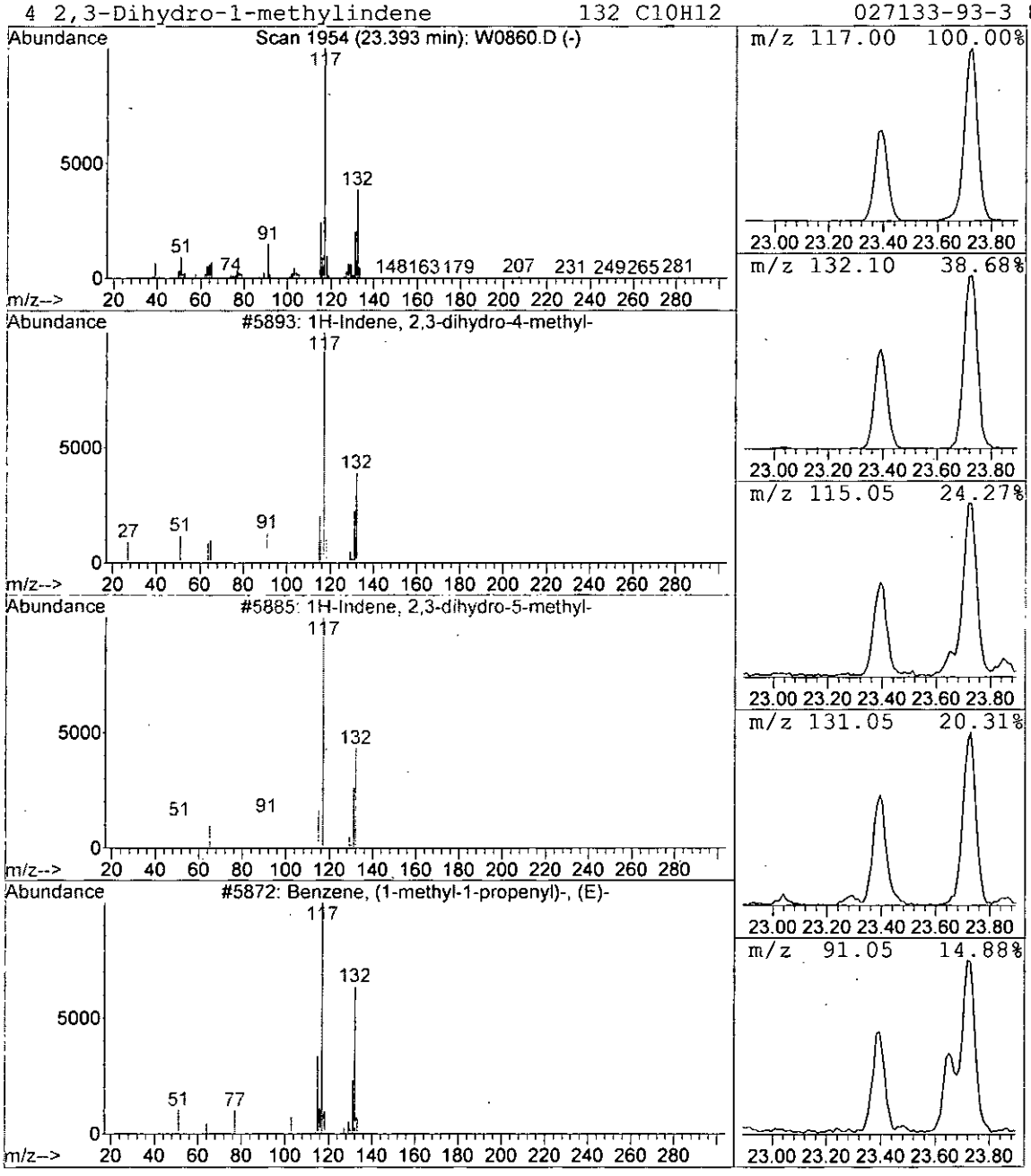
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```

****

Peak Number 18 1H-Indene, 2,3-dihydro-4-methy Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.39	14.08 ppb	1234610	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	94
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	92
3	Benzene, (1-methyl-1-propenyl)-, (E	132	C10H12	000768-00-3	89
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	87



Library Search Compound Report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Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D       Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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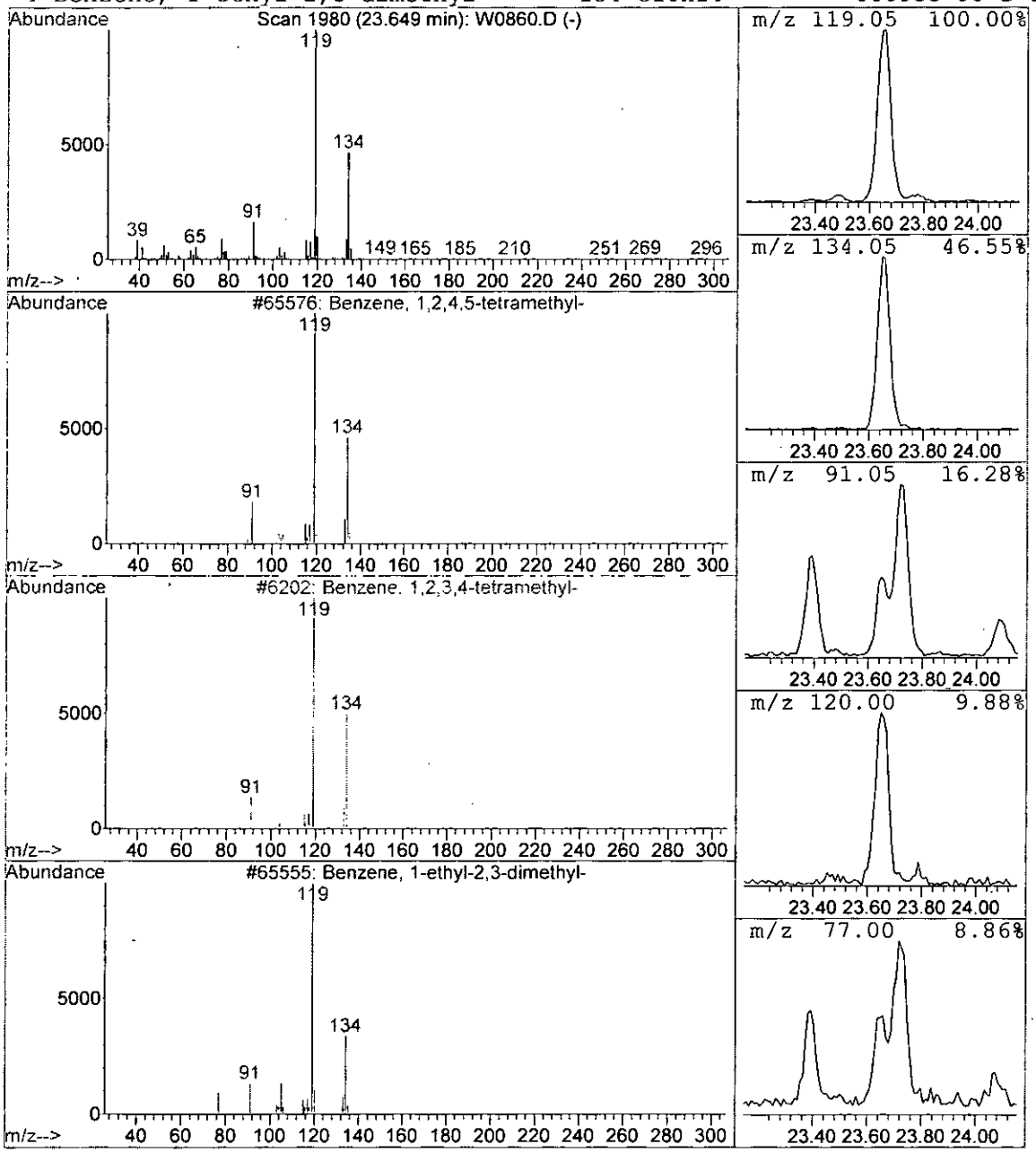
****

Peak Number 19 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.65	9.53 ppb	835050	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91

already called unknown



00114

Library Search Compound Report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Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0860.D        Vial: 19
Acq On    :  2 Apr 2015    8:48 pm                    Operator: K.Ruest
Sample    : R1502204-004|2.5                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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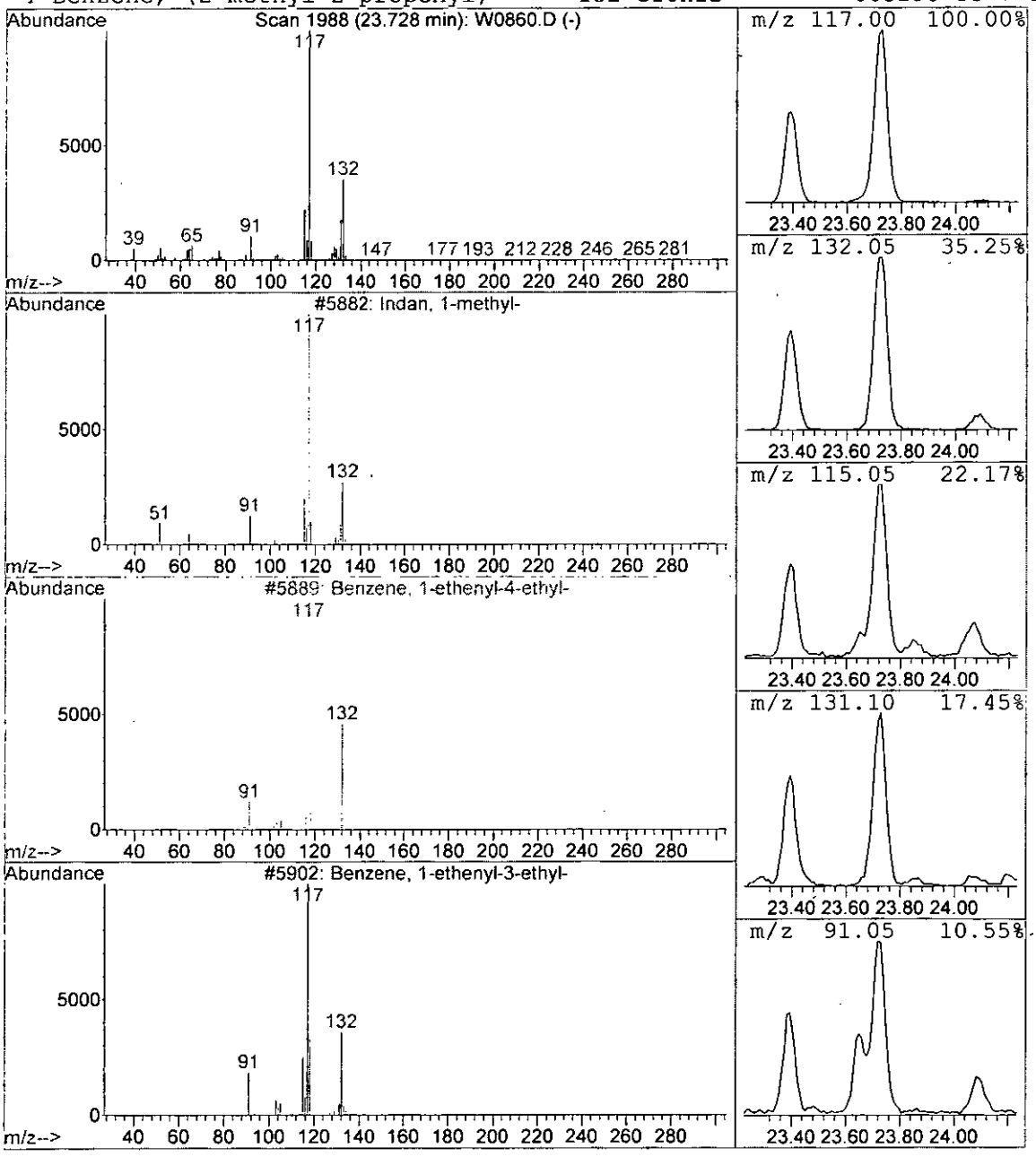
****

Peak Number 20 Indan, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.73	26.12 ppb	2290020	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	80
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	64
3	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	50
4	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	50



00115

W0860.D W032315.M Fri Apr 03 15:01:16 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1000
Date Received: 3/31/15
Date Analyzed: 4/3/15 20:38

Sample Name: FTMM-53-699RW05-10.0
Lab Code: R1502204-004
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
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)	ND	U	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	**690**	D	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	**120**	D	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	**2.3**	DJ	25	5.0	1.0	
108-10-1	4-Methyl-2-pentanone	ND	U	25	5.0	3.4	
67-64-1	Acetone	ND	U	25	25	6.2	
71-43-2	Benzene	**1.2**	DJ	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	
56-23-5	Carbon Tetrachloride	ND	U	25	5.0	2.3	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1000
Date Received: 3/31/15
Date Analyzed: 4/3/15 20:38

Sample Name: FTMM-53-699RW05-10.0
Lab Code: R1502204-004
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
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	3.0	
100-41-4	Ethylbenzene	**330**	D	25	5.0	1.0	
87-68-3	Hexachlorobutadiene	ND	U	25	5.0	3.1	
98-82-8	Isopropylbenzene (Cumene)	**22**	DJ	25	5.0	1.0	
1634-04-4	Methyl tert-Butyl Ether	ND	U	25	5.0	1.5	
91-20-3	Naphthalene	**150**	D	25	5.0	1.0	
100-42-5	Styrene	ND	U	25	5.0	1.0	
127-18-4	Tetrachloroethene (PCE)	ND	U	25	5.0	1.5	
108-88-3	Toluene	**7.2**	DJ	25	5.0	1.0	
79-01-6	Trichloroethene (TCE)	ND	U	25	5.0	1.1	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	25	5.0	1.0	
75-01-4	Vinyl Chloride	ND	U	25	5.0	1.6	
156-59-2	cis-1,2-Dichloroethene	ND	U	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	**820**	D	50	10	1.7	
104-51-8	n-Butylbenzene	ND	U	25	5.0	1.1	
103-65-1	n-Propylbenzene	**36**	D	25	5.0	1.0	
95-47-6	o-Xylene	**510**	D	25	5.0	1.0	
135-98-8	sec-Butylbenzene	**1.9**	DJ	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/3/15 20:38	
Dibromofluoromethane	109	85-115	4/3/15 20:38	
Toluene-d8	108	85-120	4/3/15 20:38	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 2038

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

Sample Name:	FTMM-53-699RW05-10.0DL	**Units:**	µg/L
Lab Code:	R1502204-004	**Basis:**	NA
Run Type:	Dilution		
Analytical Method:	8260C		

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	5.82	**102.8**	JN
000109-66-0	Pentane	6.21	**51.5**	JN
000107-83-5	Pentane, 2-methyl-	7.51	**121.5**	JN
000096-14-0	Pentane, 3-methyl-	7.86	**65.6**	JN
000096-37-7	Cyclopentane, methyl-	9.16	**192.5**	JN
	unknown	10.15	**40.8**	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	18.96	**238.2**	JN
	unknown	19.03	**126.3**	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	19.59	**222.6**	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	20.78	**273.2**	JN
	unknown	21.20	**233.7**	J
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	21.72	**28.2**	JN
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	21.93	**47.9**	JN
027133-93-3	2,3-Dihydro-1-methylindene	22.23	**34.4**	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	22.70	**29.6**	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	22.81	**42.1**	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	23.39	**33.6**	JN
001560-06-1	Benzene, 2-butenyl-	23.71	**58.2**	JN

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D Vial: 20
Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:27 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

DL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	942255	50.00	ppb	0.05
42) 1,4 - Difluorobenzene	10.99	114	1459823	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1352728	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.69	152	681012	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	514271	54.72	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.44%			
48) surr1,1,2-Diclethane	10.40	65	542790	57.29	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.58%			
70) surr3,Toluene-d8	13.46	98	1588859	54.10	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.20%			
71) surr2,bfb	18.33	95	699378	54.76	ppb	0.06
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.52%			
Target Compounds						Qvalue
49) Benzene	10.56	78	8550	0.23	ppb	69
66) Toluene	13.58	91	52333	1.43	ppb	92
82) Ethylbenzene	16.29	91	2683352	65.77	ppb	97
83) (m+p)Xylene	16.50	106	2473736	163.62	ppb	99
84) o-Xylene	17.30	106	1526202	101.88	ppb	93
88) Isopropylbenzene	18.00	105	162977	4.32	ppb	99
94) n-Propylbenzene	18.81	91	343388	7.25	ppb	100
96) 1,3,5-Trimethylbenzene	19.13	105	724269	23.53	ppb	95
101) 1,2,4-Trimethylbenzene	19.93	105	4322115	137.86	ppb	97
103) sec-Butylbenzene	20.28	105	14261	0.37	ppb	91
104) p-Isopropyltoluene	20.52	119	14811	0.46	ppb	91
118) Naphthalen	25.03	128	696378	29.97	ppb	98

KB 4/6/15

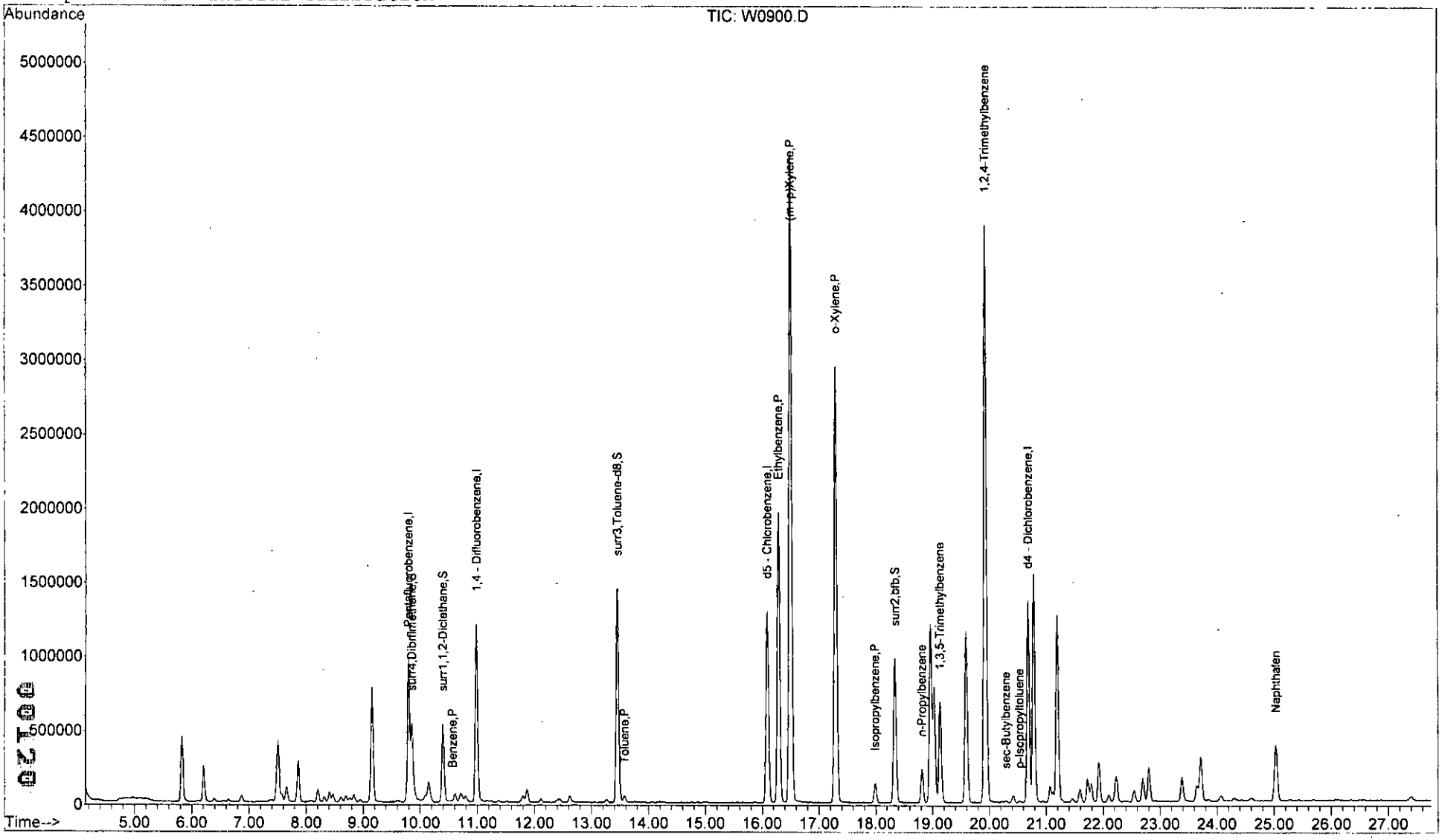
(#) = qualifier out of range (m) = manual integration
W0900.D W032315.M Wed Apr 08 16:29:42 2015

00119

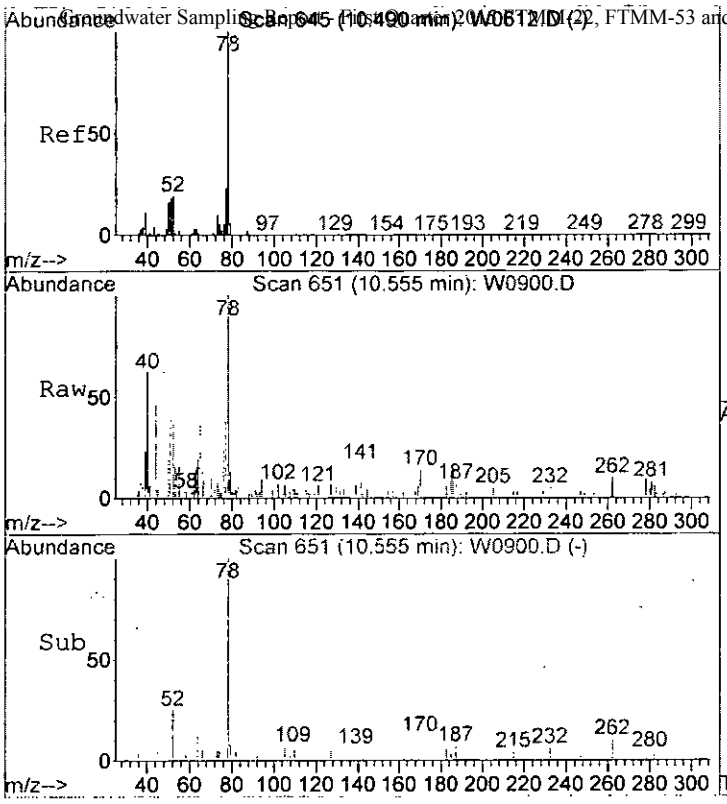
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D Vial: 20
Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:27 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



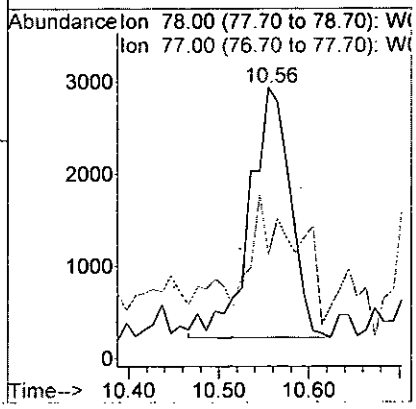
W0900.D W032315.M Wed Apr 08 16:29:44 2015

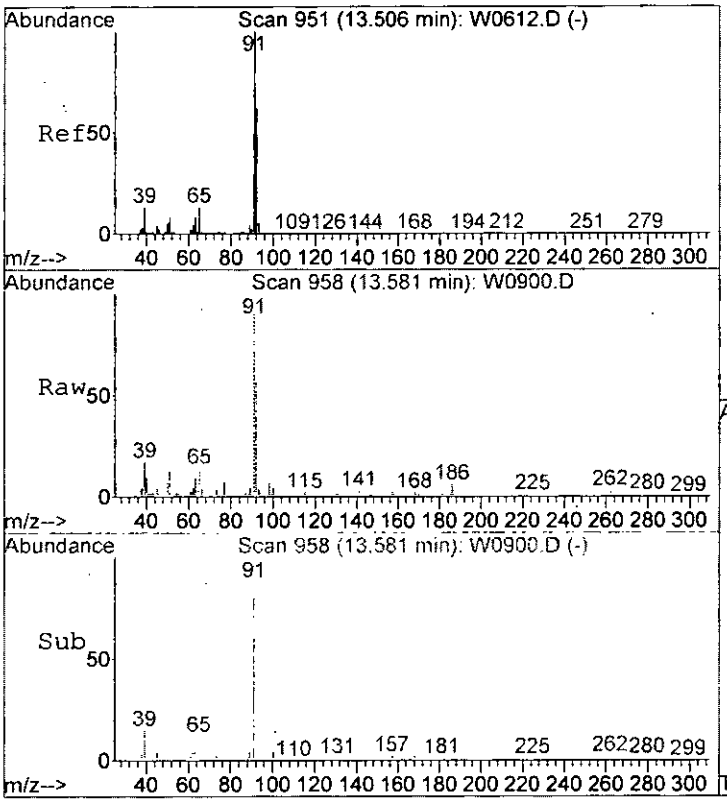


#45
Benzene
Concen: 0.23 ppb
RT: 10.56 min Scan# 651
Delta R.T. 0.06 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion: 78 Resp: 8550

Ion	Ratio	Lower	Upper
78	100		
77	38.5	3.2	43.2

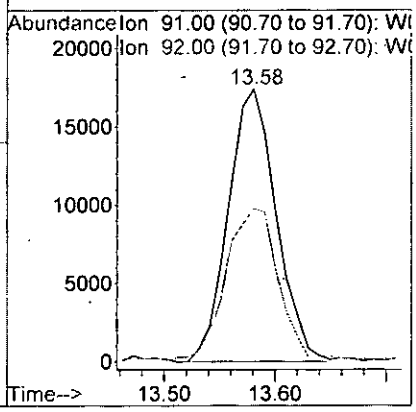


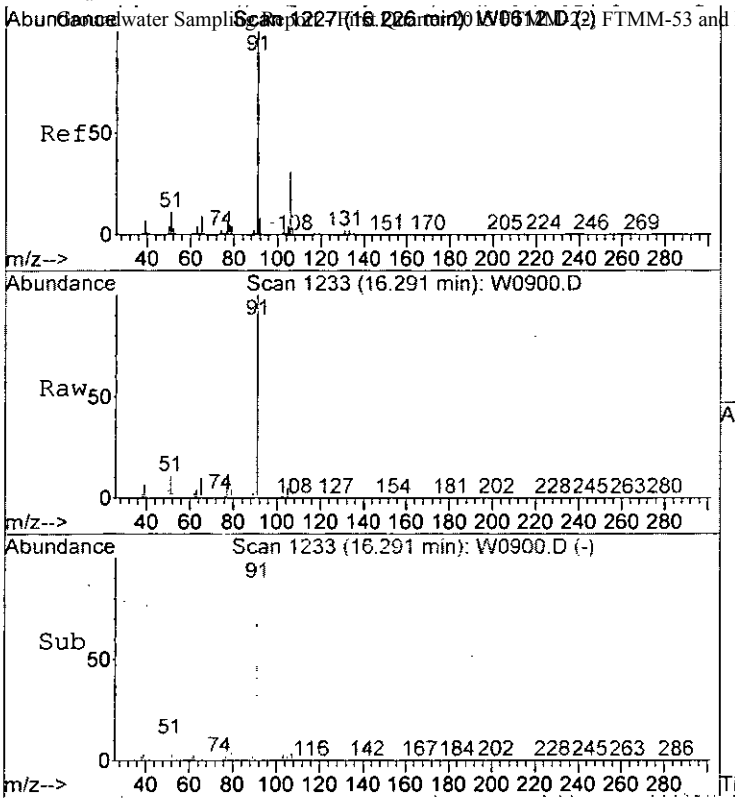


#66
Toluene
Concen: 1.43 ppb
RT: 13.58 min Scan# 958
Delta R.T. 0.07 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion: 91 Resp: 52333

Ion	Ratio	Lower	Upper
91	100		
92	56.2	42.4	82.4

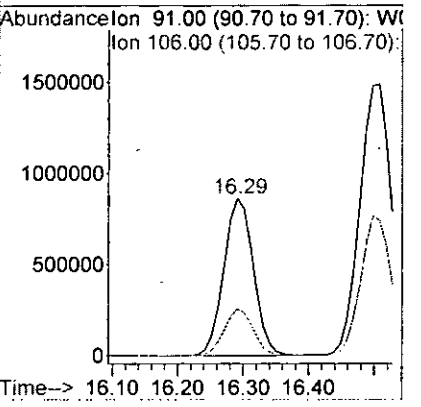


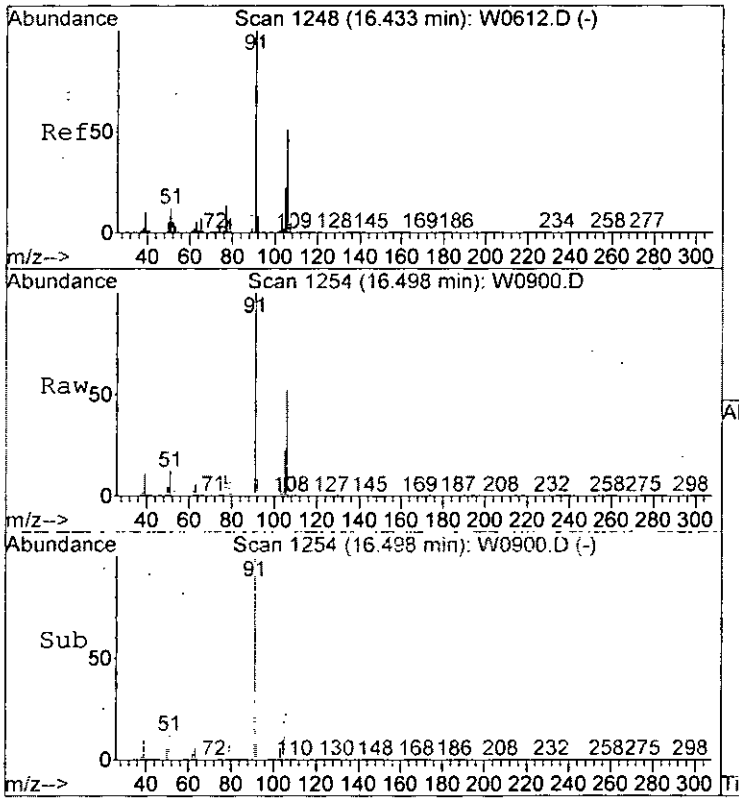


#82
Ethylbenzene
Concen: 65.77 ppb
RT: 16.29 min Scan# 1233
Delta R.T. 0.06 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion: 91 Resp: 2683352

Ion	Ratio	Lower	Upper
91	100		
106	29.6	11.2	51.2

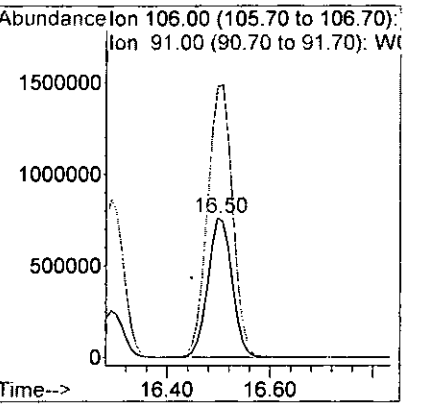


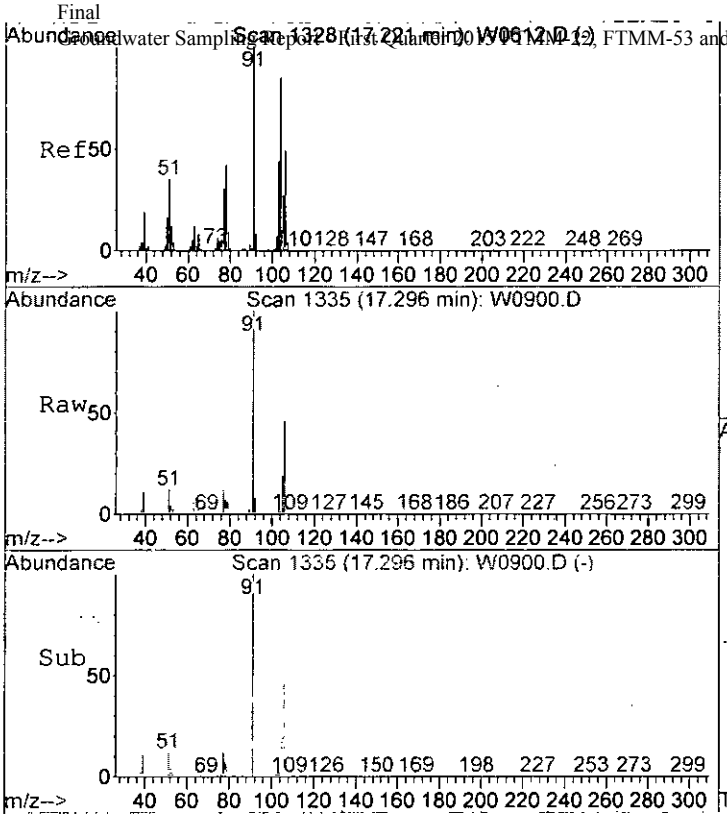


#83
(m+p)Xylene
Concen: 163.62 ppb
RT: 16.50 min Scan# 1254
Delta R.T. 0.06 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:106 Resp: 2473736

Ion	Ratio	Lower	Upper
106	100		
91	193.7	175.2	215.2

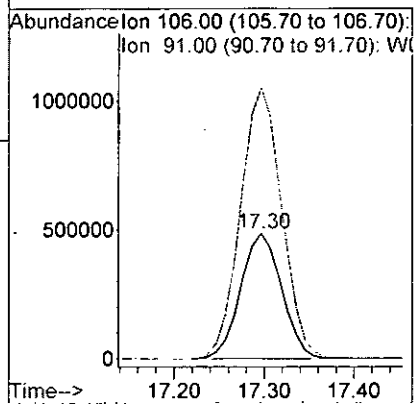


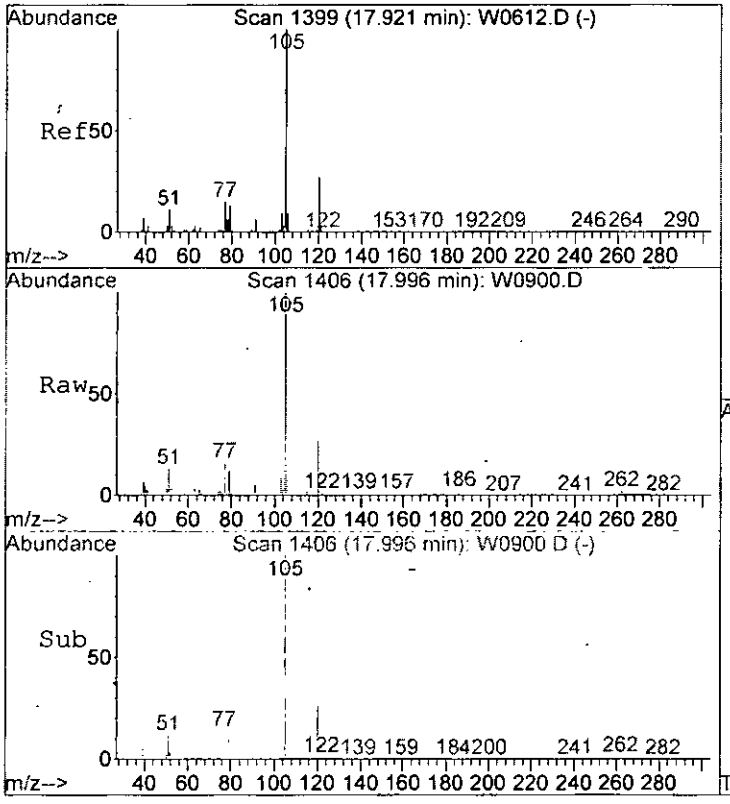


#84
o-Xylene
Concen: 101.88 ppb
RT: 17.30 min Scan# 1335
Delta R.T. 0.07 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:106 Resp: 1526202

Ion	Ratio	Lower	Upper
106	100		
91	216.0	185.2	225.2

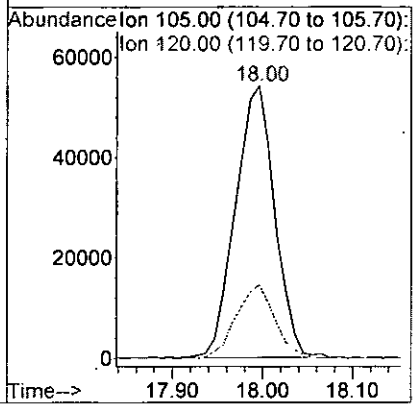


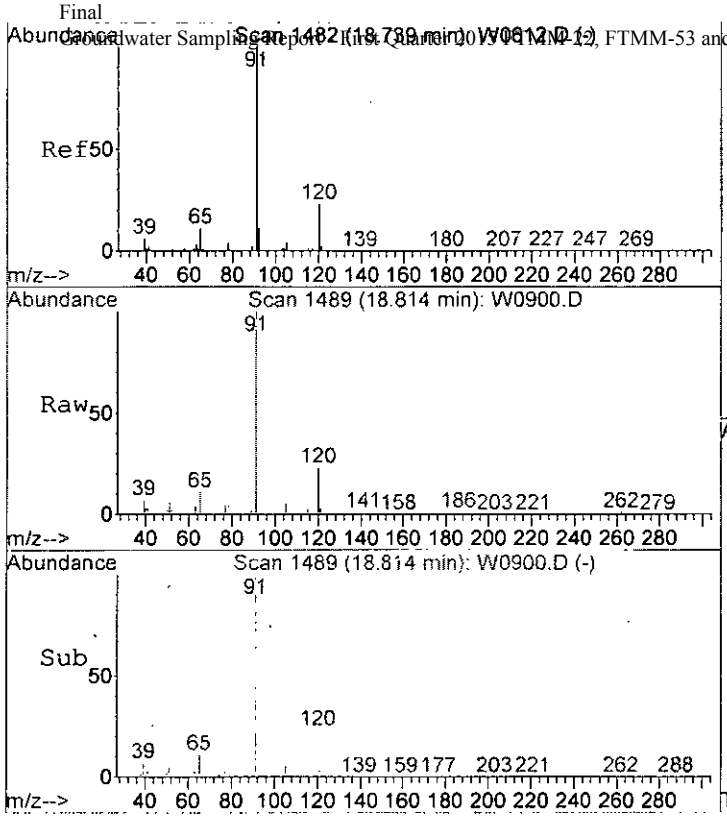


#88
Isopropylbenzene
Concen: 4.32 ppb
RT: 18.00 min Scan# 1406
Delta R.T. 0.07 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:105 Resp: 162977

Ion	Ratio	Lower	Upper
105	100		
120	26.9	7.3	47.3

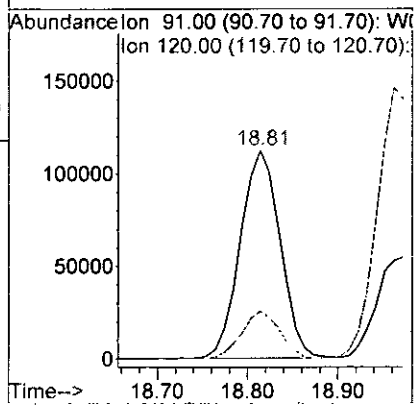


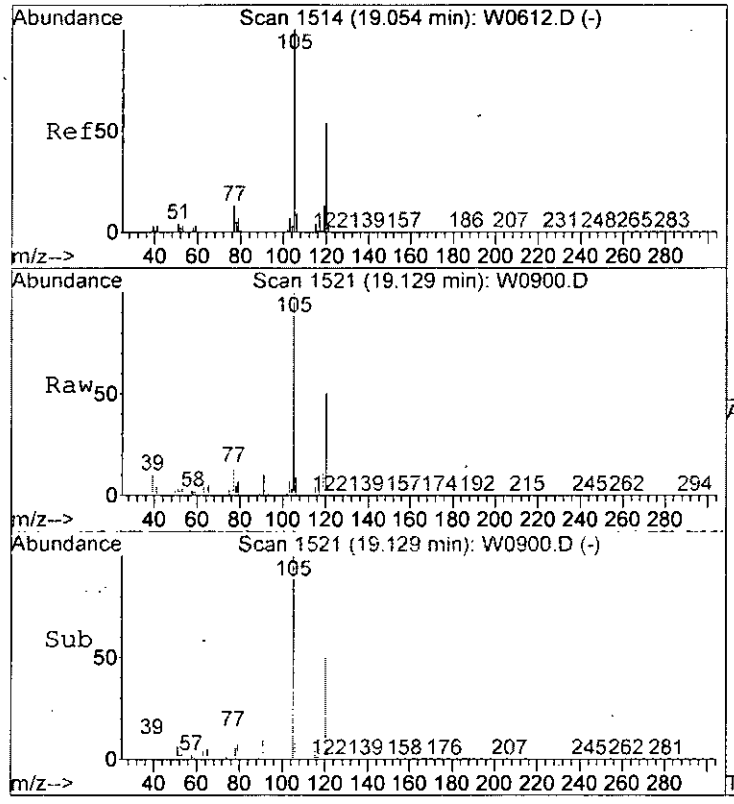


#94
n-Propylbenzene
Concen: 7.25 ppb
RT: 18.81 min Scan# 1489
Delta R.T. 0.07 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion: 91 Resp: 343388

Ion	Ratio	Lower	Upper
91	100		
120	22.7	2.8	42.8

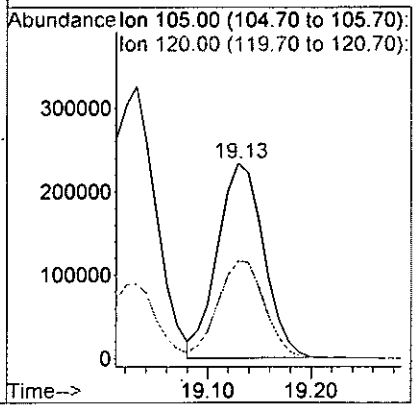


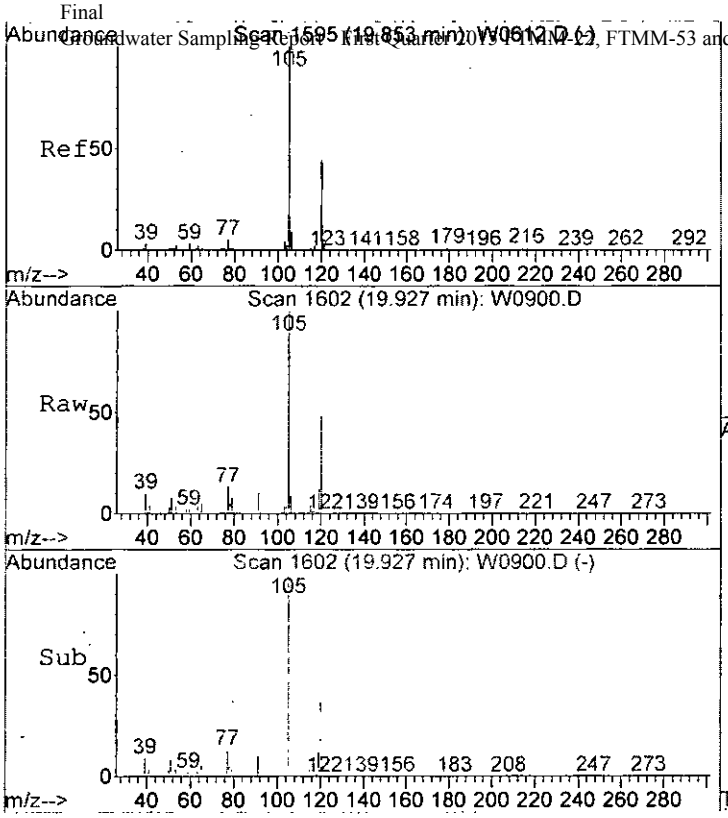


#96
1,3,5-Trimethylbenzene
Concen: 23.53 ppb
RT: 19.13 min Scan# 1521
Delta R.T. 0.07 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:105 Resp: 724269

Ion	Ratio	Lower	Upper
105	100		
120	49.9	33.7	73.7

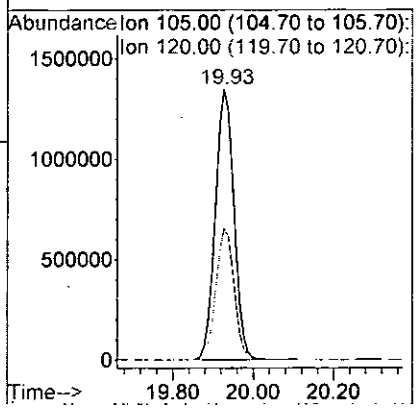


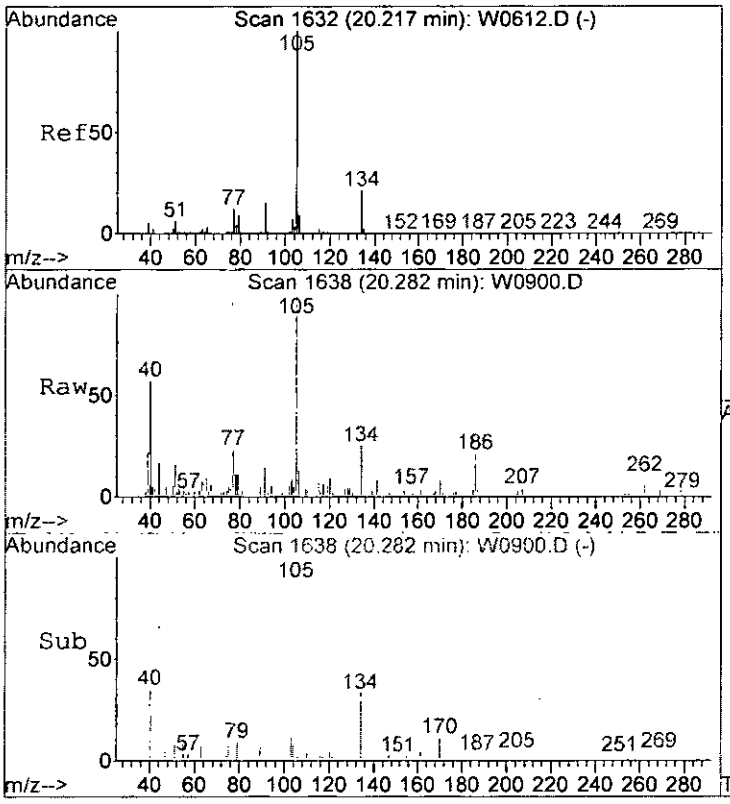


#101
1,2,4-Trimethylbenzene
Concen: 137.86 ppb
RT: 19.93 min Scan# 1602
Delta R.T. 0.07 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:105 Resp: 4322115

Ion	Ratio	Lower	Upper
105	100		
120	48.4	30.4	70.4

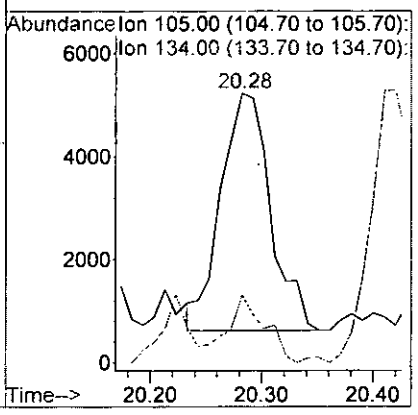


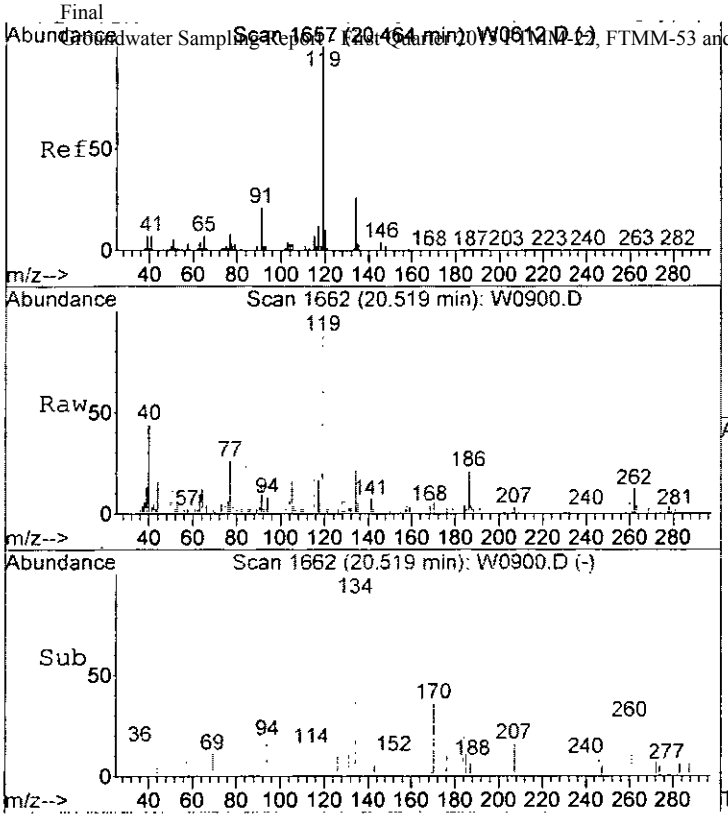


#103
sec-Butylbenzene
Concen: 0.37 ppb
RT: 20.28 min Scan# 1638
Delta R.T. 0.06 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:105 Resp: 14261

Ion	Ratio	Lower	Upper
105	100		
134	25.1	0.8	40.8

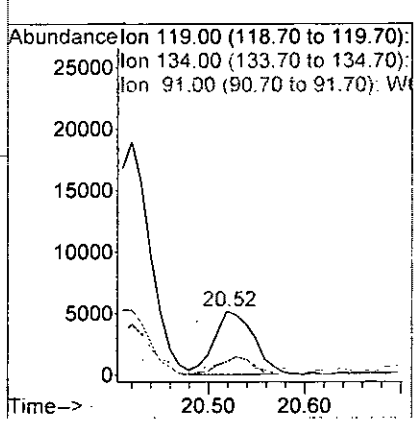


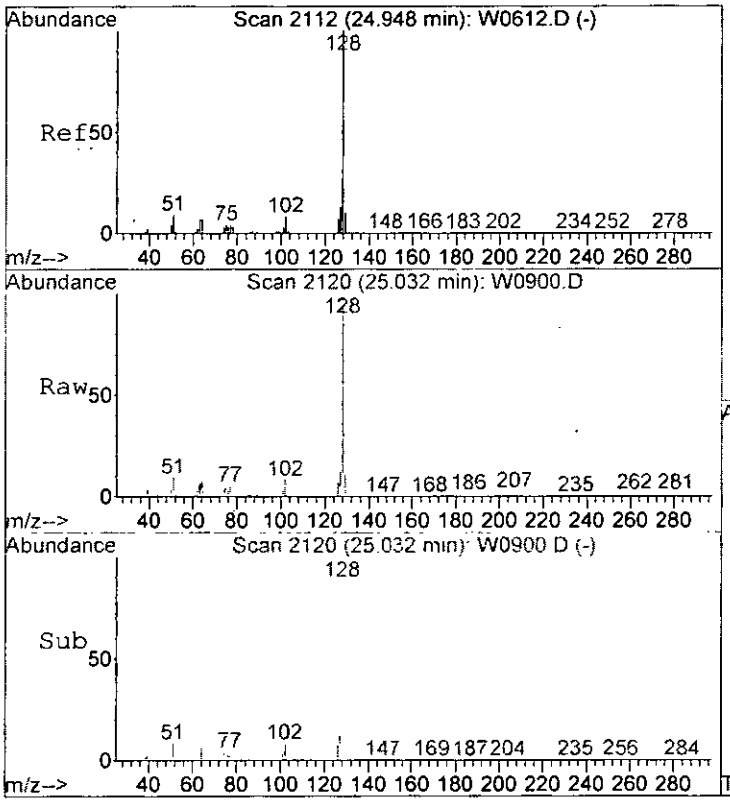


#104
p-Isopropyltoluene
Concen: 0.46 ppb
RT: 20.52 min Scan# 1662
Delta R.T. 0.05 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:119 Resp: 14811

Ion	Ratio	Lower	Upper
119	100		
134	21.1	6.5	46.5
91	17.5	1.3	41.3

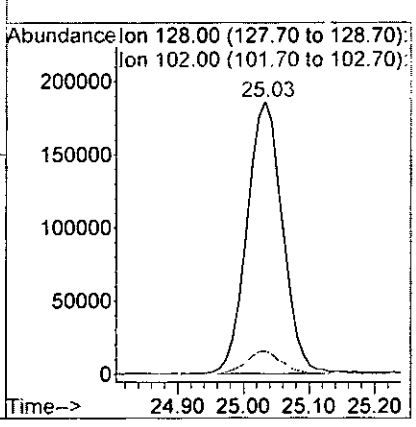




#118
Naphthalen
Concen: 29.97 ppb
RT: 25.03 min Scan# 2120
Delta R.T. 0.08 min
Lab File: W0900.D
Acq: 3 Apr 2015 8:38 pm

Tgt Ion:128 Resp: 696378

Ion	Ratio	Lower	Upper
128	100		
102	8.4	0.0	27.8



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D Vial: 20
Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.825	165	171	184	rVB	439452	1199200	8.29%	1.149%
2	6.209	204	210	217	rBV	246975	600235	4.15%	0.575%
3	7.510	335	342	353	rBV	407182	1417713	9.80%	1.359%
4	7.658	353	357	363	rVB	96185	276447	1.91%	0.265%
5	7.865	371	378	385	rVB	276872	764784	5.29%	0.733%
6	8.210	406	413	420	rBV2	86387	225047	1.56%	0.216%
7	8.417	429	434	437	rBV	62011	163144	1.13%	0.156%
8	9.156	499	509	523	rBV	774709	2246524	15.54%	2.153%
9	9.796	564	574	578	rBV	962160	2917303	20.18%	2.796%
10	9.855	578	580	591	rVB	516381	1322540	9.15%	1.267%
11	10.151	605	610	619	rVB2	134020	476355	3.29%	0.457%
12	10.397	627	635	643	rBV	524966	1535963	10.62%	1.472%
13	10.713	661	667	672	rVV4	48944	171482	1.19%	0.164%
14	10.989	687	695	710	rBV	1198216	3455297	23.90%	3.311%
15	11.866	780	784	793	rVB2	84320	256832	1.78%	0.246%
16	13.462	938	946	954	rBV	1445358	4408014	30.49%	4.224%
17	16.094	1205	1213	1225	rBV	1293620	4062728	28.10%	3.893%
18	16.291	1225	1233	1243	rVV	1959678	6059383	41.91%	5.807%
19	16.498	1246	1254	1268	rBV	4356350	14459389	100.00%	13.857%
20	17.296	1326	1335	1348	rBV	2946895	9316853	64.43%	8.929%
21	17.986	1397	1405	1412	rBV2	130017	400808	2.77%	0.384%
22	18.341	1429	1441	1450	rBV	973715	3202364	22.15%	3.069%
23	18.814	1480	1489	1497	rBV	228717	697401	4.82%	0.668%
24	18.962	1497	1504	1508	rVV	1206100	3950722	27.32%	3.786%
25	19.031	1508	1511	1516	rVV	779199	2094288	14.48%	2.007%
26	19.129	1516	1521	1534	rVB	678303	2149972	14.87%	2.060%
27	19.592	1557	1568	1577	rBV	1158145	3692412	25.54%	3.539%
28	19.927	1591	1602	1612	rBV	3894700	12380252	85.62%	11.864%
29	20.420	1645	1652	1657	rBV	48273	147558	1.02%	0.141%
30	20.686	1669	1679	1684	rBV	1363290	4146657	28.68%	3.974%
31	20.785	1684	1689	1702	rVB	1539122	4530622	31.33%	4.342%
32	21.061	1711	1717	1721	rBV	104836	325394	2.25%	0.312%
33	21.199	1725	1731	1744	rVB2	1261246	3875104	26.80%	3.714%
34	21.593	1765	1771	1778	rVB2	86030	260139	1.80%	0.249%
35	21.721	1778	1784	1788	rBV	155836	467188	3.23%	0.448%
36	21.790	1788	1791	1799	rVB	122522	325110	2.25%	0.312%
37	21.928	1799	1805	1813	rVB	270644	794262	5.49%	0.761%
38	22.105	1817	1823	1828	rBV	47000	148049	1.02%	0.142%
39	22.234	1828	1836	1843	rVB2	169200	570754	3.95%	0.547%

00127

40	22.549	1861	1868	1875	rBV	78279	252357	1.75%	0.242%
41	22.697	1875	1883	1888	rVV	157928	489921	3.39%	0.470%
42	22.805	1888	1894	1902	rVB	227674	697889	4.83%	0.669%
43	23.387	1944	1953	1962	rBV	166041	556567	3.85%	0.533%
44	23.643	1972	1979	1982	rBV2	107033	354501	2.45%	0.340%
45	23.712	1982	1986	1994	rVB	294764	964498	6.67%	0.924%
46	24.067	2016	2022	2030	rBV8	35027	152081	1.05%	0.146%
47	25.032	2112	2120	2130	rBV	374722	1387068	9.59%	1.329%

Sum of corrected areas: 104349171

W0900.D W032315.M Wed Apr 08 16:30:08 2015

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   8:38 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-004|5.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 20
Quant File :W032315.RES (RTE Integrator)
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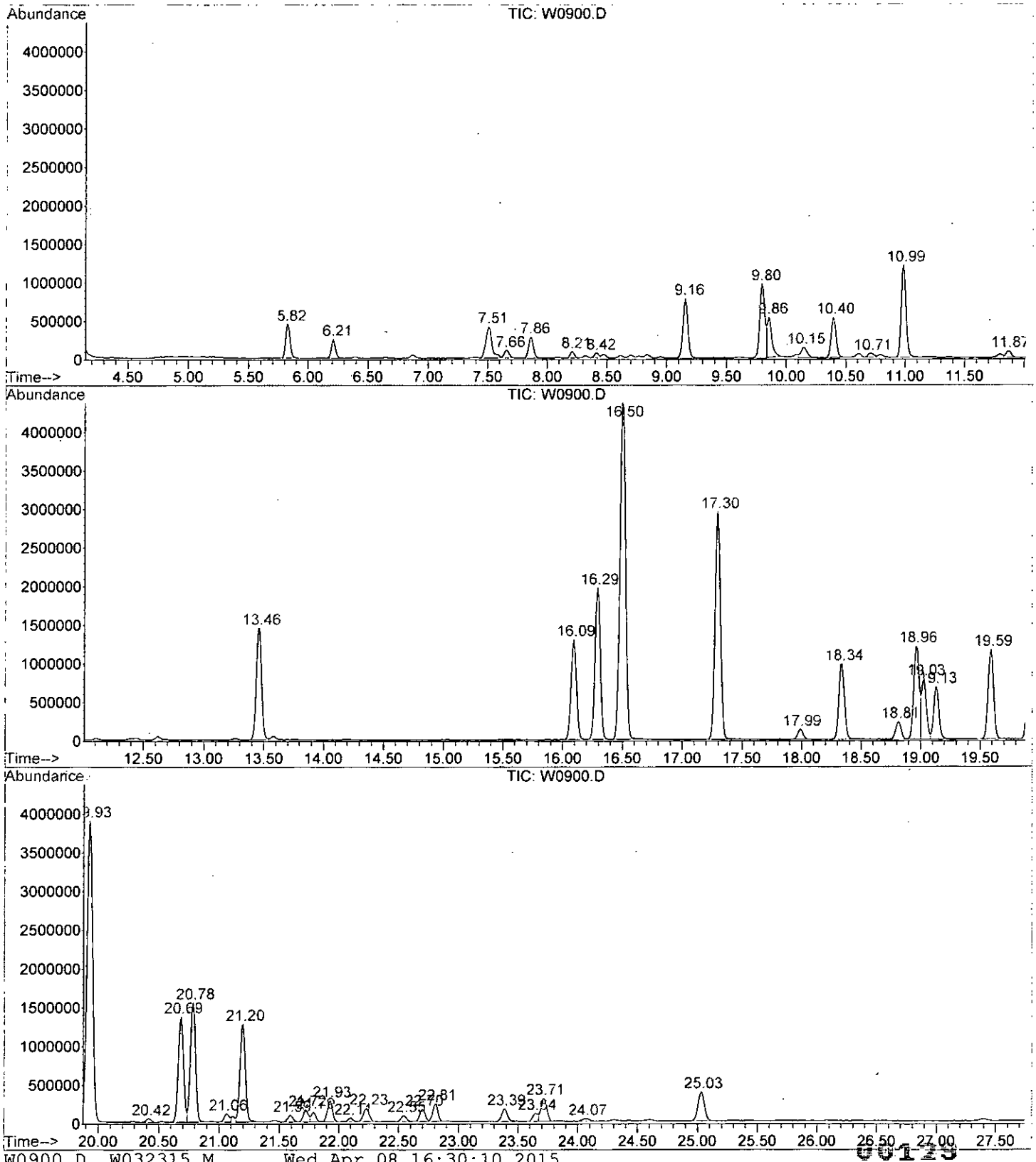


W0900.D W032315.M Wed Apr 08 16:30:10 2015

Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D Vial: 20
Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

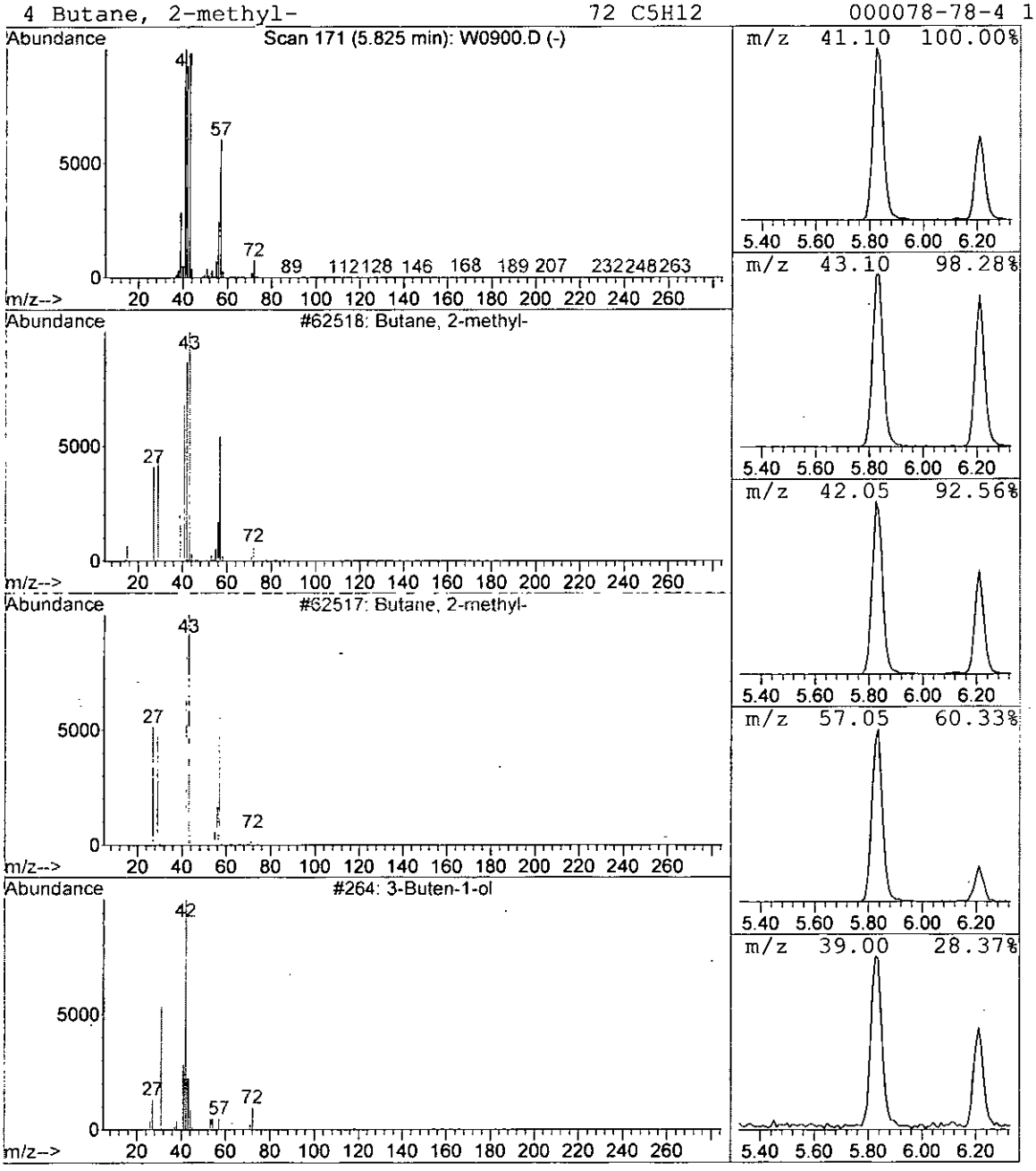
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 1 Butane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.82	20.55 ppb	1199200	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	3-Buten-1-ol	72	C4H8O	000627-27-0	25
4	Butane, 2-methyl-	72	C5H12	000078-78-4	10



Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D Vial: 20
Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

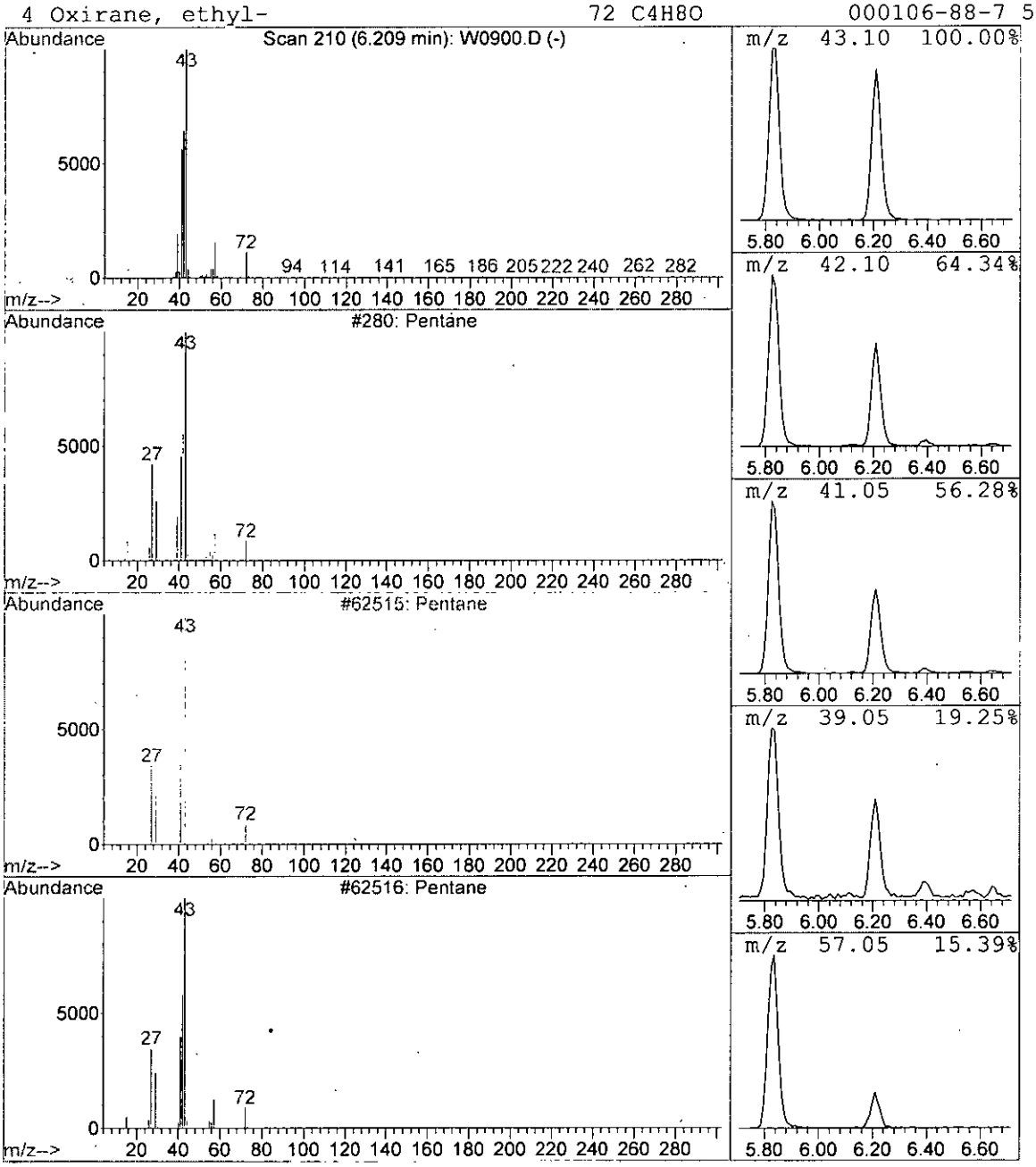
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 2 Pentane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.21	10.29 ppb	600235	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	90
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50



Library Search Compound Report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Sample    : R1502204-004|5.0                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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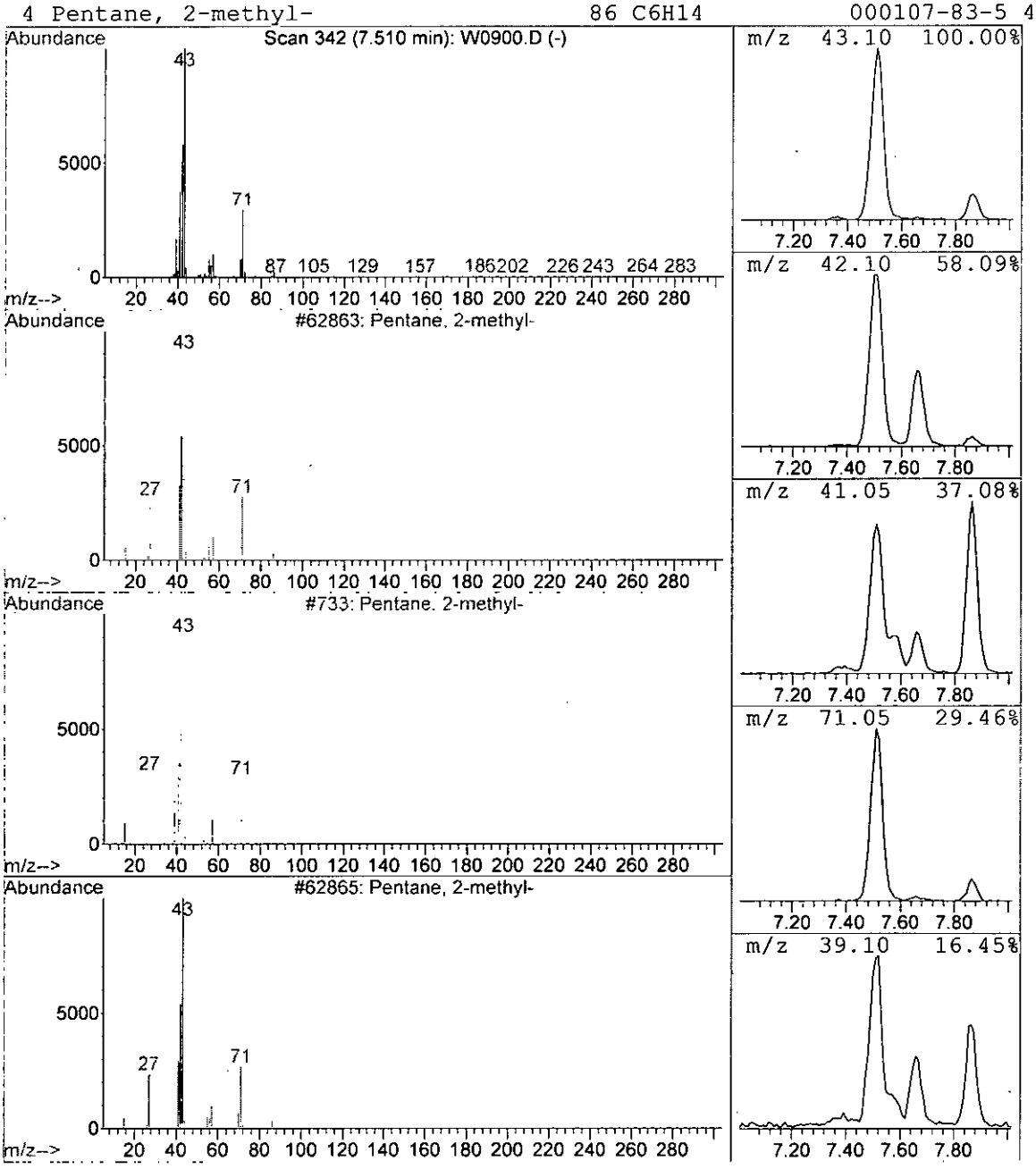
****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.51	24.30 ppb	1417710	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	47



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MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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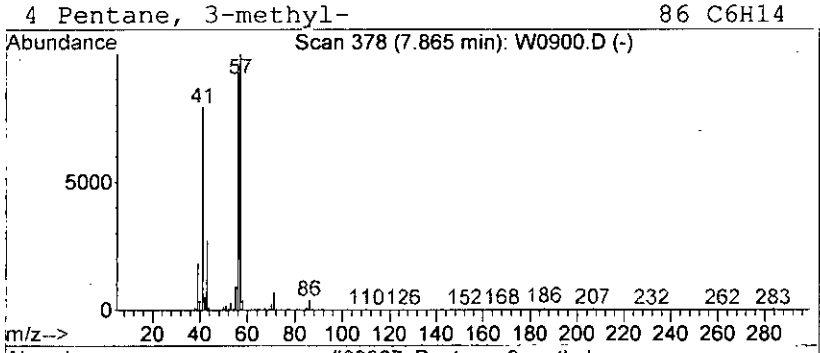
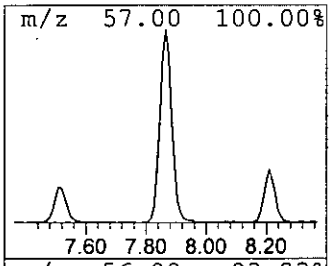
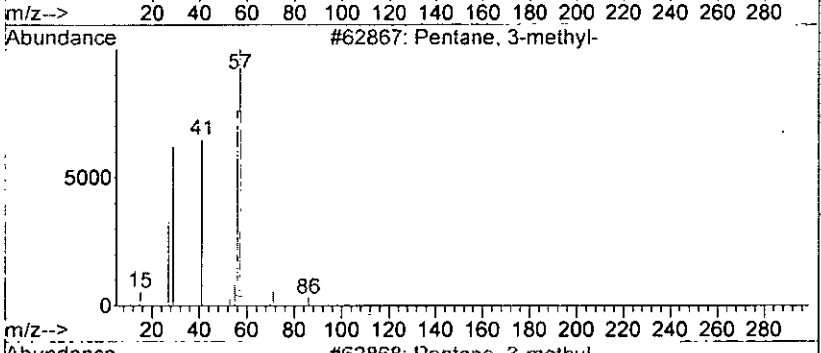
Peak Number 4 Pentane, 3-methyl- Concentration Rank 9

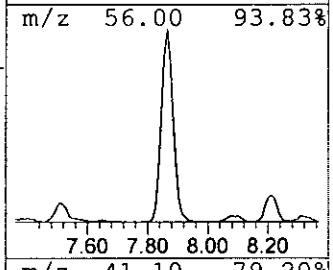
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	13.11 ppb	764784	Pentafluorobenzene	9.80

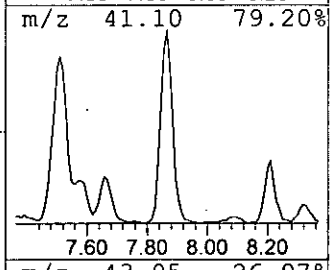
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	59
4	Pentane, 3-methyl-	86	C6H14	000096-14-0	47

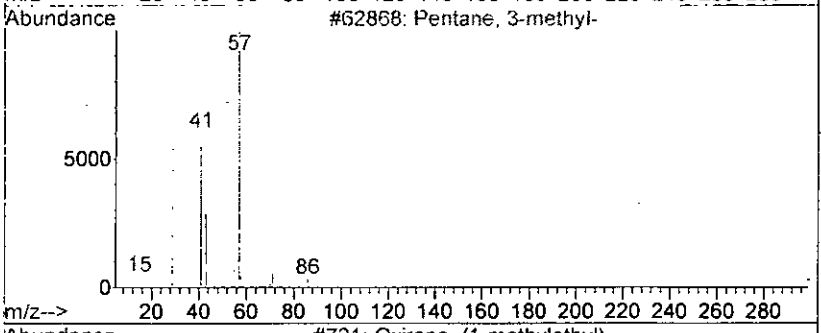


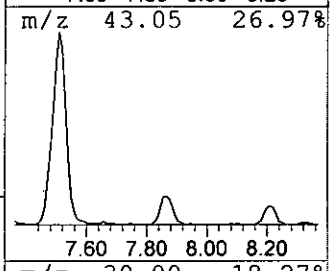


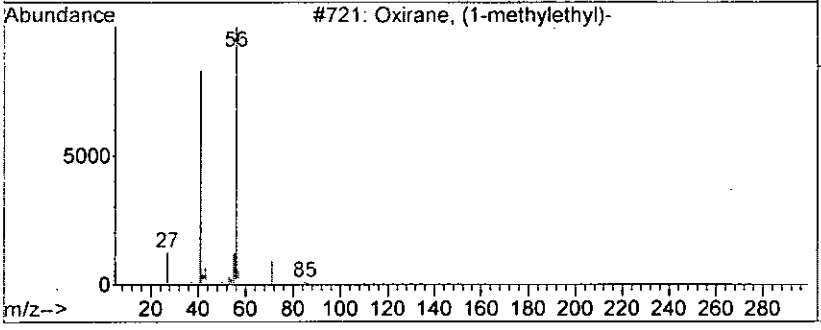


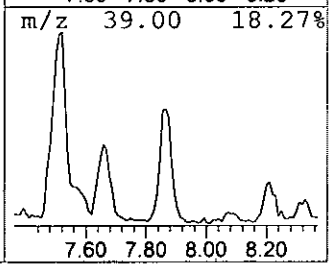












Library Search Compound Report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Acq On    :  3 Apr 2015    8:38 pm                     Operator: K.Ruest
Sample    : R1502204-004|5.0                           Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                     Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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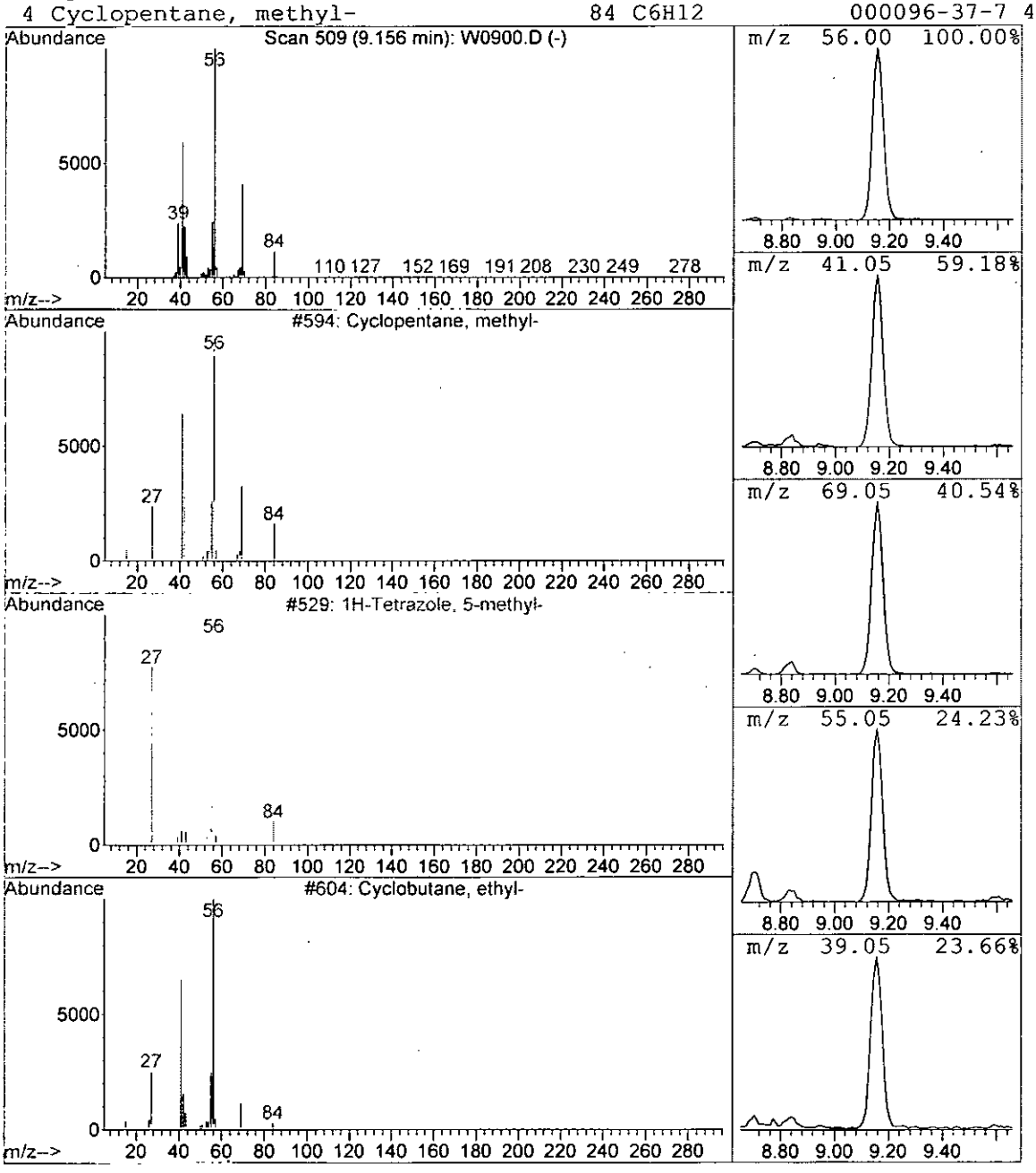
Peak Number 5 Cyclopentane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.16	38.50 ppb	2246520	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl-	84	C6H12	004806-61-5	72
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	49



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Sample    : R1502204-004|5.0                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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Peak Number 6 Cyclohexane — Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.15	8.16 ppb	476355	Pentafluorobenzene	9.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane	84	C6H12	000110-82-7	81
2	Cyclohexane	84	C6H12	000110-82-7	47
3	Cyclohexane	84	C6H12	000110-82-7	47
4	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	43

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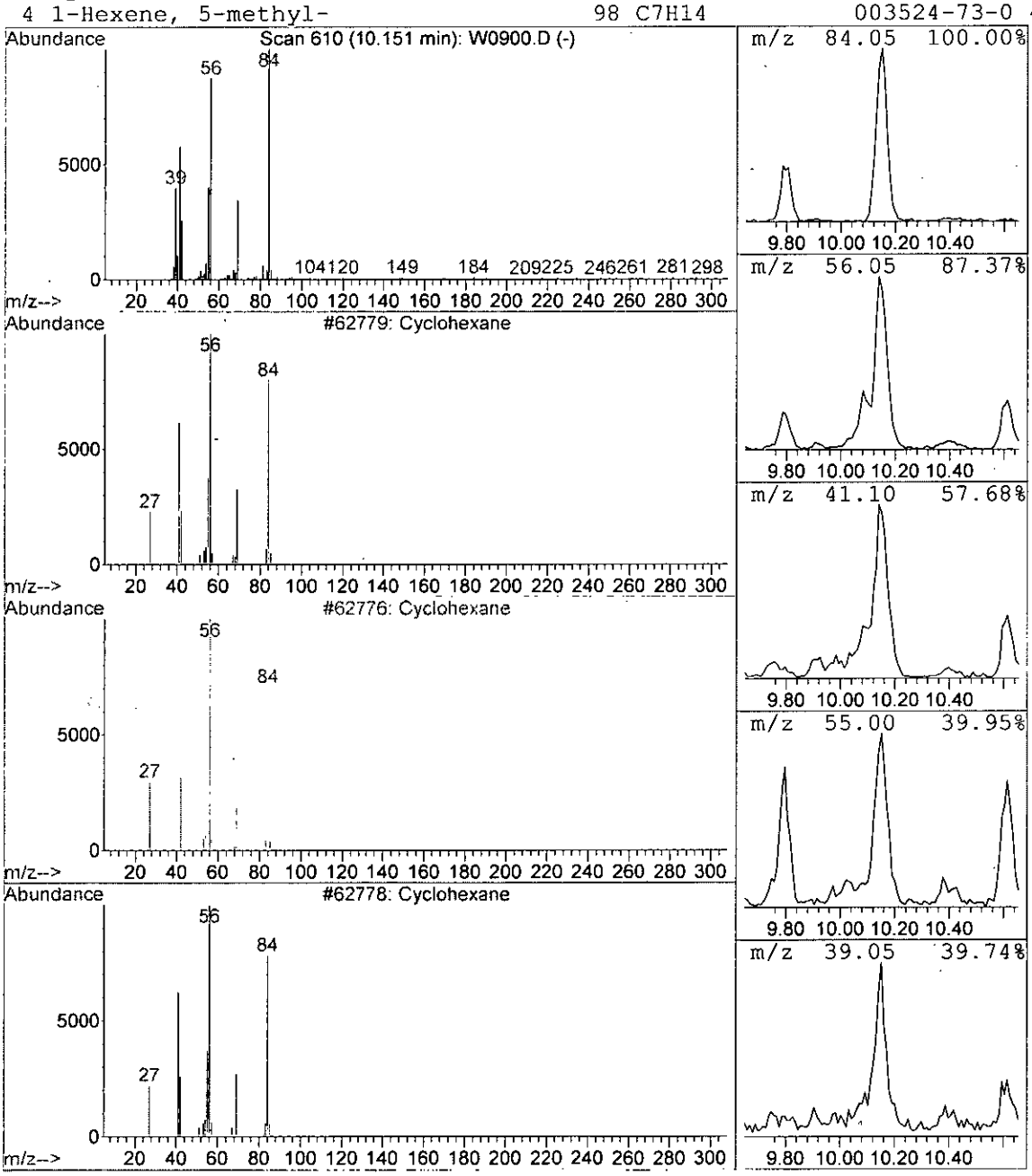

Library Search Compound Report

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Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

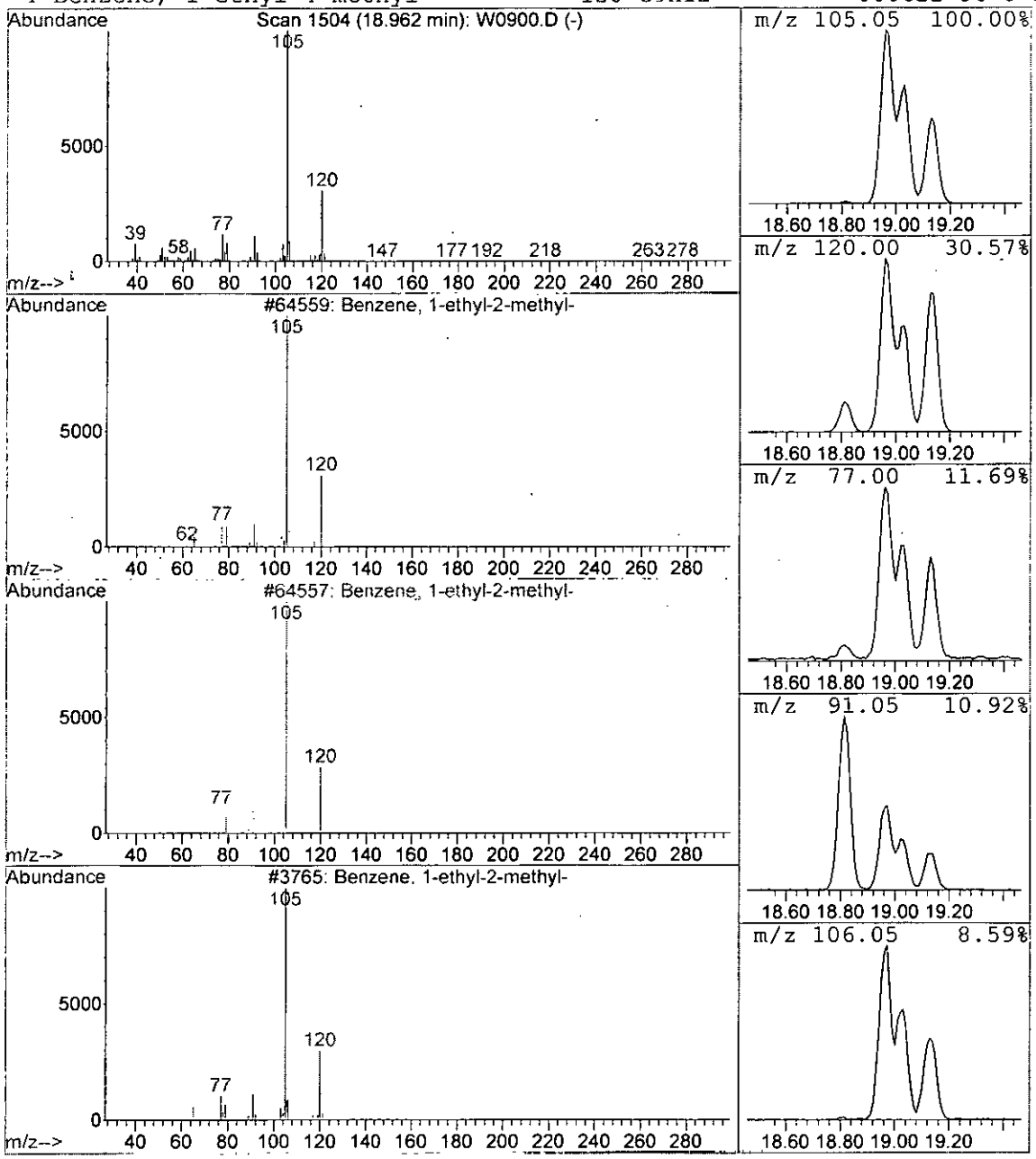
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.96	47.64 ppb	3950720	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	95



Library Search Compound Report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Sample    : R1502204-004|5.0                          Inst    : MS #7
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MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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Peak Number 8 Benzene, (1-methylethyl)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	25.25 ppb	2094290	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	83
2	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	64
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	59
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	58

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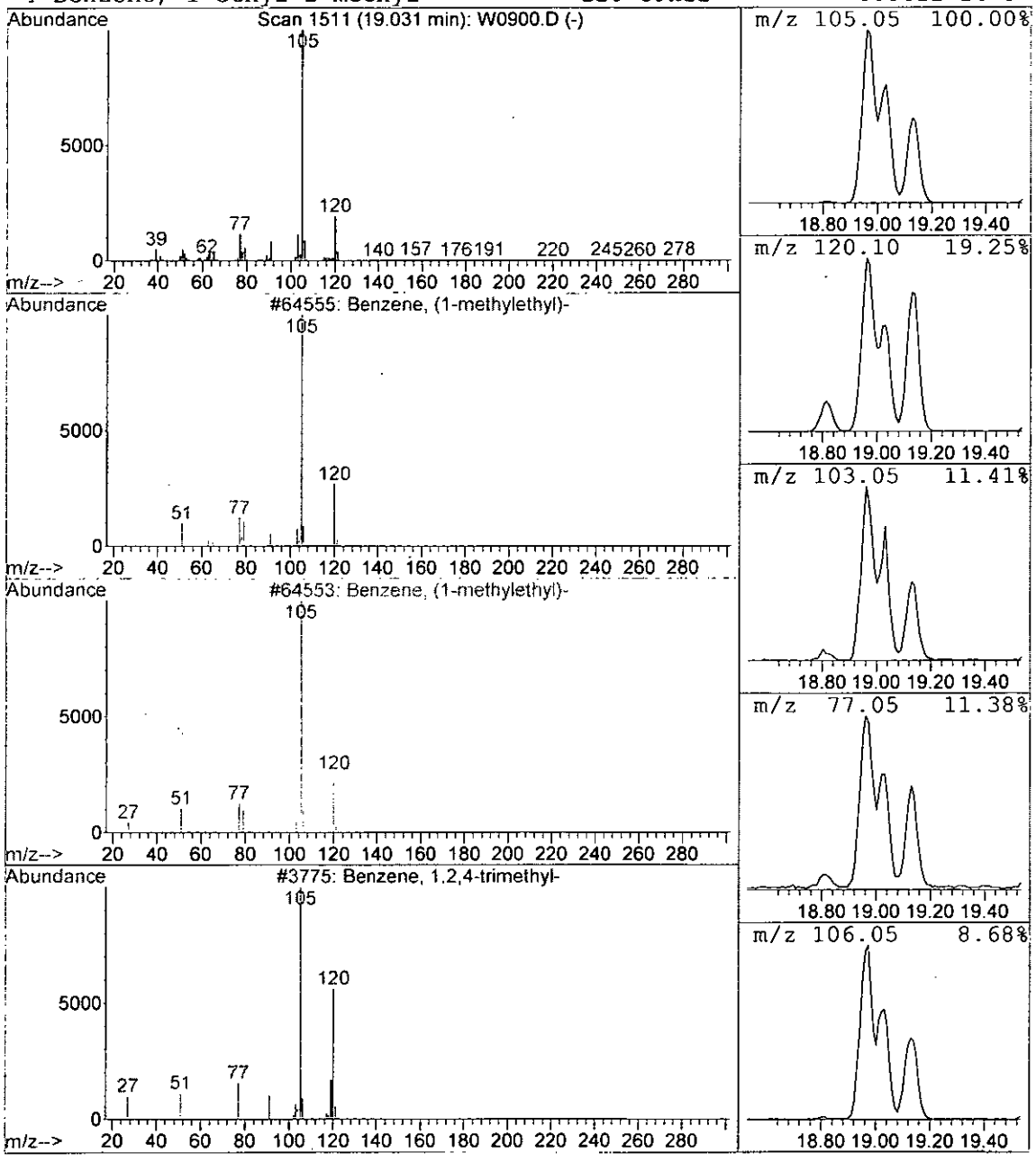

Library Search Compound Report


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MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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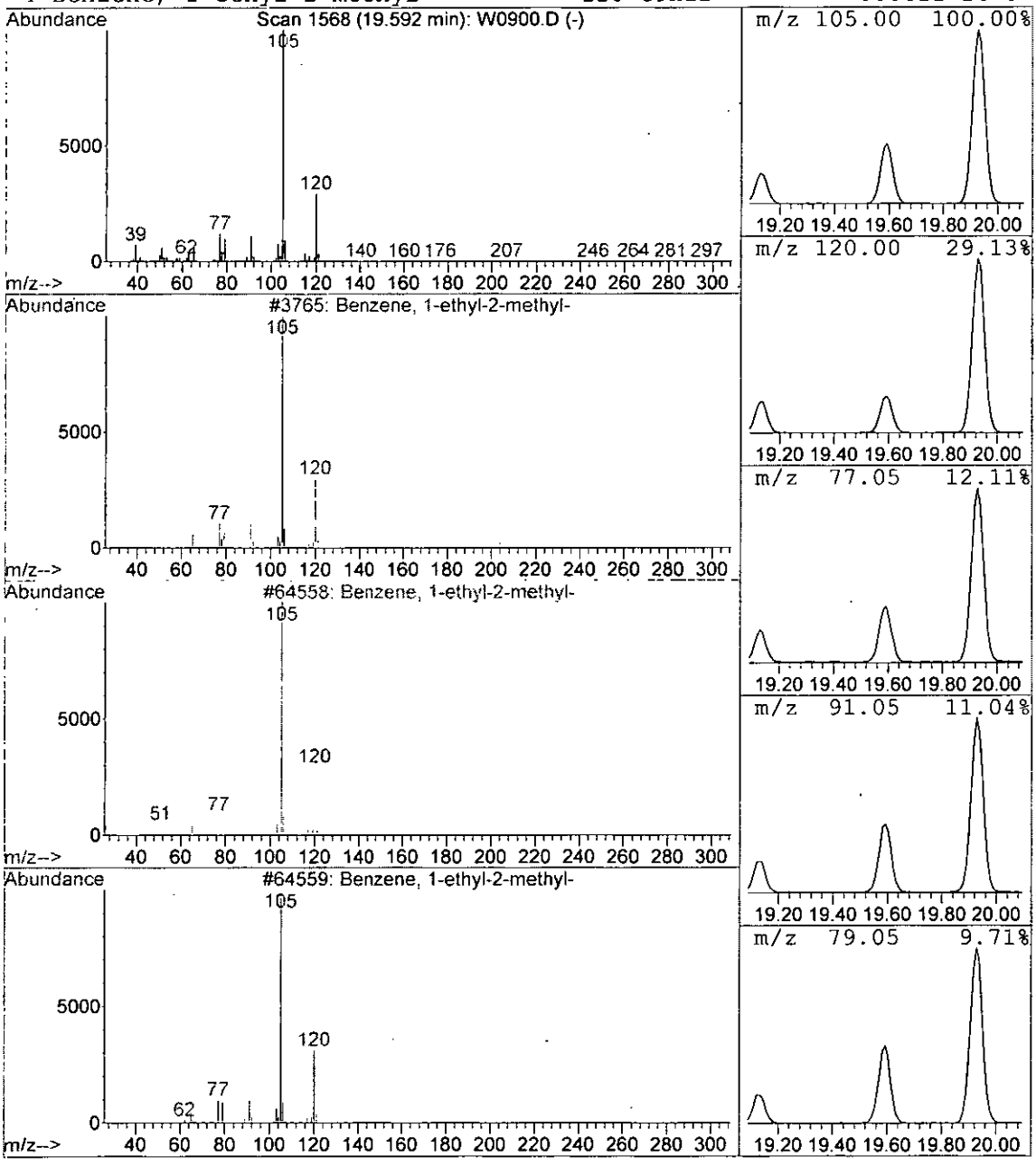
Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.59	44.52 ppb	3692410	d4 - Dichlorobenzene	20.69

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



00138

Library Search Compound Report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Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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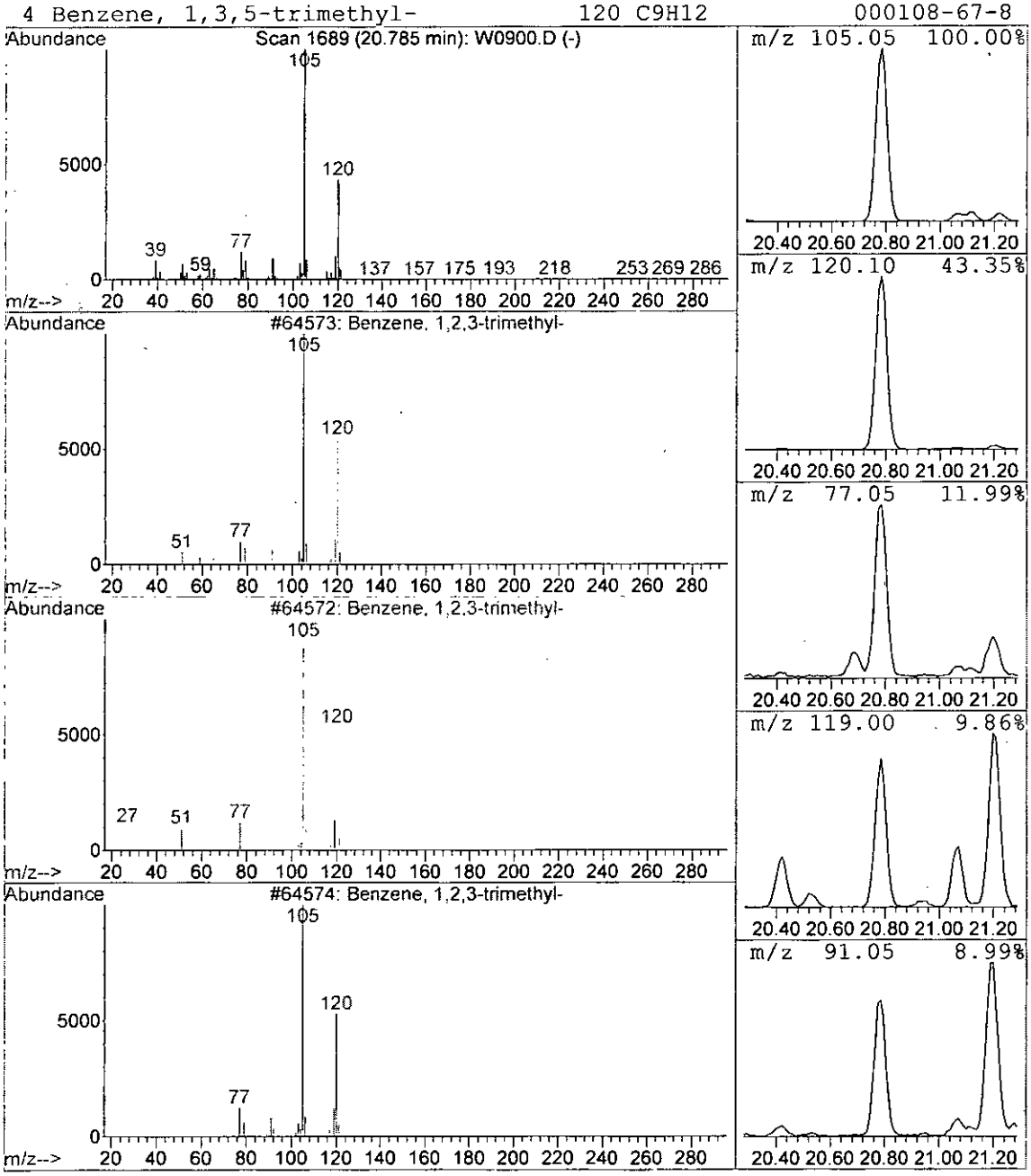
Peak Number 10 Benzene, 1,2,3-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.78	54.63 ppb	4530620	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	93



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Library Search Compound Report

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MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 11 Indane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.20	46.73 ppb	3875100	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	74
2	Benzene, 1-propenyl-	118	C9H10	000637-50-3	49
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	47
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	46

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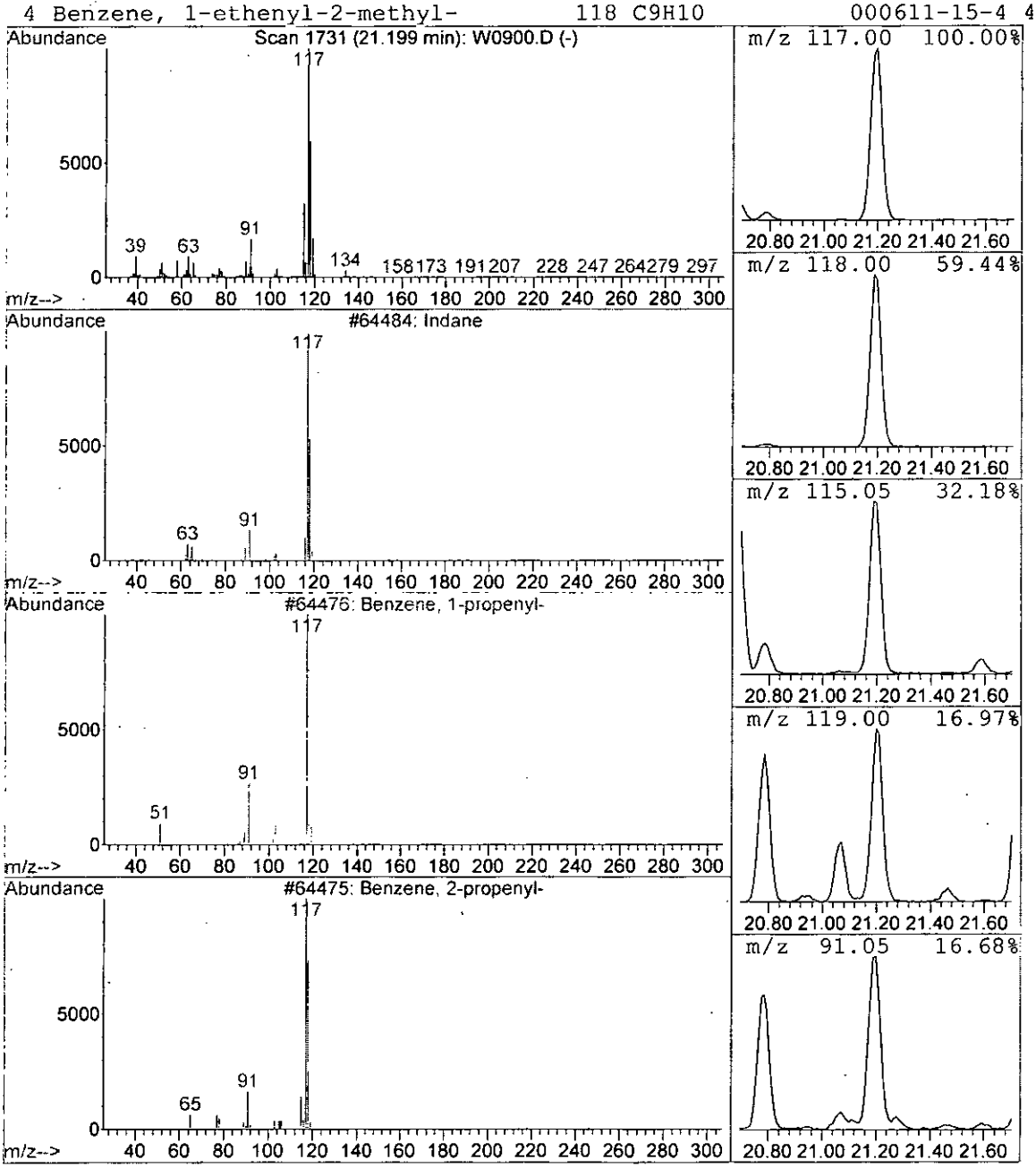

00140

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Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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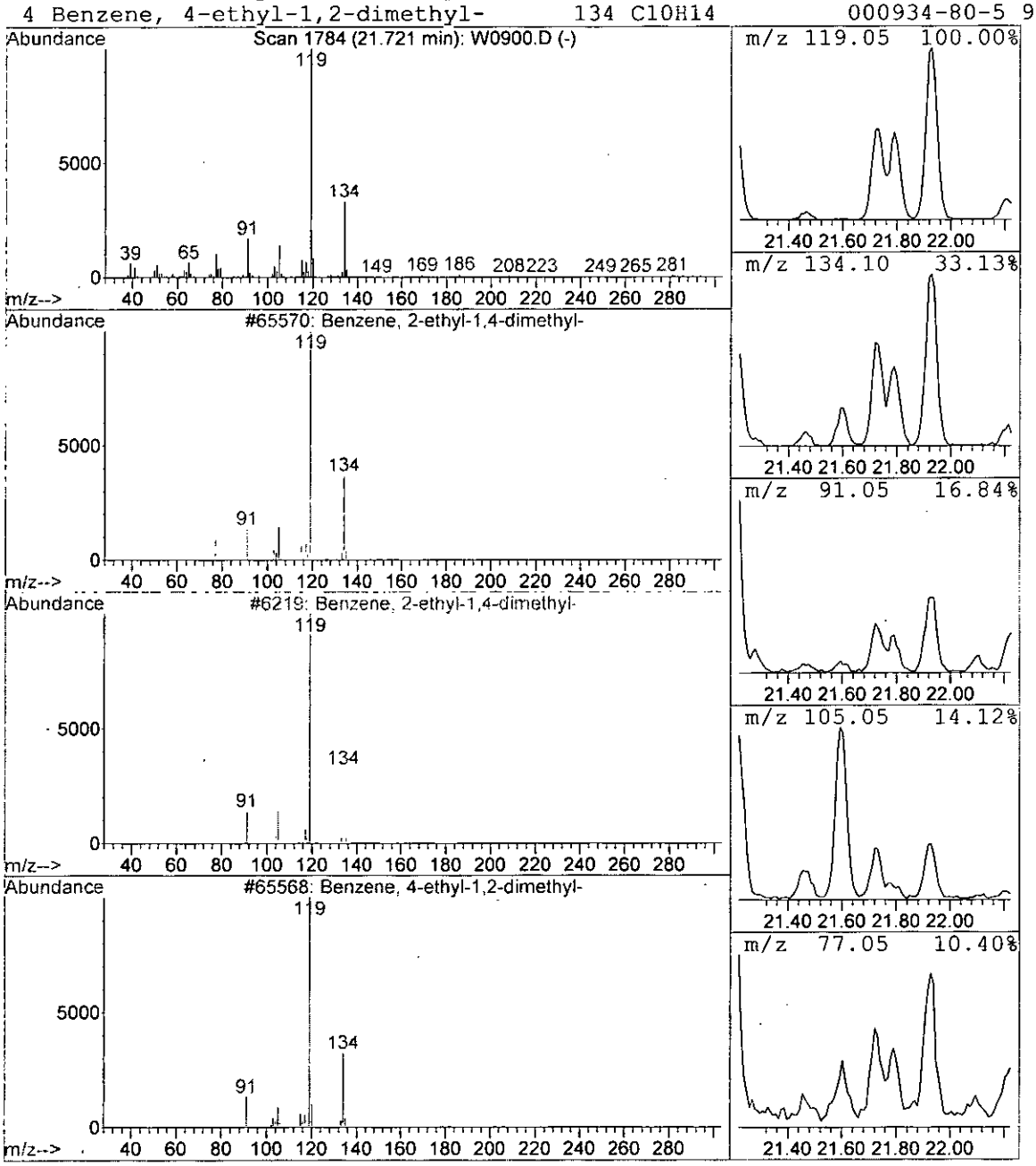
Peak Number 12 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.72	5.63 ppb	467188	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93



Library Search Compound Report

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MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

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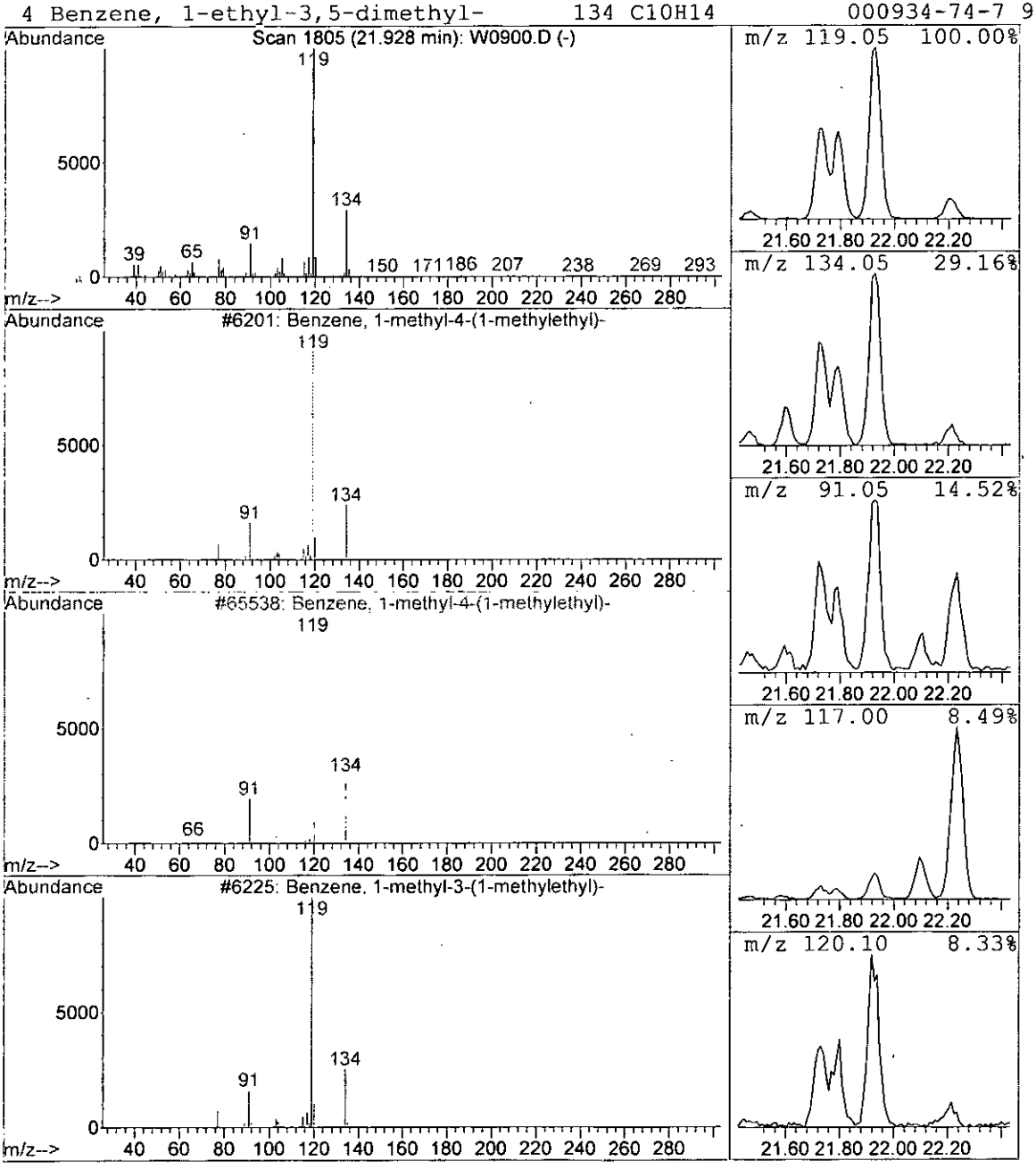
Peak Number 13 Benzene, 1-methyl-4-(1-methyle Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.93	9.58 ppb	794262	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	95
2	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	95
3	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	95
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91



00142

Library Search Compound Report

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MS Integration Params: LSCINT.P

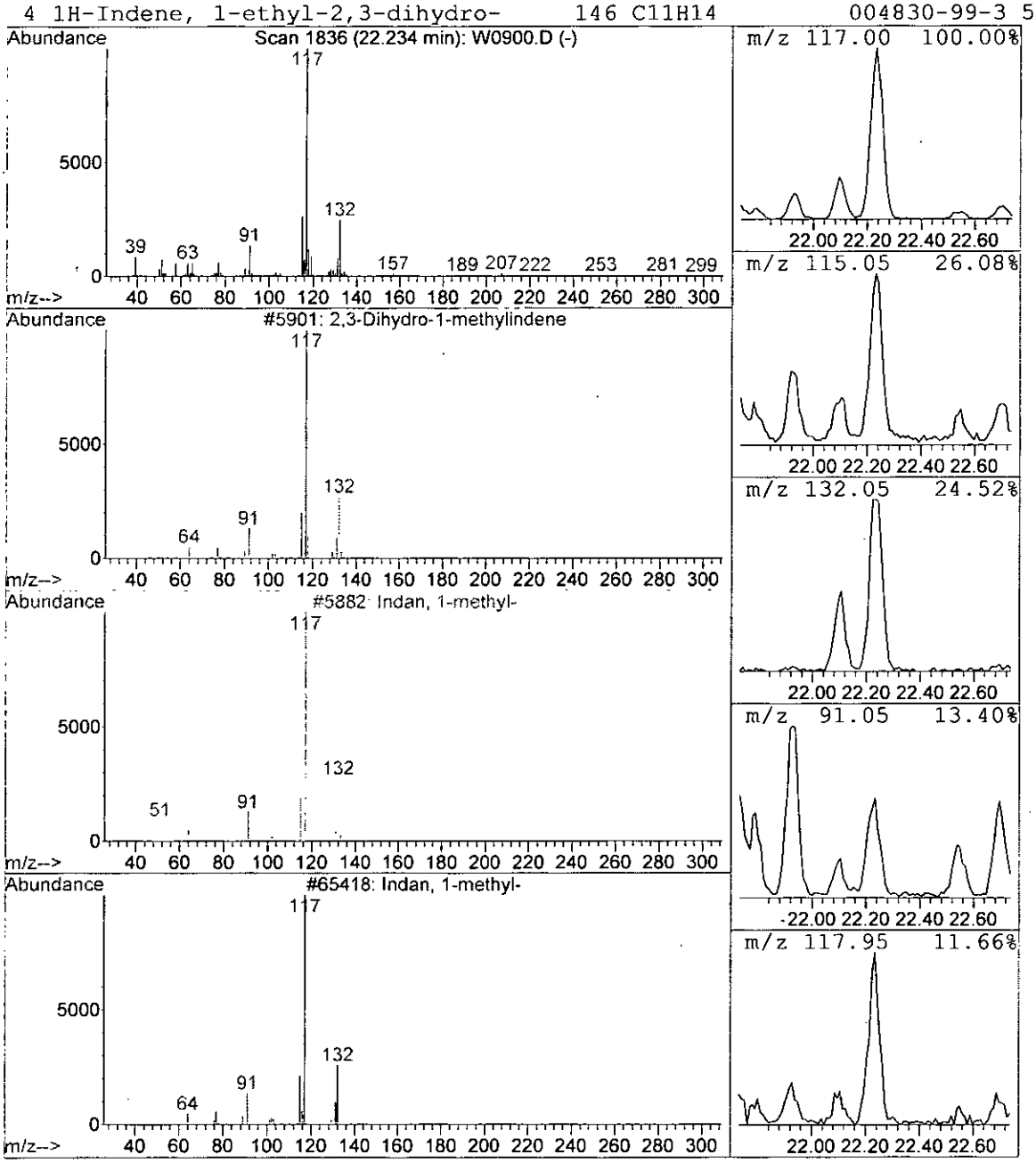
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 14 2,3-Dihydro-1-methylindene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.23	6.88 ppb	570754	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	90
2	Indan, 1-methyl-	132	C10H12	000767-58-8	83
3	Indan, 1-methyl-	132	C10H12	000767-58-8	74
4	1H-Indene, 1-ethyl-2,3-dihydro-	146	C11H14	004830-99-3	59



Library Search Compound Report

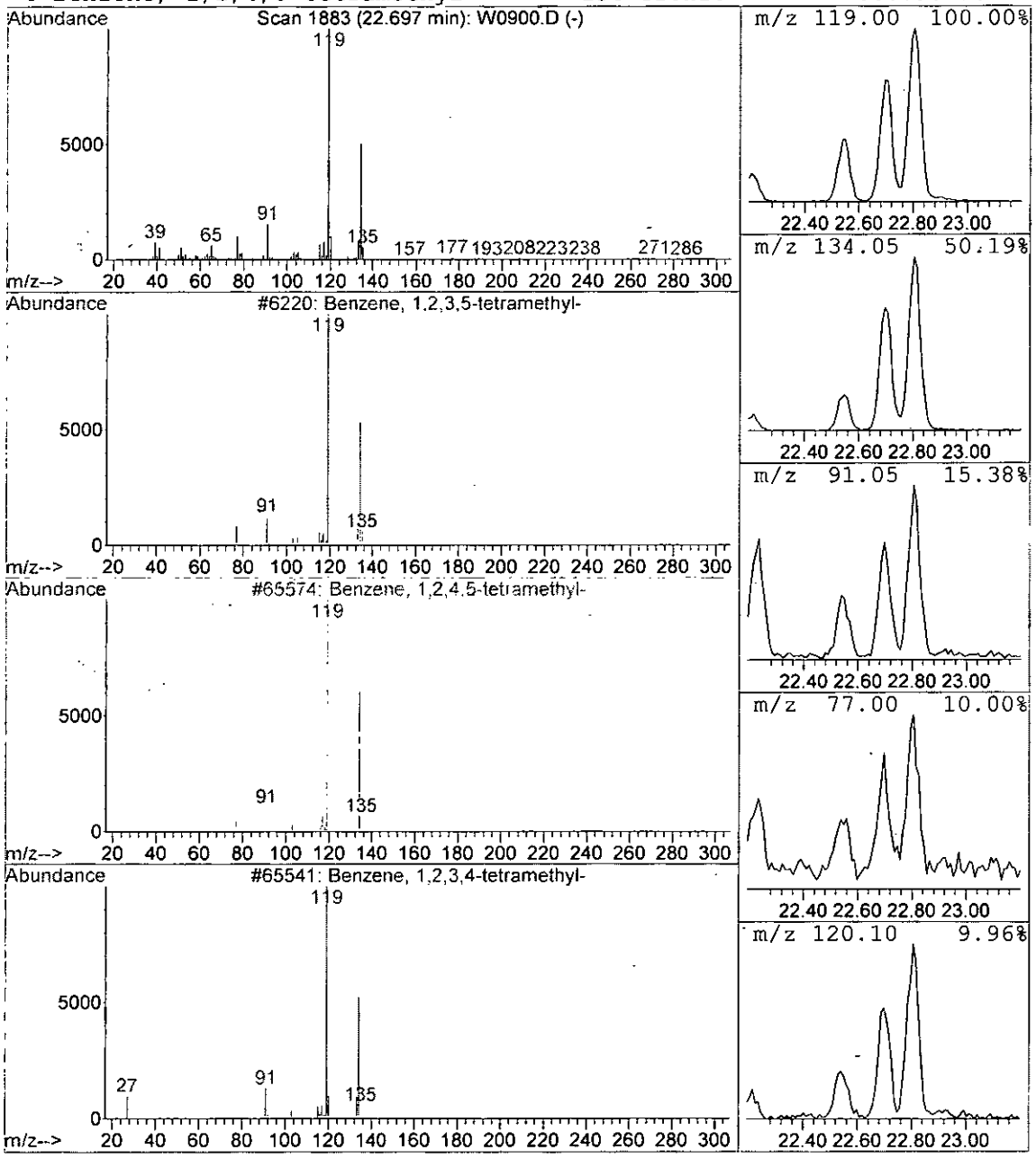

```
Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D        Vial: 20
Acq On    :  3 Apr 2015    8:38 pm                    Operator: K.Ruest
Sample    : R1502204-004|5.0                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```

****

Peak Number 15 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.70	5.91 ppb	489921	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	93
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	92



00144

W0900.D W032315.M Wed Apr 08 16:30:39 2015

Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D Vial: 20
Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

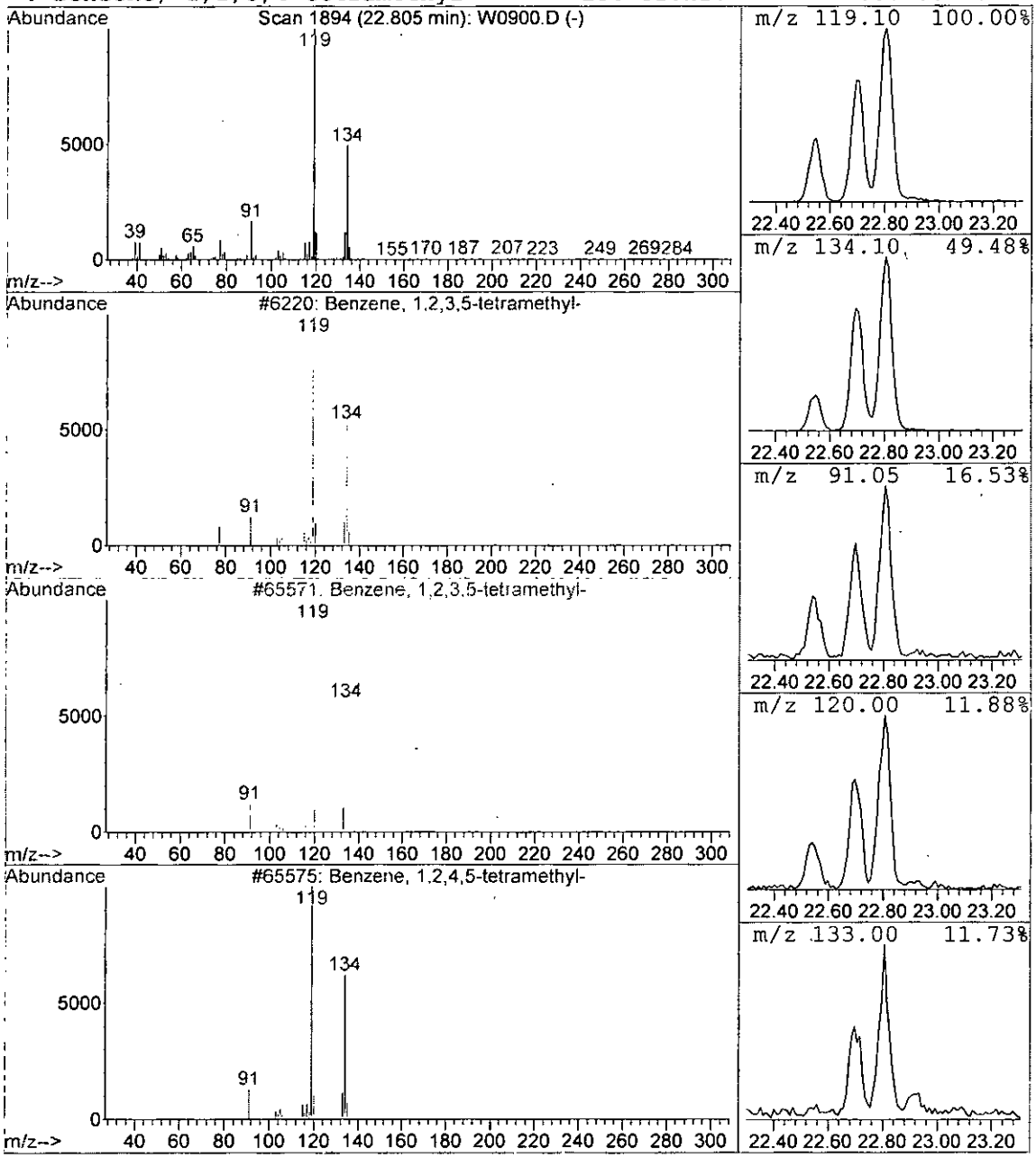
****

Peak Number 16 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.81	8.42 ppb	697889	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91

already called



00145

Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D Vial: 20
Acq On : 3 Apr 2015 8:38 pm Operator: K.Ruest
Sample : R1502204-004|5.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

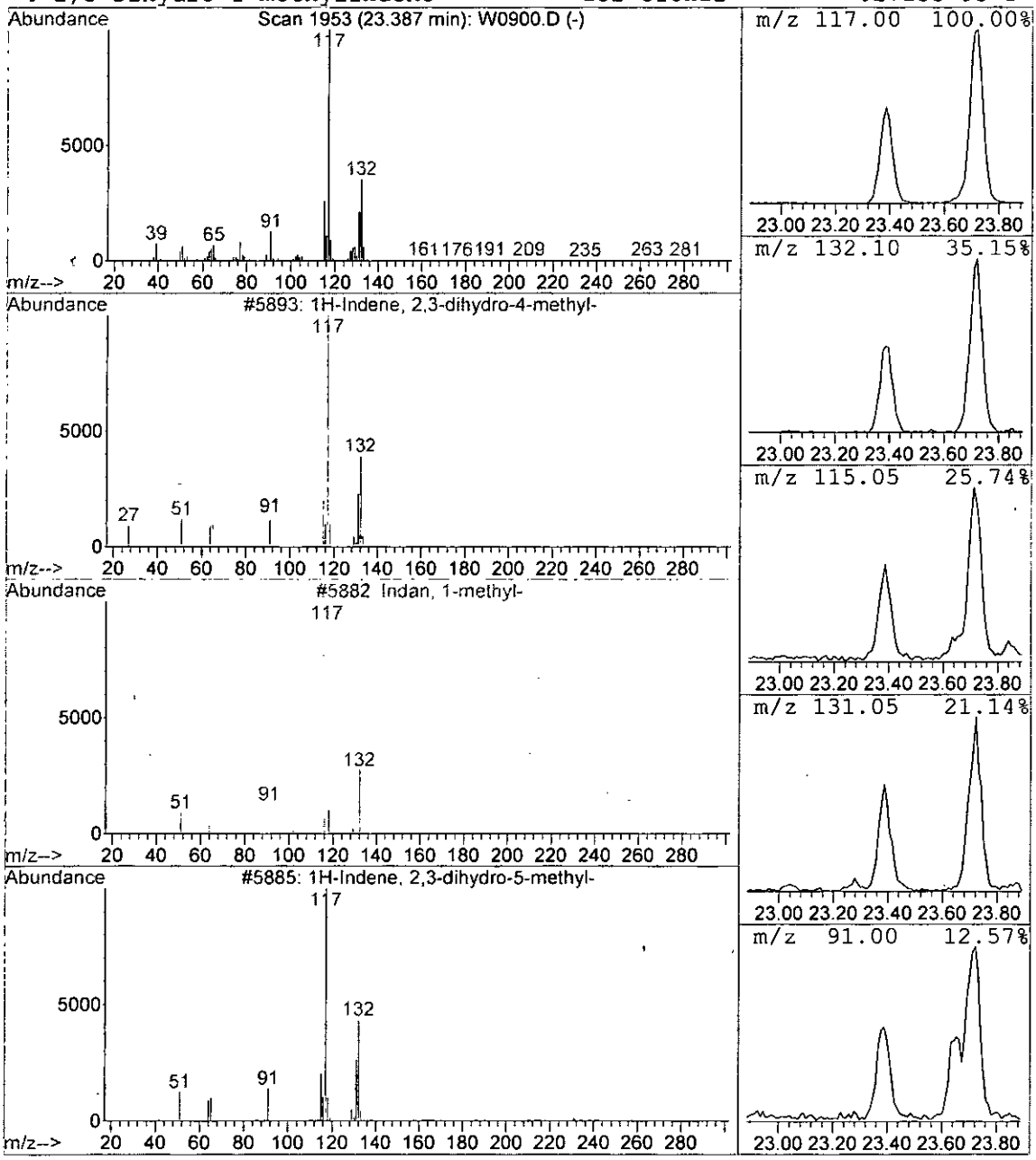
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 17 1H-Indene, 2,3-dihydro-4-methy Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.39	6.71 ppb	556567	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	91
2	Indan, 1-methyl-	132	C10H12	000767-58-8	81
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	80
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	72



00146

Library Search Compound Report

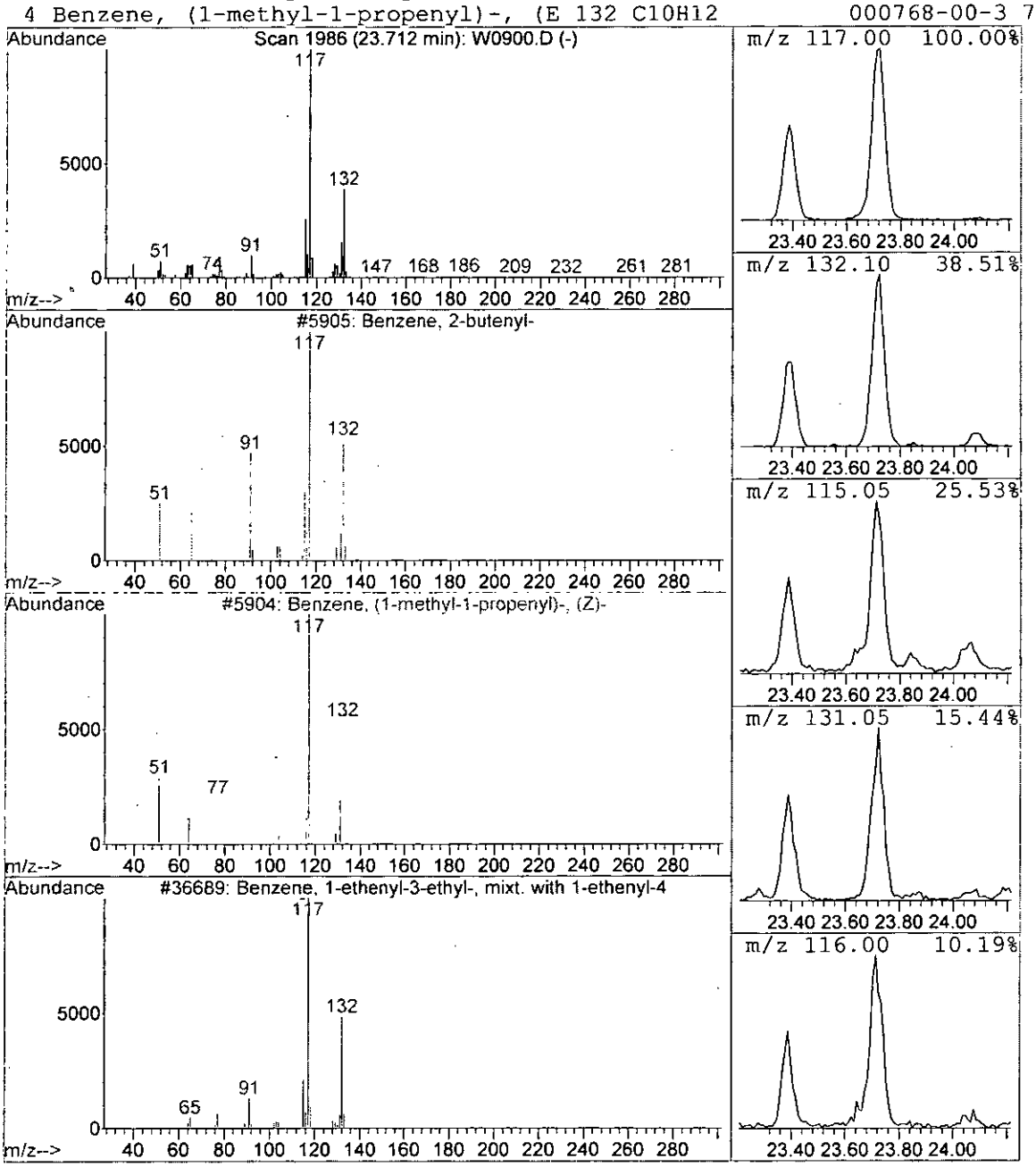

```
Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0900.D        Vial: 20
Acq On    :  3 Apr 2015    8:38 pm                    Operator: K.Ruest
Sample    : R1502204-004|5.0                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```

****

Peak Number 18 Benzene, 2-butenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.71	11.63 ppb	964498	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-butenyl-	132	C10H12	001560-06-1	86
2	Benzene, (1-methyl-1-propenyl)-, (Z	132	C10H12	000767-99-7	78
3	Benzene, 1-ethenyl-3-ethyl-, mixt.	264	C20H24	055319-72-7	72
4	Benzene, (1-methyl-1-propenyl)-, (E	132	C10H12	000768-00-3	70



00147

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1005
Date Received: 3/31/15
Date Analyzed: 4/3/15 12:56

Sample Name: FTMM-53-699MW01-7.5
Lab Code: R1502204-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.3**	**J**	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1005
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 12:56
Sample Name:	FTMM-53-699MW01-7.5	**Units:**	µg/L
Lab Code:	R1502204-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/3/15 12:56	
Dibromofluoromethane	107	85-115	4/3/15 12:56	
Toluene-d8	99	85-120	4/3/15 12:56	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1256

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

Sample Name: FTMM-53-699MW01-7.5
Lab Code: R1502204-005

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D Vial: 7
Acq On : 3 Apr 2015 12:56 pm Operator: K.Ruest
Sample : R1502204-005|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:04 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.79	168	972111	50.00	ppb	0.05
42) 1,4 - Difluorobenzene	10.98	114	1518761	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1364488	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.67	152	649572	50.00	ppb	0.06
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	524115	53.60	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.20%			
48) surr1,1,2-Diclethane	10.39	65	542423	55.03	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 110.06%			
70) surr3,Toluene-d8	13.45	98	1463487	49.40	ppb	0.06
Spiked Amount 50.000	Range 87 - 121		Recovery = 98.80%			
71) surr2,bfb	18.33	95	690996	53.64	ppb	0.06
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.28%			
Target Compounds						Qvalue
15) Acetone	6.83	43	8298	2.28	ppb	87

KP 4/7/15

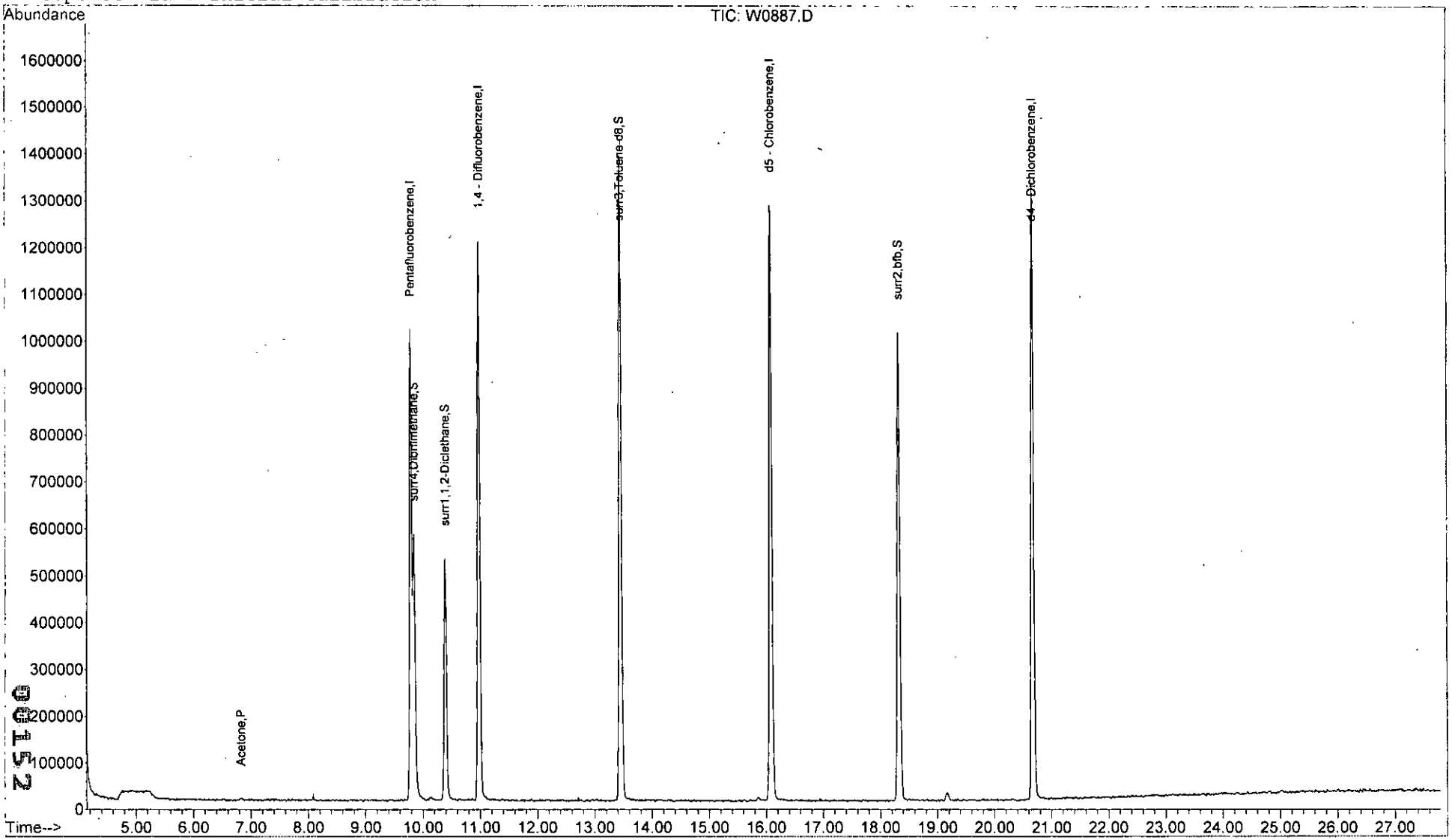
(#) = qualifier out of range (m) = manual integration
W0887.D W032315.M Tue Apr 07 17:06:20 2015

00151

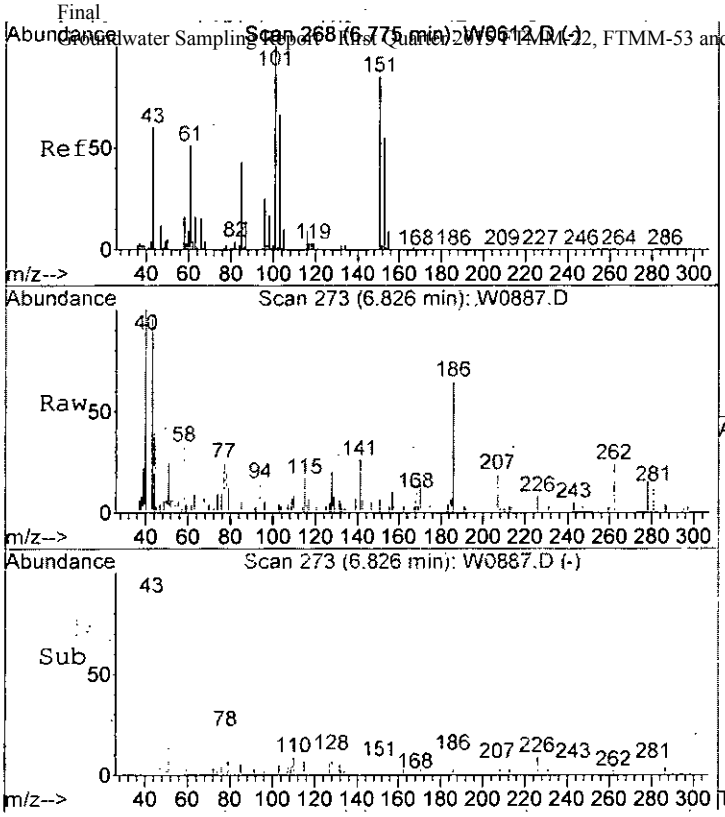
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D Vial: 7
Acq On : 3 Apr 2015 12:56 pm Operator: K.Ruest
Sample : R1502204-005|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:04 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



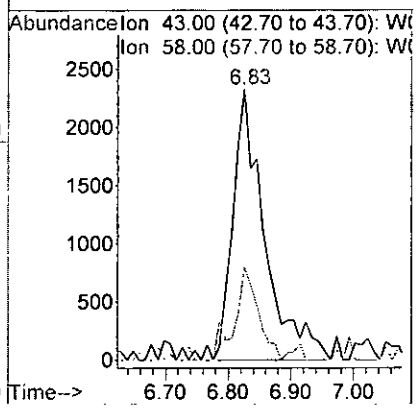
W0887.D W032315.M Tue Apr 07 17:06:22 2015



#15
Acetone
Concen: 2.28 ppb
RT: 6.83 min Scan# 273
Delta R.T. 0.05 min
Lab File: W0887.D
Acq: 3 Apr 2015 12:56 pm

Tgt Ion: 43 Resp: 8298

Ion	Ratio	Lower	Upper
43	100		
58	34.1	7.2	47.2



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D Vial: 7
Acq On : 3 Apr 2015 12:56 pm Operator: K.Ruest
Sample : R1502204-005|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.766	55	64	65	rBV8	21534	78373	1.93%	0.317%
2	9.792	567	574	577	rBV	1007233	2743772	67.63%	11.105%
3	9.851	577	580	590	rVV	569754	1591645	39.23%	6.442%
4	10.393	628	635	644	rBV	515997	1520470	37.48%	6.154%
5	10.985	687	695	706	rBV	1194525	3472165	85.59%	14.052%
6	13.448	938	945	956	rBV	1378069	4056866	100.00%	16.419%
7	16.080	1204	1212	1224	rBV	1272033	4055316	99.96%	16.413%
8	18.327	1431	1440	1451	rBV	1001175	3202880	78.95%	12.963%
9	20.672	1670	1678	1691	rBV	1315620	3987154	98.28%	16.137%

Sum of corrected areas: 24708641

W0887.D W032315.M Tue Apr 07 17:06:31 2015

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015  12:56 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-005|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 7
Quant File :W032315.RES (RTE Integrator)
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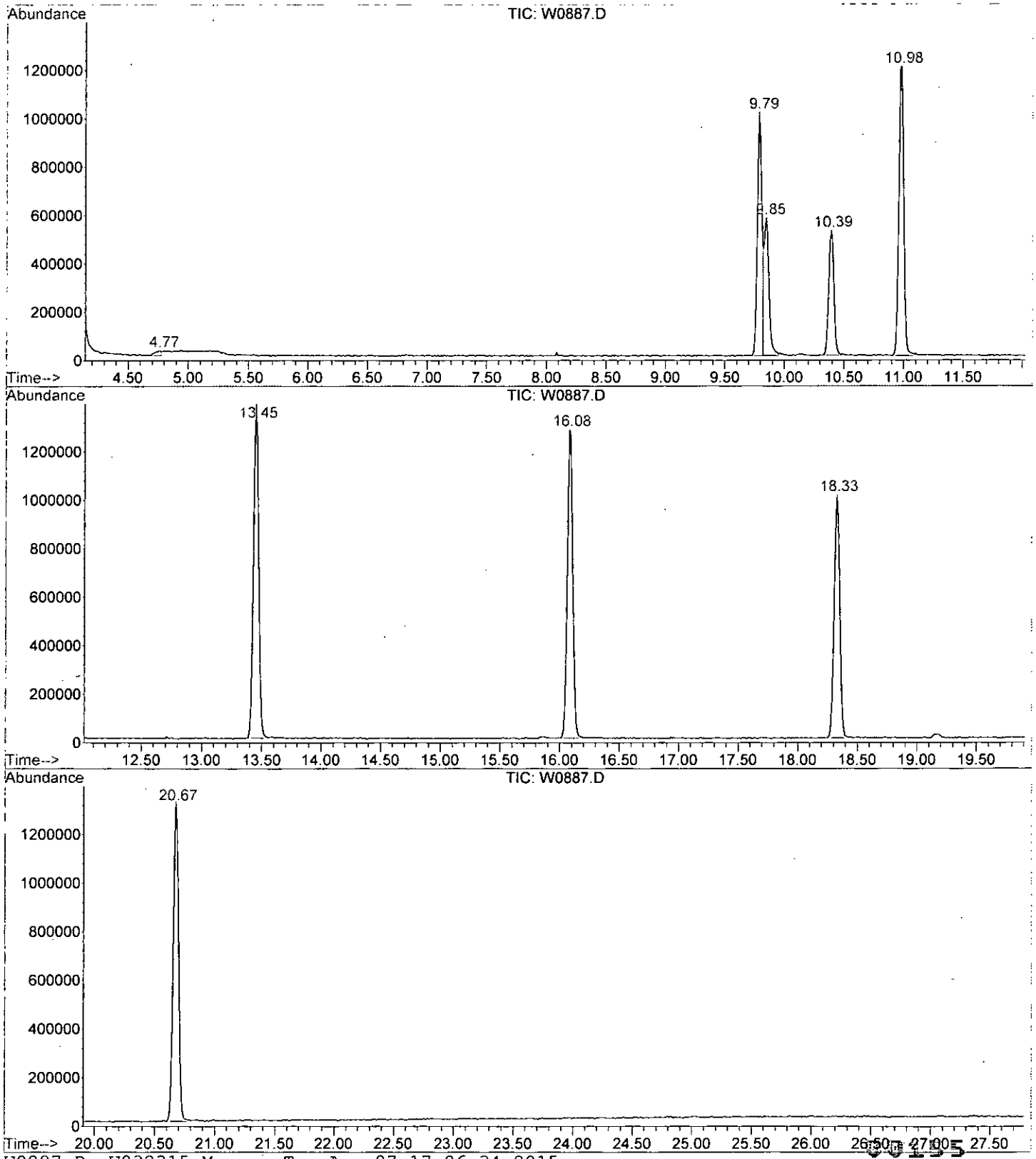


W0887.D W032315.M Tue Apr 07 17:06:34 2015

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 12:56 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0887.D
Name: R1502204-005|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0887.D W032315.M Tue Apr 07 17:06:34 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1015
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 14:07
Sample Name:	FTMM-53-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1502204-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1015
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 14:07
Sample Name:	FTMM-53-699MW09-7.75	**Units:**	µg/L
Lab Code:	R1502204-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/3/15 14:07	
Dibromofluoromethane	109	85-115	4/3/15 14:07	
Toluene-d8	106	85-120	4/3/15 14:07	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1407

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

Sample Name: FTMM-53-699MW09-7.75
Lab Code: R1502204-006

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D Vial: 9
Acq On : 3 Apr 2015 2:07 pm Operator: K.Ruest
Sample : R1502204-006|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:14 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	964309	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.98	114	1496652	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.08	117	1341495	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	670694	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	523138	54.29	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.58%			
48) surr1,1,2-Diclethane	10.39	65	556035	57.25	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.50%			
70) surr3,Toluene-d8	13.45	98	1541945	52.94	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.88%			
71) surr2,bfb	18.33	95	697553	55.07	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.14%			
Target Compounds						Qvalue
15) Acetone	6.84	43	7786	2.15	ppb	96
72) Tetrachloroethene	14.59	166	2308	0.23	ppb #	71

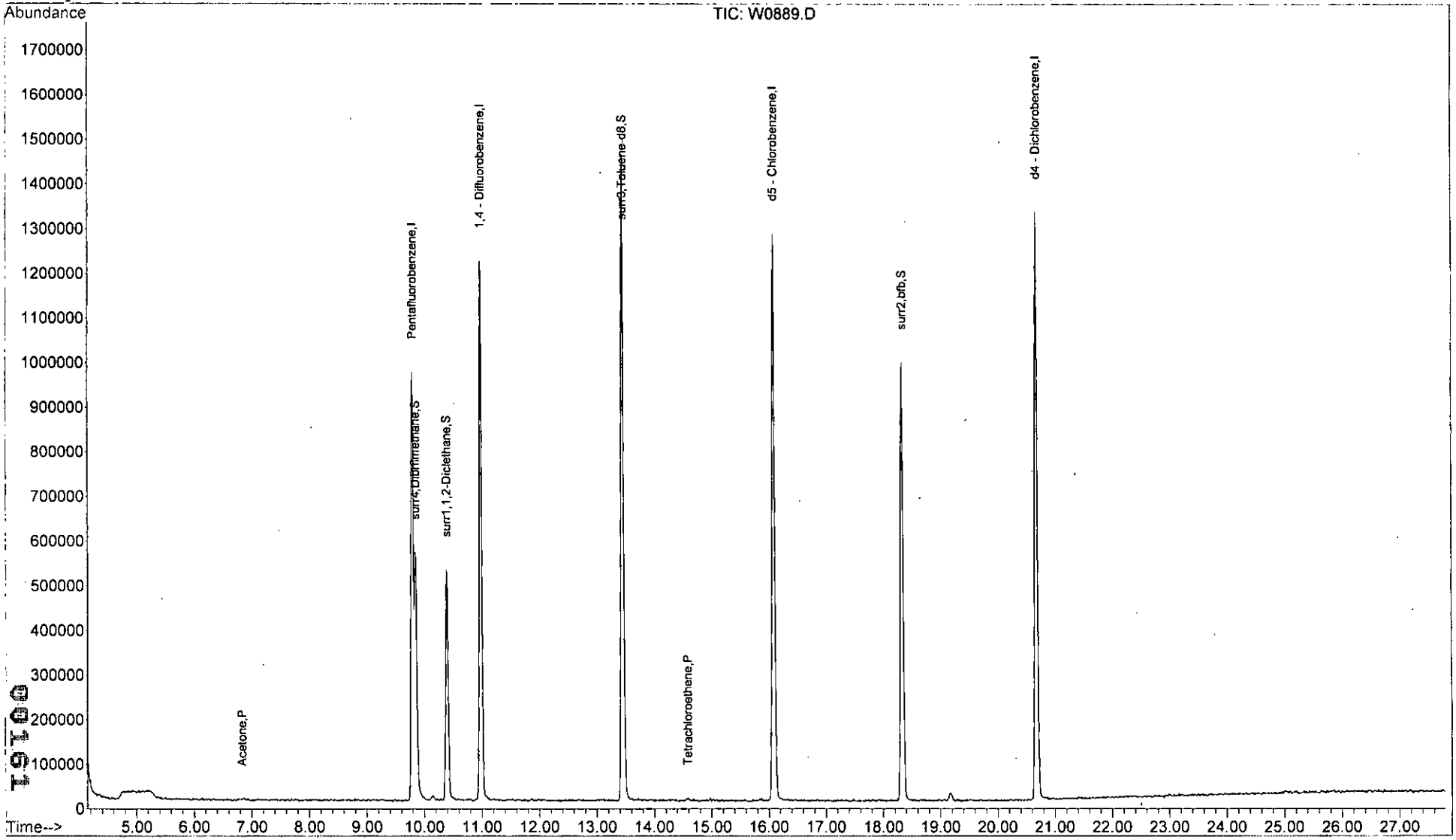
KB 4/7/15

(#) = qualifier out of range (m) = manual integration
W0889.D W032315.M Tue Apr 07 17:16:01 2015

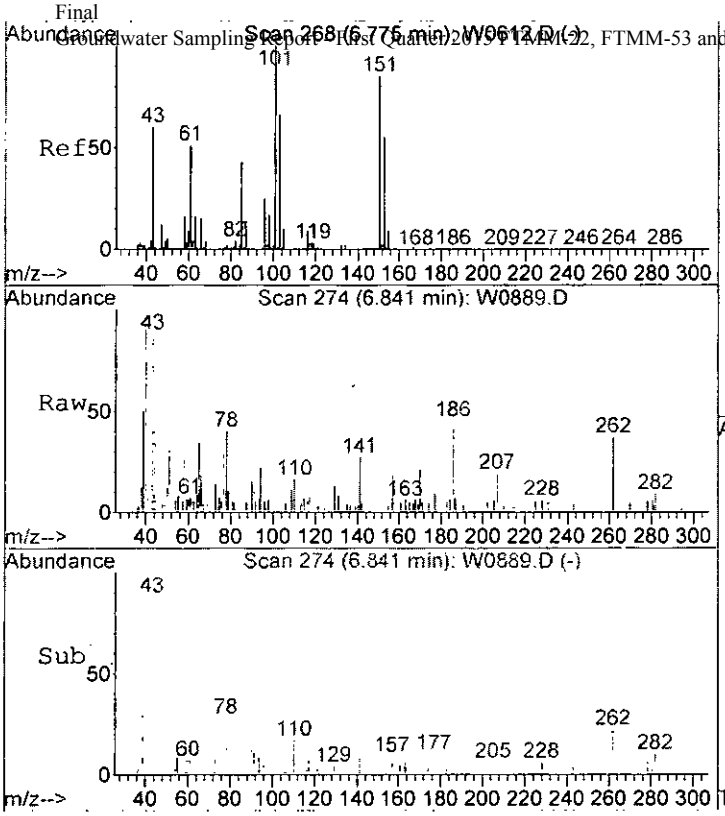
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D Vial: 9
Acq On : 3 Apr 2015 2:07 pm Operator: K.Ruest
Sample : R1502204-006|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:14 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



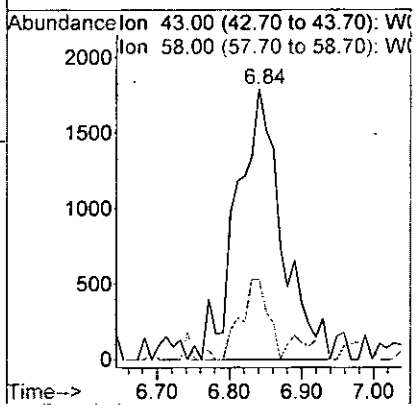
W0889.D W032315.M Tue Apr 07 17:16:03 2015

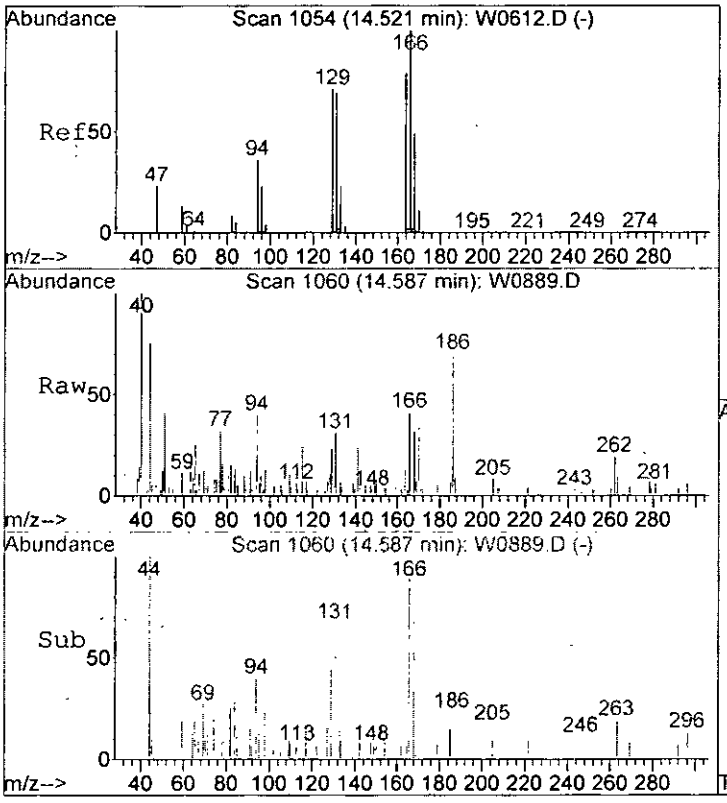


#15
Acetone
Concen: 2.15 ppb
RT: 6.84 min Scan# 274
Delta R.T. 0.07 min
Lab File: W0889.D
Acq: 3 Apr 2015 2:07 pm

Tgt Ion: 43 Resp: 7786

Ion	Ratio	Lower	Upper
43	100		
58	29.5	7.2	47.2

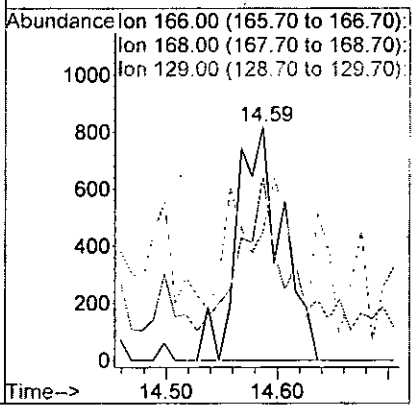




#72
Tetrachloroethene
Concen: 0.23 ppb
RT: 14.59 min Scan# 1060
Delta R.T. 0.07 min
Lab File: W0889.D
Acq: 3 Apr 2015 2:07 pm

Tgt Ion:166 Resp: 2308

Ion	Ratio	Lower	Upper
166	100		
168	78.6	29.2	69.2#
129	55.1	51.3	91.3



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D Vial: 9
Acq On : 3 Apr 2015 2:07 pm Operator: K.Ruest
Sample : R1502204-006|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.797	564	574	577	rBV	962715	2832238	66.54%	11.412%
2	9.847	577	579	595	rVB	554306	1503848	35.33%	6.059%
3	10.389	628	634	642	rBV	516720	1536513	36.10%	6.191%
4	10.980	687	694	707	rBV	1206287	3417892	80.30%	13.771%
5	13.453	936	945	957	rBV	1449621	4256316	100.00%	17.149%
6	16.085	1204	1212	1223	rBV	1268971	4012810	94.28%	16.168%
7	18.332	1432	1440	1449	rBV	983190	3189761	74.94%	12.852%
8	19.169	1521	1525	1530	rVB6	14971	47716	1.12%	0.192%
9	20.677	1668	1678	1687	rBV	1318426	4021977	94.49%	16.205%

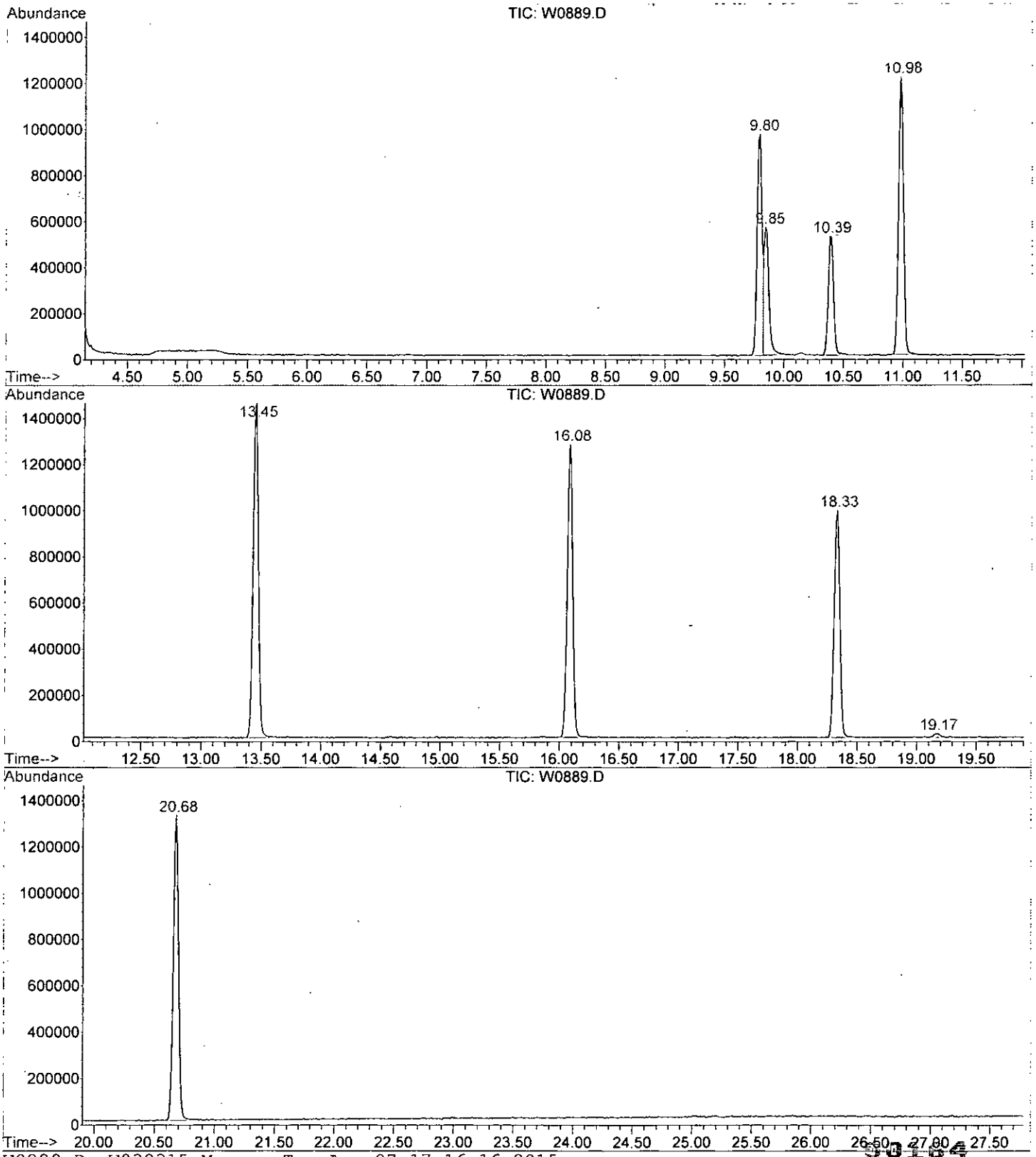
Sum of corrected areas: 24819071

W0889.D W032315.M Tue Apr 07 17:16:14 2015

00163

LSC Report - Integrated Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   2:07 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-006|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 9
Quant File :W032315.RES (RTE Integrator)
```



W0889.D W032315.M Tue Apr 07 17:16:16 2015

Tentatively Identified Compound (TIC) summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 2:07 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0889.D
Name: R1502204-006|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0889.D W032315.M Tue Apr 07 17:16:16 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1020
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 14:42
Sample Name:	FTMM-53-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1502204-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.4**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1020
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 14:42
Sample Name:	FTMM-53-699MW16-7.5	**Units:**	µg/L
Lab Code:	R1502204-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
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	**4.5**	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	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**0.95**	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 14:42	
Dibromofluoromethane	111	85-115	4/3/15 14:42	
Toluene-d8	107	85-120	4/3/15 14:42	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1442

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

Sample Name: FTMM-53-699MW16-7.5
Lab Code: R1502204-007

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D Vial: 10
Acq On : 3 Apr 2015 2:42 pm Operator: K.Ruest
Sample : R1502204-007|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:17 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	967704	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.98	114	1503901	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1358752	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	655322	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	535942	55.36	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.72%			
48) surr1,1,2-Diclethane	10.39	65	559556	57.33	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.66%			
70) surr3,Toluene-d8	13.46	98	1585062	53.73	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.46%			
71) surr2,bfb	18.34	95	701201	54.66	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.32%			
Target Compounds						Qvalue
15) Acetone	6.84	43	4942	1.36	ppb	78
39) Chloroform	9.61	83	81412	4.52	ppb	99
72) Tetrachloroethene	14.58	166	9565	0.95	ppb	87

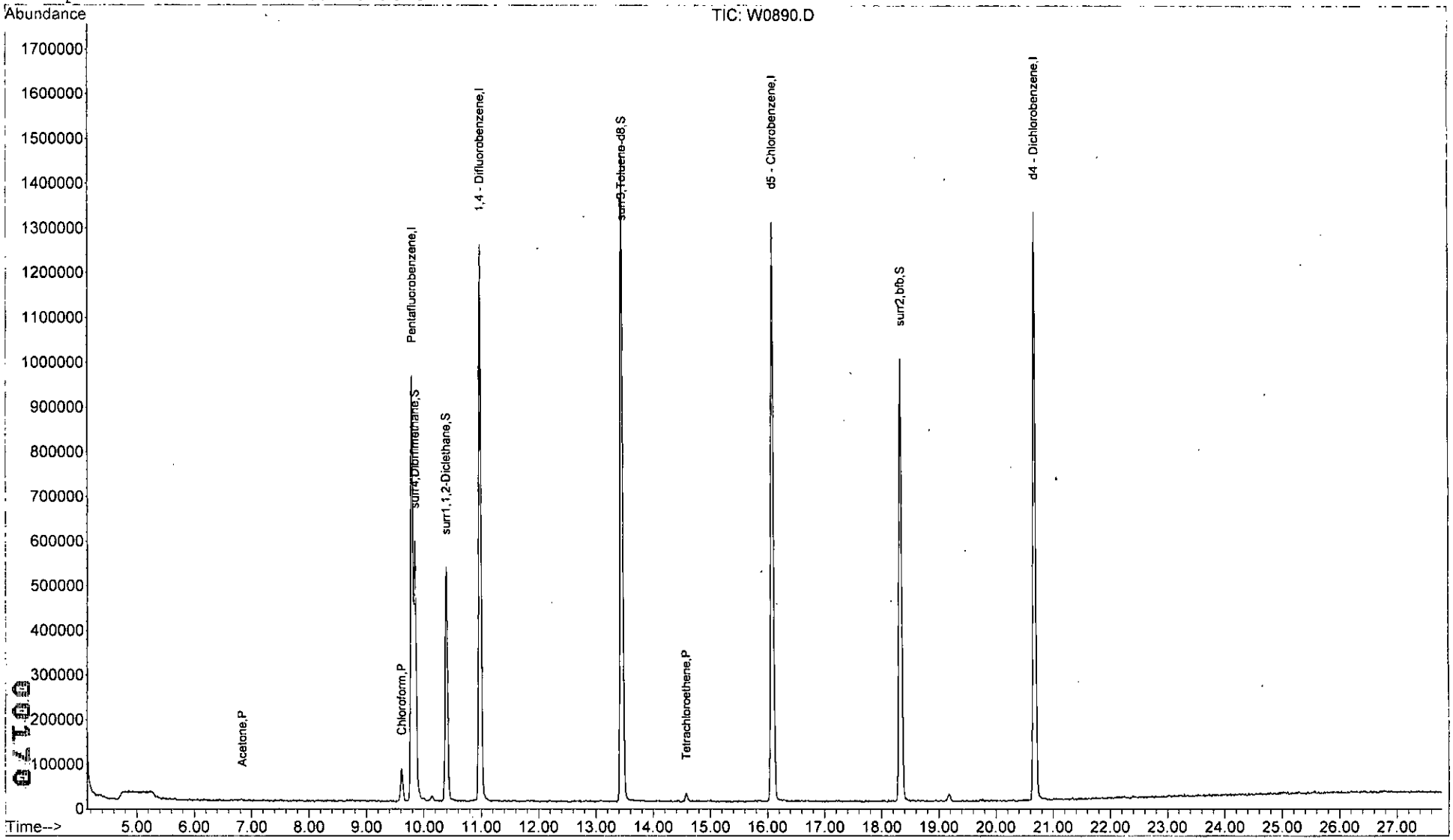
pf 4/7/15

(#) = qualifier out of range (m) = manual integration
W0890.D W032315.M Tue Apr 07 17:18:48 2015

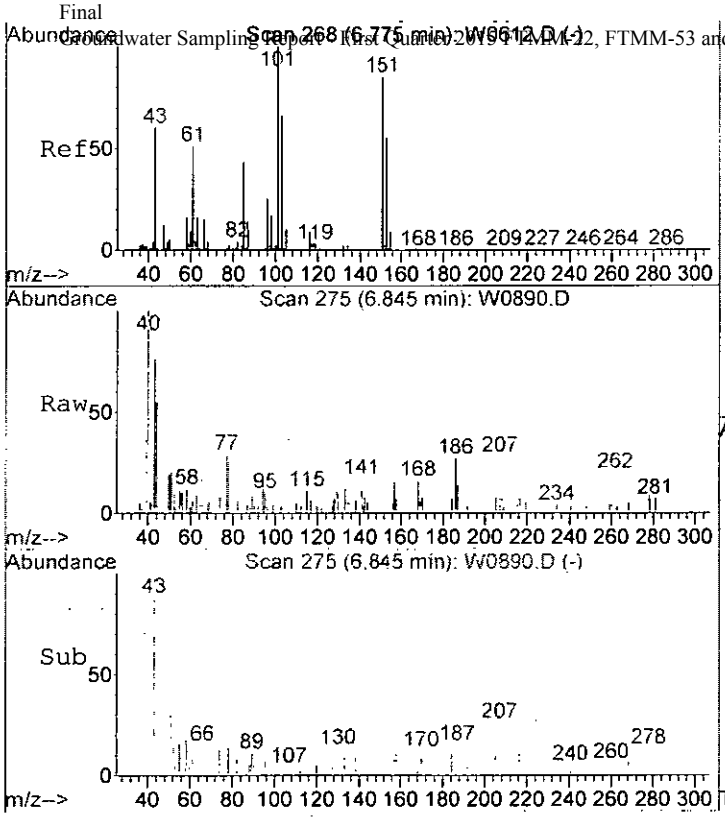
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D Vial: 10
Acq On : 3 Apr 2015 2:42 pm Operator: K.Ruest
Sample : R1502204-007|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:17 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



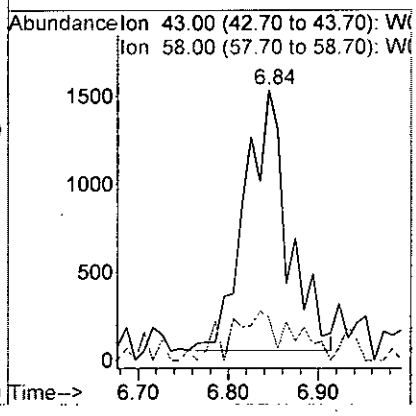
W0890.D W032315.M Tue Apr 07 17:18:50 2015 Page 2

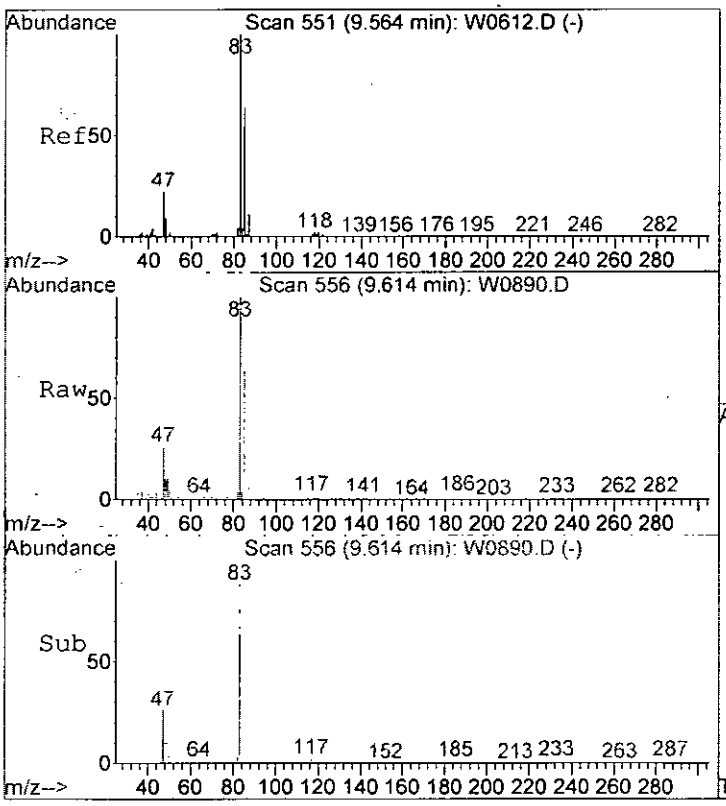


#15
Acetone
Concen: 1.36 ppb
RT: 6.84 min Scan# 275
Delta R.T. 0.07 min
Lab File: W0890.D
Acq: 3 Apr 2015 2:42 pm

Tgt Ion: 43 Resp: 4942

Ion	Ratio	Lower	Upper
43	100		
58	15.8	7.2	47.2

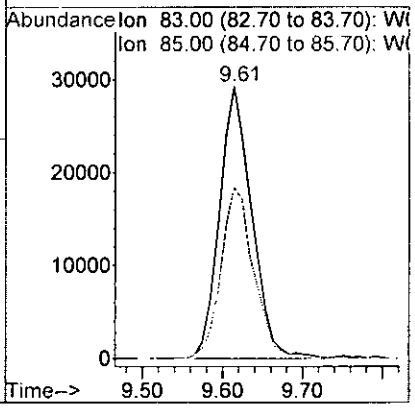


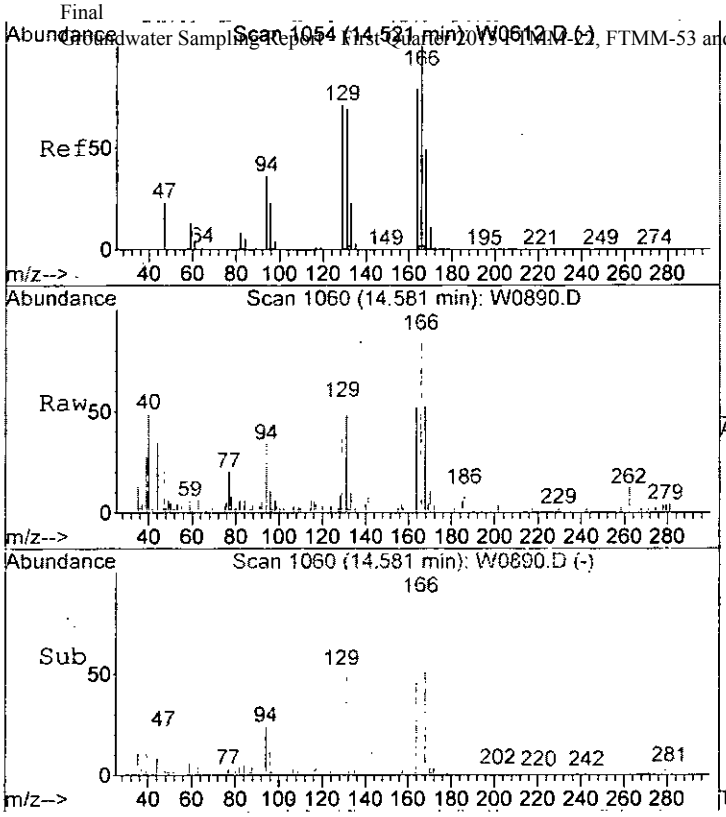


#39
Chloroform
Concen: 4.52 ppb
RT: 9.61 min Scan# 556
Delta R.T. 0.05 min
Lab File: W0890.D
Acq: 3 Apr 2015 2:42 pm

Tgt Ion: 83 Resp: 81412

Ion	Ratio	Lower	Upper
83	100		
85	62.9	43.5	83.5

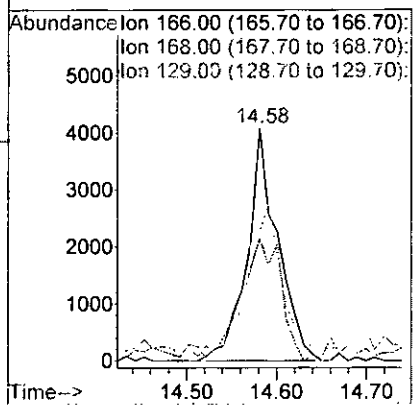




#72
Tetrachloroethene
Concen: 0.95 ppb
RT: 14.58 min Scan# 1060
Delta R.T. 0.06 min
Lab File: W0890.D
Acq: 3 Apr 2015 2:42 pm

Tgt Ion:166 Resp: 9565

Ion	Ratio	Lower	Upper
166	100		
168	52.4	29.2	69.2
129	55.3	51.3	91.3



W0890.D W032315.M Tue Apr 07 17:18:54 2015 00172 Page 4

LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D Vial: 10
Acq On : 3 Apr 2015 2:42 pm Operator: K.Ruest
Sample : R1502204-007|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.755	55	63	65	rBV8	17185	64615	1.47%	0.255%
2	9.614	550	556	562	rBV	73436	198139	4.51%	0.781%
3	9.801	568	575	578	rBV	951995	2887213	65.70%	11.379%
4	9.850	578	580	591	rVB	578293	1419347	32.30%	5.594%
5	10.392	626	635	643	rBV	525077	1544104	35.13%	6.085%
6	10.984	688	695	706	rBV	1244170	3453090	78.57%	13.609%
7	13.457	937	946	959	rBV	1447567	4394777	100.00%	17.320%
8	14.581	1056	1060	1068	rVB5	19547	54946	1.25%	0.217%
9	16.089	1205	1213	1223	rBV	1297021	4083521	92.92%	16.093%
10	18.336	1432	1441	1449	rBV	991950	3226774	73.42%	12.717%
11	19.173	1522	1526	1533	rVB7	18966	65607	1.49%	0.259%
12	20.681	1671	1679	1691	rBV	1317198	3982064	90.61%	15.693%

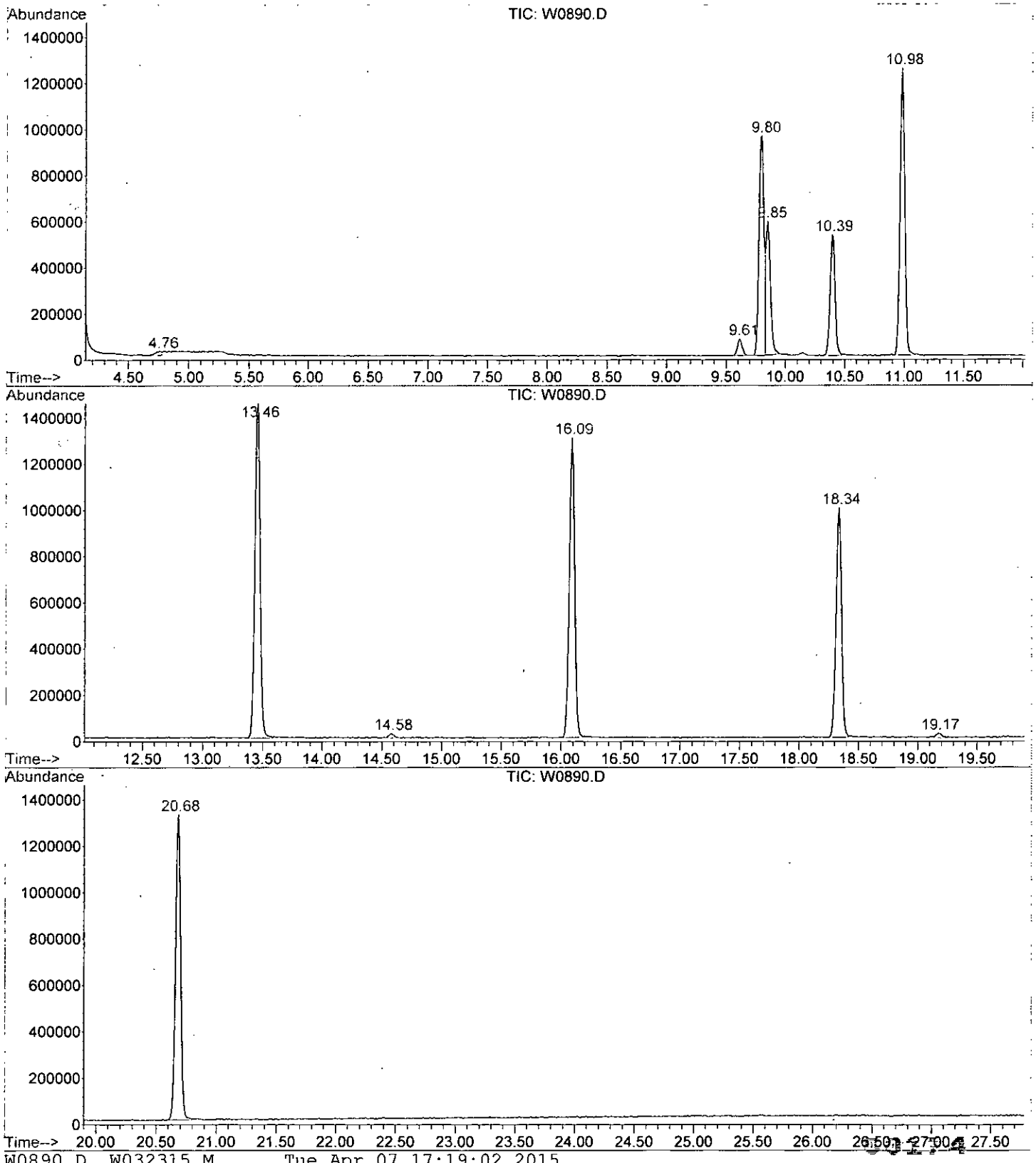
Sum of corrected areas: 25374197

W0890.D W032315.M Tue Apr 07 17:19:00 2015

00173

LSC Report - Integrated Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   2:42 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-007|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 10
Quant File :W032315.RES (RTE Integrator)
```



W0890.D W032315.M Tue Apr 07 17:19:02 2015

Tentatively Identified Compounds (TIC) summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 2:42 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0890.D
Name: R1502204-007|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0890.D W032315.M Tue Apr 07 17:19:02 2015

00175

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1025
Date Received: 3/31/15
Date Analyzed: 4/2/15 21:58

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1025
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 21:58
Sample Name:	FTMM-53-699MW06-10.2	**Units:**	µg/L
Lab Code:	R1502204-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/2/15 21:58	
Dibromofluoromethane	108	85-115	4/2/15 21:58	
Toluene-d8	108	85-120	4/2/15 21:58	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/2/15 2158

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

Sample Name: FTMM-53-699MW06-10.2
Lab Code: R1502204-008

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D Vial: 21
Acq On : 2 Apr 2015 9:58 pm Operator: K.Ruest
Sample : R1502204-008|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:08 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	1046214	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	11.00	114	1608248	50.00	ppb	0.07
64) d5 - Chlorobenzene	16.10	117	1459873	50.00	ppb	0.08
90) d4 - Dichlorobenzene	20.69	152	698536	50.00	ppb	0.08
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	557067	53.80	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.60%			
48) surr1,1,2-Diclethane	10.40	65	587013	56.24	ppb	0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 112.48%			
70) surr3,Toluene-d8	13.47	98	1711326	53.99	ppb	0.08
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.98%			
71) surr2,bfb	18.35	95	736328	53.42	ppb	0.08
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.84%			
Target Compounds						Qvalue
15) Acetone	6.85	43	6074	1.55	ppb	93

KP
4/3/15

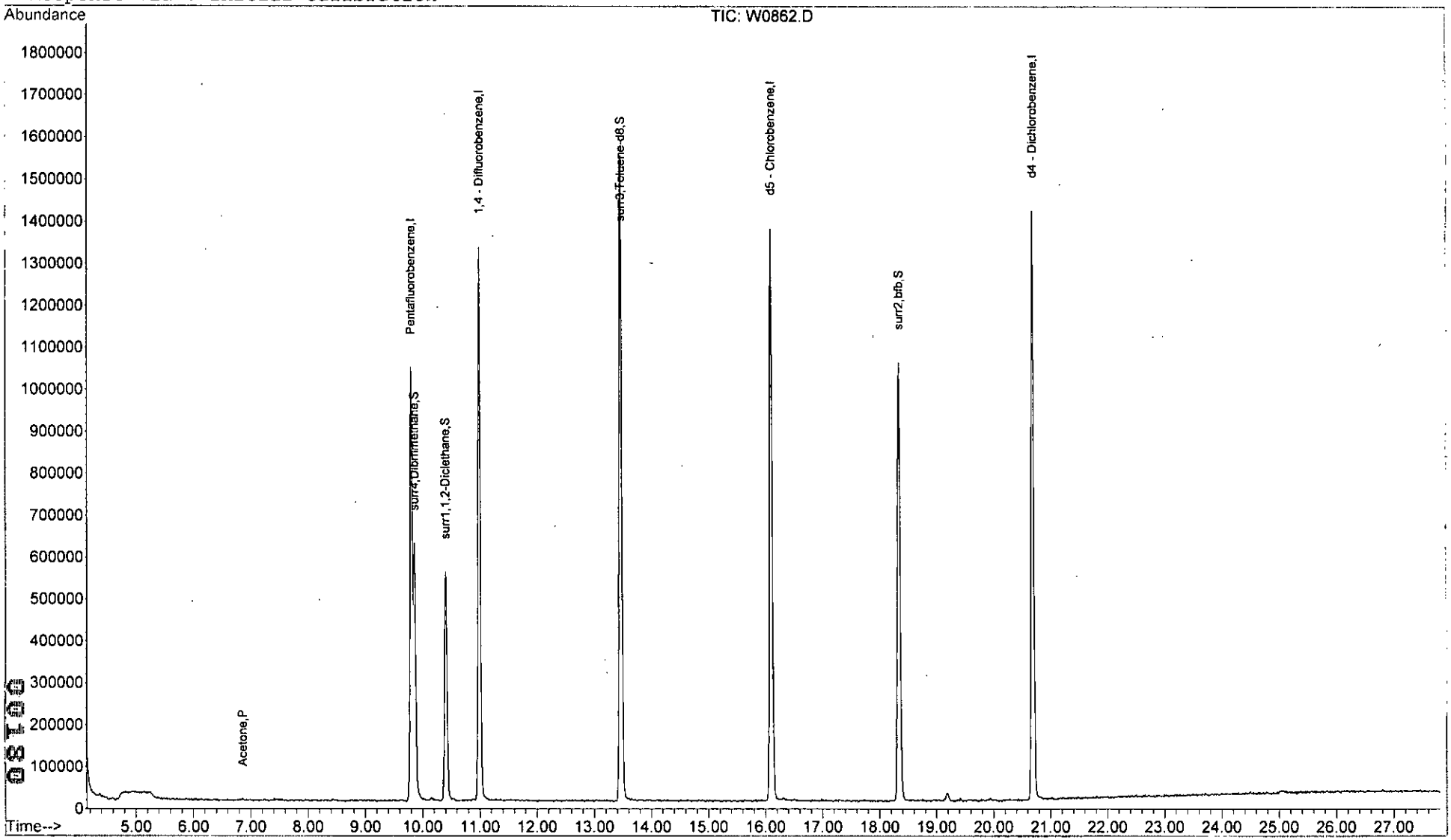
(#) = qualifier out of range (m) = manual integration
W0862.D W032315.M Fri Apr 03 15:09:55 2015

00179

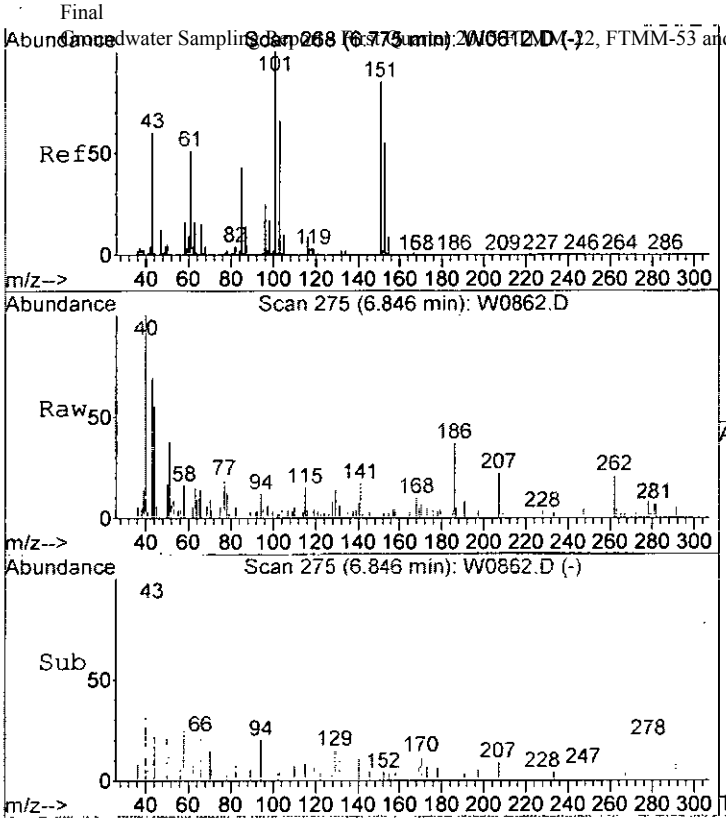
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D Vial: 21
Acq On : 2 Apr 2015 9:58 pm Operator: K.Ruest
Sample : R1502204-008|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:08 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



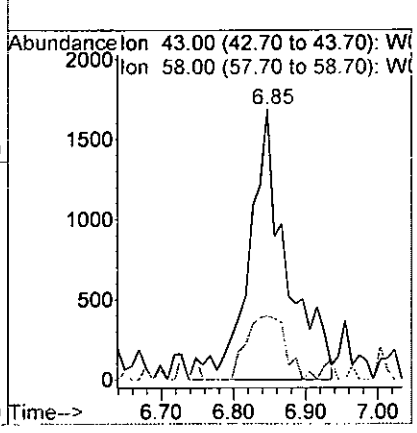
W0862.D W032315.M Fri Apr 03 15:09:57 2015 Page 2



Acetone
Concen: 1.55 ppb
RT: 6.85 min Scan# 275
Delta R.T. 0.07 min
Lab File: W0862.D
Acq: 2 Apr 2015 9:58 pm

Tgt Ion: 43 Resp: 6074

Ion	Ratio	Lower	Upper
43	100		
58	23.6	7.2	47.2



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D Vial: 21
Acq On : 2 Apr 2015 9:58 pm Operator: K.Ruest
Sample : R1502204-008|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.803	566	575	579	rBV	1036024	3121674	66.19%	11.696%
2	9.862	579	581	594	rVB	612425	1495808	31.72%	5.604%
3	10.404	628	636	646	rBV	546009	1635933	34.69%	6.129%
4	10.995	688	696	709	rBV	1320085	3703130	78.52%	13.874%
5	13.469	939	947	955	rBV	1538186	4716023	100.00%	17.669%
6	16.100	1206	1214	1223	rBV	1365072	4318404	91.57%	16.179%
7	18.347	1433	1442	1454	rBV	1047634	3419708	72.51%	12.812%
8	19.185	1523	1527	1534	rVB7	17907	60355	1.28%	0.226%
9	20.693	1672	1680	1693	rBV	1404145	4219746	89.48%	15.810%

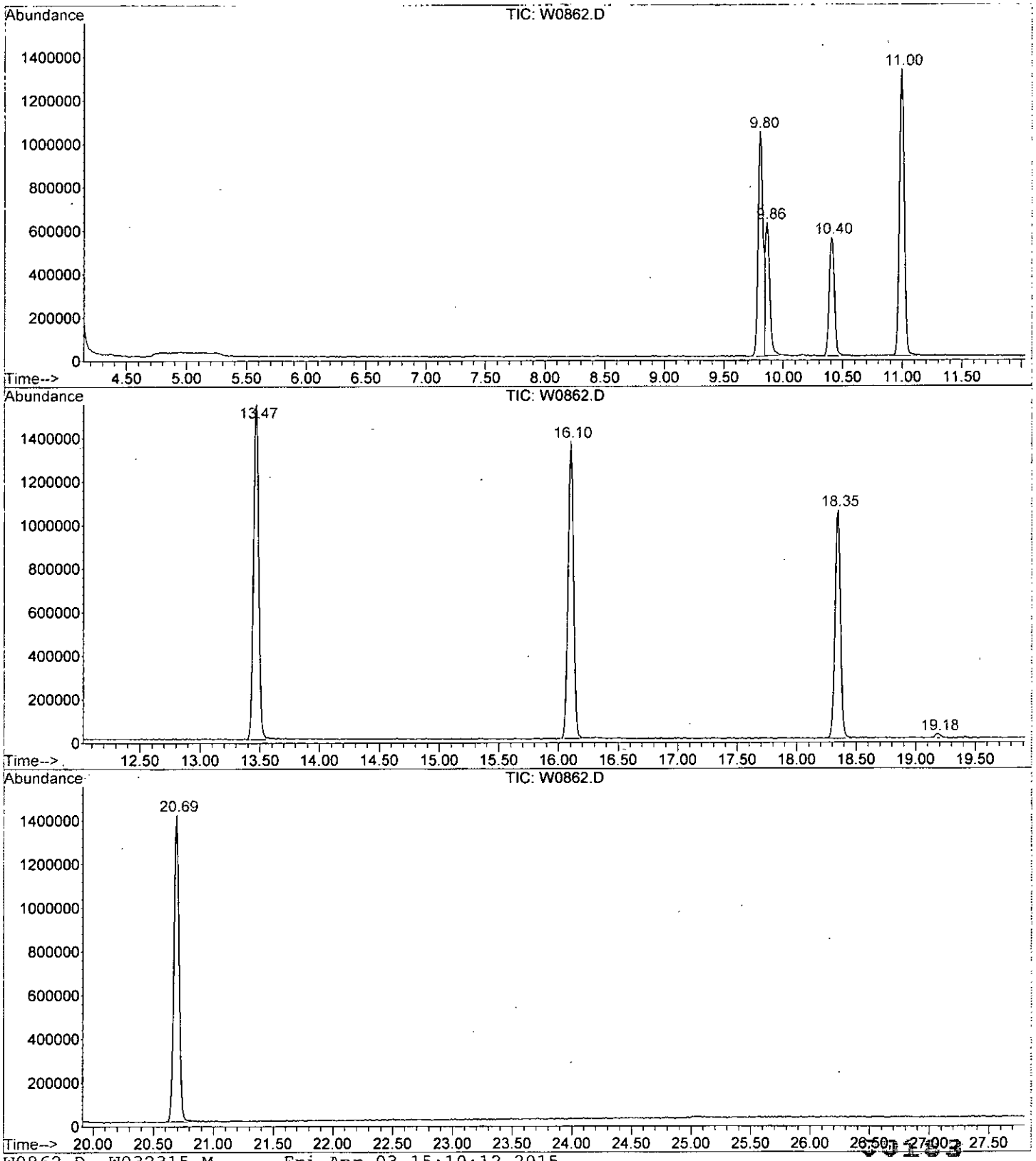
Sum of corrected areas: 26690781

W0862.D W032315.M Fri Apr 03 15:10:09 2015

00182

LSC Report - Integrated Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D
Operator    : K.Ruest
Acquired    :  2 Apr 2015   9:58 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-008|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 21
Quant File :W032315.RES (RTE Integrator)
```



W0862.D W032315.M Fri Apr 03 15:10:12 2015

Operator ID: K.Ruest Date Acquired: 2 Apr 2015 9:58 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040215\W0862.D
Name: R1502204-008|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0862.D W032315.M Fri Apr 03 15:10:12 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1200
Date Received: 3/31/15
Date Analyzed: 4/3/15 15:18

Sample Name: FTMM-53-699MW106-10.2
Lab Code: R1502204-009

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	1.6	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1200
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 15:18
Sample Name:	FTMM-53-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1502204-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	4/3/15 15:18	
Dibromofluoromethane	110	85-115	4/3/15 15:18	
Toluene-d8	106	85-120	4/3/15 15:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1518

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

Sample Name:	FTMM-53-699MW106-10.2	**Units:**	µg/L
Lab Code:	R1502204-009	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D Vial: 11
Acq On : 3 Apr 2015 3:18 pm Operator: K.Ruest
Sample : R1502204-009|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:20 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	975614	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.98	114	1513002	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1369680	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	682586	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	536475	55.08	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.16%			
48) surr1,1,2-Diclethane	10.39	65	562871	57.32	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.64%			
70) surr3,Toluene-d8	13.46	98	1574340	52.94	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.88%			
71) surr2,bfb	18.34	95	701123	54.22	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.44%			
Target Compounds						Qvalue
15) Acetone	6.84	43	5889	1.61	ppb	84

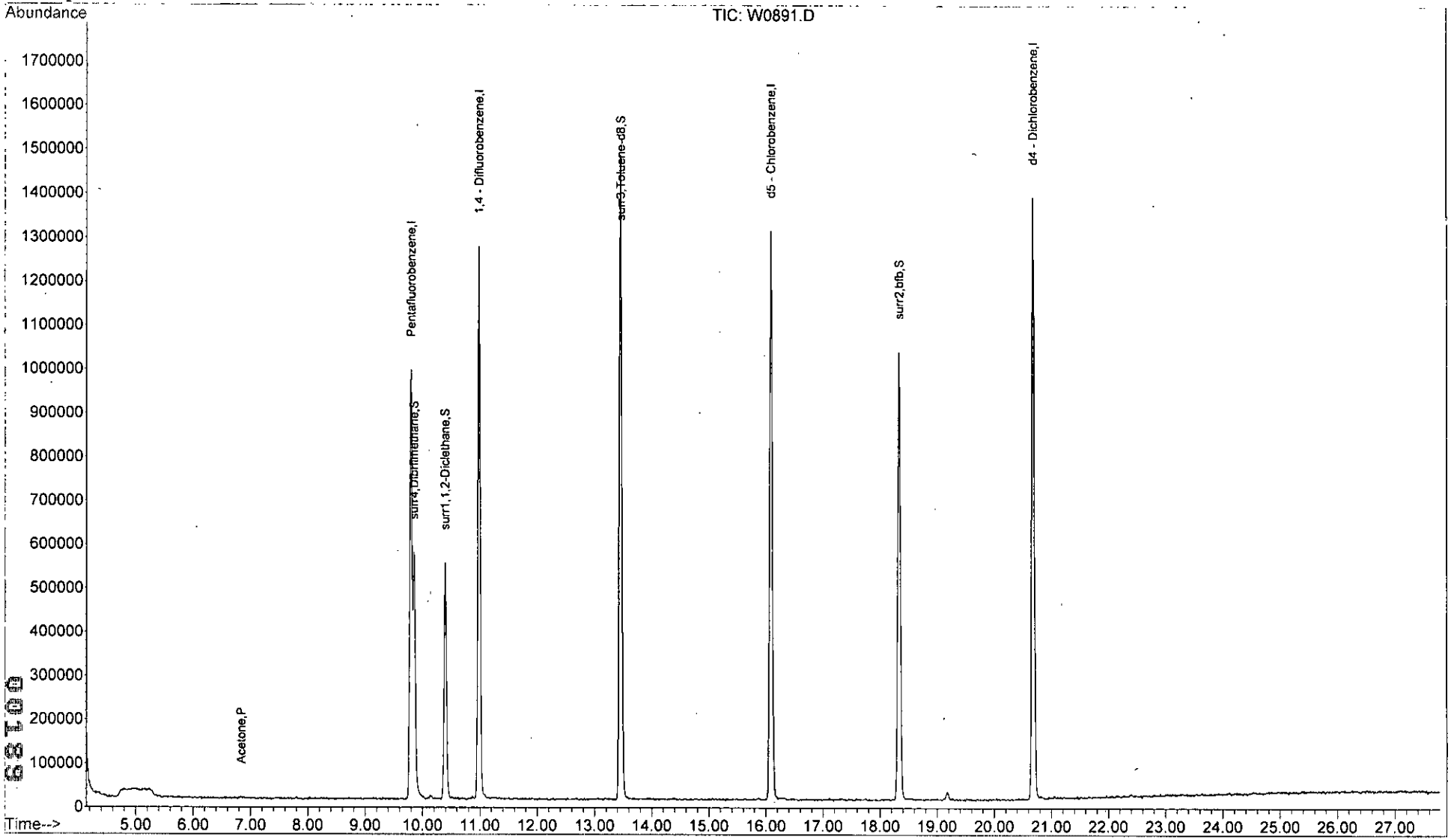
KR 4/7/15

(#) = qualifier out of range (m) = manual integration
W0891.D W032315.M Tue Apr 07 17:21:51 2015

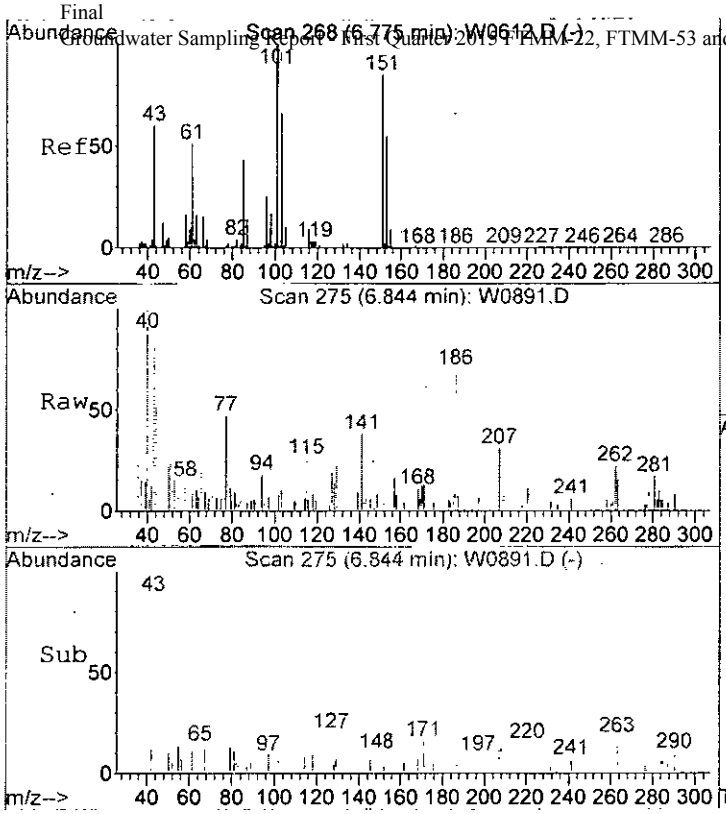
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D Vial: 11
Acq On : 3 Apr 2015 3:18 pm Operator: K.Ruest
Sample : R1502204-009|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:20 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



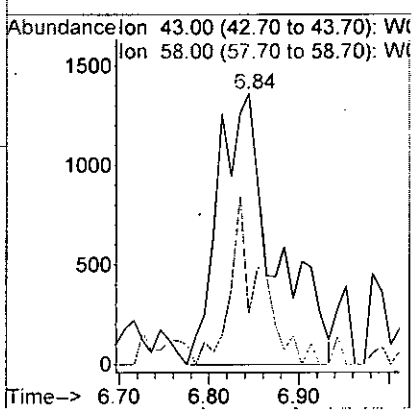
W0891.D W032315.M Tue Apr 07 17:21:53 2015



#15
Acetone
Concen: 1.61 ppb
RT: 6.84 min Scan# 275
Delta R.T. 0.07 min
Lab File: W0891.D
Acq: 3 Apr 2015 3:18 pm

Tgt Ion: 43 Resp: 5889

Ion	Ratio	Lower	Upper
43	100		
58	18.7	7.2	47.2



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D Vial: 11
Acq On : 3 Apr 2015 3:18 pm Operator: K.Ruest
Sample : R1502204-009|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

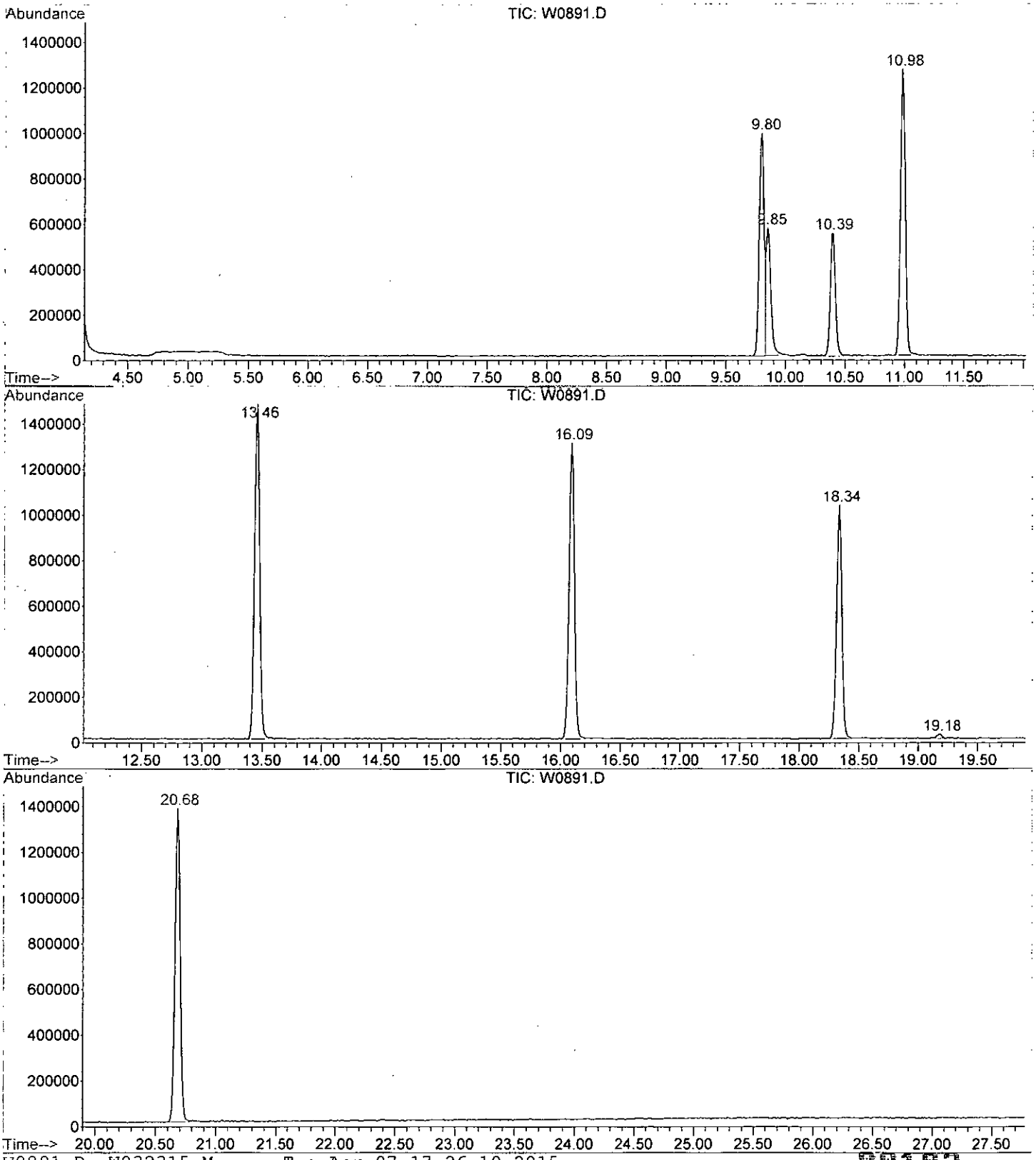
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.801	567	575	578	rBV	980776	2862450	65.66%	11.298%
2	9.850	578	580	596	rVB	561335	1502328	34.46%	5.930%
3	10.392	628	635	645	rBV	542351	1591970	36.52%	6.283%
4	10.983	689	695	705	rBV	1257876	3488422	80.02%	13.768%
5	13.457	938	946	956	rBV	1471058	4359180	100.00%	17.205%
6	16.088	1204	1213	1225	rBV	1298324	4116103	94.42%	16.246%
7	18.335	1432	1441	1452	rBV	1023461	3253223	74.63%	12.840%
8	19.183	1521	1527	1531	rVB5	17386	51699	1.19%	0.204%
9	20.681	1672	1679	1691	rBV	1372394	4110941	94.31%	16.225%

Sum of corrected areas: 25336316

W0891.D W032315.M Tue Apr 07 17:26:08 2015

LSC Report - Integrated Chromatogram

File : I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D
Operator : K.Ruest
Acquired : 3 Apr 2015 3:18 pm using AcqMethod W032315
Instrument : MS #7
Sample Name: R1502204-009|1.0
Misc Info : PARSONS 11603 T4 *DOD*
Vial Number: 11
Quant File :W032315.RES (RTE Integrator)



W0891.D W032315.M Tue Apr 07 17:26:10 2015

Tentatively Identified Compound (TIC) summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 3:18 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0891.D
Name: R1502204-009|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0891.D W032315.M Tue Apr 07 17:26:10 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1035
Date Received: 3/31/15
Date Analyzed: 4/3/15 15:53

Sample Name: FTMM-53-699MW04-8.0
Lab Code: R1502204-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	**J**	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1035
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 15:53
Sample Name:	FTMM-53-699MW04-8.0	**Units:**	µg/L
Lab Code:	R1502204-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/3/15 15:53	
Dibromofluoromethane	109	85-115	4/3/15 15:53	
Toluene-d8	108	85-120	4/3/15 15:53	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1553

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

Sample Name: FTMM-53-699MW04-8.0
Lab Code: R1502204-010

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D Vial: 12
Acq On : 3 Apr 2015 3:53 pm Operator: K.Ruest
Sample : R1502204-010|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:23 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	963713	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.99	114	1475905	50.00	ppb	0.07
64) d5 - Chlorobenzene	16.10	117	1335861	50.00	ppb	0.08
90) d4 - Dichlorobenzene	20.68	152	667315	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	518438	54.56	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.12%			
48) surr1,1,2-Diclethane	10.40	65	559774	58.44	ppb	0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 116.88%			
70) surr3,Toluene-d8	13.46	98	1571371	54.18	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.36%			
71) surr2,bfb	18.34	95	694796	55.09	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.18%			
Target Compounds						Qvalue
15) Acetone	6.83	43	7657	2.12	ppb	97

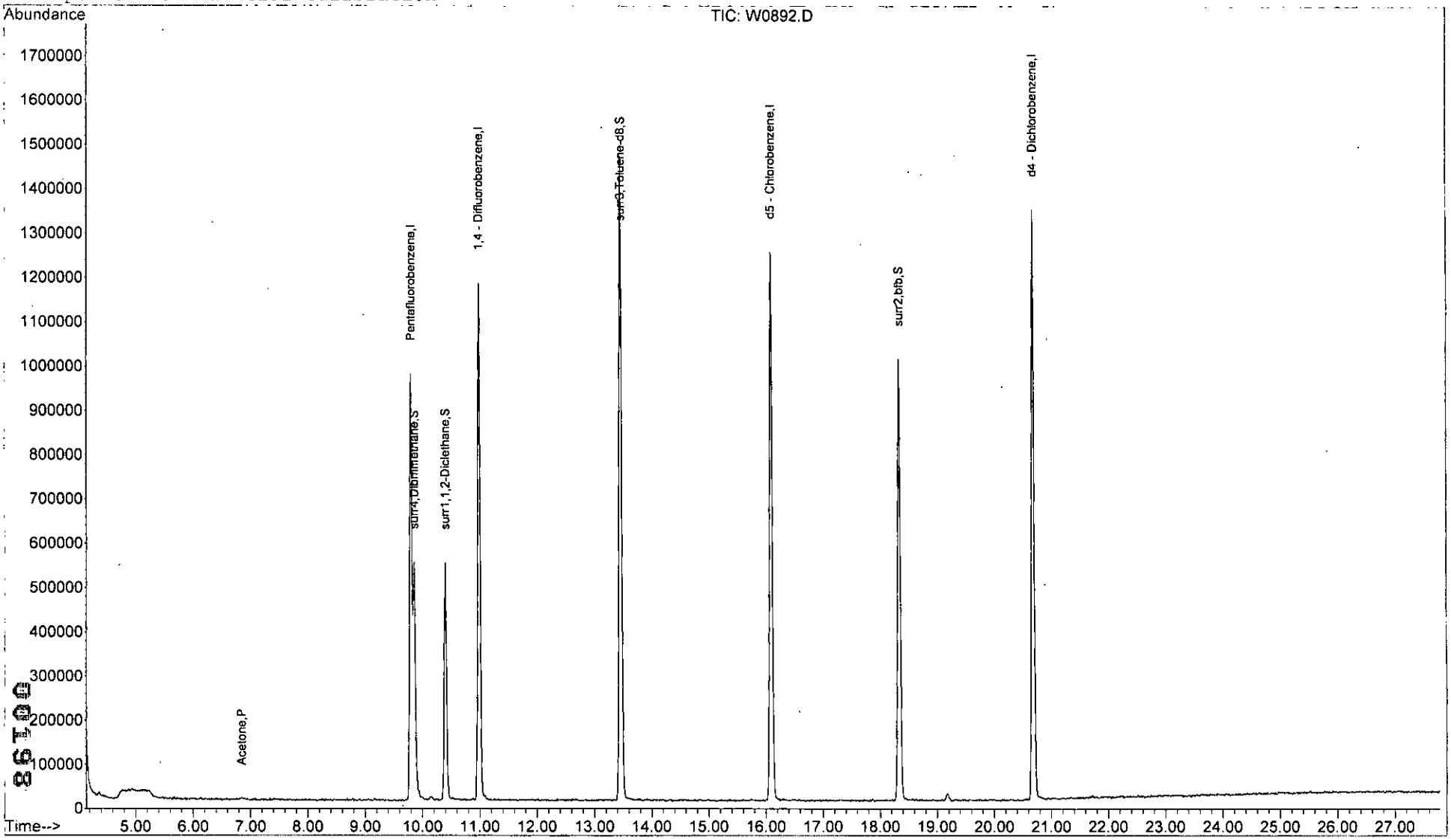
KK 4/7/15

(#) = qualifier out of range (m) = manual integration
W0892.D W032315.M Tue Apr 07 17:24:31 2015

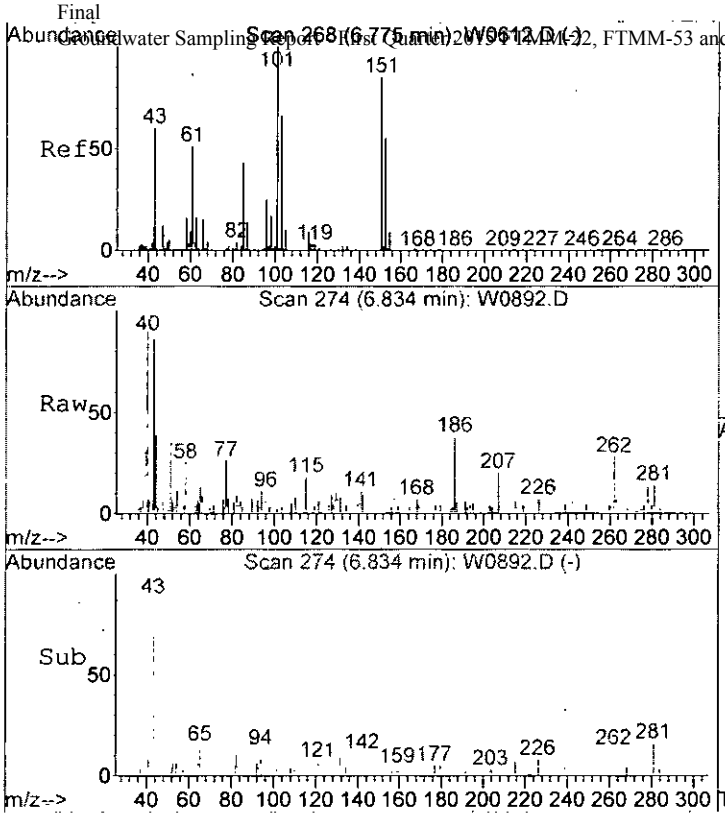
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D Vial: 12
Acq On : 3 Apr 2015 3:53 pm Operator: K.Ruest
Sample : R1502204-010|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:23 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



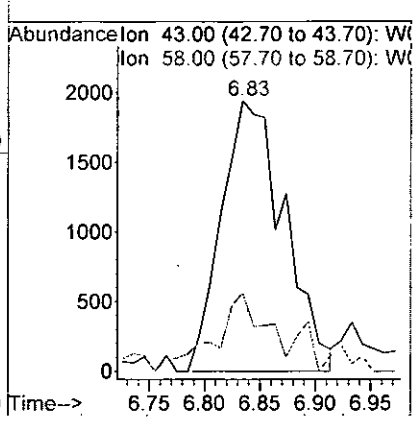
W0892.D W032315.M Tue Apr 07 17:24:33 2015 Page 2



#15
Acetone
Concen: 2.12 ppb
RT: 6.83 min Scan# 274
Delta R.T. 0.06 min
Lab File: W0892.D
Acq: 3 Apr 2015 3:53 pm

Tgt Ion: 43 Resp: 7657

Ion	Ratio	Lower	Upper
43	100		
58	29.0	7.2	47.2



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D Vial: 12
Acq On : 3 Apr 2015 3:53 pm Operator: K.Ruest
Sample : R1502204-010|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

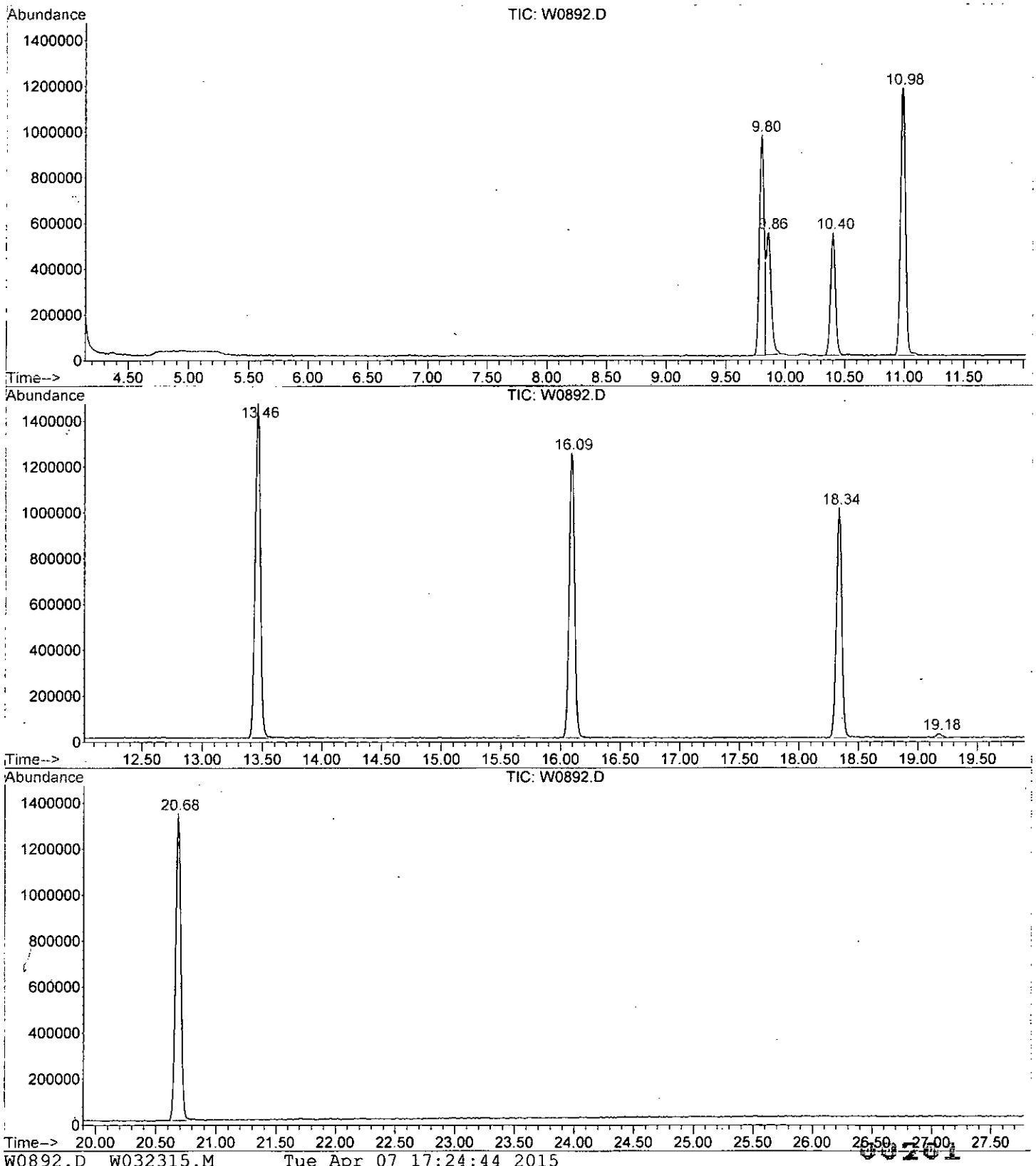
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.801	569	575	578	rBV	963378	2726646	62.30%	10.963%
2	9.860	578	581	592	rVB	534387	1487493	33.99%	5.981%
3	10.402	629	636	646	rBV	535983	1512831	34.57%	6.083%
4	10.983	688	695	713	rVB	1168290	3438962	78.58%	13.827%
5	13.457	937	946	960	rBV	1457419	4376303	100.00%	17.596%
6	16.088	1206	1213	1227	rBV	1240456	4003303	91.48%	16.096%
7	18.335	1433	1441	1451	rBV	1000803	3227981	73.76%	12.979%
8	19.183	1519	1527	1534	rVB7	19128	69075	1.58%	0.278%
9	20.681	1672	1679	1691	rBV	1335397	4029113	92.07%	16.200%

Sum of corrected areas: 24871707

W0892.D W032315.M Tue Apr 07 17:24:42 2015

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   3:53 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-010|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 12
Quant File :W032315.RES (RTE Integrator)
```



W0892.D W032315.M Tue Apr 07 17:24:44 2015

Tentatively Identified Compound (TIC) summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 3:53 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0892.D
Name: R1502204-010|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0892.D W032315.M Tue Apr 07 17:24:44 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1040
Date Received: 3/31/15
Date Analyzed: 4/3/15 16:29

Sample Name: FTMM-53-699RW11-8.3
Lab Code: R1502204-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
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	7.1		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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1040
Date Received: 3/31/15
Date Analyzed: 4/3/15 16:29

Sample Name: FTMM-53-699RW11-8.3
Lab Code: R1502204-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	**0.30**	J	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**6.1**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	**0.96**	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	**0.55**	J	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**4.4**	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	**0.89**	J	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**0.37**	J	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/3/15 16:29	
Dibromofluoromethane	109	85-115	4/3/15 16:29	
Toluene-d8	108	85-120	4/3/15 16:29	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1629

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

Sample Name: FTMM-53-699RW11-8.3
Lab Code: R1502204-011

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q
000078-78-4	Butane, 2-methyl-	5.83	**15.6**	JN
	unknown	6.88	**6.0**	J
000079-29-8	Butane, 2,3-dimethyl-	7.50	**27.2**	JN
000096-14-0	Pentane, 3-methyl-	7.86	**16.4**	JN
000096-37-7	Cyclopentane, methyl-	9.16	**20.3**	JN
000565-59-3	Pentane, 2,3-dimethyl-	10.09	**10.7**	JN
	unknown	10.15	**6.7**	J
	unknown	10.61	**5.6**	J
000591-48-0	Cyclohexene, 3-methyl-	12.45	**5.1**	JN
	unknown	21.20	**12.9**	J
000768-00-3	Benzene, (1-methyl-1-propenyl)-, (E)-	22.09	**6.2**	JN
	unknown	22.23	**16.0**	J
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	22.70	**6.4**	JN
027133-93-3	2,3-Dihydro-1-methylindene	23.39	**12.3**	JN
000767-58-8	Indan, 1-methyl-	23.72	**27.6**	JN

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:16 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.81	168	952465	50.00	ppb		0.06
42) 1,4 - Difluorobenzene	10.99	114	1469590	50.00	ppb		0.06
64) d5 - Chlorobenzene	16.09	117	1348571	50.00	ppb		0.07
90) d4 - Dichlorobenzene	20.69	152	662804	50.00	ppb		0.07
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.85	113	517424	54.69	ppb		0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.38%				
48) surr1,1,2-Diclethane	10.40	65	536113	56.21	ppb		0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 112.42%				
70) surr3,Toluene-d8	13.46	98	1576804	53.85	ppb		0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.70%				
71) surr2,bfb	18.34	95	684015	53.72	ppb		0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.44%				
Target Compounds							Qvalue
49) Benzene	10.55	78	271611	7.13	ppb		96
82) Ethylbenzene	16.30	91	12129	0.30	ppb		86
83) (m+p)Xylene	16.50	106	8241	0.55	ppb	#	79
88) Isopropylbenzene	18.00	105	228440	6.08	ppb		97
94) n-Propylbenzene	18.81	91	204322	4.43	ppb		98
100) tert-Butylbenzene	19.84	119	9788	0.37	ppb	#	74
103) sec-Butylbenzene	20.29	105	33350	0.89	ppb		99
118) Naphthalen	25.03	128	21612	0.96	ppb		89

KF 4/6/15

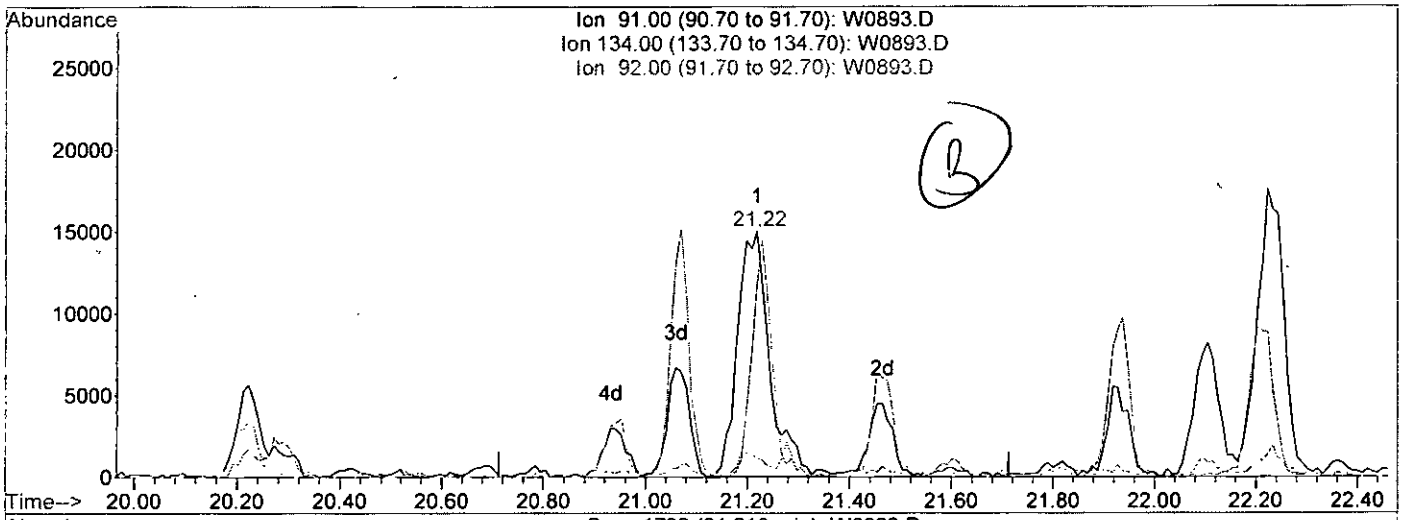
(#) = qualifier out of range (m) = manual integration
W0893.D W032315.M Wed Apr 08 15:18:40 2015

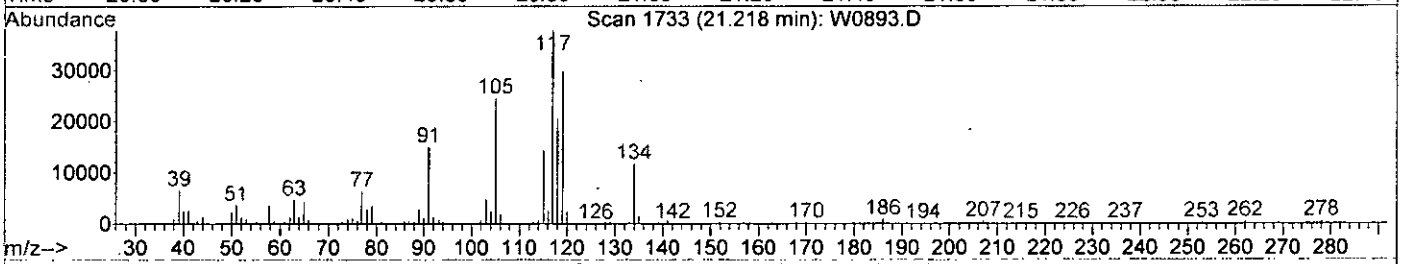
00206

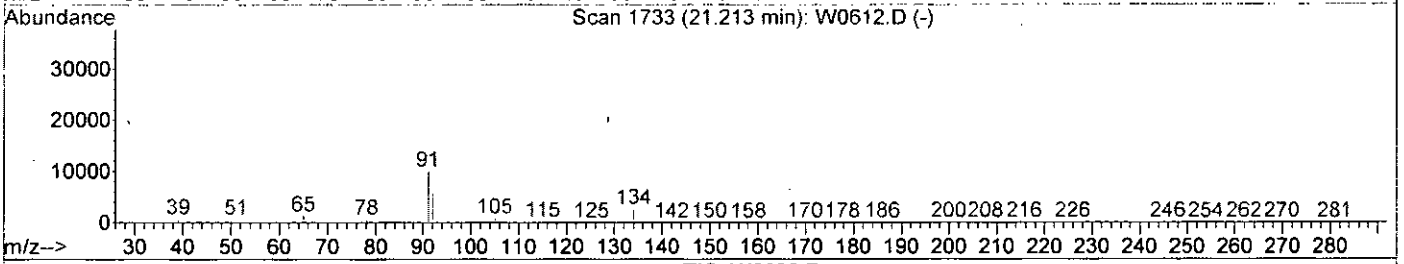
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:15 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0893.D

(109) n-Butylbenzene

21.22min 2.25ppb

response 65533

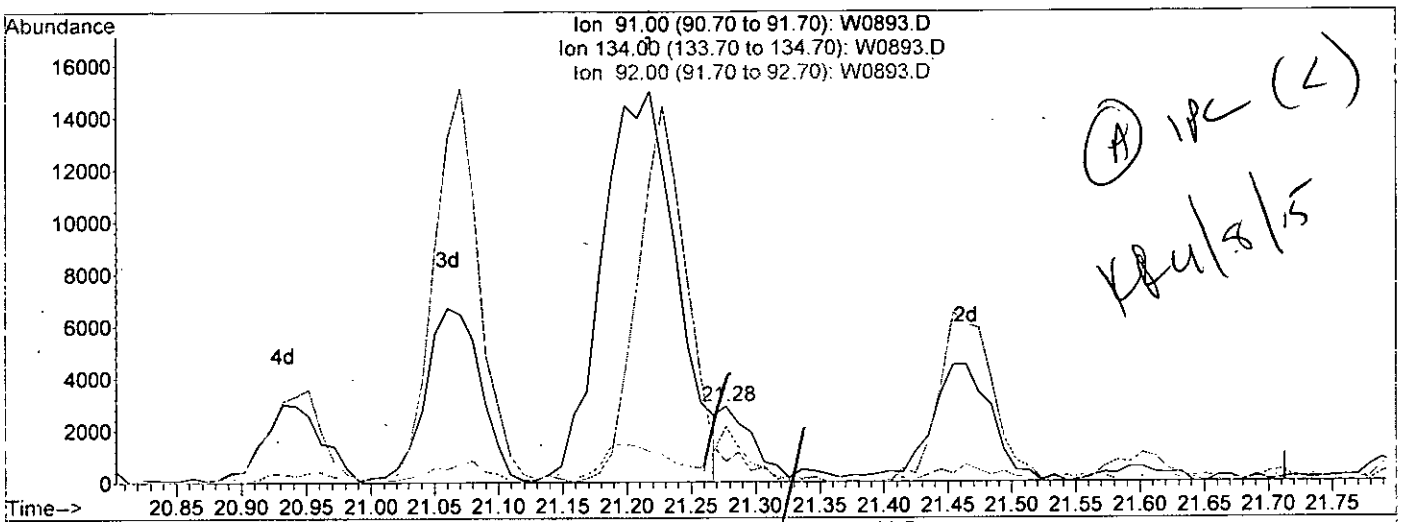
Ion	Exp%	Act%
91.00	100	100
134.00	26.30	77.56#
92.00	60.50	7.86#
0.00	0.00	0.00

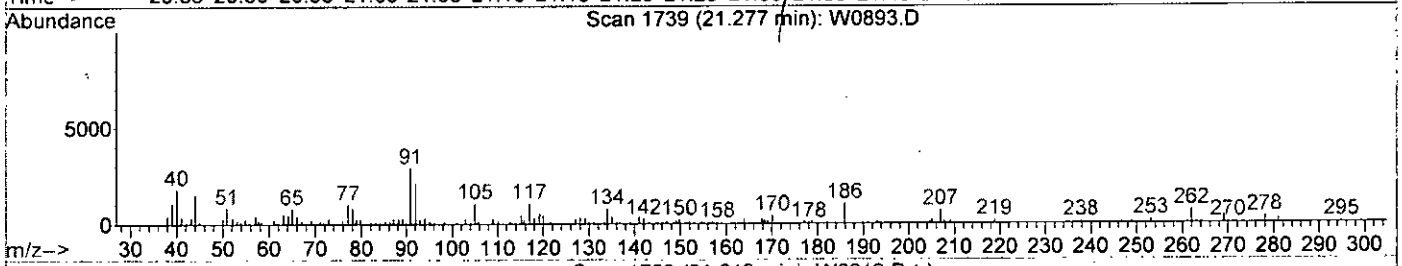
W0893.D W032315.M Wed Apr 08 15:16:16 2015

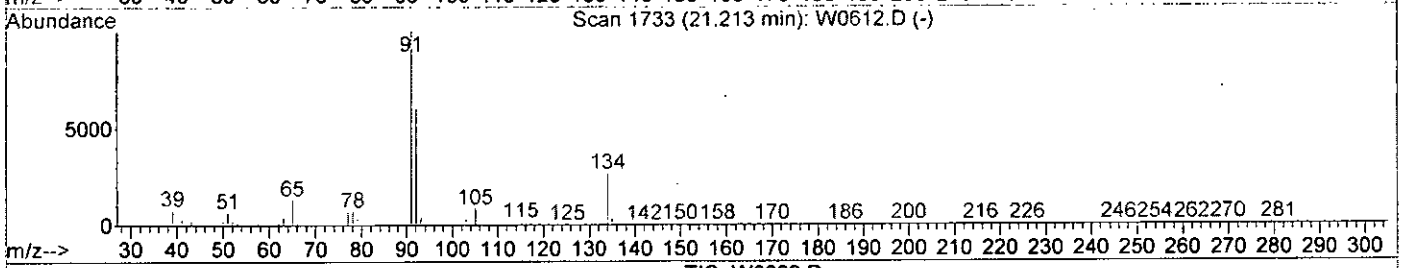
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:16 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0893.D

(109) n-Butylbenzene

21.28min 0.18ppb m

response 5093

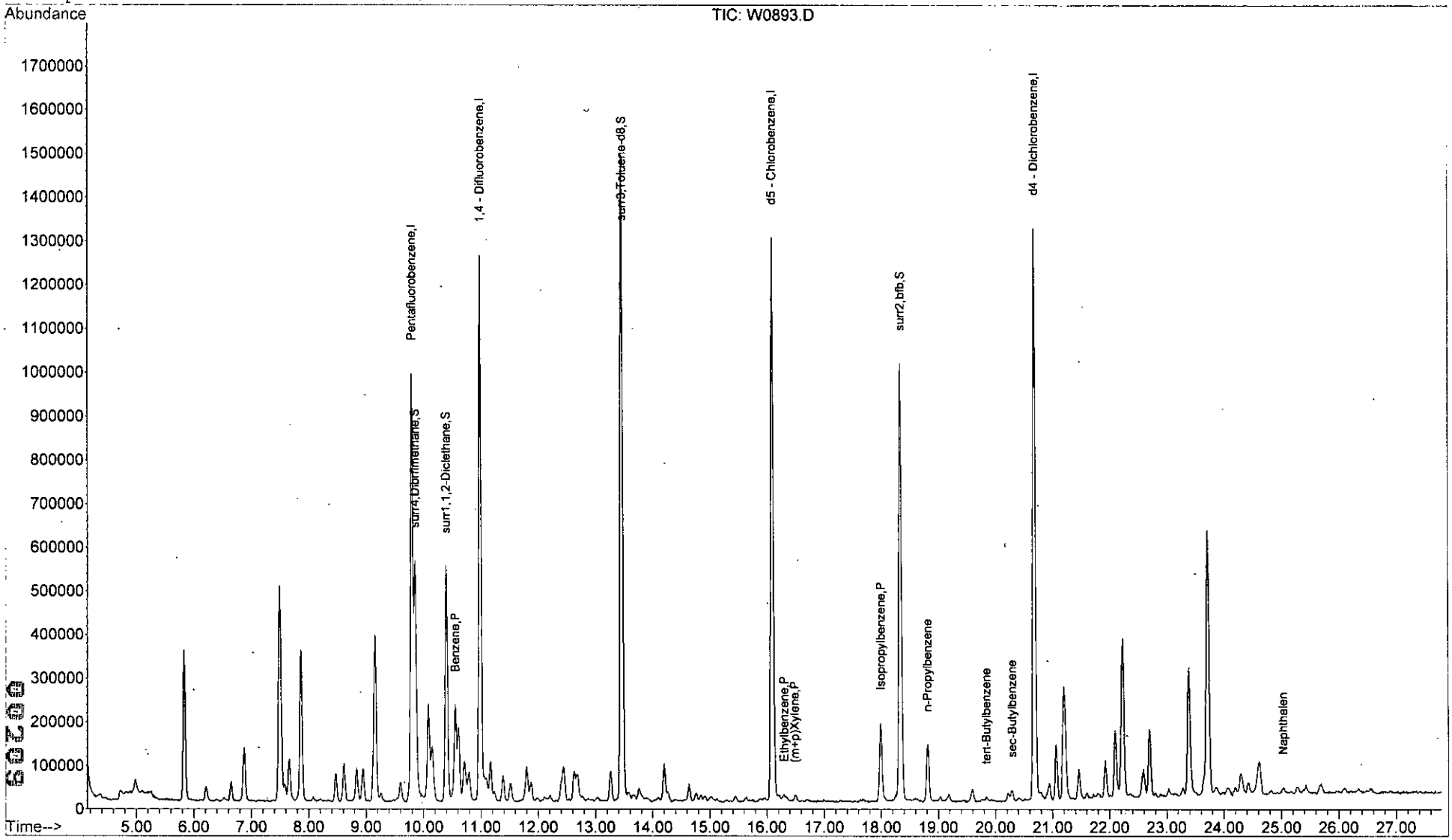
Ion	Exp%	Act%
91.00	100	100
134.00	26.30	26.66
92.00	60.50	73.00
0.00	0.00	0.00

W0893.D W032315.M Wed Apr 08 15:16:34 2015

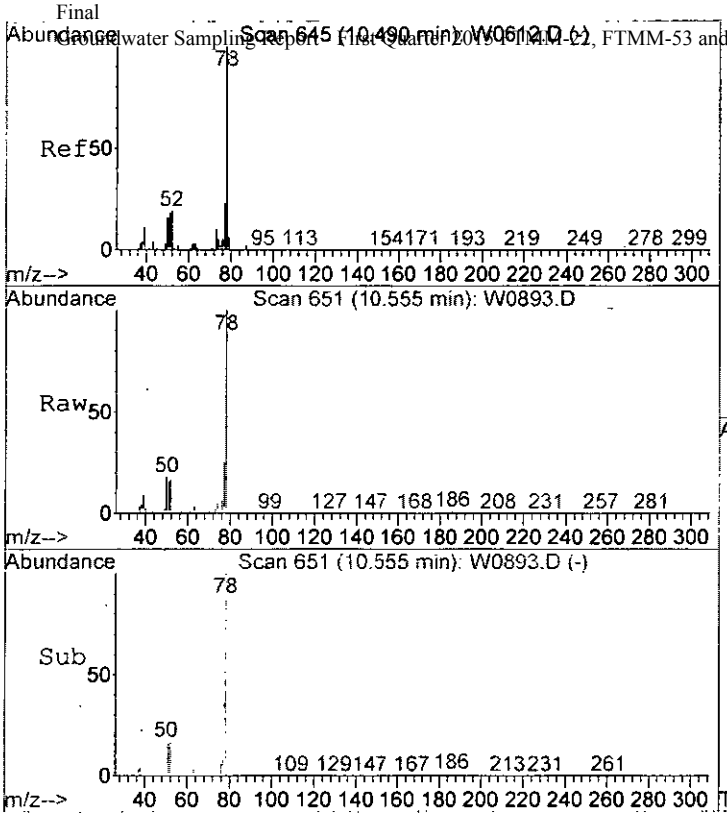
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:16 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



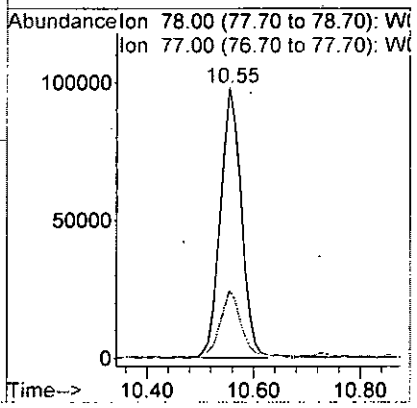
W0893.D W032315.M Wed Apr 08 15:18:42 2015

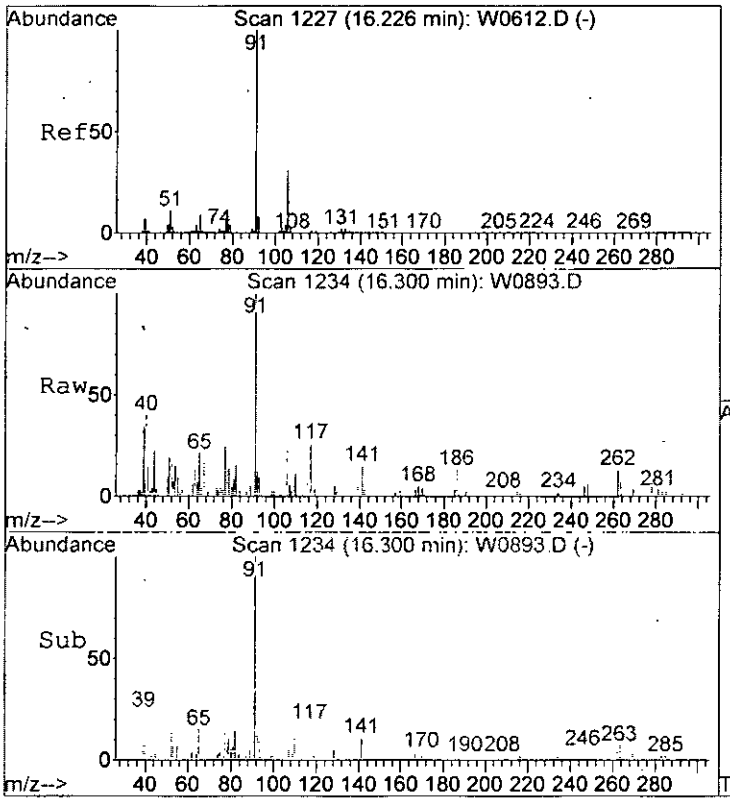


#40
Benzene
Concen: 7.13 ppb
RT: 10.55 min Scan# 651
Delta R.T. 0.06 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion: 78 Resp: 271611

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.2	43.2

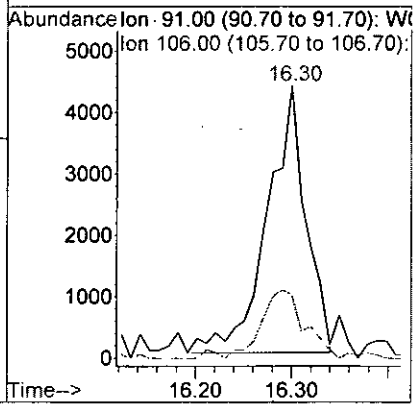


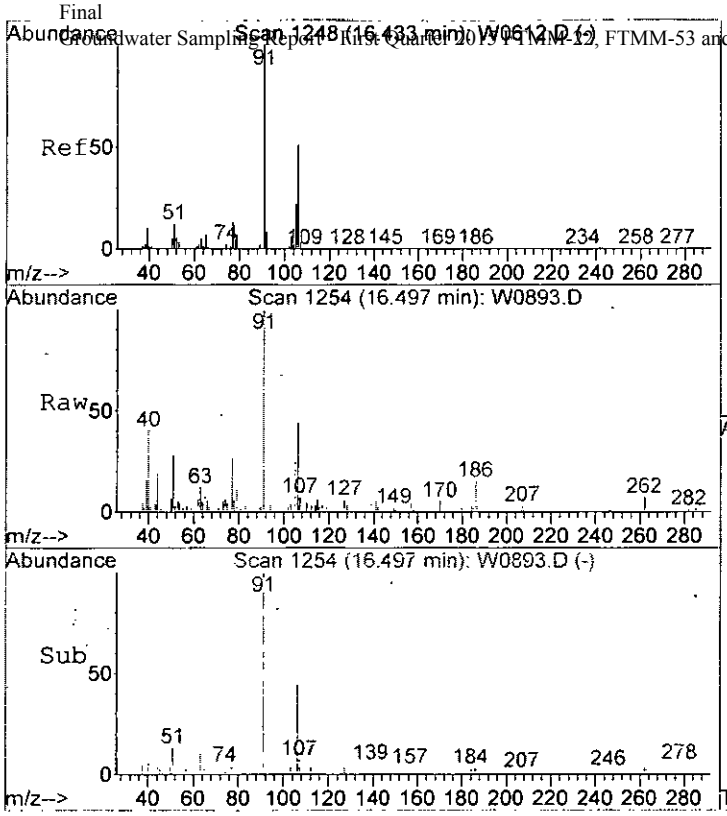


#82
Ethylbenzene
Concen: 0.30 ppb
RT: 16.30 min Scan# 1234
Delta R.T. 0.07 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion: 91 Resp: 12129

Ion	Ratio	Lower	Upper
91	100		
106	23.3	11.2	51.2

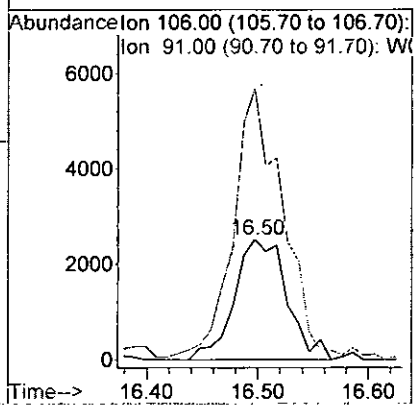


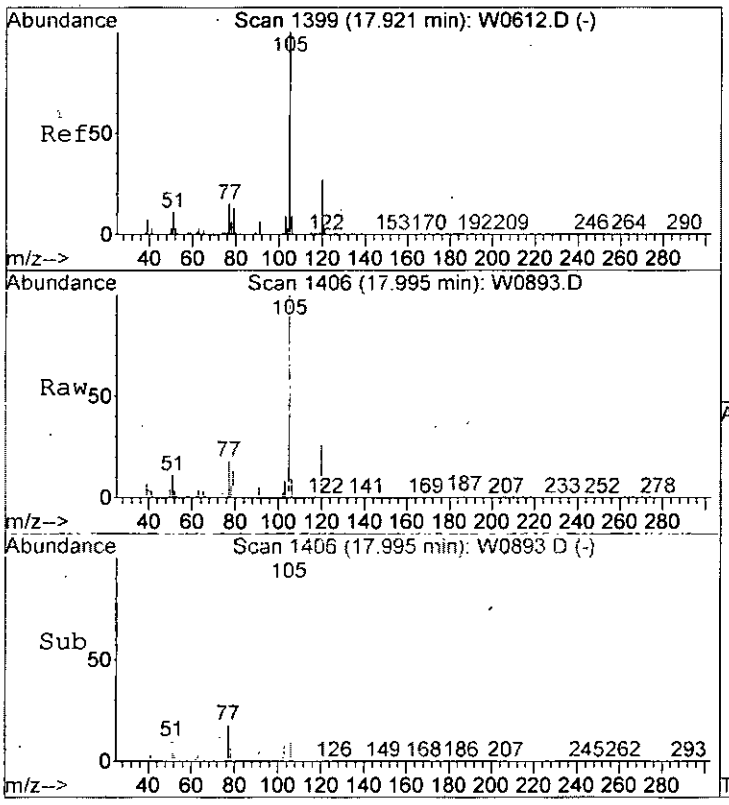


#83
(m+p)Xylene
Concen: 0.55 ppb
RT: 16.50 min Scan# 1254
Delta R.T. 0.06 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion:106 Resp: 8241

Ion	Ratio	Lower	Upper
106	100		
91	225.8	175.2	215.2#

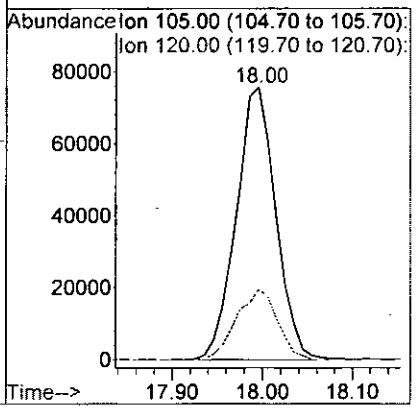


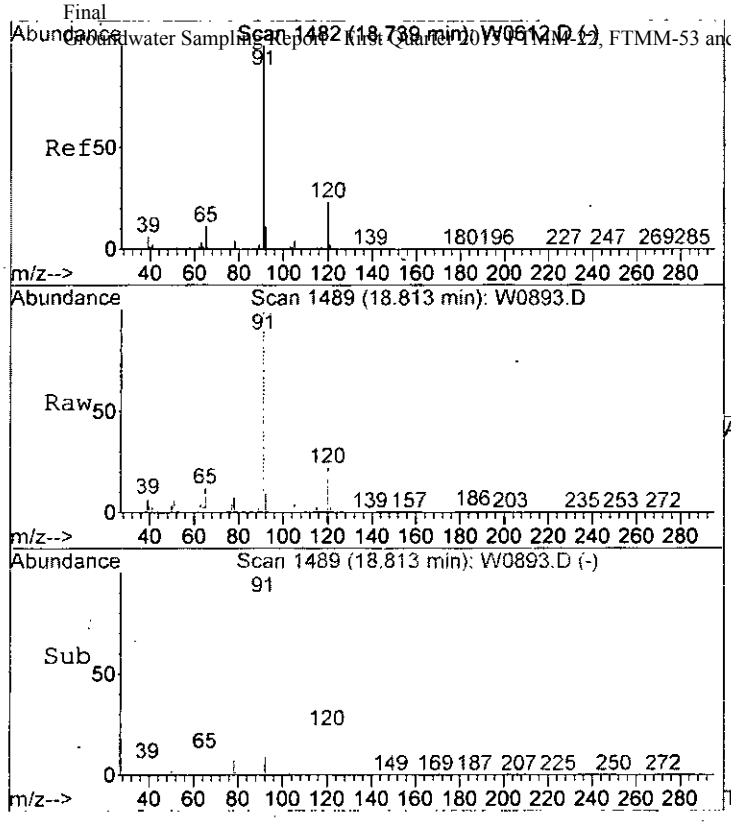


#88
Isopropylbenzene
Concen: 6.08 ppb
RT: 18.00 min Scan# 1406
Delta R.T. 0.07 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion:105 Resp: 228440

Ion	Ratio	Lower	Upper
105	100		
120	25.7	7.3	47.3

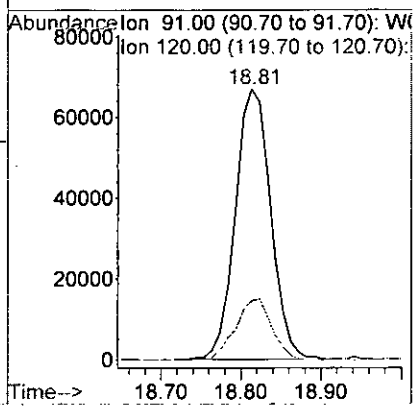


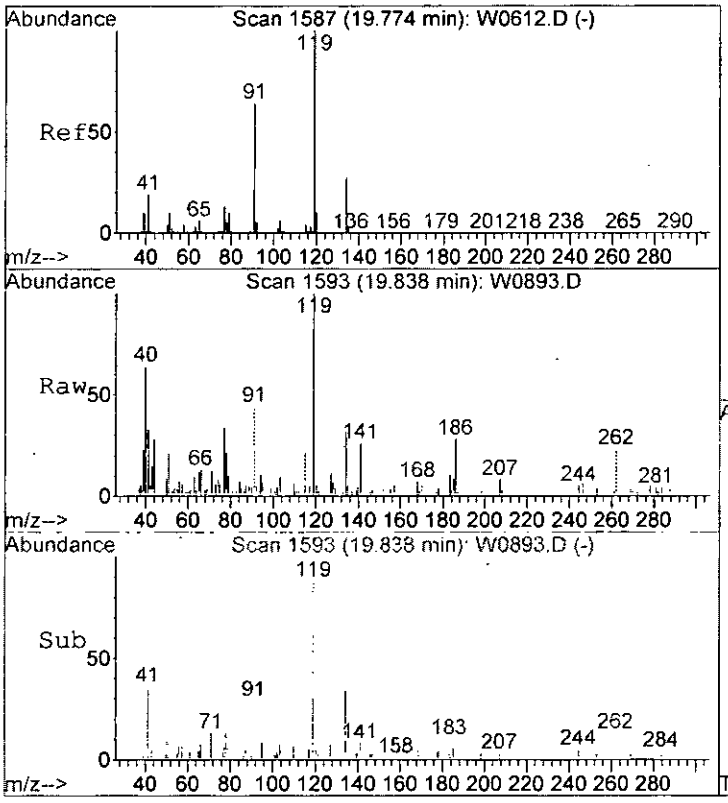


#94
n-Propylbenzene
Concen: 4.43 ppb
RT: 18.81 min Scan# 1489
Delta R.T. 0.07 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion: 91 Resp: 204322

Ion	Ratio	Lower	Upper
91	100		
120	21.7	2.8	42.8

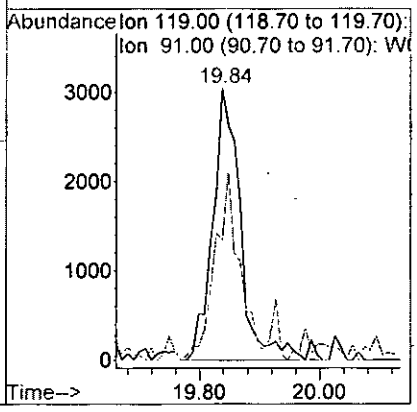


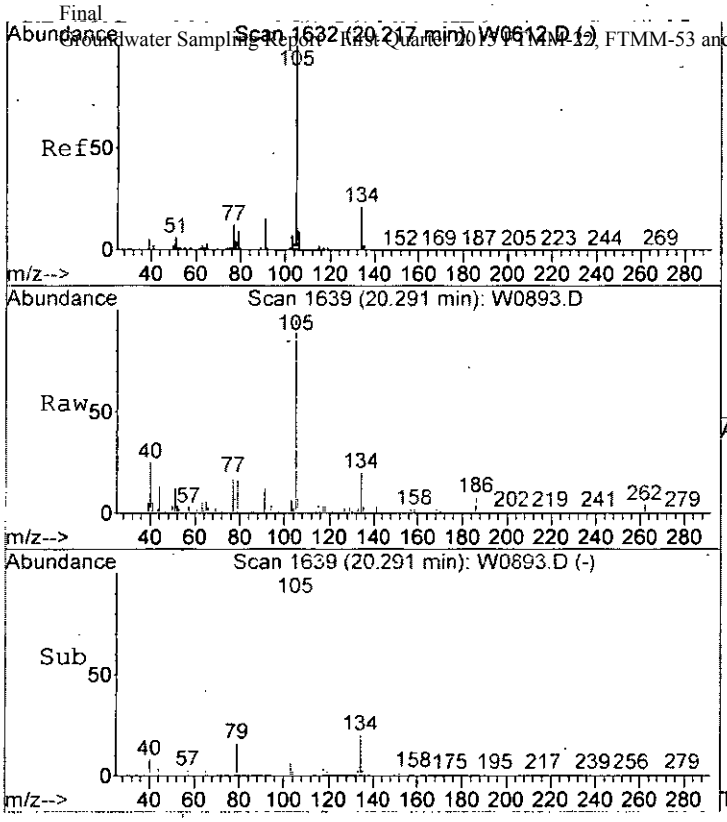


#100
tert-Butylbenzene
Concen: 0.37 ppb
RT: 19.84 min Scan# 1593
Delta R.T. 0.06 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion:119 Resp: 9788

Ion	Ratio	Lower	Upper
119	100		
91	43.9	44.2	84.2#

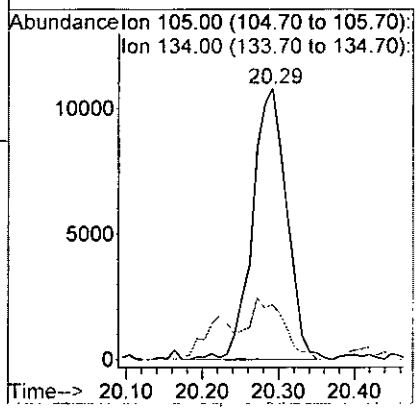


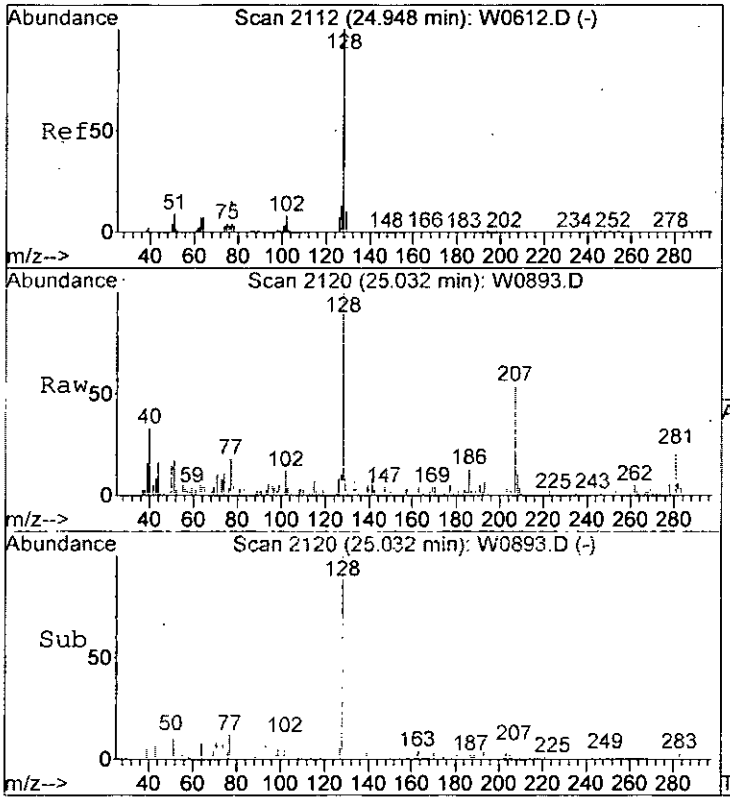


#103
sec-Butylbenzene
Concen: 0.89 ppb
RT: 20.29 min Scan# 1639
Delta R.T. 0.07 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion:105 Resp: 33350

Ion	Ratio	Lower	Upper
105	100		
134	20.1	0.8	40.8

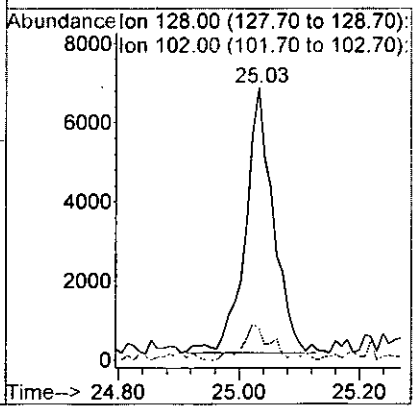




#118
Naphthalen
Concen: 0.96 ppb
RT: 25.03 min Scan# 2120
Delta R.T. 0.08 min
Lab File: W0893.D
Acq: 3 Apr 2015 4:29 pm

Tgt Ion:128 Resp: 21612

Ion	Ratio	Lower	Upper
128	100		
102	11.8	0.0	27.8



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.720	54	59	65	rBV5	21725	92241	2.11%	0.197%
2	4.986	79	86	93	rBV	34294	123519	2.82%	0.263%
3	5.834	164	172	181	rBV	345046	941265	21.52%	2.008%
4	6.218	205	211	219	rVB2	32910	98061	2.24%	0.209%
5	6.652	250	255	261	rVB	44830	111162	2.54%	0.237%
6	6.879	271	278	288	rVB	122707	361059	8.25%	0.770%
7	7.499	334	341	348	rBV	492533	1639397	37.48%	3.497%
8	7.578	348	349	353	rVV2	36683	79603	1.82%	0.170%
9	7.667	353	358	368	rVB	94706	279646	6.39%	0.597%
10	7.864	368	378	386	rBV	345418	990055	22.63%	2.112%
11	8.475	434	440	446	rVB	64874	181737	4.15%	0.388%
12	8.613	446	454	461	rBV2	87905	258274	5.90%	0.551%
13	8.840	471	477	482	rBV3	72808	200204	4.58%	0.427%
14	8.948	482	488	494	rVB	74627	207889	4.75%	0.443%
15	9.155	499	509	516	rBV	381770	1223034	27.96%	2.609%
16	9.263	517	520	526	rVB3	18127	49992	1.14%	0.107%
17	9.599	550	554	561	rVB3	43977	128258	2.93%	0.274%
18	9.796	565	574	578	rBV	982159	3015733	68.94%	6.433%
19	9.855	578	580	590	rVB	541873	1409038	32.21%	3.006%
20	10.091	597	604	607	rBV	213481	643890	14.72%	1.374%
21	10.150	607	610	622	rVB3	125352	404193	9.24%	0.862%
22	10.397	627	635	644	rBV	540716	1627050	37.20%	3.471%
23	10.555	644	651	654	rBV	210680	617642	14.12%	1.318%
24	10.614	654	657	662	rVB2	152247	394260	9.01%	0.841%
25	10.712	662	667	672	rBV5	76016	254747	5.82%	0.543%
26	10.791	672	675	684	rVB3	64959	190450	4.35%	0.406%
27	10.988	688	695	702	rBV	1246145	3517600	80.42%	7.504%
28	11.166	709	713	718	rVV3	76006	205594	4.70%	0.439%
29	11.382	730	735	742	rBV2	59088	169269	3.87%	0.361%
30	11.520	743	749	756	rVB	40931	133845	3.06%	0.286%
31	11.796	770	777	781	rBV2	77224	246267	5.63%	0.525%
32	11.875	781	785	792	rVB4	42587	123469	2.82%	0.263%
33	12.447	832	843	848	rBV5	80661	356956	8.16%	0.761%
34	12.624	854	861	864	rBV3	67248	215796	4.93%	0.460%
35	13.265	920	926	932	rBV2	68557	200014	4.57%	0.427%
36	13.462	938	946	955	rBV	1472414	4374204	100.00%	9.331%
37	13.757	971	976	986	rBV5	25182	94761	2.17%	0.202%
38	14.201	1014	1021	1026	rVV	86316	268468	6.14%	0.573%
39	14.260	1026	1027	1034	rVB4	23732	52081	1.19%	0.111%

00214

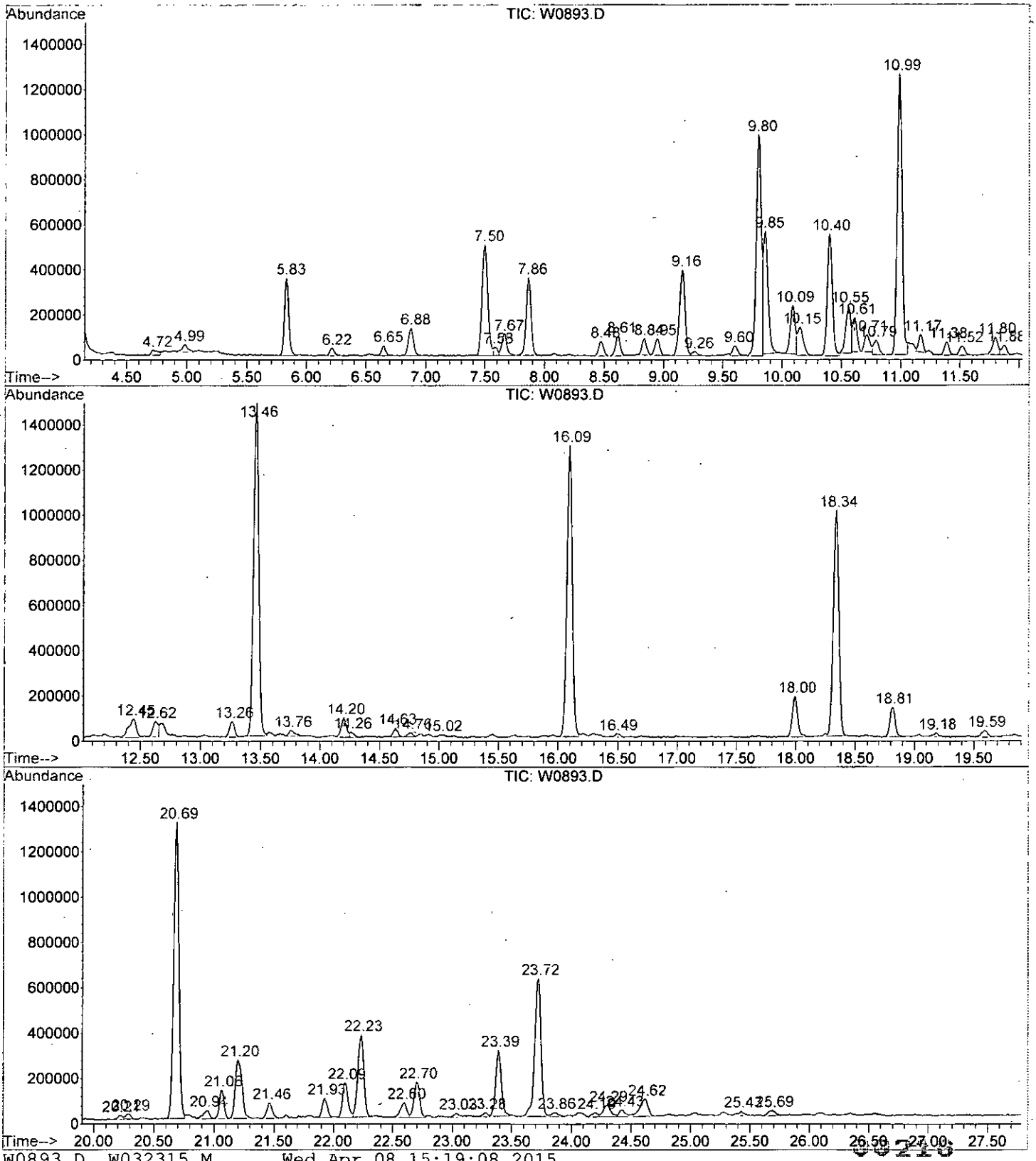
40	14.685	1060	1065	1071	rVB	39518	100928	2.31%	0.215%
41	14.763	1071	1078	1082	rBV2	18520	57560	1.32%	0.123%
42	15.019	1097	1104	1112	rBV2	10627	45957	1.05%	0.098%
43	16.093	1204	1213	1221	rBV	1289234	4031811	92.17%	8.600%
44	16.487	1249	1253	1261	rVB3	14606	47727	1.09%	0.102%
45	17.995	1398	1406	1419	rBV	180693	578650	13.23%	1.234%
46	18.340	1433	1441	1449	rVB	997240	3158494	72.21%	6.738%
47	18.813	1483	1489	1498	rBV	130348	412488	9.43%	0.880%
48	19.178	1519	1526	1529	rBV7	15640	45862	1.05%	0.098%
49	19.592	1559	1568	1575	rBV	30128	116419	2.66%	0.248%
50	20.213	1625	1631	1635	rBV5	17956	57276	1.31%	0.122%
51	20.291	1635	1639	1644	rVB2	23353	67330	1.54%	0.144%
52	20.686	1671	1679	1686	rBV	1307645	3950256	90.31%	8.426%
53	20.942	1696	1705	1711	rVB3	37768	138292	3.16%	0.295%
54	21.060	1711	1717	1724	rBV	126835	349034	7.98%	0.745%
55	21.198	1724	1731	1744	rVV3	258038	1015167	23.21%	2.166%
56	21.464	1752	1758	1766	rBV	68787	214999	4.92%	0.459%
57	21.927	1799	1805	1811	rBV2	86005	244519	5.59%	0.522%
58	22.095	1816	1822	1829	rVV	152187	490444	11.21%	1.046%
59	22.233	1829	1836	1844	rVB3	361208	1265170	28.92%	2.699%
60	22.598	1863	1873	1877	rBV2	65375	232456	5.31%	0.496%
61	22.696	1877	1883	1891	rVV	155745	507196	11.60%	1.082%
62	23.031	1912	1917	1923	rBV5	18132	56413	1.29%	0.120%
63	23.278	1936	1942	1946	rBV6	18928	57888	1.32%	0.123%
64	23.386	1946	1953	1963	rVV2	291099	972263	22.23%	2.074%
65	23.721	1973	1987	1996	rBV	607350	2177081	49.77%	4.644%
66	23.859	1997	2001	2008	rVB9	18400	66142	1.51%	0.141%
67	24.194	2030	2035	2039	rBV7	19548	67011	1.53%	0.143%
68	24.293	2039	2045	2054	rVV4	50798	226091	5.17%	0.482%
69	24.431	2054	2059	2064	rVV4	29554	104916	2.40%	0.224%
70	24.618	2068	2078	2087	rVB2	75843	363505	8.31%	0.775%
71	25.426	2152	2160	2168	rVB6	20949	75127	1.72%	0.160%
72	25.692	2179	2187	2194	rBV4	23549	103861	2.37%	0.222%

Sum of corrected areas: 46879056

W0893.D W032315.M Wed Apr 08 15:19:06 2015

LSC Report - Integrated Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   4:29 pm using AcqMethod W032315
Instrument  :   MS #7
Sample Name: R1502204-011|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 13
Quant File :W032315.RES (RTE Integrator)
```



W0893.D W032315.M Wed Apr 08 15:19:08 2015

Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

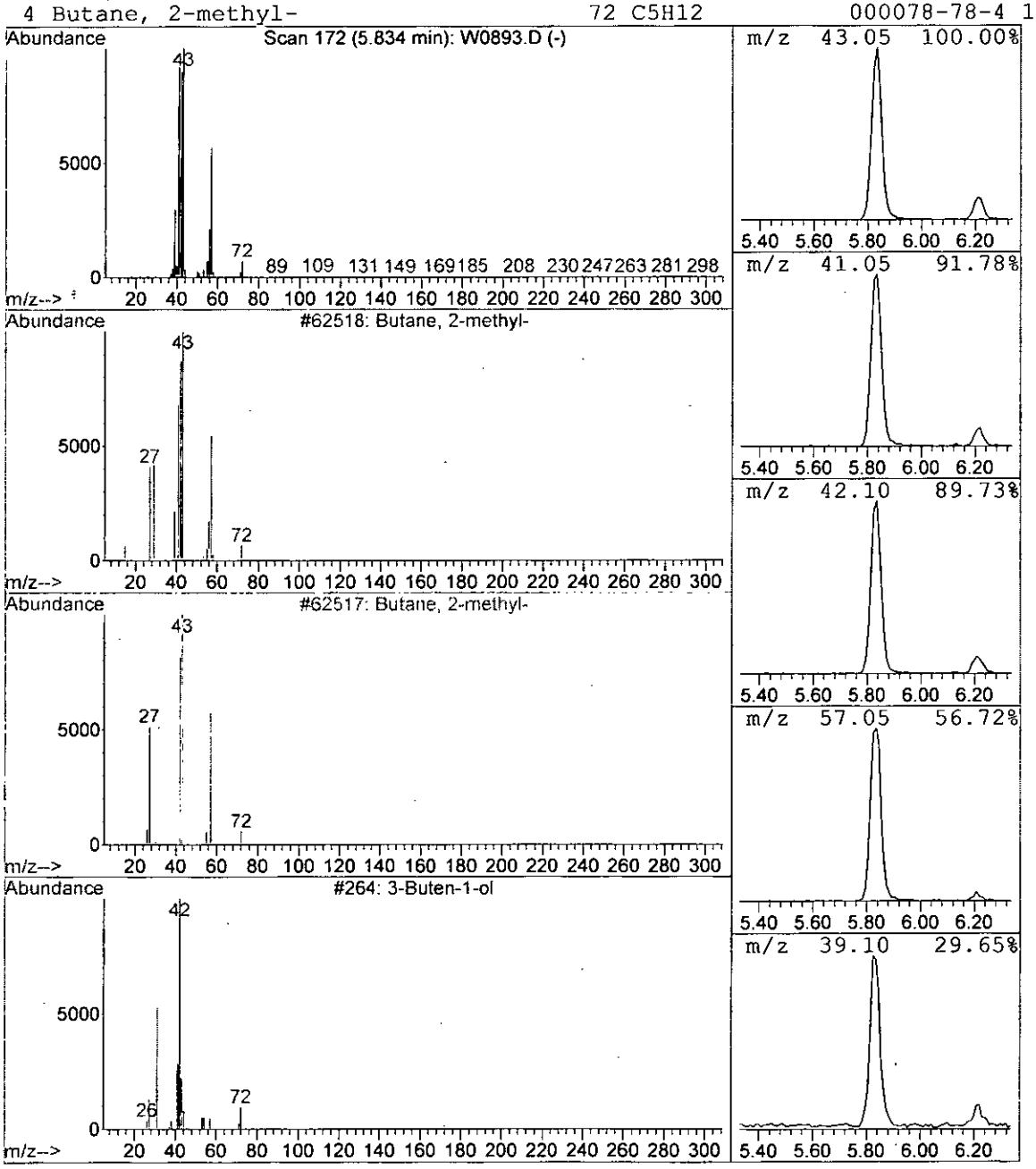
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 1 Butane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.83	15.61 ppb	941265	Pentafluorobenzene	9.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Butane, 2-methyl-	72	C5H12	000078-78-4	10



00217

Library Search Compound Report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Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D        Vial: 13
Acq On    :  3 Apr 2015    4:29 pm                    Operator: K.Ruest
Sample    : R1502204-011|1.0                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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****

Peak Number 2 Hexane, 2,4,4-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.88	5.99 ppb	361059	Pentafluorobenzene	9.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4,4-trimethyl-	128	C9H20	016747-30-1	64
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	43
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	40
4	Nonane, 3-methyl-	142	C10H22	005911-04-6	39

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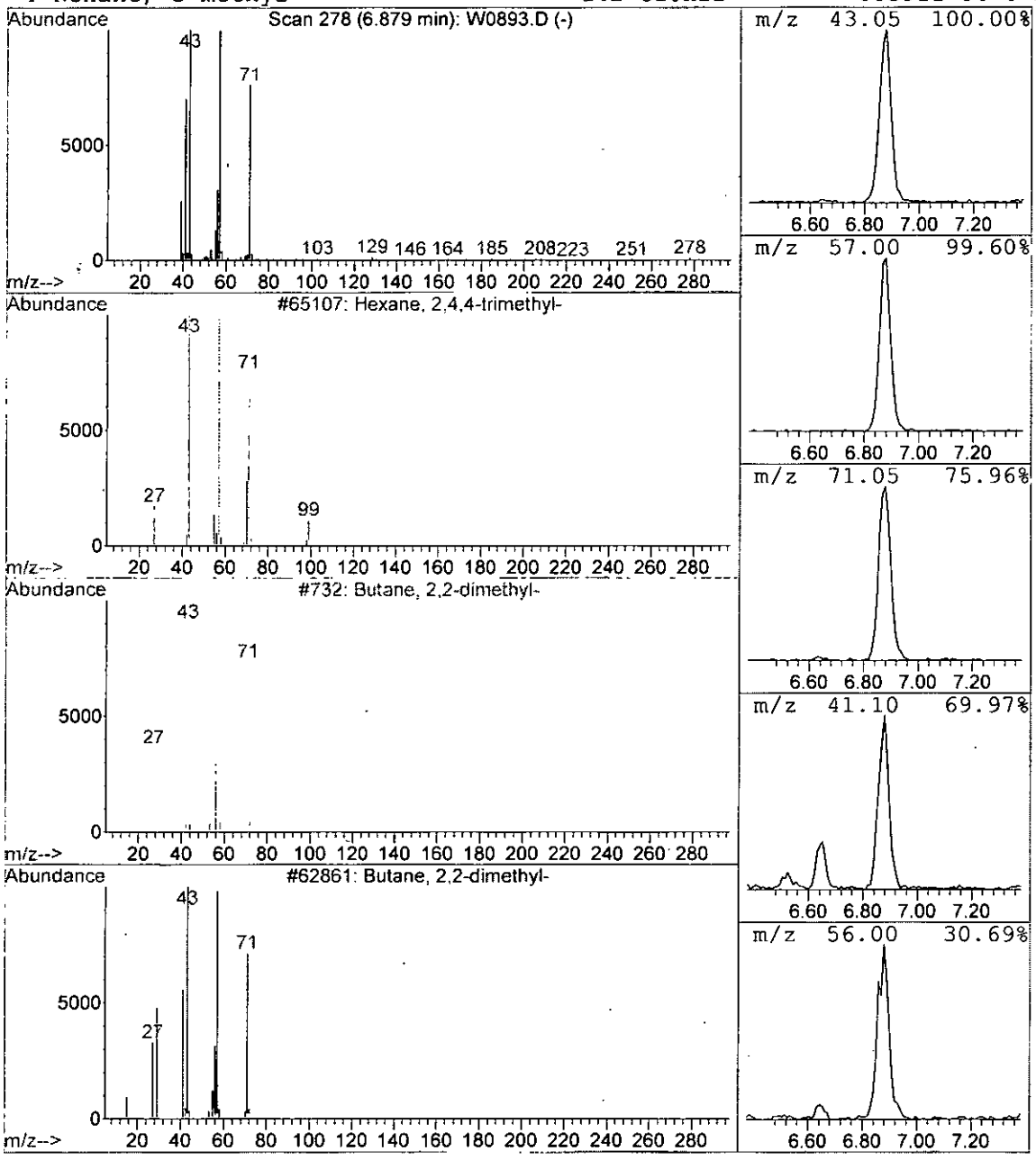

00218

Library Search Compound Report


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Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D        Vial: 13
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Sample    : R1502204-011|1.0                          Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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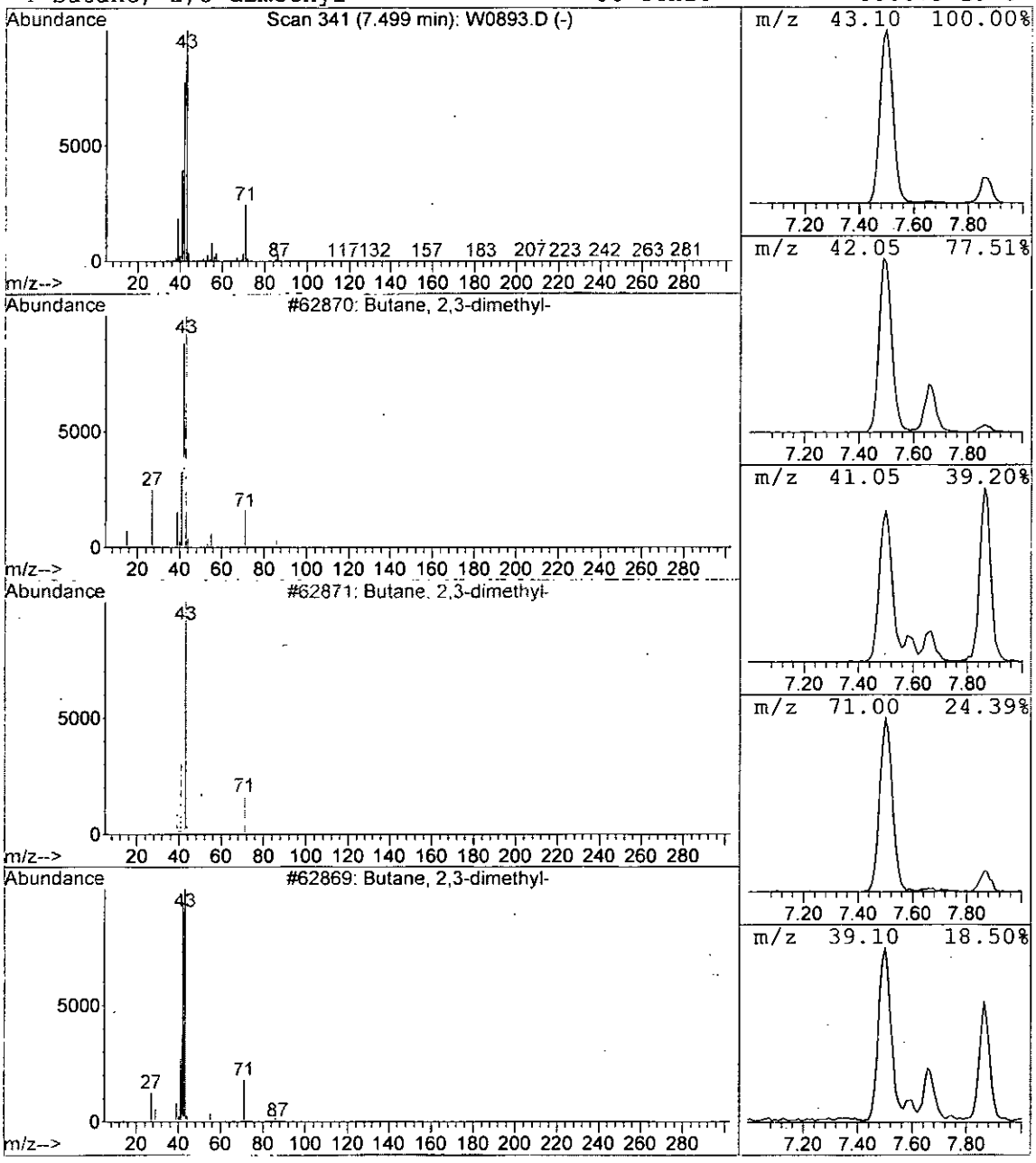
****

Peak Number 3 Butane, 2,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.50	27.18 ppb	1639400	Pentafluorobenzene	9.81

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	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	56



00219

Library Search Compound Report

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Sample    : R1502204-011|1.0                           Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                     Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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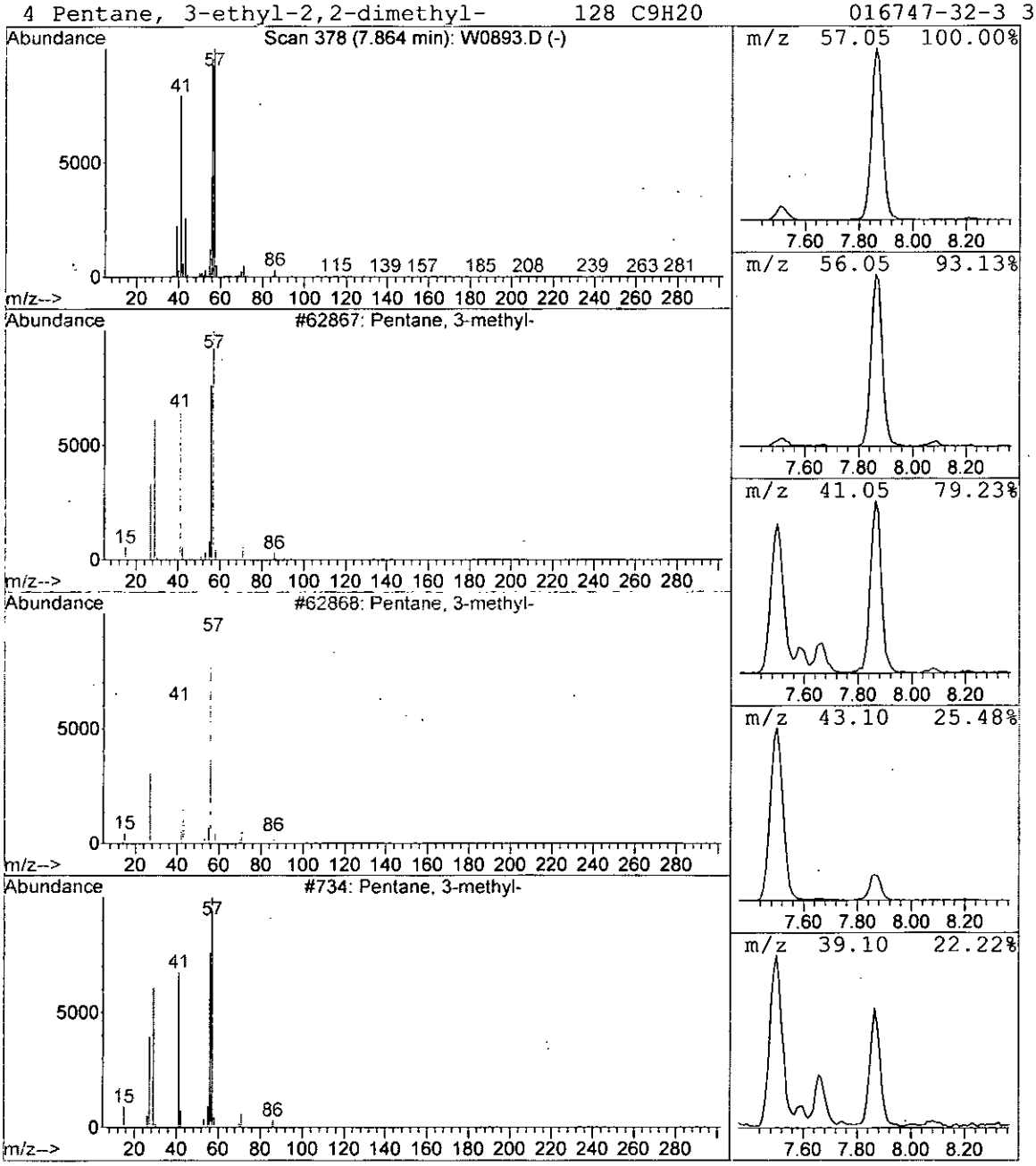
****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	16.41 ppb	990055	Pentafluorobenzene	9.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	80
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	52
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	39



Library Search Compound Report

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Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

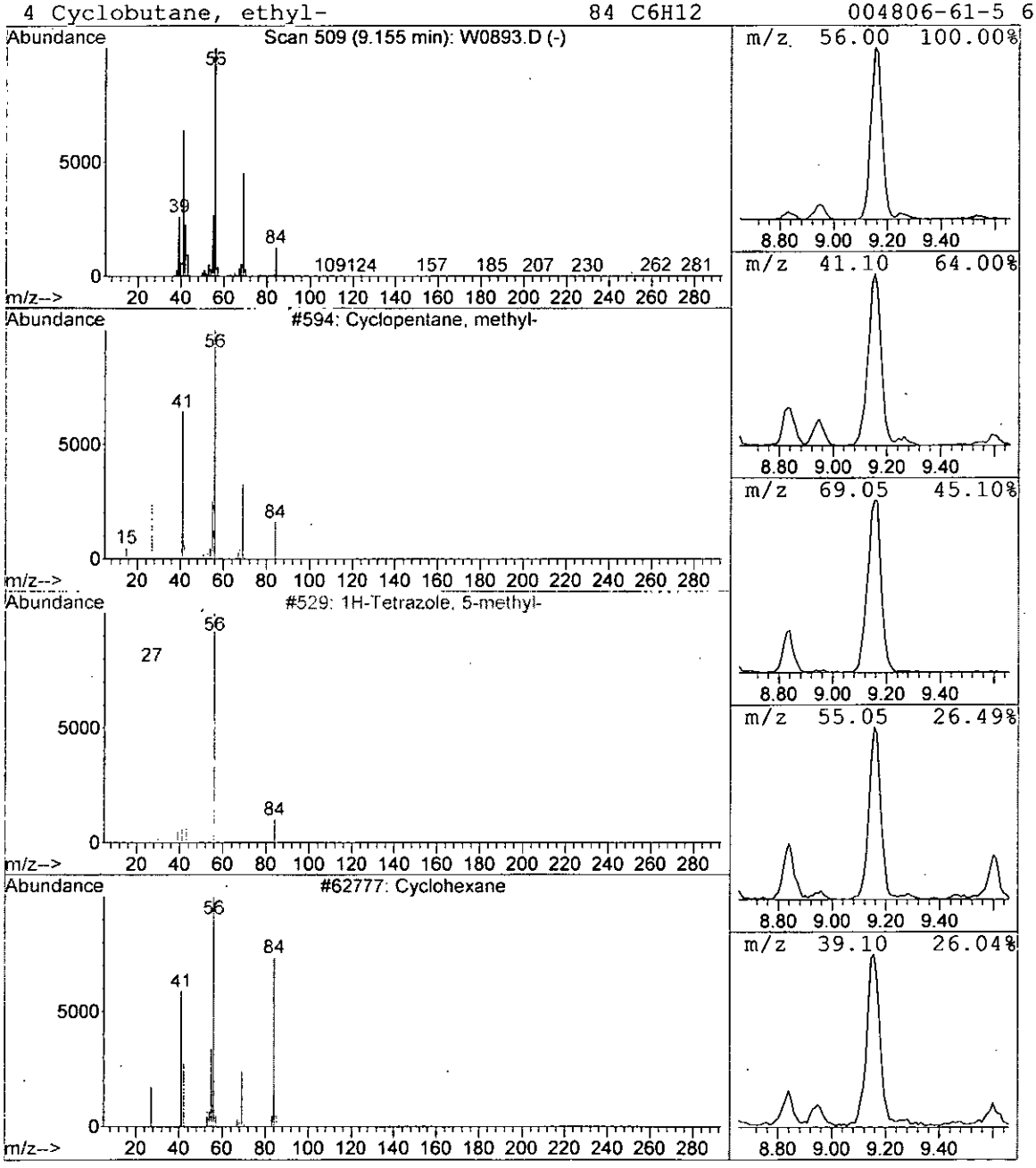
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 5 Cyclopentane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.16	20.28 ppb	1223030	Pentafluorobenzene	9.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	72
3	Cyclohexane	84	C6H12	000110-82-7	64
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	64



Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

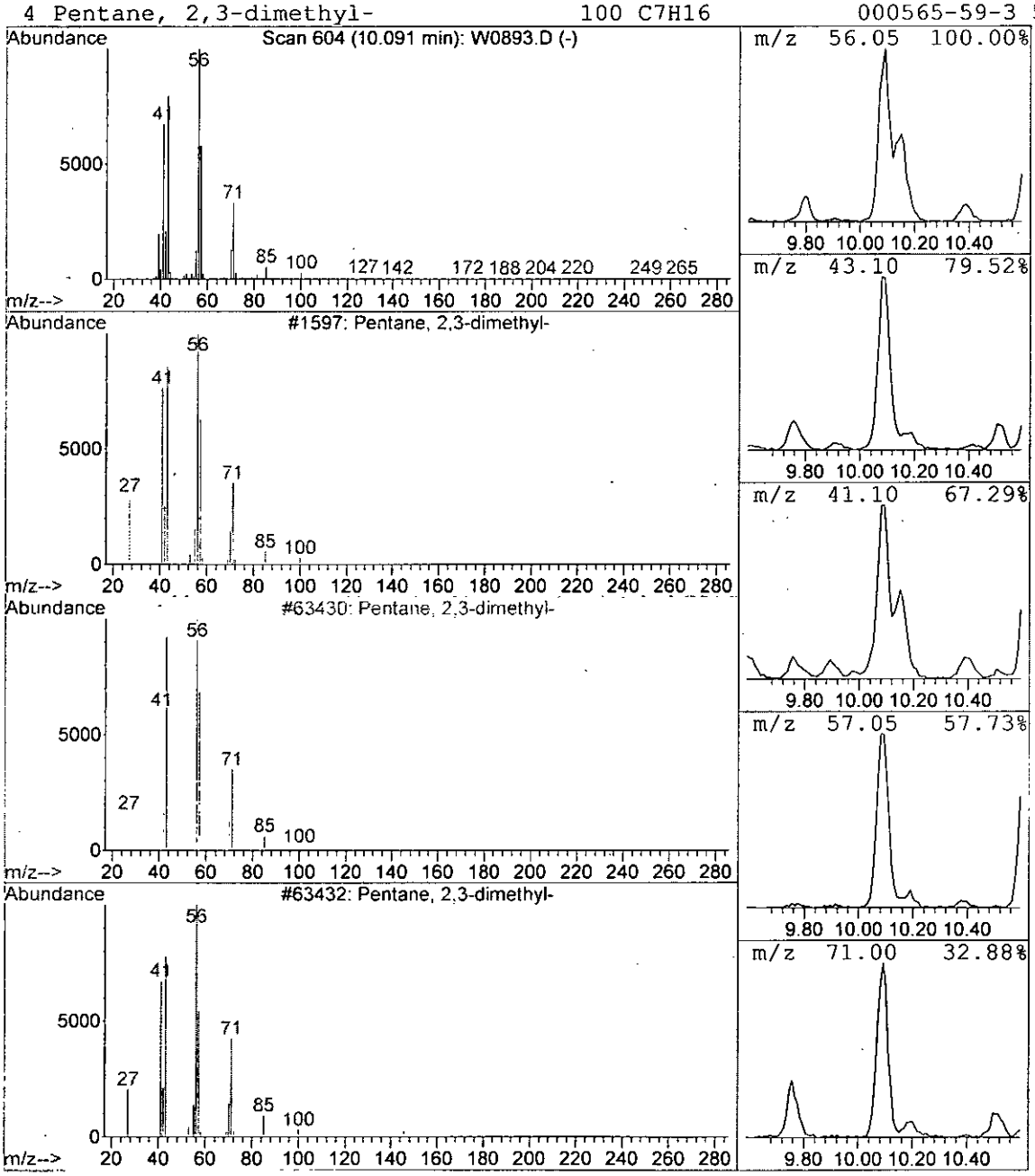
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.09	10.68 ppb	643890	Pentafluorobenzene	9.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	72
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	53



Library Search Compound Report

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Sample    : R1502204-011|1.0                           Inst    : MS #7
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MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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Peak Number 7 2-Piperidinemethanamine Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.15	6.70 ppb	404193	Pentafluorobenzene	9.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Piperidinemethanamine	114	C6H14N2	022990-77-8	40
2	Cyclohexane	84	C6H12	000110-82-7	38
3	Pelletierine	141	C8H15NO	004396-01-4	33
4	Cyclohexane	84	C6H12	000110-82-7	32

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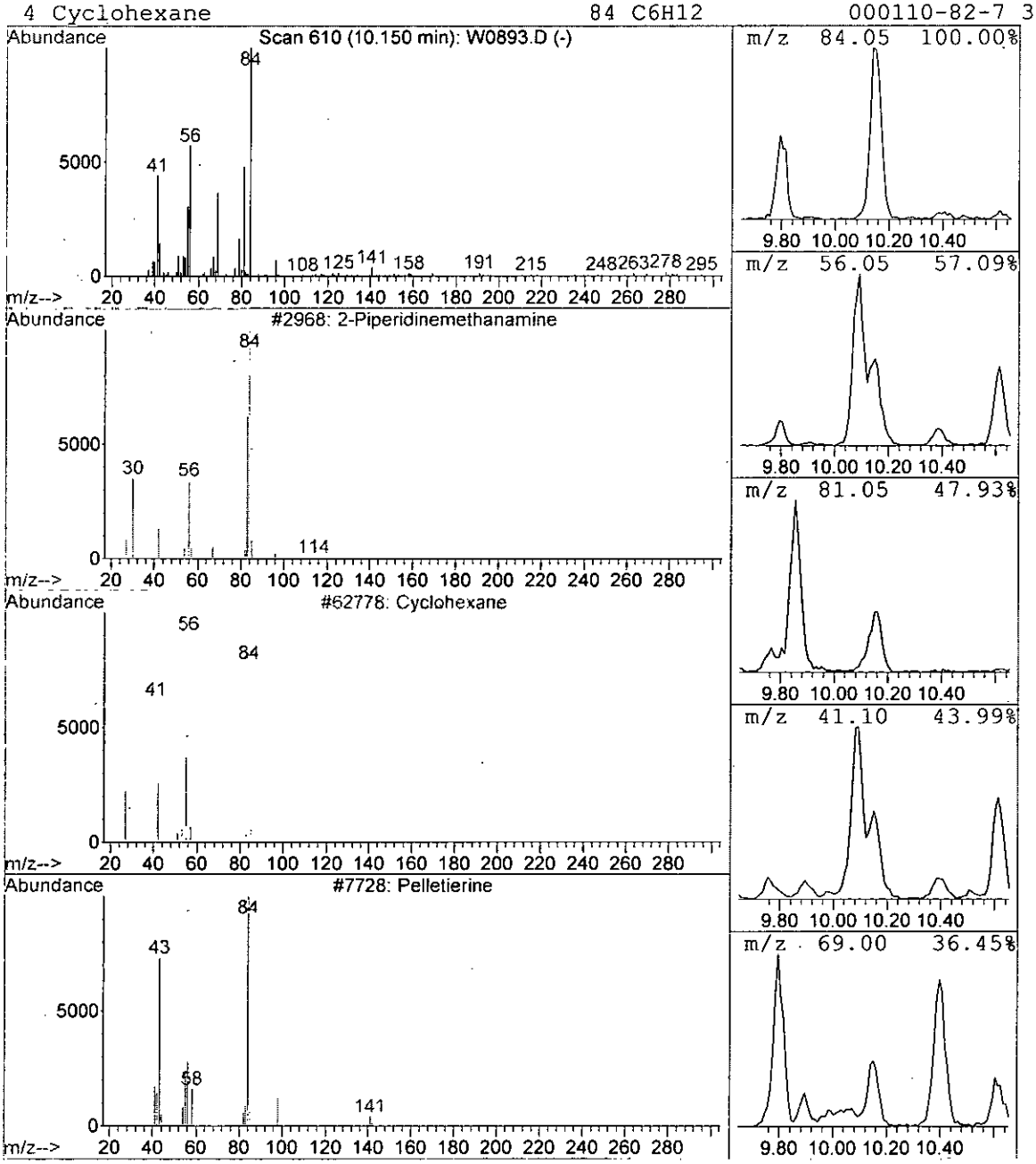

Library Search Compound Report

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Sample    : R1502204-011|1.0                           Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                     Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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Peak Number 8 1-Decene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.61	5.60 ppb	394260	1,4 - Difluorobenzene	10.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Decene	140	C10H20	000872-05-9	56
2	1-Heptene	98	C7H14	000592-76-7	53
3	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	53
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	53

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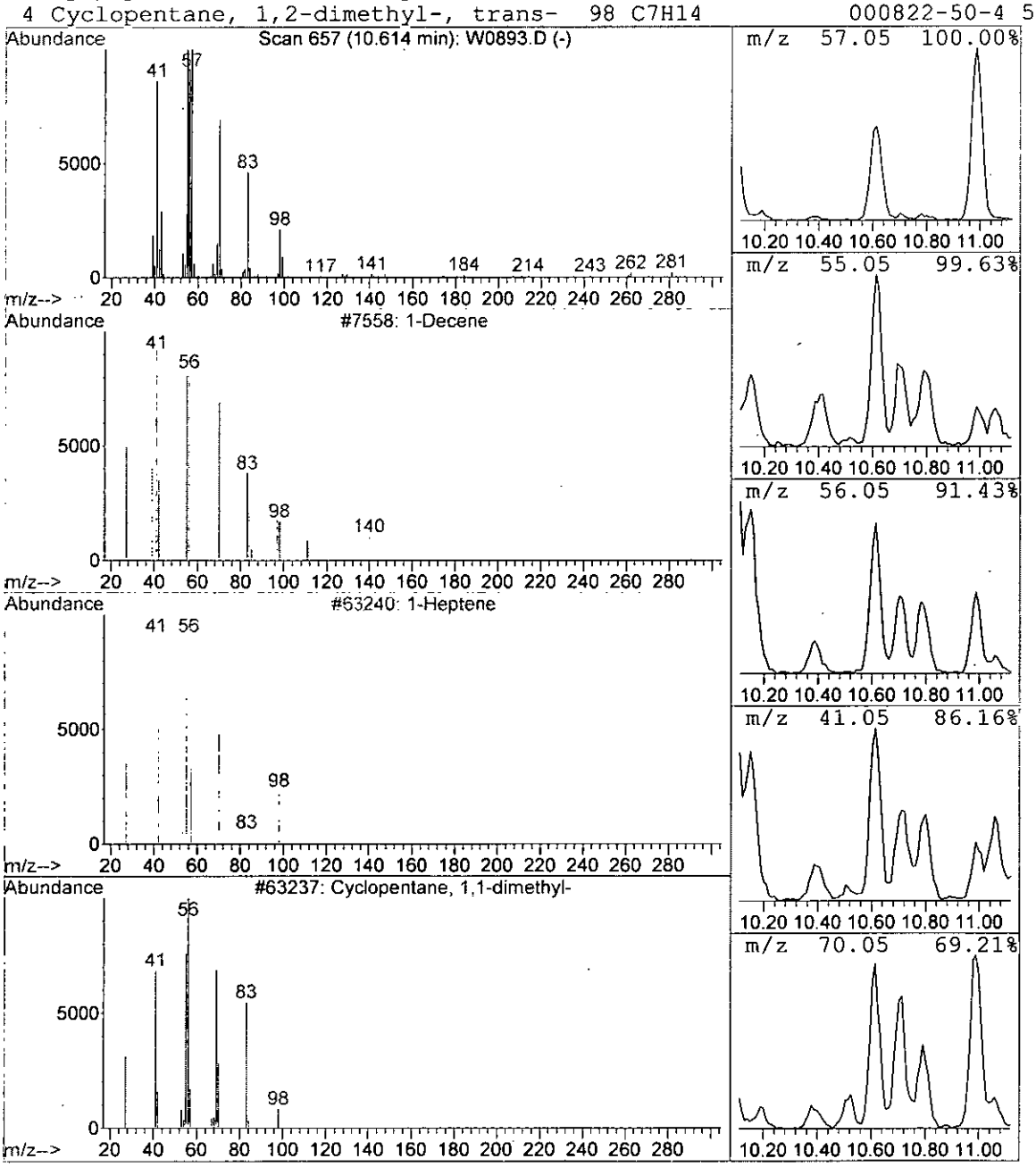


Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
Acq On : 3 Apr 2015 4:29 pm Operator: K.Ruest
Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

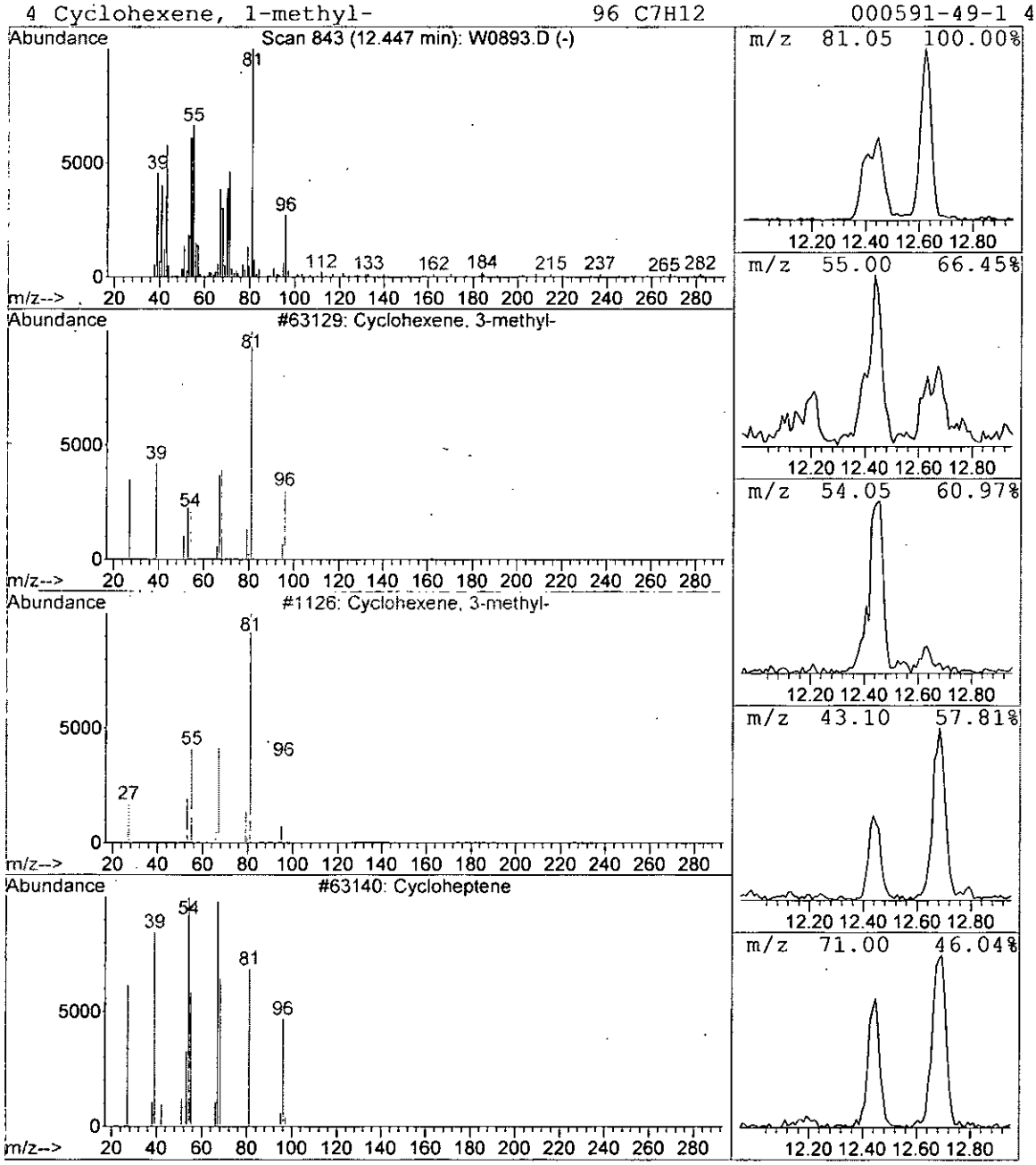
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 9 Cyclohexene, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	5.07 ppb	356956	1,4 - Difluorobenzene	10.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	92
2	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	50
3	Cycloheptene	96	C7H12	000628-92-2	43
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	42



Library Search Compound Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0893.D Vial: 13
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Sample : R1502204-011|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 10 Indane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.20	12.85 ppb	1015170	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	68
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	64
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	49
4	Benzene, 1,1'-(1-ethenyl-1,3-propan	222	C17H18	061141-97-7	47

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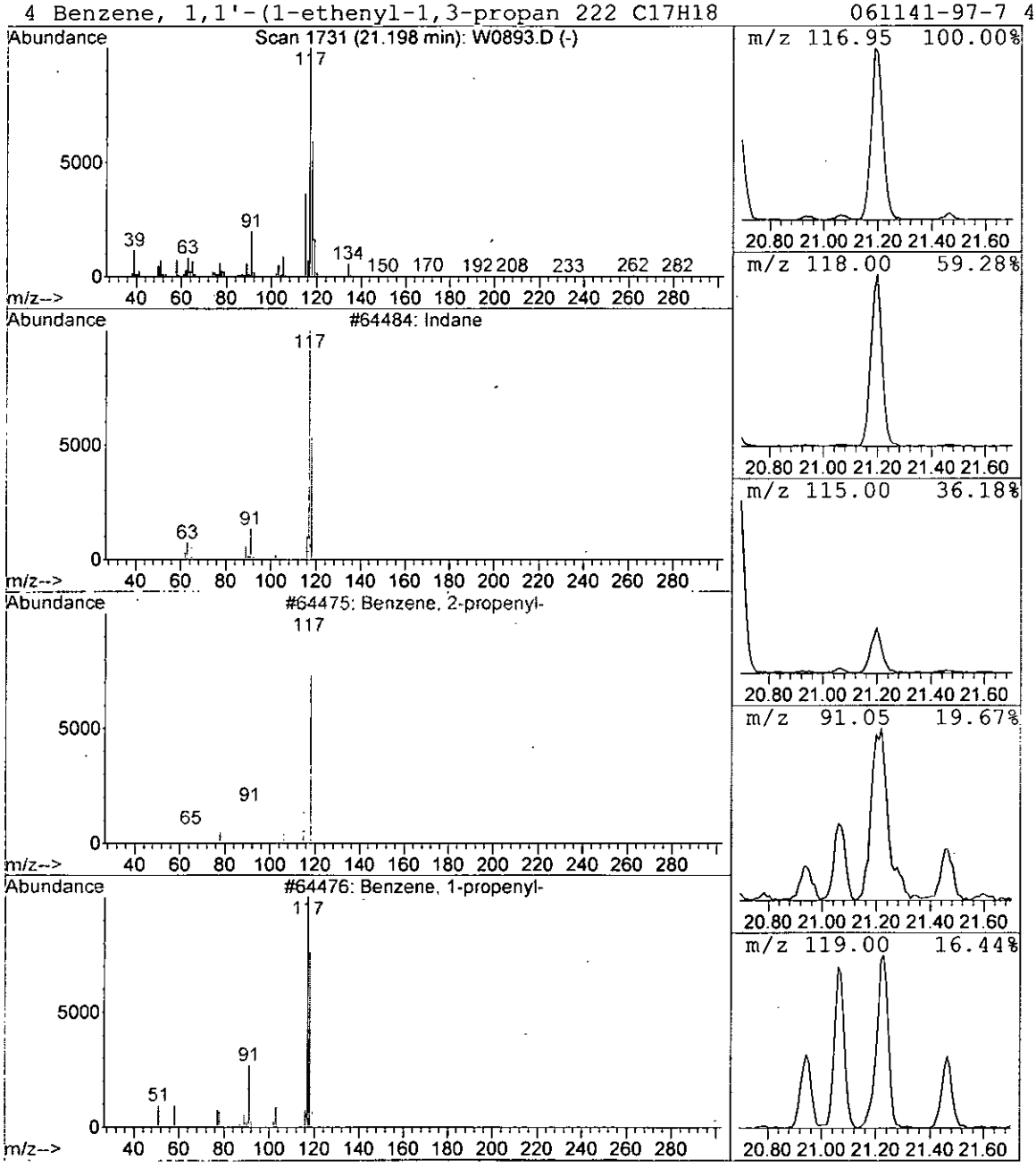

Library Search Compound Report

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MS Integration Params: LSCINT.P

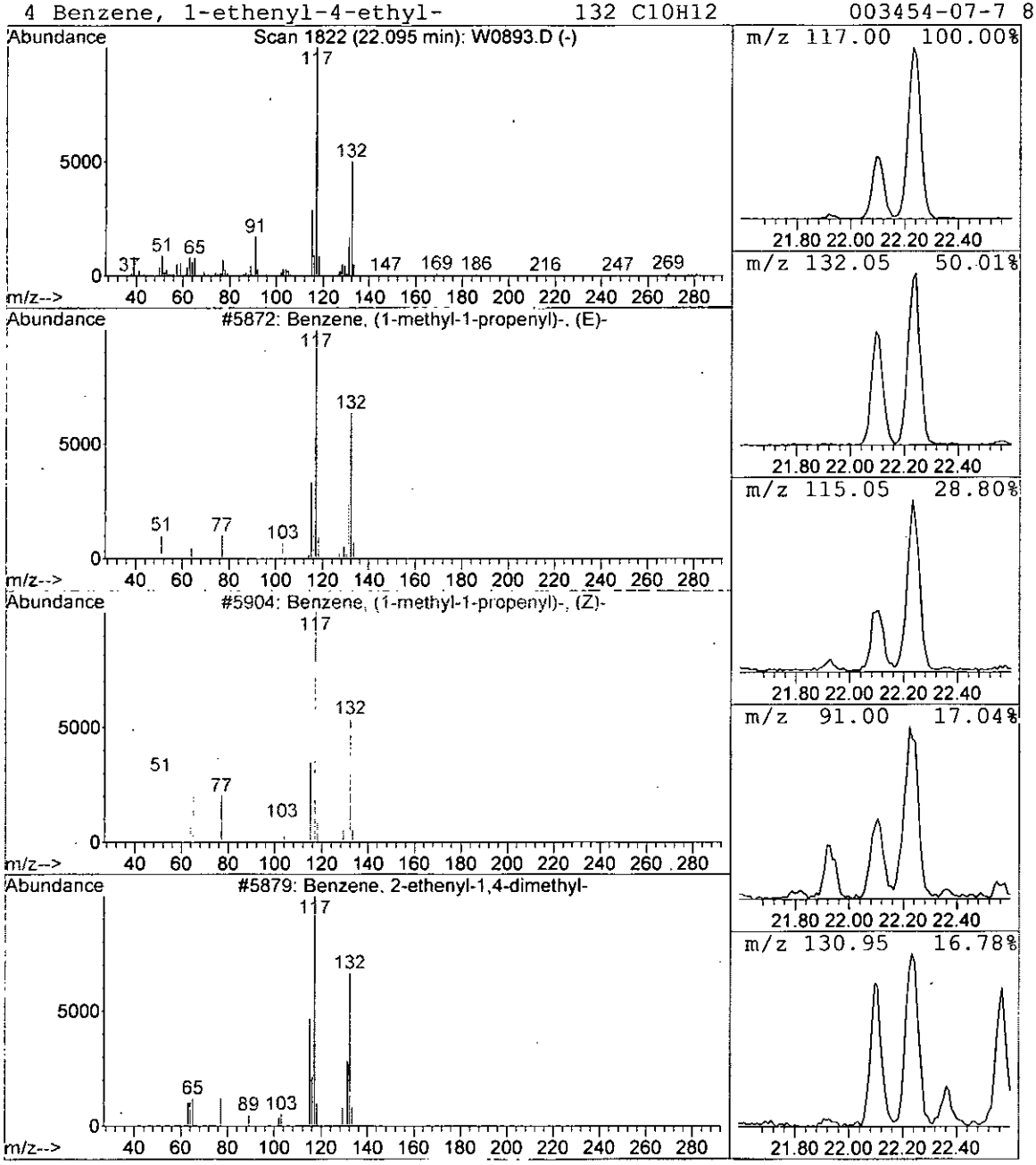
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 11 Benzene, (1-methyl-1-propenyl) Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.09	6.21 ppb	490444	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propenyl)-, (E	132	C10H12	000768-00-3	93
2	Benzene, (1-methyl-1-propenyl)-, (Z	132	C10H12	000767-99-7	87
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	83
4	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	80



Library Search Compound Report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Sample    : R1502204-011|1.0                           Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                     Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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Peak Number 12 2,3-Dihydro-1-methylindene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.23	16.01 ppb	1265170	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	74
2	Indan, 1-methyl-	132	C10H12	000767-58-8	74
3	Indan, 1-methyl-	132	C10H12	000767-58-8	68
4	1H-Indene, 1-ethyl-2,3-dihydro-	146	C11H14	004830-99-3	53

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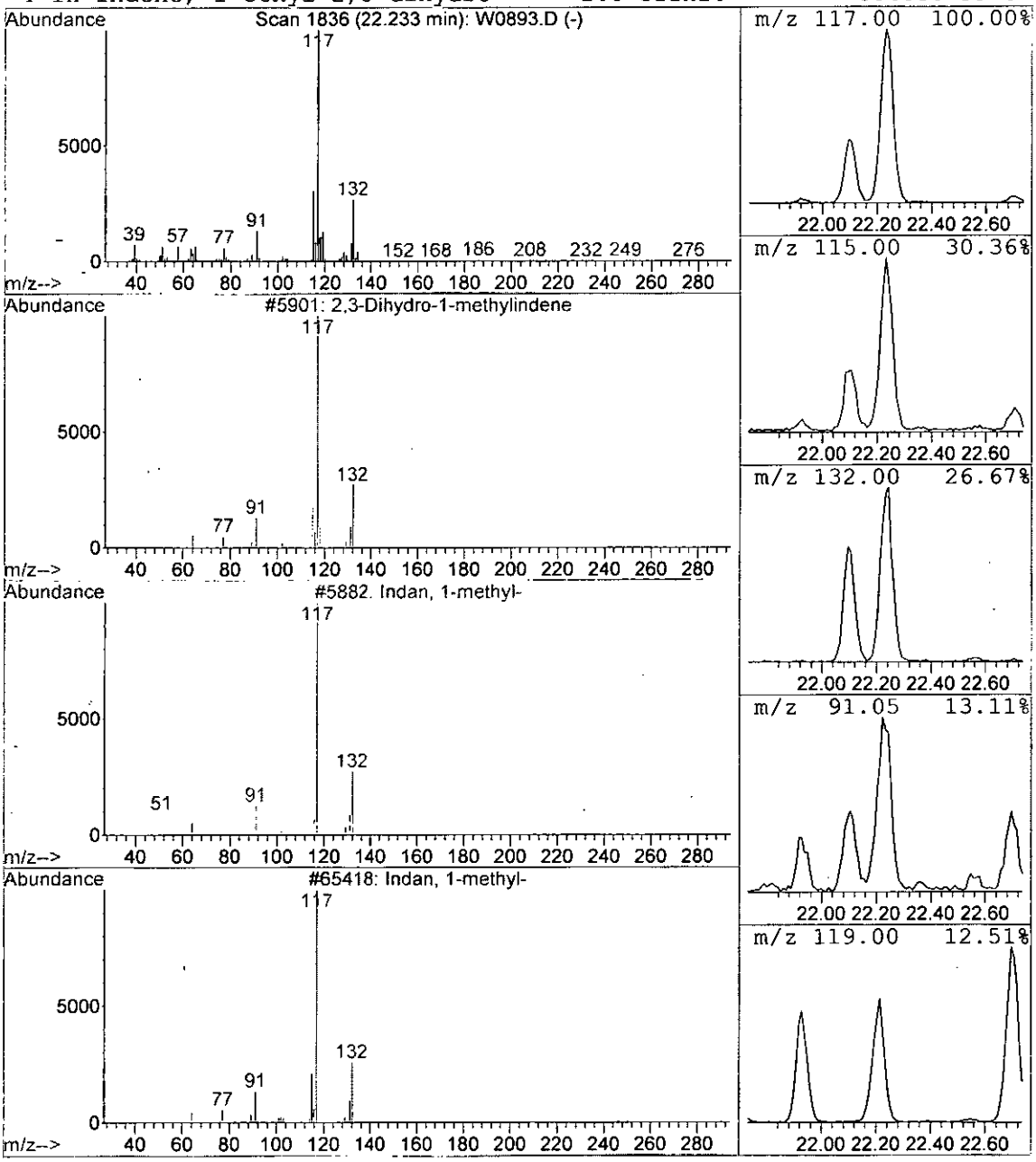

00228

Library Search Compound Report

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MS Integration Params: LSCINT.P

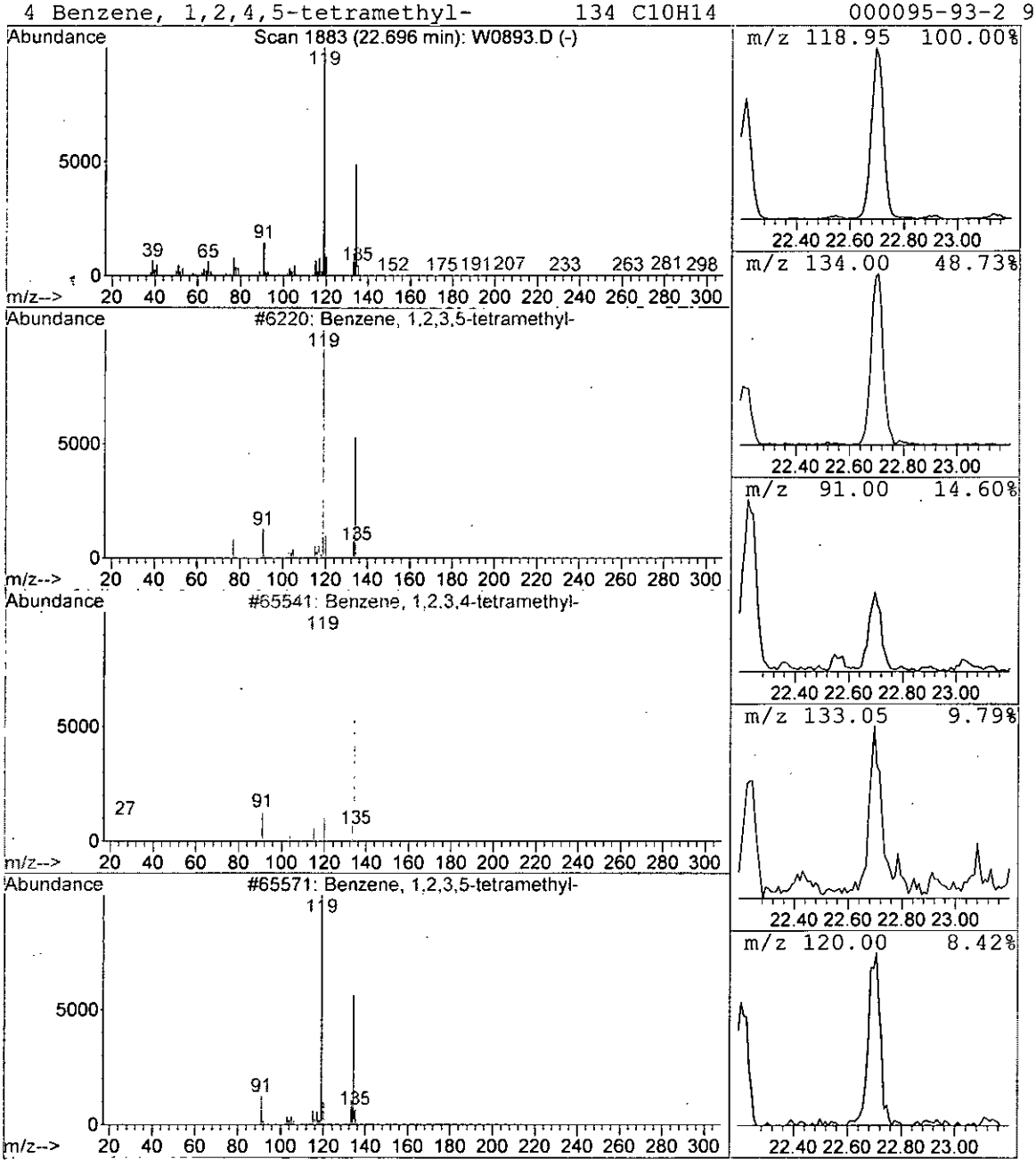
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Library : I:\ACQUDATA\DATABASE\NBS75K.L

****

Peak Number 13 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.70	6.42 ppb	507196	d4 - Dichlorobenzene	20.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95



Library Search Compound Report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Sample    : R1502204-011|1.0                           Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                     Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
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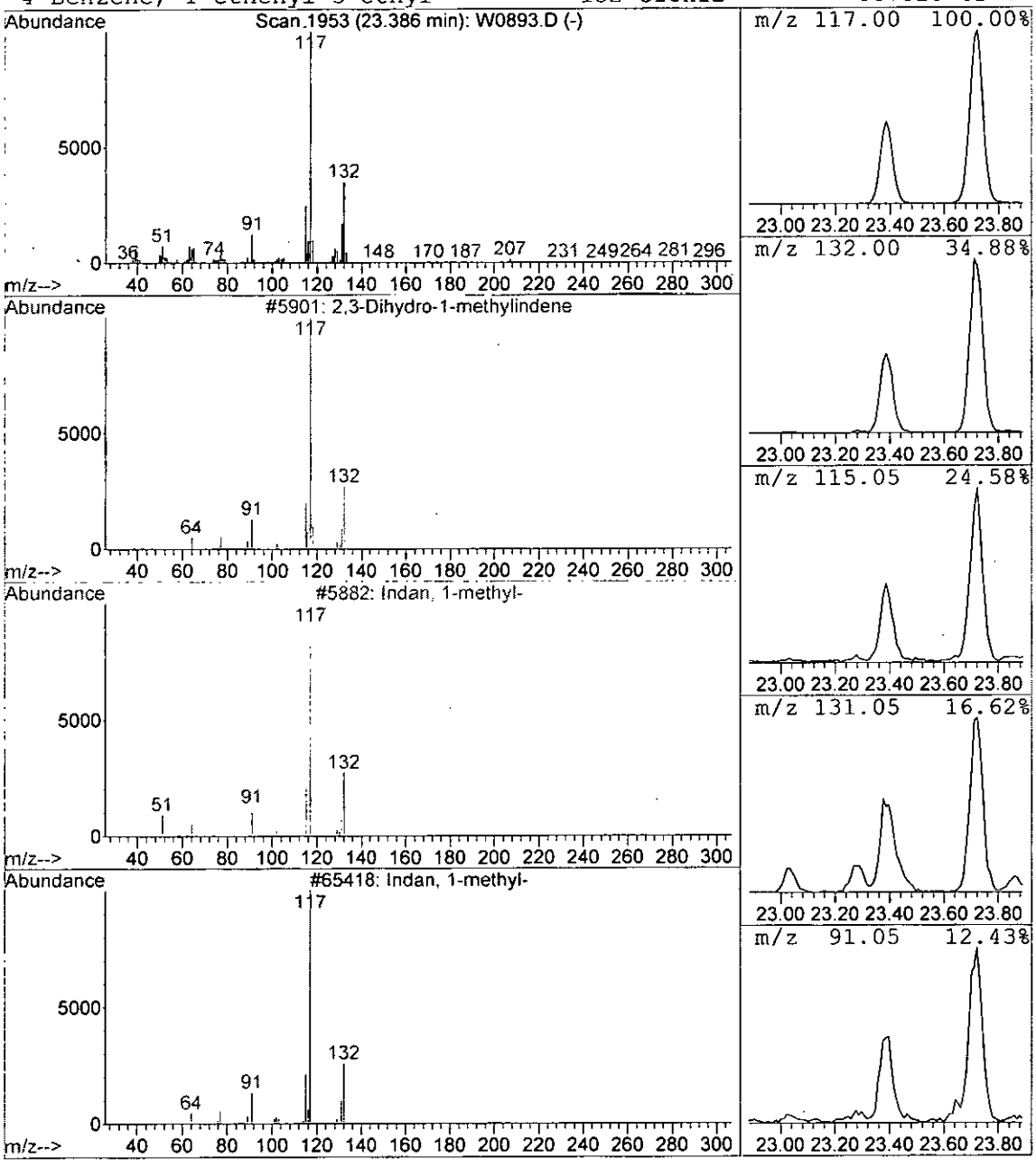
****

Peak Number 14 2,3-Dihydro-1-methylindene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.39	12.31 ppb	972263	d4 - Dichlorobenzene	20.69

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	91
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	80



Library Search Compound Report

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Sample    : R1502204-011|1.0                           Inst    : MS #7
Misc      : PARSONS 11603 T4 *DOD*                     Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title        : 8260C.WATERS
Library      : I:\ACQUDATA\DATABASE\NBS75K.L
```

****

Peak Number 15 2,3-Dihydro-1-methylindene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.72	27.56 ppb	2177080	d4 - Dichlorobenzene	20.69

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	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	74

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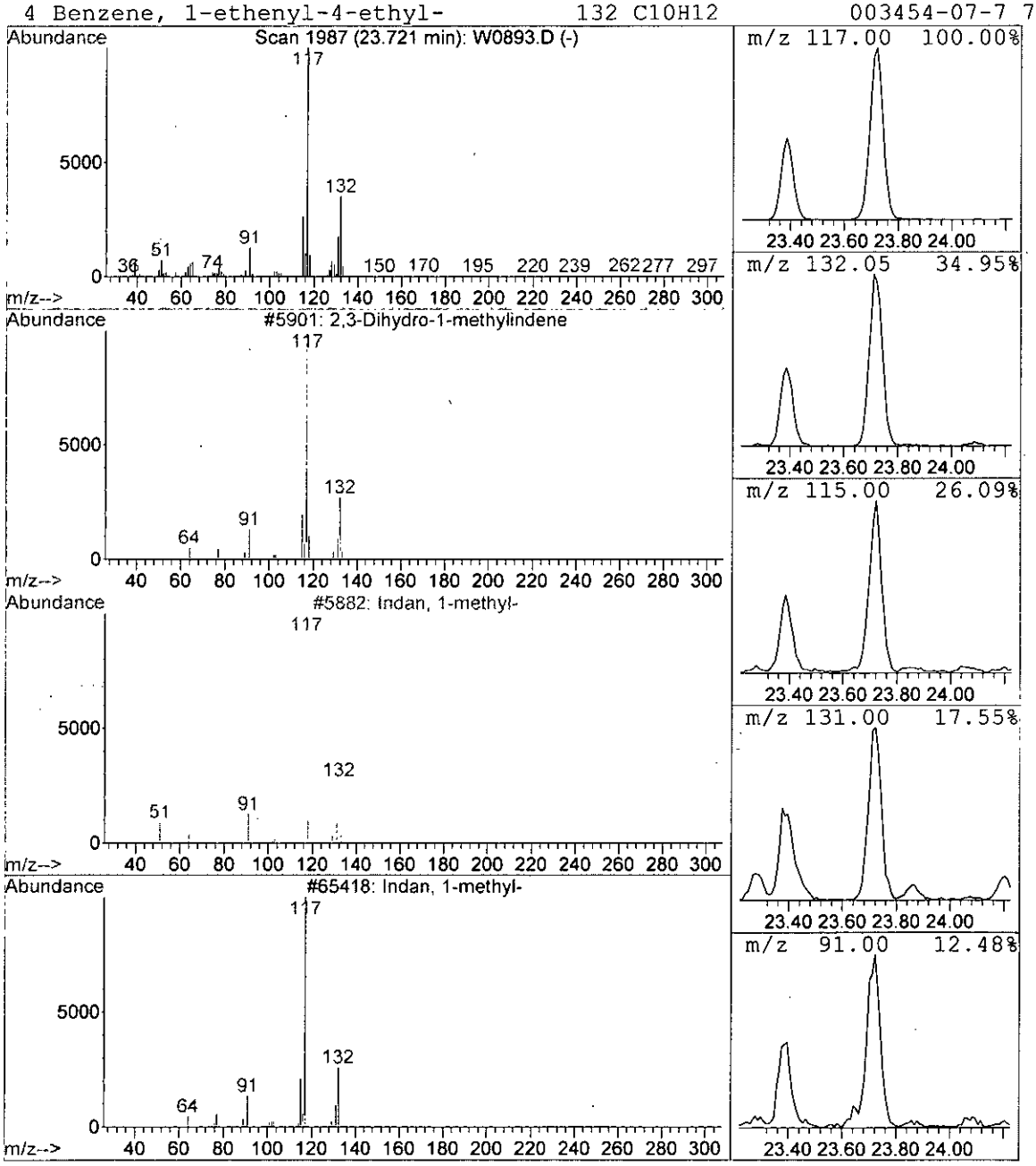


Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1050
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 17:04
Sample Name:	FTMM-53-699RW03-8.2	**Units:**	µg/L
Lab Code:	R1502204-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D\	**Instrument Name:**	R-MS-07
		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	**1.1**	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	**0.45**	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	**1.6**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1050
Date Received: 3/31/15
Date Analyzed: 4/3/15 17:04

Sample Name: FTMM-53-699RW03-8.2
Lab Code: R1502204-012

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	ND	U	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	**2.3**	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 17:04	
Dibromofluoromethane	108	85-115	4/3/15 17:04	
Toluene-d8	108	85-120	4/3/15 17:04	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1704

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

Sample Name: FTMM-53-699RW03-8.2
Lab Code: R1502204-012

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D Vial: 14
Acq On : 3 Apr 2015 5:04 pm Operator: K.Ruest
Sample : R1502204-012|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:23 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	953456	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.99	114	1506110	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1344513	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	661452	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	524834	54.13	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.26%			
48) surr1,1,2-Diclethane	10.39	65	540353	55.28	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 110.56%			
70) surr3,Toluene-d8	13.46	98	1577678	54.04	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.08%			
71) surr2,bfb	18.34	95	689347	54.30	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.60%			
Target Compounds						Qvalue
15) Acetone	6.84	43	5675m	1.59	ppb	
83) (m+p)Xylene	16.49	106	3100	0.21	ppb	# 80
84) o-Xylene	17.29	106	33870	2.27	ppb	94
96) 1,3,5-Trimethylbenzene	19.13	105	13577	0.45	ppb	91
101) 1,2,4-Trimethylbenzene	19.93	105	32160	1.06	ppb	82

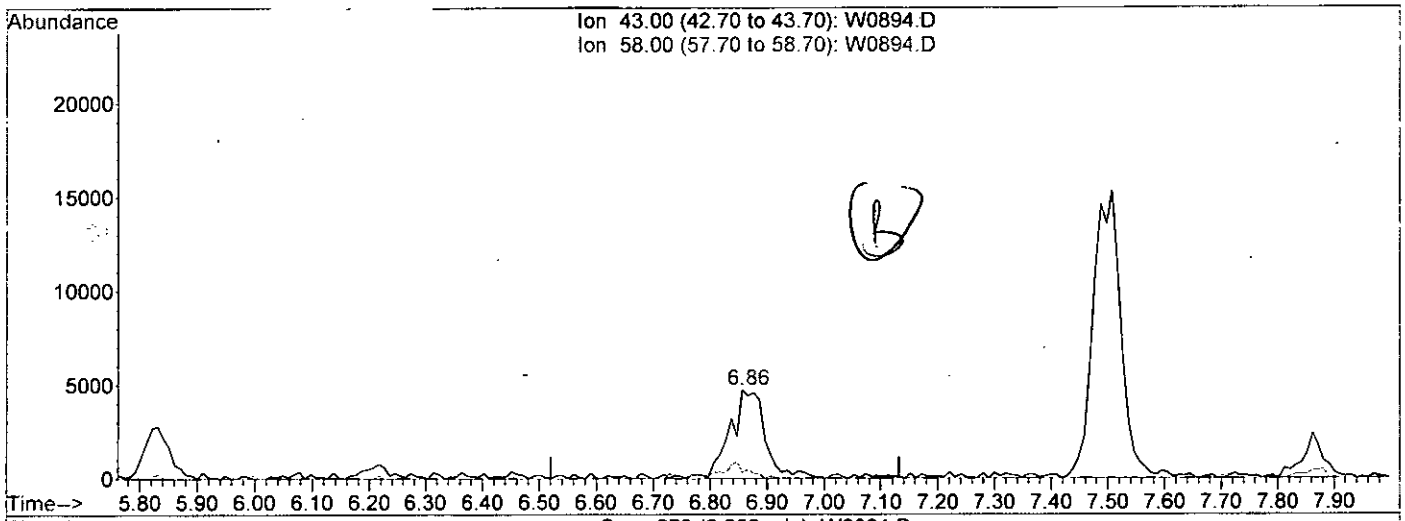
KP 4/8/15

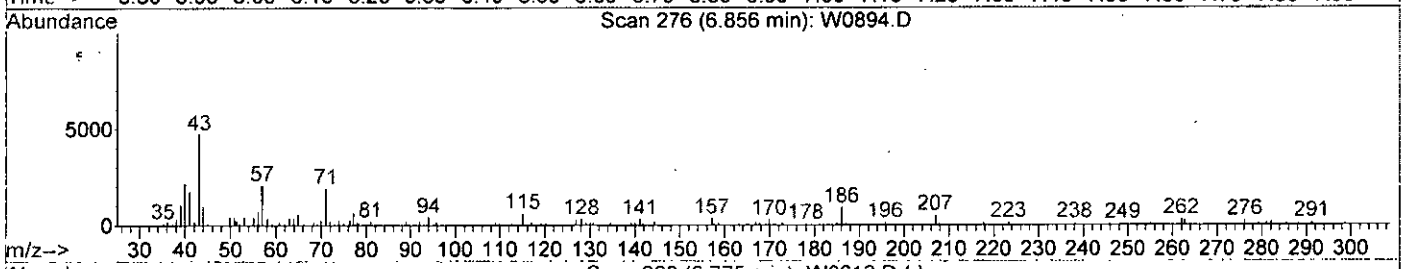
(#) = qualifier out of range (m) = manual integration
W0894.D W032315.M Wed Apr 08 15:24:19 2015

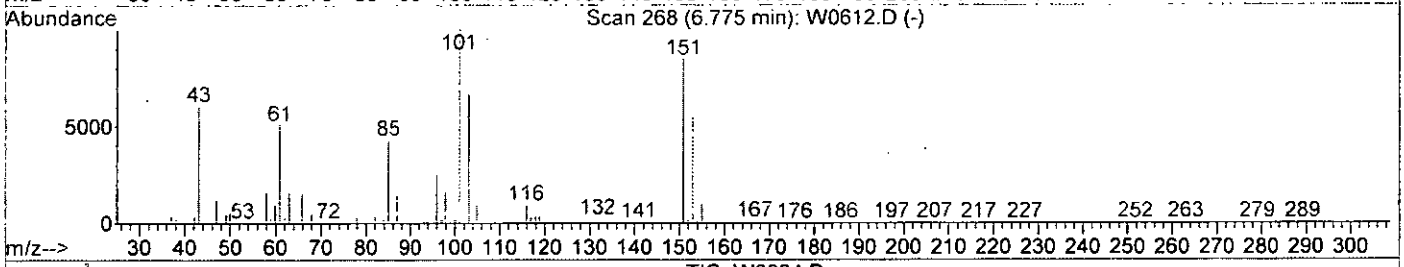
00235

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D Vial: 14
Acq On : 3 Apr 2015 5:04 pm Operator: K.Ruest
Sample : R1502204-012|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:20 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Single Level Calibration







TIC: W0894.D

(15) Acetone (P)

6.86min 5.61ppb

response 20070

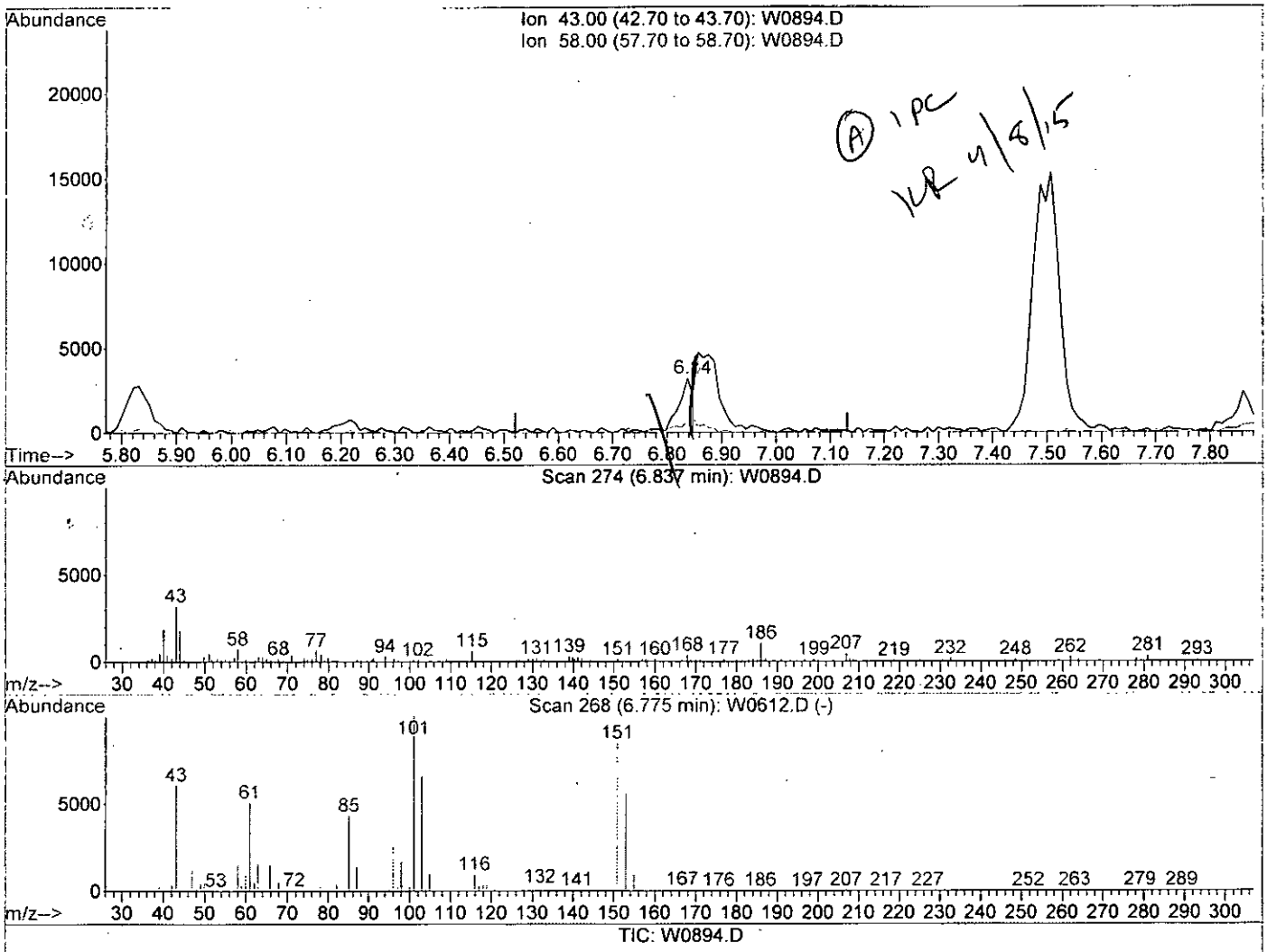
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	6.95#
0.00	0.00	0.00
0.00	0.00	0.00

W0894.D W032315.M Wed Apr 08 15:20:46 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D Vial: 14
Acq On : 3 Apr 2015 5:04 pm Operator: K.Ruest
Sample : R1502204-012|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:20 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Single Level Calibration



TIC: W0894.D

(15) Acetone (P)

6.84min 1.59ppb m

response 5675

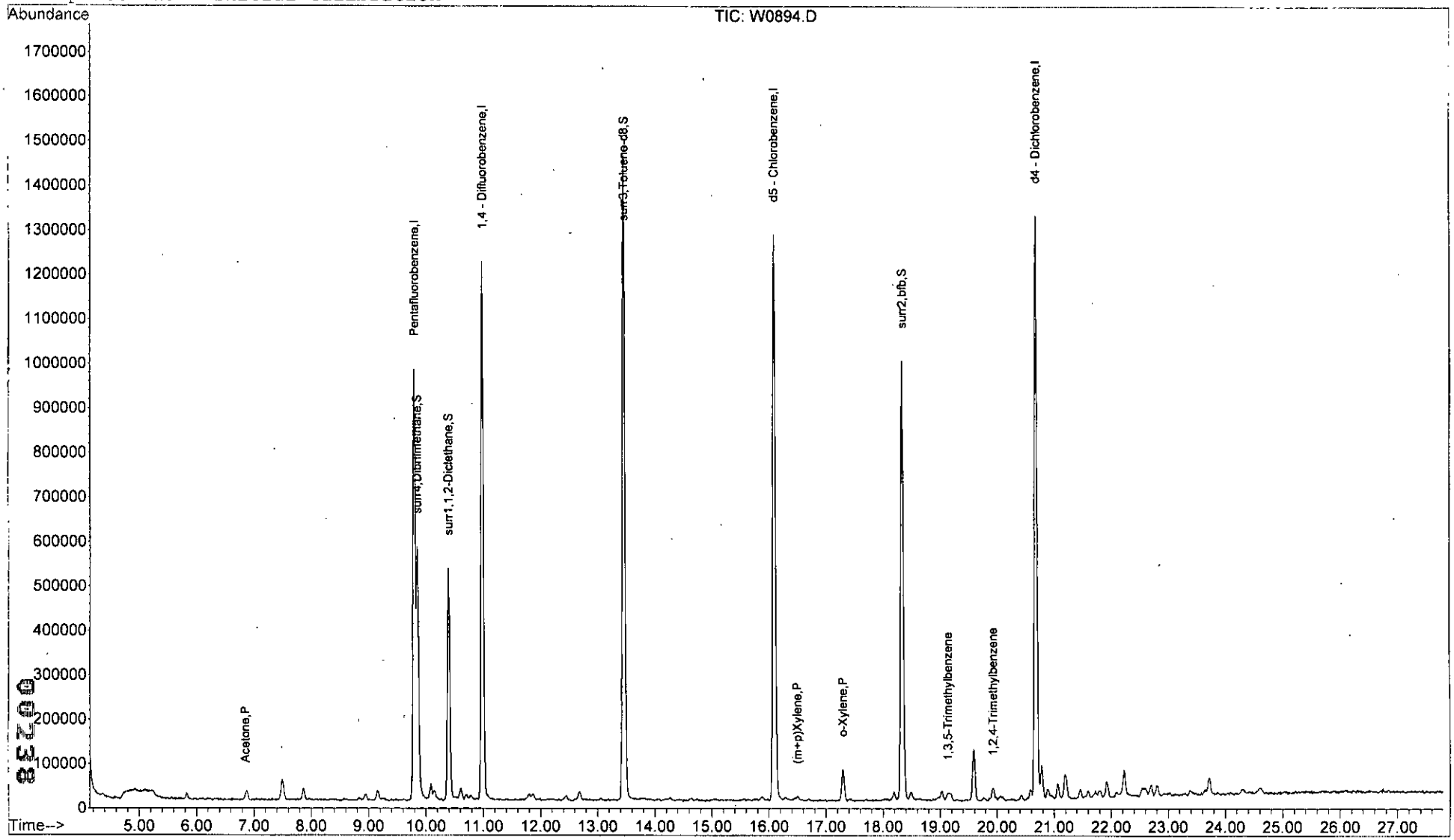
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	22.25
0.00	0.00	0.00
0.00	0.00	0.00

W0894.D W032315.M Wed Apr 08 15:21:03 2015

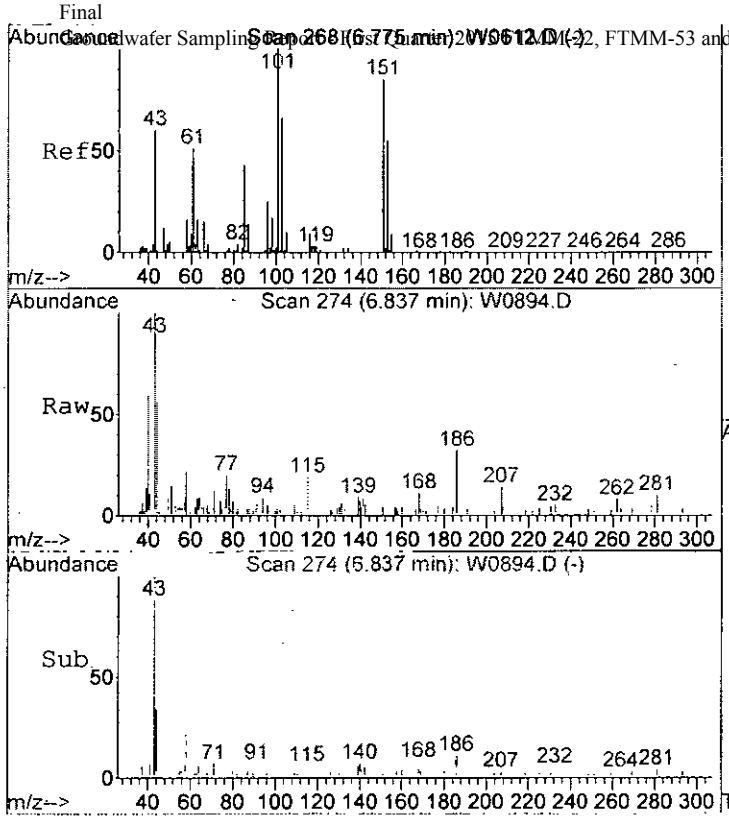
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D Vial: 14
Acq On : 3 Apr 2015 5:04 pm Operator: K.Ruest
Sample : R1502204-012|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:23 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



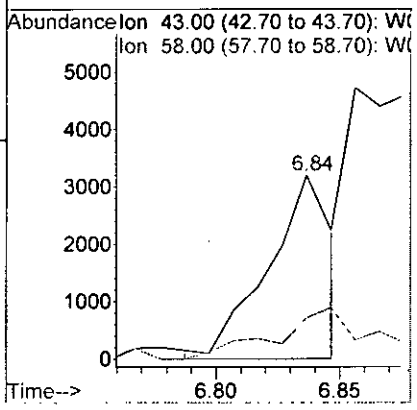
W0894.D W032315.M Wed Apr 08 15:24:21 2015

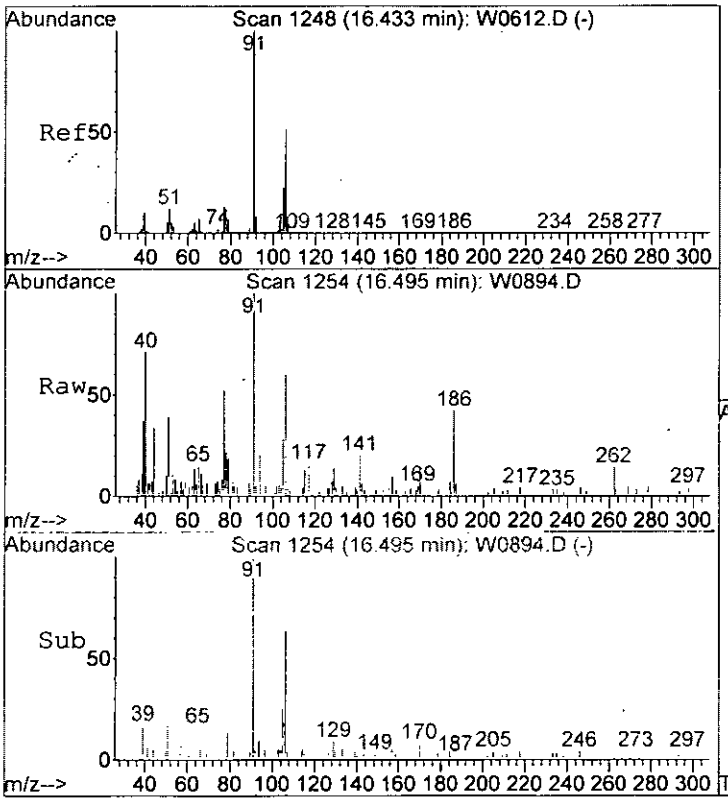


#15
Acetone
Concen: 1.59 ppb m
RT: 6.84 min Scan# 274
Delta R.T. 0.06 min
Lab File: W0894.D
Acq: 3 Apr 2015 5:04 pm

Tgt Ion: 43 Resp: 5675

Ion	Ratio	Lower	Upper
43	100		
58	22.3	7.2	47.2

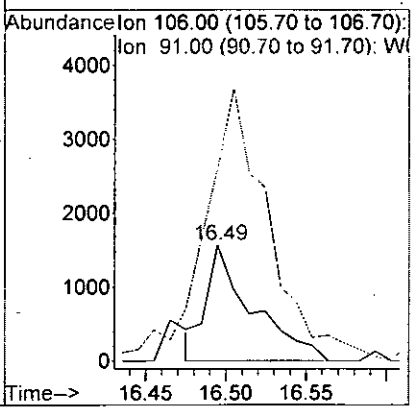


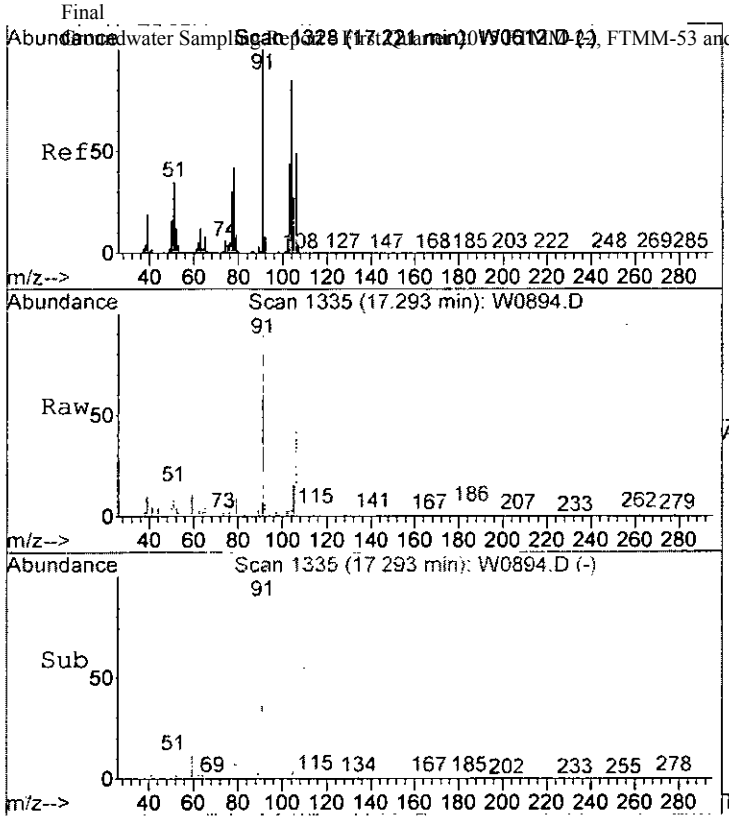


#83
(m+p)Xylene
Concen: 0.21 ppb
RT: 16.49 min Scan# 1254
Delta R.T. 0.06 min
Lab File: W0894.D
Acq: 3 Apr 2015 5:04 pm

Tgt Ion:106 Resp: 3100

Ion	Ratio	Lower	Upper
106	100		
91	165.8	175.2	215.2#

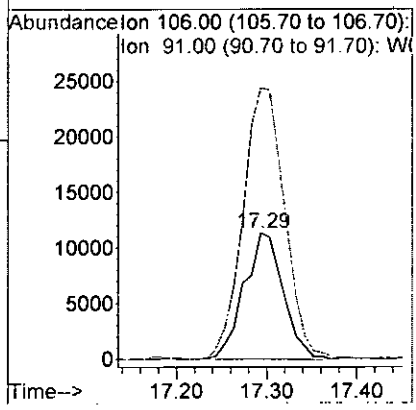


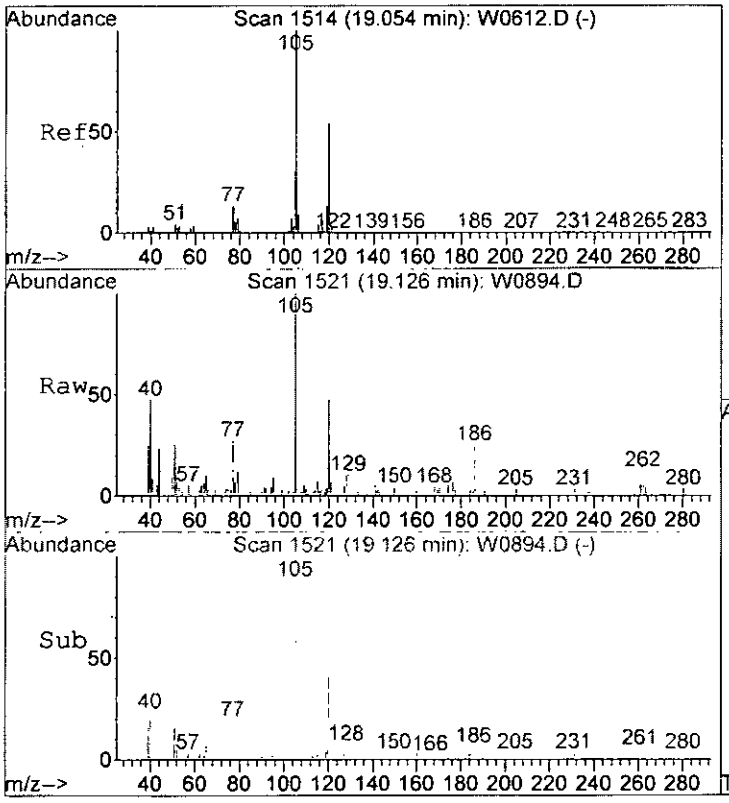


#94
o-Xylene
Concen: 2.27 ppb
RT: 17.29 min Scan# 1335
Delta R.T. 0.07 min
Lab File: W0894.D
Acq: 3 Apr 2015 5:04 pm

Tgt Ion:106 Resp: 33870

Ion	Ratio	Lower	Upper
106	100		
91	214.8	185.2	225.2

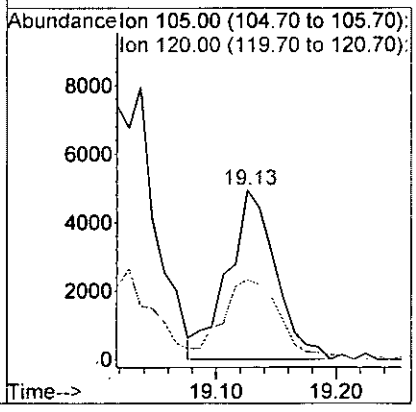


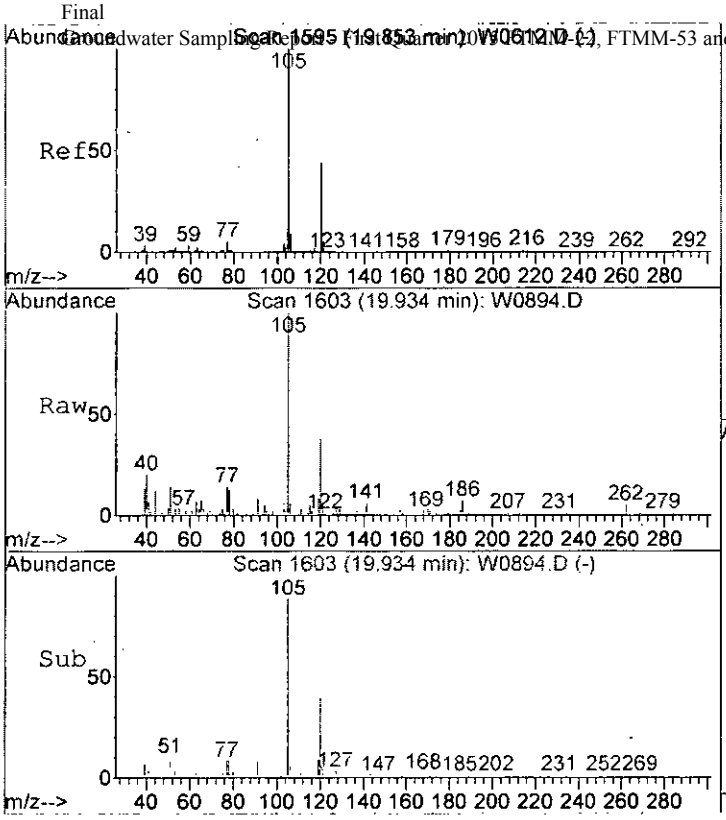


#96
1,3,5-Trimethylbenzene
Concen: 0.45 ppb
RT: 19.13 min Scan# 1521
Delta R.T. 0.07 min
Lab File: W0894.D
Acq: 3 Apr 2015 5:04 pm

Tgt Ion:105 Resp: 13577

Ion	Ratio	Lower	Upper
105	100		
120	47.1	33.7	73.7

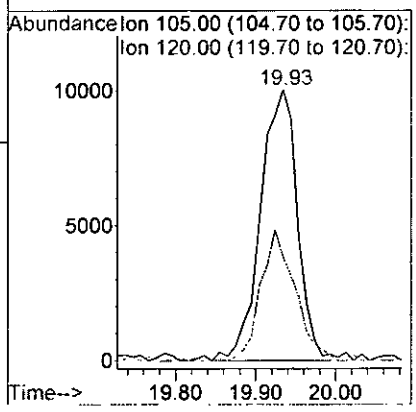




1,2,4-Trimethylbenzene
Concen: 1.06 ppb
RT: 19.93 min Scan# 1603
Delta R.T. 0.08 min
Lab File: W0894.D
Acq: 3 Apr 2015 5:04 pm

Tgt Ion:105 Resp: 32160

Ion	Ratio	Lower	Upper
105	100		
120	38.1	30.4	70.4



W0894.D W032315.M Wed Apr 08 15:24:26 2015 Page 5

LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D Vial: 14
Acq On : 3 Apr 2015 5:04 pm Operator: K.Ruest
Sample : R1502204-012|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

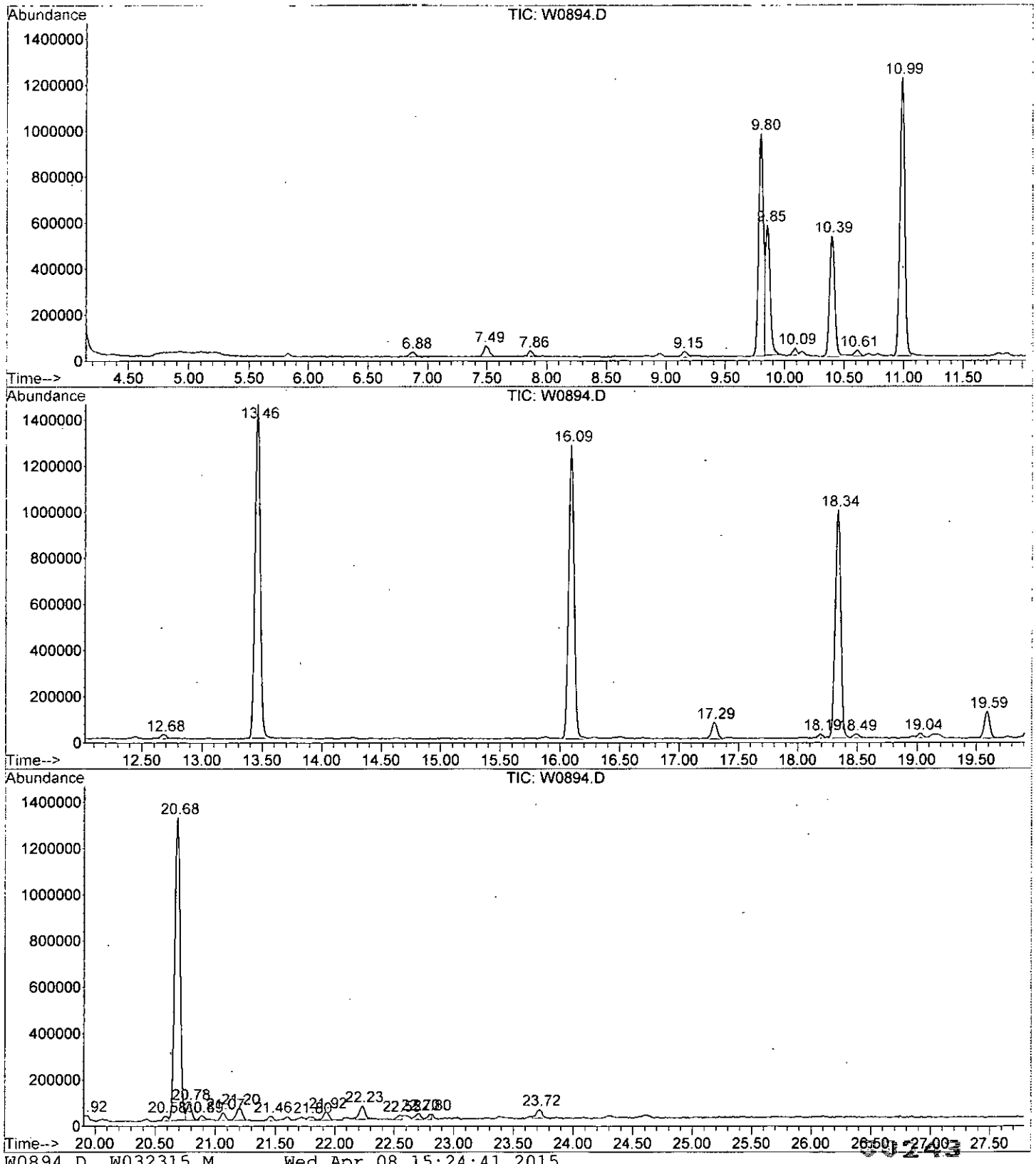
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.876	270	278	282	rBV6	20102	62023	1.43%	0.225%
2	7.487	334	340	348	rVB2	47086	159541	3.67%	0.578%
3	7.862	375	378	384	rVB2	25494	67572	1.55%	0.245%
4	9.153	503	509	515	rBV5	23096	76743	1.77%	0.278%
5	9.803	567	575	578	rBV	967743	2848764	65.54%	10.323%
6	9.852	578	580	590	rVB	564349	1438511	33.09%	5.213%
7	10.089	600	604	607	rBV	32589	71336	1.64%	0.258%
8	10.394	625	635	643	rBV	524907	1570270	36.13%	5.690%
9	10.611	652	657	662	rVB2	25218	75091	1.73%	0.272%
10	10.986	688	695	703	rBV	1209911	3434350	79.01%	12.445%
11	12.681	861	867	873	rVB5	17020	59486	1.37%	0.216%
12	13.459	938	946	964	rVB	1447615	4346686	100.00%	15.751%
13	16.091	1205	1213	1228	rBV	1273354	4055812	93.31%	14.697%
14	17.293	1329	1335	1343	rVB2	72370	237153	5.46%	0.859%
15	18.190	1421	1426	1430	rBV4	18923	48911	1.13%	0.177%
16	18.338	1433	1441	1452	rVV	987313	3199674	73.61%	11.594%
17	18.485	1452	1456	1463	rVB7	15488	54583	1.26%	0.198%
18	19.037	1507	1512	1517	rVB2	19883	59974	1.38%	0.217%
19	19.589	1561	1568	1579	rVB	115832	375908	8.65%	1.362%
20	19.924	1599	1602	1606	rBV4	20845	57534	1.32%	0.208%
21	20.585	1665	1669	1672	rBV3	19882	52809	1.21%	0.191%
22	20.683	1672	1679	1686	rVV	1308314	3986038	91.70%	14.444%
23	20.782	1686	1689	1696	rVB	72363	192358	4.43%	0.697%
24	20.890	1696	1700	1704	rBV3	18365	53287	1.23%	0.193%
25	21.067	1712	1718	1724	rBV2	33891	93279	2.15%	0.338%
26	21.196	1724	1731	1738	rVV6	52515	185538	4.27%	0.672%
27	21.462	1754	1758	1762	rVB6	18858	51914	1.19%	0.188%
28	21.797	1788	1792	1798	rVB6	14528	53302	1.23%	0.193%
29	21.925	1798	1805	1811	rBV2	35477	113315	2.61%	0.411%
30	22.230	1830	1836	1845	rVB3	57996	195204	4.49%	0.707%
31	22.546	1862	1868	1870	rBV7	20278	61363	1.41%	0.222%
32	22.703	1878	1884	1888	rVB3	25019	78978	1.82%	0.286%
33	22.802	1888	1894	1895	rBV4	22535	53872	1.24%	0.195%
34	23.718	1981	1987	1993	rVB3	37385	125741	2.89%	0.456%

Sum of corrected areas: 27596920

W0894.D W032315.M Wed Apr 08 15:24:39 2015

00242

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   5:04 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-012|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 14
Quant File :W032315.RES (RTE Integrator)
```



W0894.D W032315.M Wed Apr 08 15:24:41 2015

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 5:04 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0894.D
Name: R1502204-012|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0894.D W032315.M Wed Apr 08 15:24:41 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1345
Date Received: 3/31/15
Date Analyzed: 4/3/15 17:40

Sample Name: FTMM-22-CW1MW29-10.85
Lab Code: R1502204-013

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	1.9	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

ALS Group USA, Corp. dba ALS Environmental
Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1345
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 17:40
Sample Name:	FTMM-22-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1502204-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	7.5		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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/3/15 17:40	
Dibromofluoromethane	110	85-115	4/3/15 17:40	
Toluene-d8	107	85-120	4/3/15 17:40	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1740

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

Sample Name:	FTMM-22-CW1MW29-10.85	**Units:**	µg/L
Lab Code:	R1502204-013	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D Vial: 15
Acq On : 3 Apr 2015 5:40 pm Operator: K.Ruest
Sample : R1502204-013|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:54 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	964969	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.99	114	1484936	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1361902	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	662647	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	525427	54.96	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.92%			
48) surr1,1,2-Diclethane	10.40	65	547173	56.78	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 113.56%			
70) surr3,Toluene-d8	13.46	98	1575672	53.29	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.58%			
71) surr2,bfb	18.34	95	688761	53.56	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.12%			
Target Compounds						Qvalue
15) Acetone	6.84	43	6886	1.90	ppb	# 61
~~24) Acrylonitrile~~	~~8.10~~	~~53~~	~~1022~~	~~0.33~~	~~ppb~~	~~# 1~~
54) Trichloroethene	11.48	95	72990	7.45	ppb	86

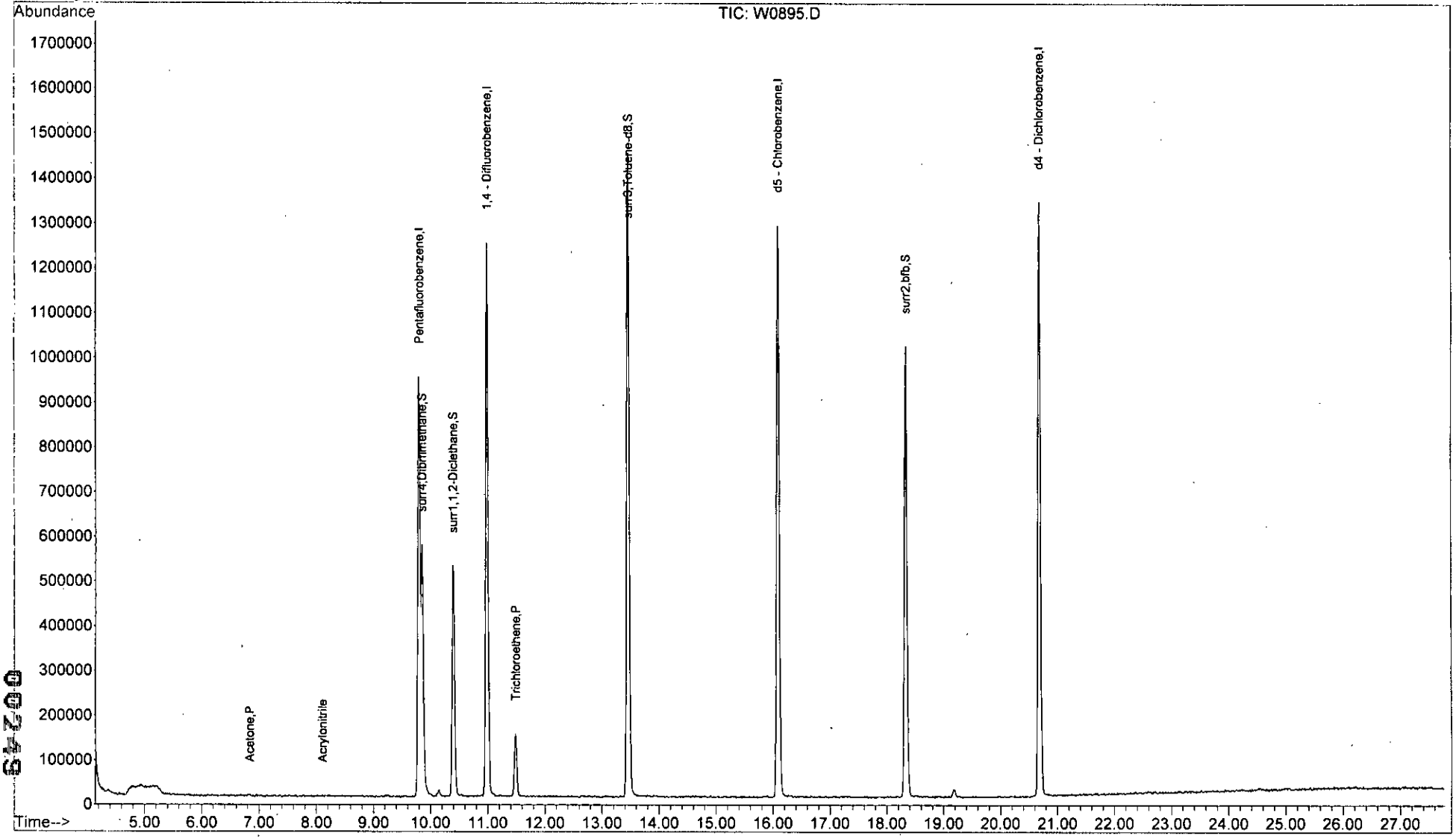
PR 4/9/15

(#) = qualifier out of range (m) = manual integration
W0895.D W032315.M Wed Apr 08 15:55:51 2015 Page 1

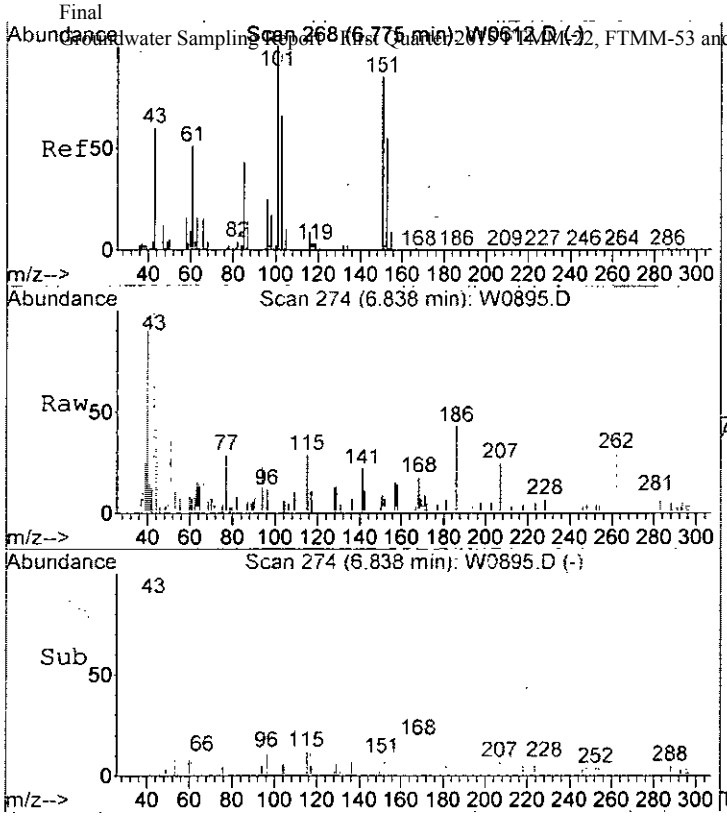
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D Vial: 15
Acq On : 3 Apr 2015 5:40 pm Operator: K.Ruest
Sample : R1502204-013|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 15:54 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



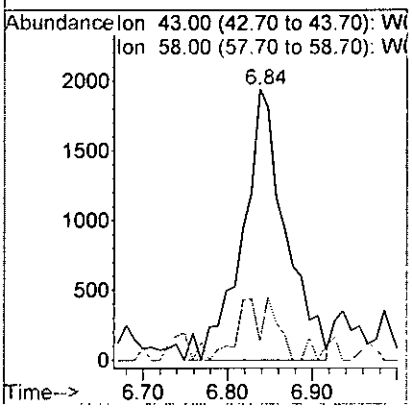
W0895.D W032315.M Wed Apr 08 15:55:53 2015

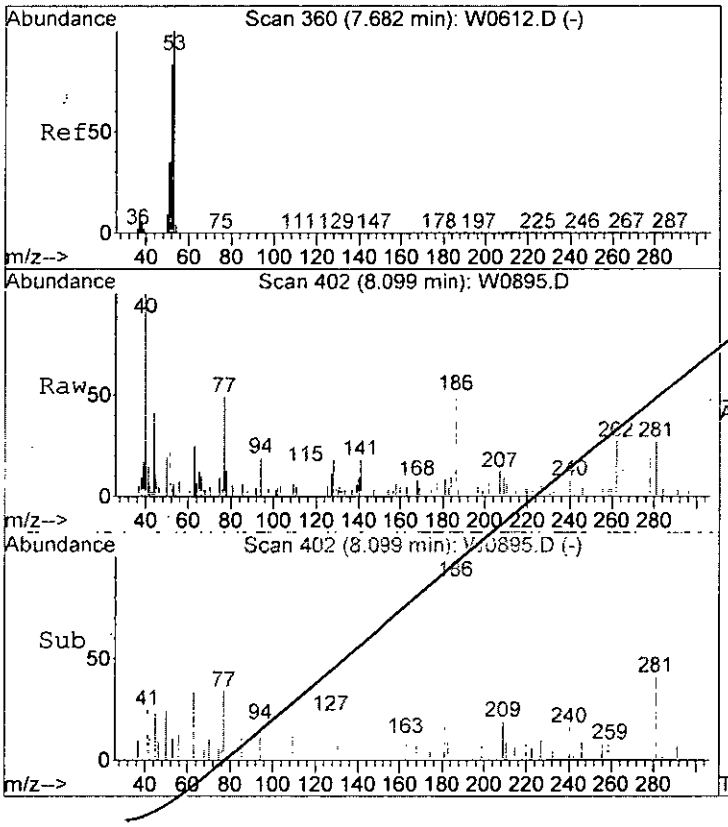


#15
Acetone
Concen: 1.90 ppb
RT: 6.84 min Scan# 274
Delta R.T. 0.06 min
Lab File: W0895.D
Acq: 3 Apr 2015 5:40 pm

Tgt Ion: 43 Resp: 6886

Ion	Ratio	Lower	Upper
43	100		
58	7.0	7.2	47.2#

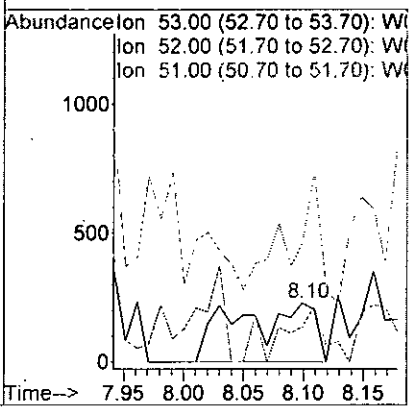




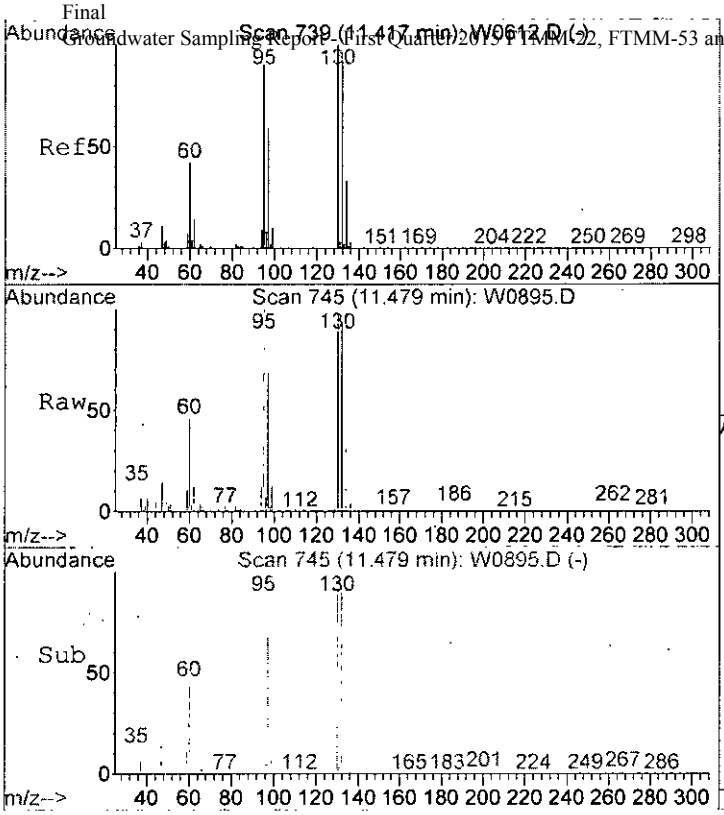
#24
Acrylonitrile
Concen: 0.33 ppb
RT: 8.10 min Scan# 402
Delta R.T. 0.42 min
Lab File: W0895.D
Acq: 3 Apr 2015 5:40 pm

Tgt Ion: 53 Resp: 1022

Ion	Ratio	Lower	Upper
53	100		
52	59.8	62.5	102.5#
51	200.9	14.8	54.8#



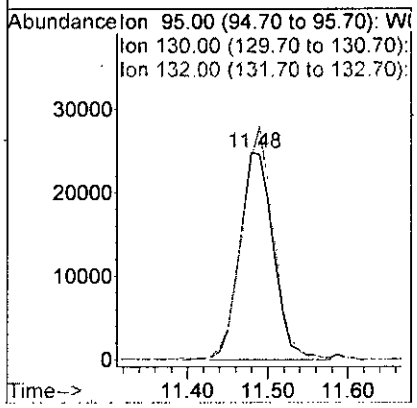
W0895.D W032315.M Wed Apr 08 15:55:55 2015



#54
Trichloroethene
Concen: 7.45 ppb
RT: 11.48 min Scan# 745
Delta R.T. 0.06 min
Lab File: W0895.D
Acq: 3 Apr 2015 5:40 pm

Tgt Ion: 95 Resp: 72990

Ion	Ratio	Lower	Upper
95	100		
130	96.7	91.2	131.2
132	92.2	86.3	126.3



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D Vial: 15
Acq On : 3 Apr 2015 5:40 pm Operator: K.Ruest
Sample : R1502204-013|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.758	55	63	64	rBV7	17150	57557	1.32%	0.227%
2	9.804	565	575	578	rBV	940886	2836599	65.13%	11.173%
3	9.853	578	580	592	rVB	560469	1430668	32.85%	5.635%
4	10.395	629	635	647	rBV	516373	1517964	34.86%	5.979%
5	10.987	688	695	710	rVB	1238350	3445746	79.12%	13.572%
6	11.489	738	746	752	rBV	141160	414212	9.51%	1.632%
7	13.460	938	946	959	rBV	1438925	4355040	100.00%	17.154%
8	16.092	1205	1213	1221	rBV	1278266	4028967	92.51%	15.870%
9	18.339	1429	1441	1450	rBV	1009383	3199307	73.46%	12.602%
10	19.176	1520	1526	1532	rBV5	17843	65734	1.51%	0.259%
11	20.684	1670	1679	1690	rBV	1328404	4036058	92.68%	15.898%

Sum of corrected areas: 25387852

W0895.D W032315.M Wed Apr 08 15:56:03 2015

00252

LSC Report - Integrated Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   5:40 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-013|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 15
Quant File :W032315.RES (RTE Integrator)
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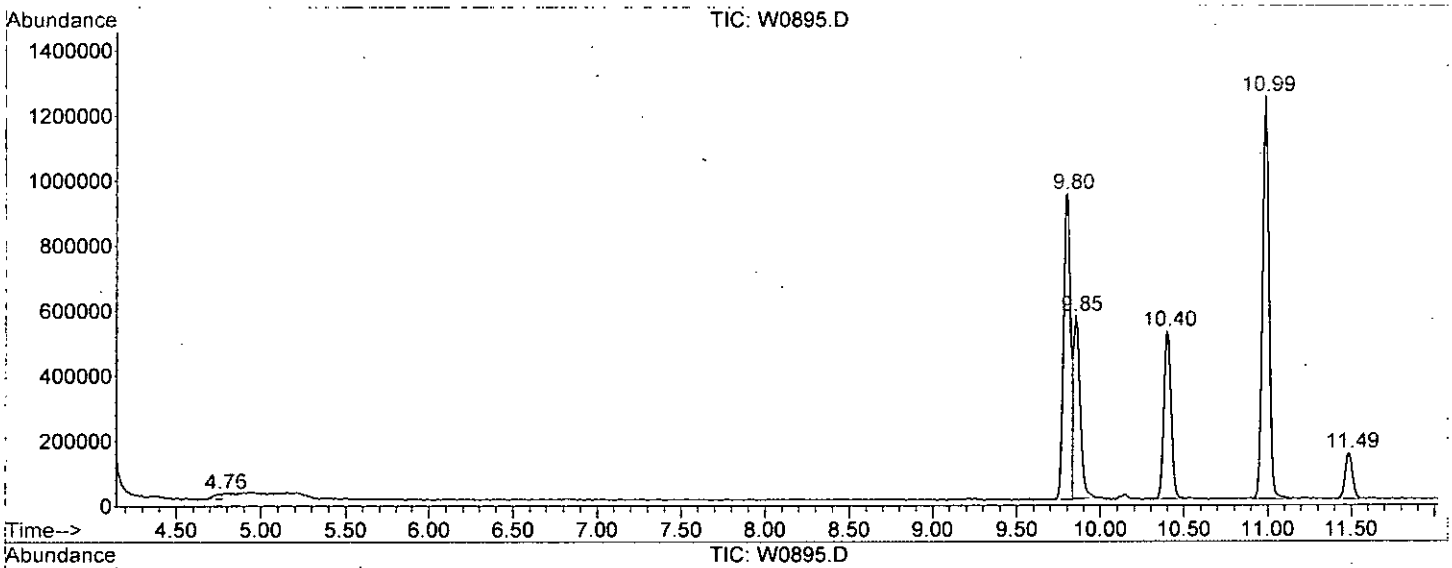
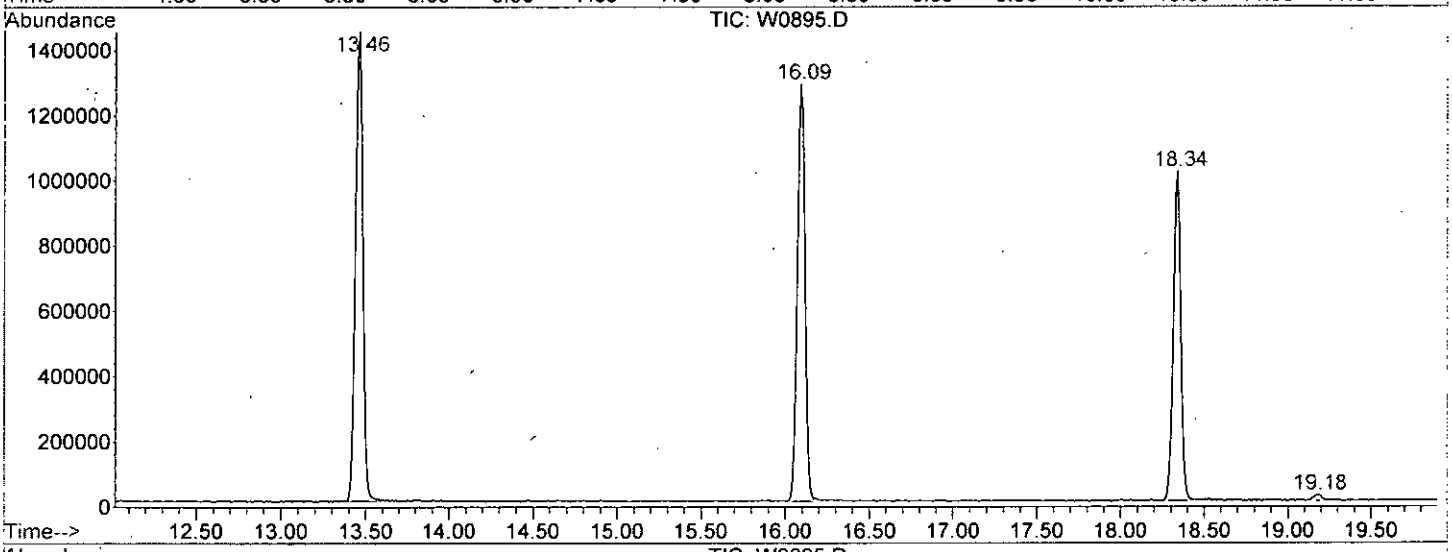
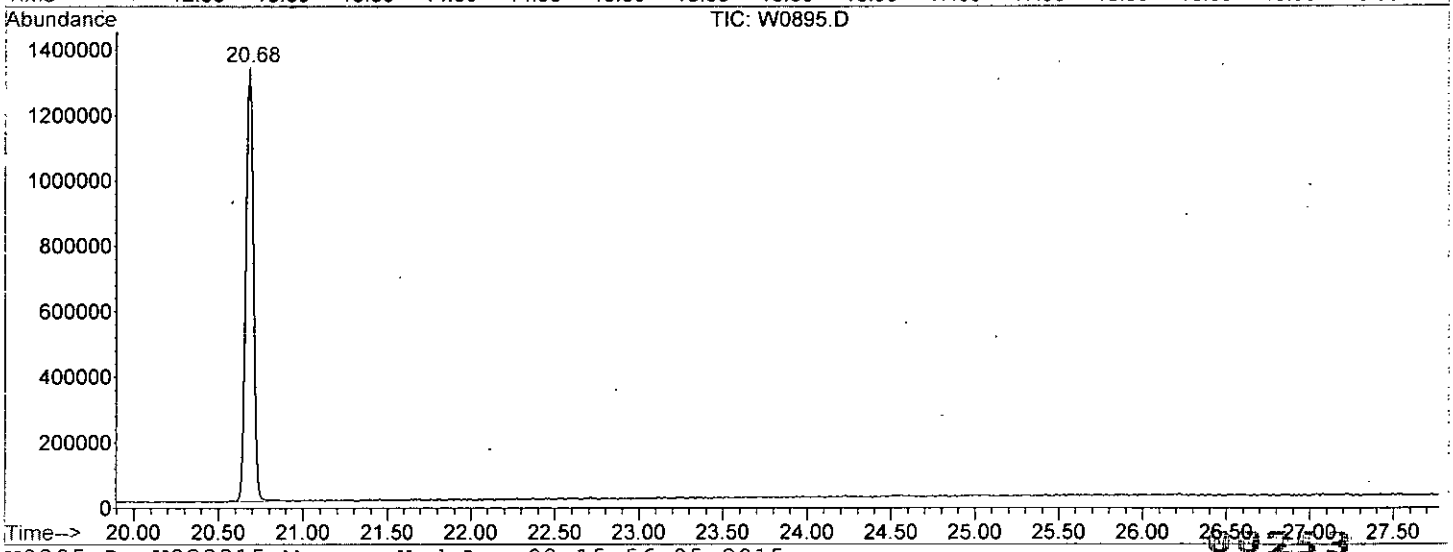






W0895.D W032315.M Wed Apr 08 15:56:05 2015

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 5:40 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0895.D
Name: R1502204-013|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0895.D W032315.M Wed Apr 08 15:56:05 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1340
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 18:15
Sample Name:	FTMM-22-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1502204-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.4**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1340
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 18:15
Sample Name:	FTMM-22-CW1MW37-11.78	**Units:**	µg/L
Lab Code:	R1502204-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 18:15	
Dibromofluoromethane	108	85-115	4/3/15 18:15	
Toluene-d8	108	85-120	4/3/15 18:15	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1815

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

Sample Name: FTMM-22-CW1MW37-11.78
Lab Code: R1502204-014

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D Vial: 16
Acq On : 3 Apr 2015 6:15 pm Operator: K.Ruest
Sample : R1502204-014|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:14 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	962606	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.98	114	1457079	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.10	117	1345803	50.00	ppb	0.08
90) d4 - Dichlorobenzene	20.68	152	673925	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	508748	54.24	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.48%			
48) surr1,1,2-Diclethane	10.39	65	550149	58.18	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 116.36%			
70) surr3,Toluene-d8	13.46	98	1576380	53.95	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.90%			
71) surr2,bfb	18.34	95	694438	54.65	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.30%			
Target Compounds						Qvalue
15) Acetone	6.83	43	8742	2.42	ppb	94

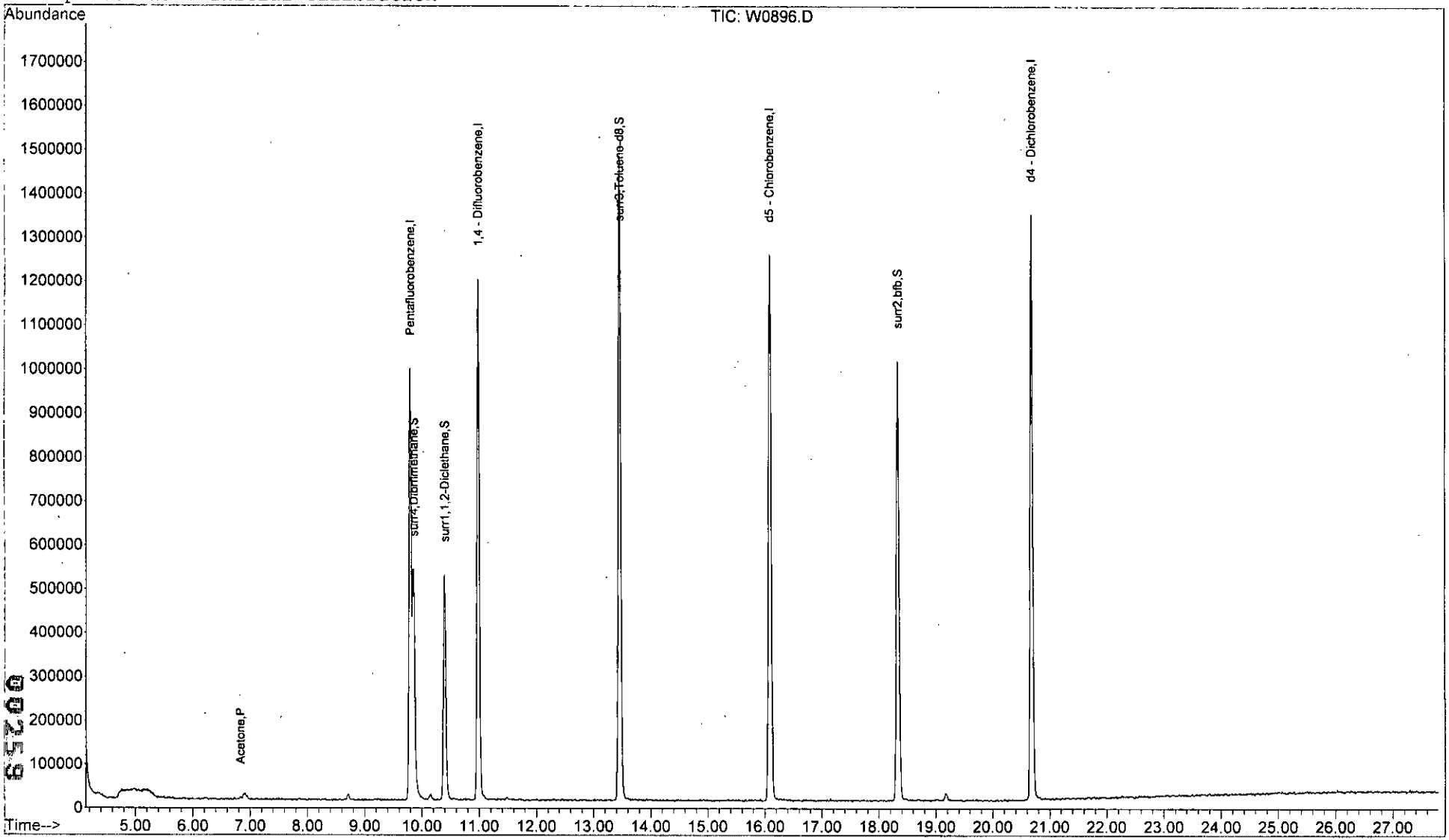
KR 4/8/15

(#) = qualifier out of range (m) = manual integration
W0896.D W032315.M Wed Apr 08 16:15:59 2015

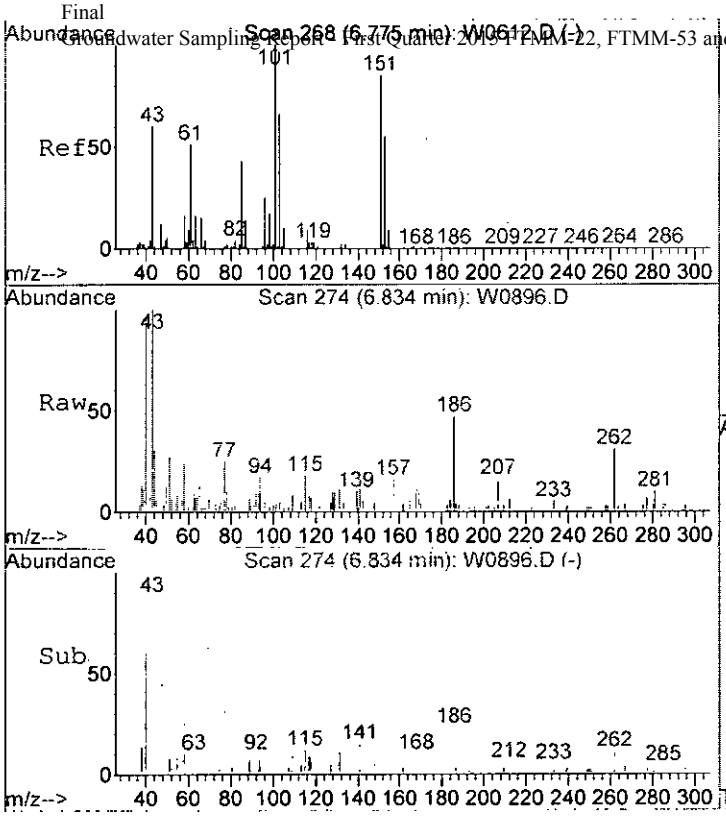
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D Vial: 16
Acq On : 3 Apr 2015 6:15 pm Operator: K.Ruest
Sample : R1502204-014|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:14 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



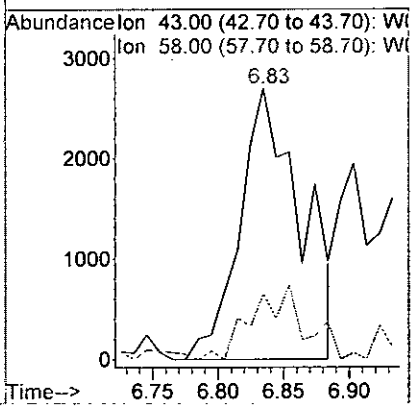
W0896.D W032315.M Wed Apr 08 16:16:01 2015



#15
Acetone
Concen: 2.42 ppb
RT: 6.83 min Scan# 274
Delta R.T. 0.06 min
Lab File: W0896.D
Acq: 3 Apr 2015 6:15 pm

Tgt Ion: 43 Resp: 8742

Ion	Ratio	Lower	Upper
43	100		
58	24.0	7.2	47.2



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D Vial: 16
Acq On : 3 Apr 2015 6:15 pm Operator: K.Ruest
Sample : R1502204-014|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.801	568	575	578	rBV	980662	2735633	62.91%	11.002%
2	9.860	578	581	593	rVB	521163	1471418	33.84%	5.917%
3	10.402	629	636	648	rBV	512792	1513013	34.79%	6.085%
4	10.983	685	695	704	rBV	1187353	3404434	78.29%	13.691%
5	13.457	938	946	958	rBV	1468127	4348464	100.00%	17.488%
6	16.088	1205	1213	1224	rBV	1244986	4055254	93.26%	16.309%
7	18.335	1430	1441	1453	rBV	1002114	3225817	74.18%	12.973%
8	19.173	1521	1526	1533	rBV5	15714	50916	1.17%	0.205%
9	20.681	1670	1679	1690	rBV	1335580	4060688	93.38%	16.331%

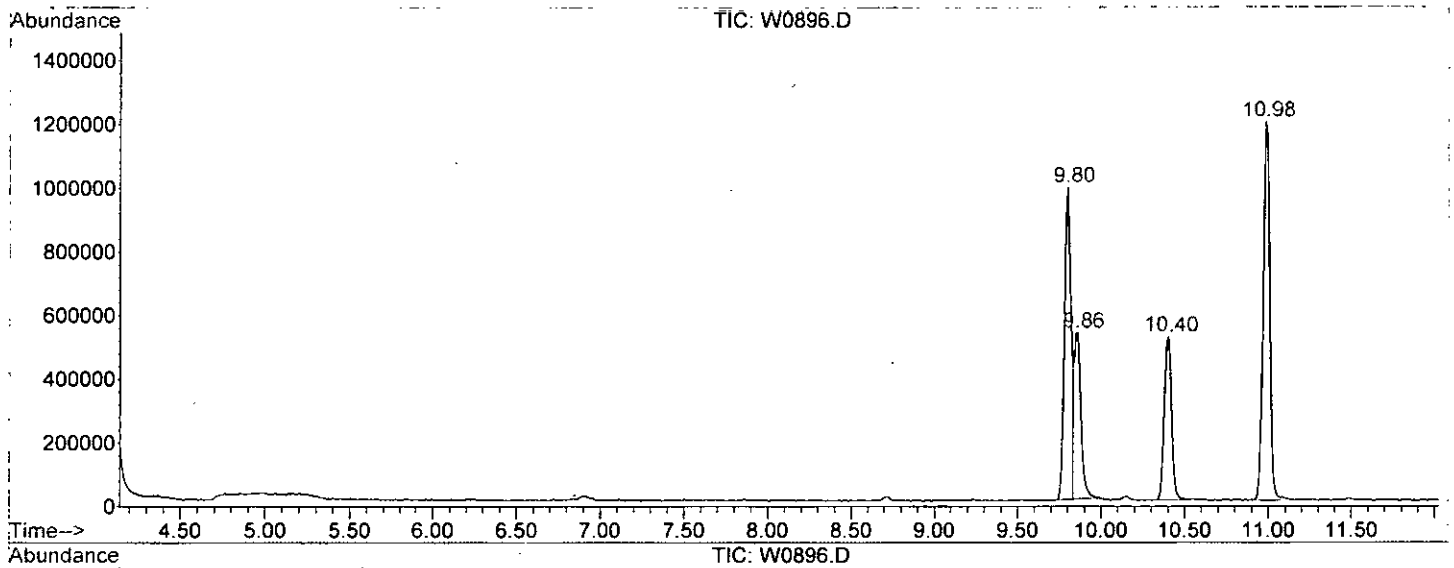
Sum of corrected areas: 24865637

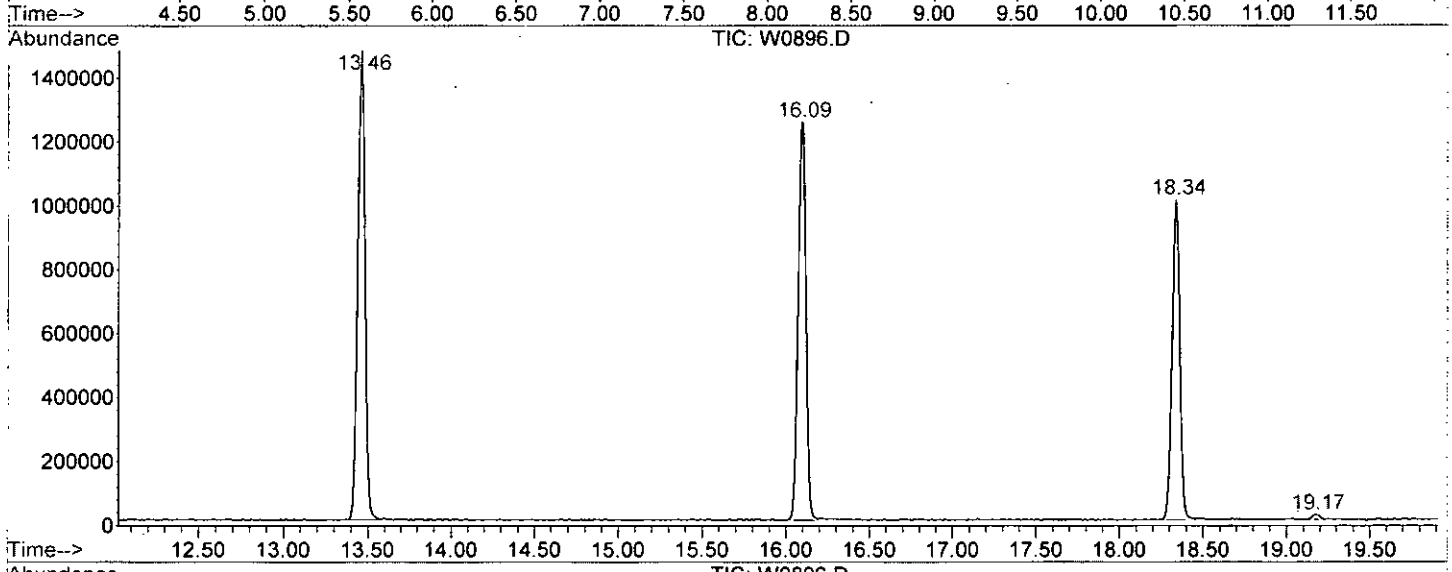
W0896.D W032315.M Wed Apr 08 16:16:28 2015

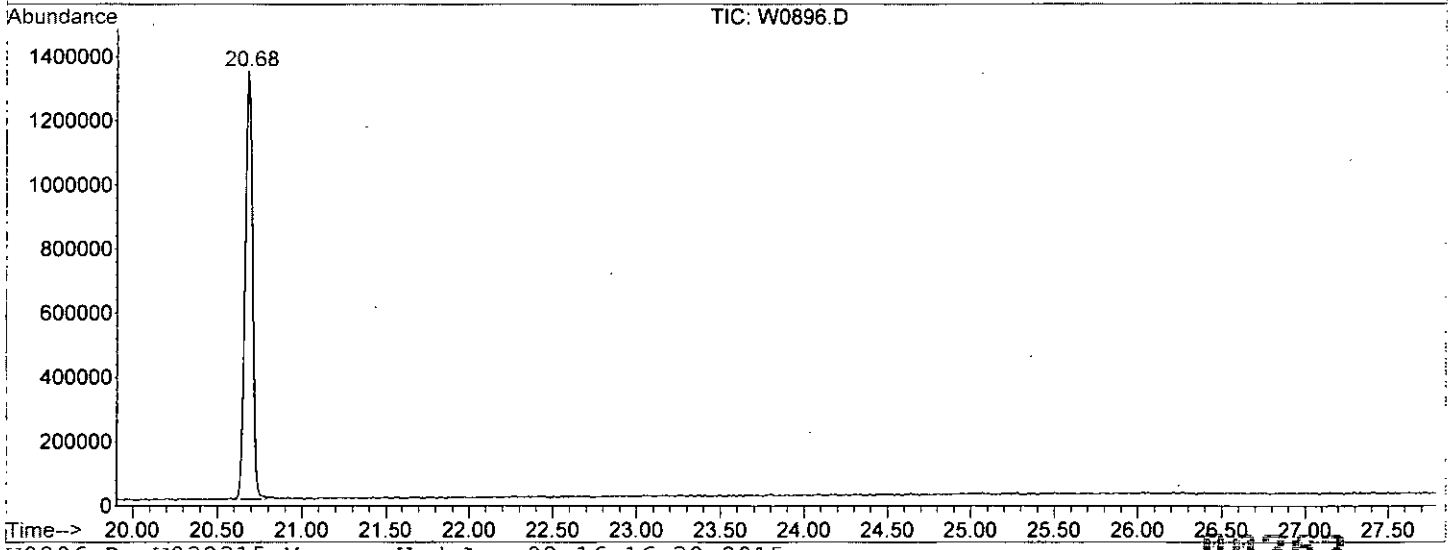
00261

Integrated EDM Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   6:15 pm using AcqMethod W032315
Instrument  :   MS #7
Sample Name: R1502204-014|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 16
Quant File :W032315.RES (RTE Integrator)
```







W0896.D W032315.M Wed Apr 08 16:16:30 2015

00252

Tentatively Identified Compound (TIC) summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 6:15 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0896.D
Name: R1502204-014|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0896.D W032315.M Wed Apr 08 16:16:30 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1335
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 18:51
Sample Name:	FTMM-22-CW1MW31-16.4	**Units:**	µg/L
Lab Code:	R1502204-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.5**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1335
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 18:51
Sample Name:	FTMM-22-CW1MW31-16.4	**Units:**	µg/L
Lab Code:	R1502204-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.37**	J	5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	5.0	1.0	0.20	
75-01-4	Vinyl Chloride	ND	U	5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	ND	U	5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	ND	U	5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	ND	U	10	2.0	0.33	
104-51-8	n-Butylbenzene	ND	U	5.0	1.0	0.21	
103-65-1	n-Propylbenzene	ND	U	5.0	1.0	0.20	
95-47-6	o-Xylene	ND	U	5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	ND	U	5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	ND	U	5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	4/3/15 18:51	
Dibromofluoromethane	109	85-115	4/3/15 18:51	
Toluene-d8	107	85-120	4/3/15 18:51	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/3/15 1851

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

Sample Name: FTMM-22-CW1MW31-16.4
Lab Code: R1502204-015

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D Vial: 17
Acq On : 3 Apr 2015 6:51 pm Operator: K.Ruest
Sample : R1502204-015|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:17 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	941474	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.99	114	1466786	50.00	ppb	0.07
64) d5 - Chlorobenzene	16.09	117	1337656	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	671568	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	513205	54.35	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.70%			
48) surr1,1,2-Diclethane	10.40	65	550094	57.79	ppb	0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 115.58%			
70) surr3,Toluene-d8	13.45	98	1547740	53.29	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.58%			
71) surr2,bfb	18.33	95	682929	54.07	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.14%			
Target Compounds						Qvalue
15) Acetone	6.84	43	8649	2.45	ppb	89
54) Trichloroethene	11.48	95	3614	0.37	ppb	# 61

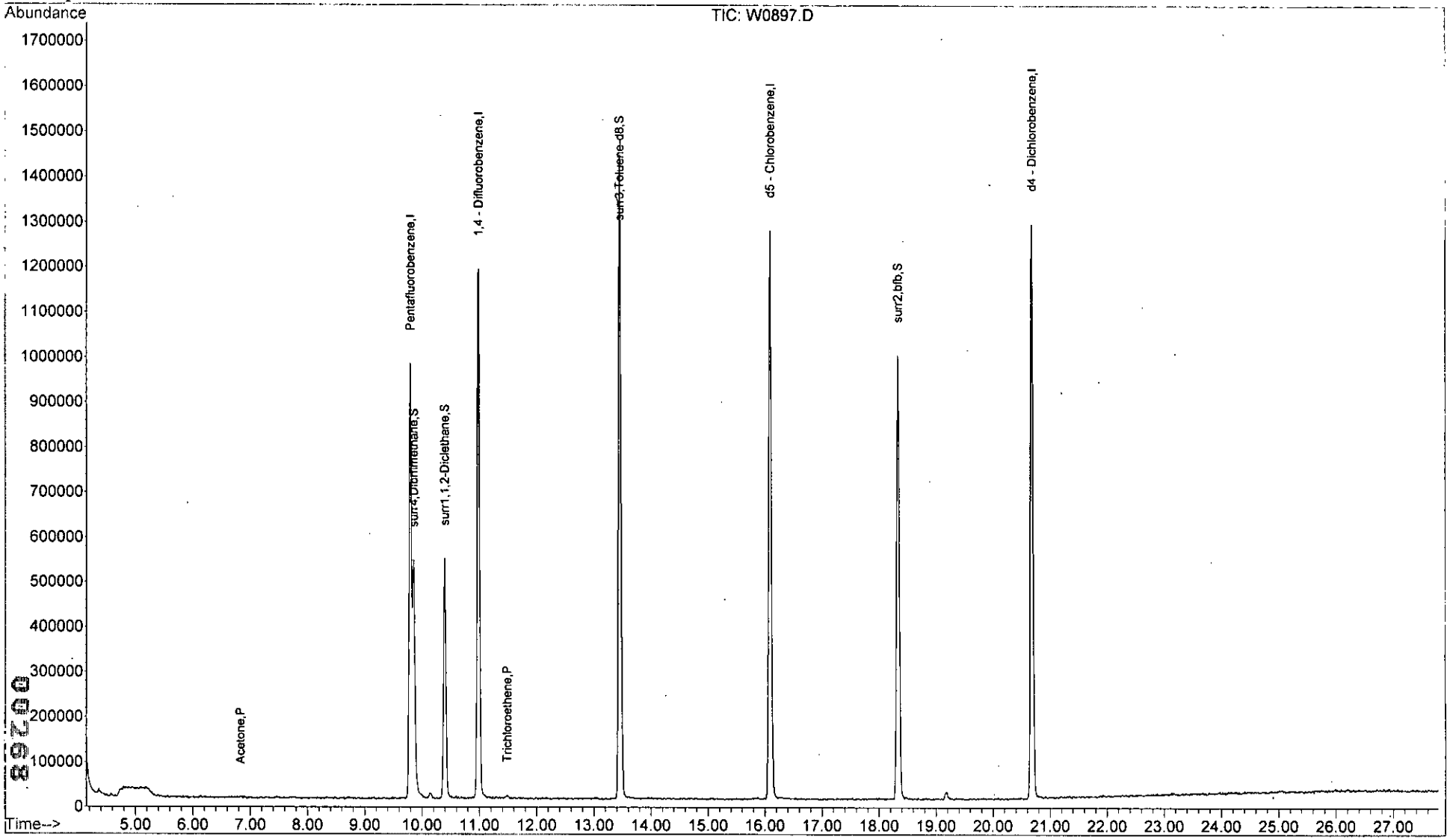
KR 4/8/15

(#) = qualifier out of range (m) = manual integration
W0897.D W032315.M Wed Apr 08 16:19:09 2015

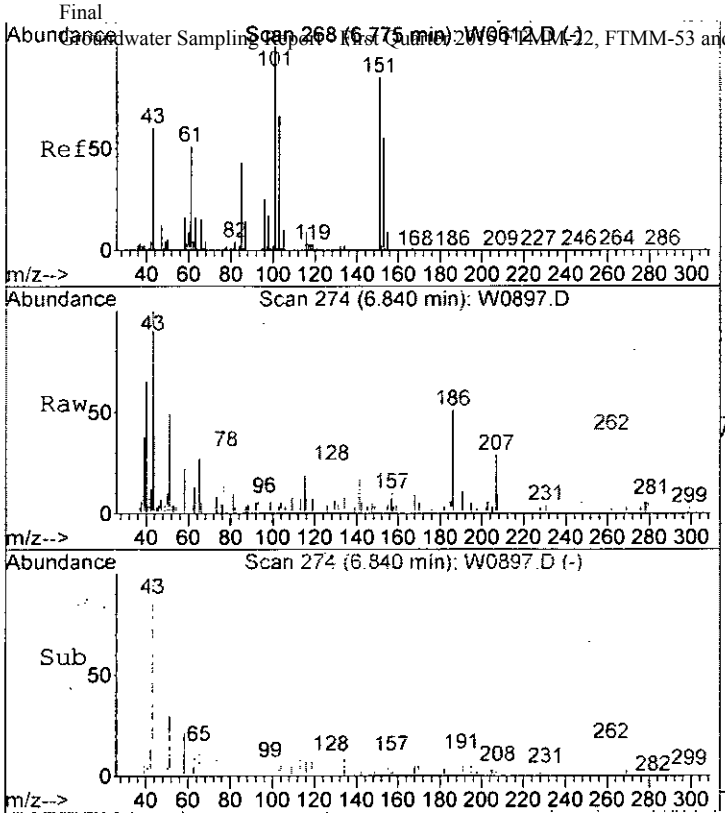
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D Vial: 17
Acq On : 3 Apr 2015 6:51 pm Operator: K.Ruest
Sample : R1502204-015|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:17 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



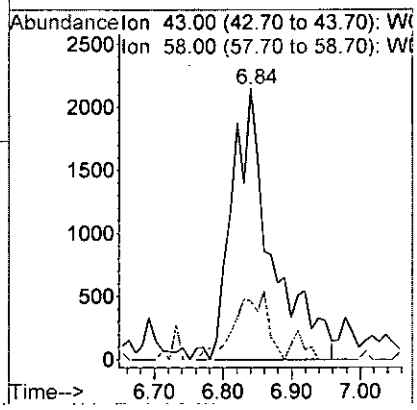
W0897.D W032315.M Wed Apr 08 16:19:11 2015

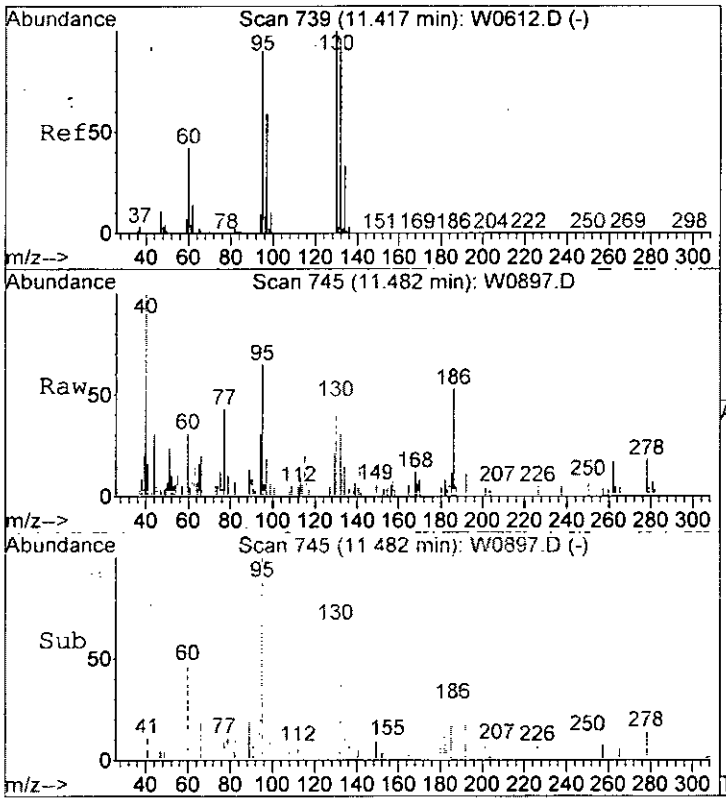


#15
Acetone
Concen: 2.45 ppb
RT: 6.84 min Scan# 274
Delta R.T. 0.07 min
Lab File: W0897.D
Acq: 3 Apr 2015 6:51 pm

Tgt Ion: 43 Resp: 8649

Ion	Ratio	Lower	Upper
43	100		
58	21.7	7.2	47.2

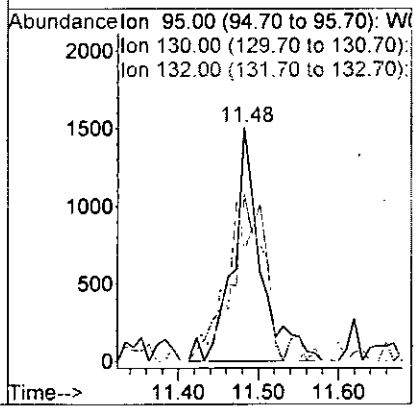




#54
Trichloroethene
Concen: 0.37 ppb
RT: 11.48 min Scan# 745
Delta R.T. 0.07 min
Lab File: W0897.D
Acq: 3 Apr 2015 6:51 pm

Tgt Ion: 95 Resp: 3614

Ion	Ratio	Lower	Upper
95	100		
130	71.5	91.2	131.2#
132	64.0	86.3	126.3#



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D Vial: 17
Acq On : 3 Apr 2015 6:51 pm Operator: K.Ruest
Sample : R1502204-015|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

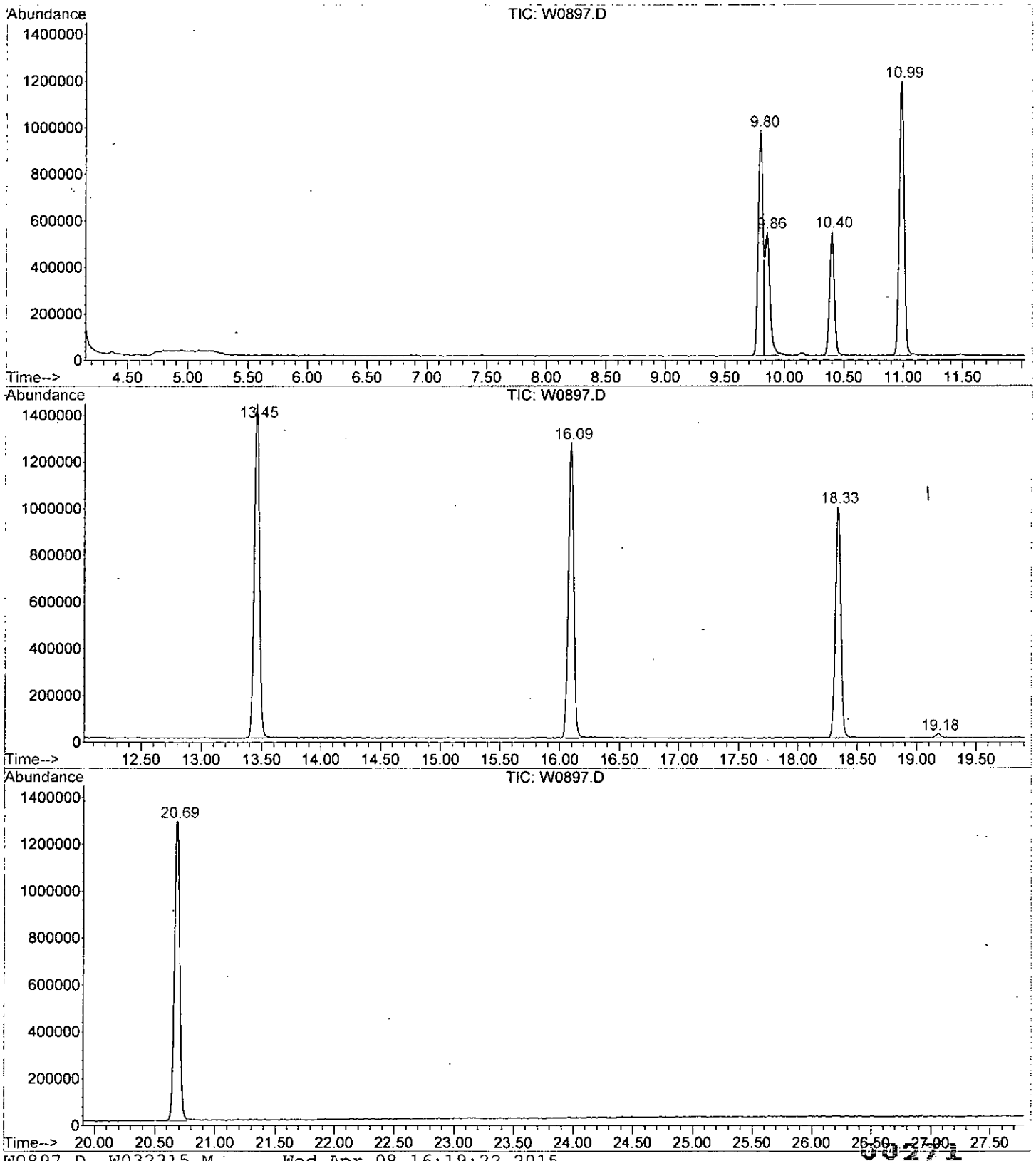
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.797	565	574	577	rBV	967465	2654246	62.40%	10.754%
2	9.856	577	580	597	rVB2	529435	1598657	37.58%	6.477%
3	10.398	627	635	644	rBV	534298	1507276	35.44%	6.107%
4	10.989	687	695	703	rBV	1175850	3390523	79.71%	13.737%
5	13.453	938	945	958	rBV	1429336	4253509	100.00%	17.233%
6	16.094	1205	1213	1222	rBV	1264870	4020620	94.52%	16.290%
7	18.331	1433	1440	1451	rBV	987655	3203023	75.30%	12.977%
8	19.179	1520	1526	1532	rBV6	18114	62689	1.47%	0.254%
9	20.687	1669	1679	1687	rBV	1278670	3991189	93.83%	16.171%

Sum of corrected areas: 24681732

W0897.D W032315.M Wed Apr 08 16:19:20 2015

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   6:51 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-015|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 17
Quant File :W032315.RES (RTE Integrator)
```



W0897.D W032315.M Wed Apr 08 16:19:22 2015

Tentatively Identified Compound (TIC) Summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 6:51 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0897.D
Name: R1502204-015|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0897.D W032315.M Wed Apr 08 16:19:22 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1330
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 19:27
Sample Name:	FTMM-22-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1502204-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.1**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1330
Date Received: 3/31/15
Date Analyzed: 4/3/15 19:27

Sample Name: FTMM-22-CW1MW27-12.63
Lab Code: R1502204-016

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D\

Analysis Lot: 439004
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**0.29**	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 19:27	
Dibromofluoromethane	110	85-115	4/3/15 19:27	
Toluene-d8	105	85-120	4/3/15 19:27	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 1927

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

Sample Name:	FTMM-22-CW1MW27-12.63	**Units:**	µg/L
Lab Code:	R1502204-016	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D Vial: 18
Acq On : 3 Apr 2015 7:27 pm Operator: K.Ruest
Sample : R1502204-016|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:20 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	938688	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.98	114	1460051	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1348449	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	678525	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	515870	54.88	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.76%			
48) surr1,1,2-Diclethane	10.40	65	550306	58.08	ppb	0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 116.16%			
70) surr3,Toluene-d8	13.46	98	1537029	52.50	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.00%			
71) surr2,bfb	18.33	95	693144	54.44	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.88%			
Target Compounds						Qvalue
15) Acetone	6.82	43	7231	2.05	ppb	97
54) Trichloroethene	11.49	95	2789	0.29	ppb #	56

KR 4/8/15

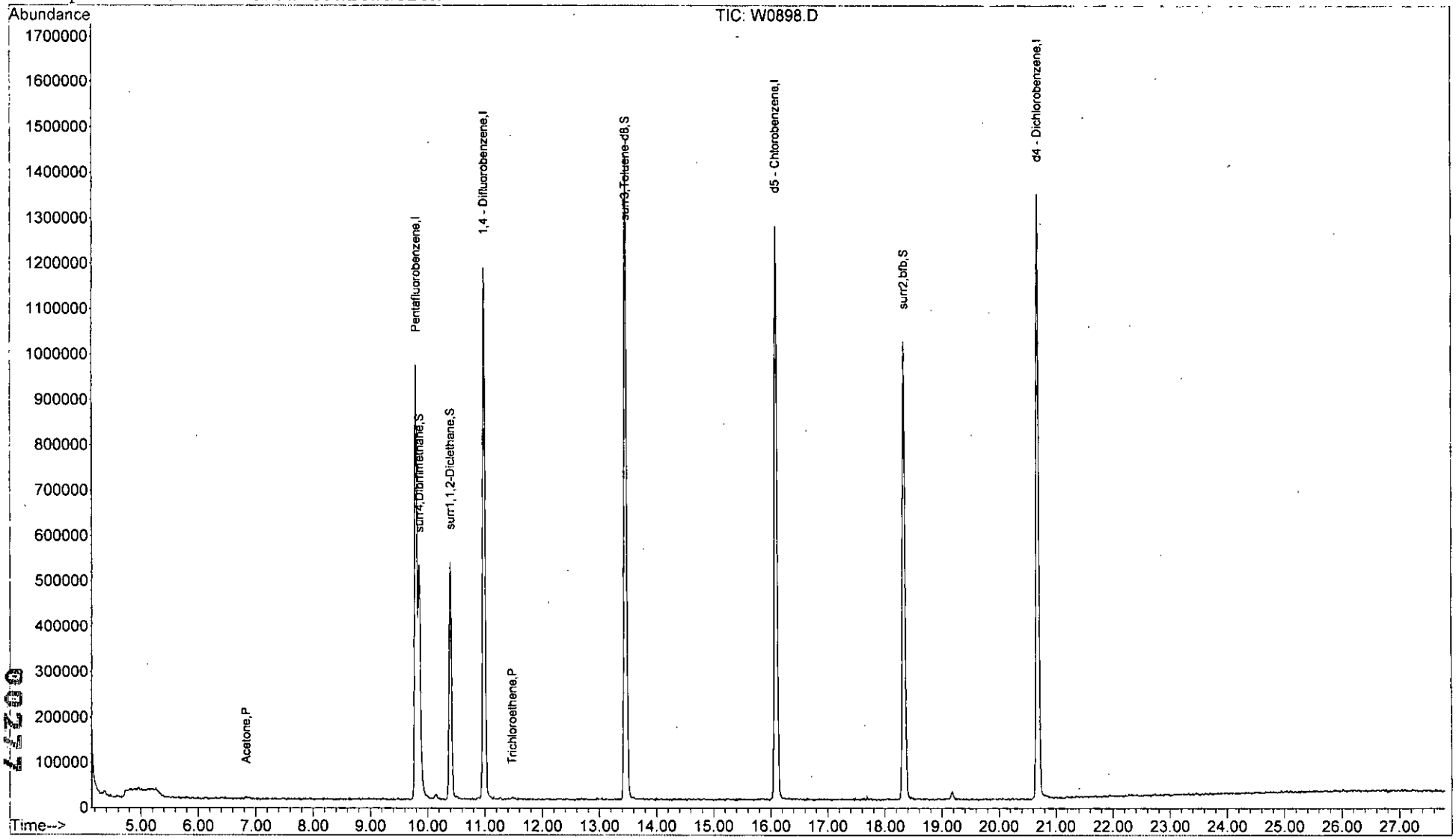
(#) = qualifier out of range (m) = manual integration
W0898.D W032315.M Wed Apr 08 16:21:54 2015

00276

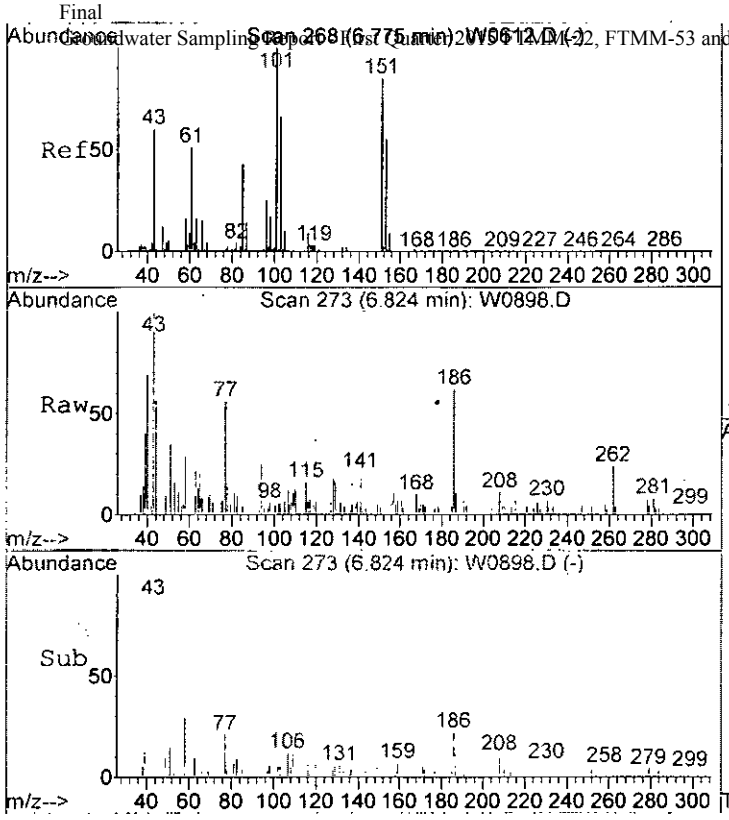
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D Vial: 18
Acq On : 3 Apr 2015 7:27 pm Operator: K.Ruest
Sample : R1502204-016|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:20 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



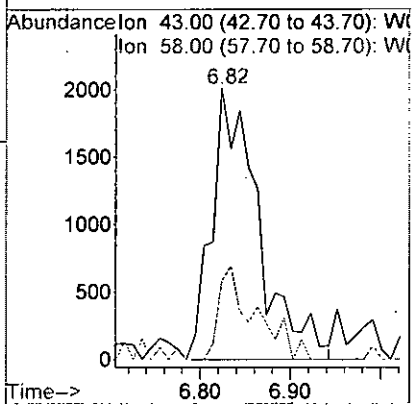
W0898.D W032315.M Wed Apr 08 16:21:56 2015 Page 2

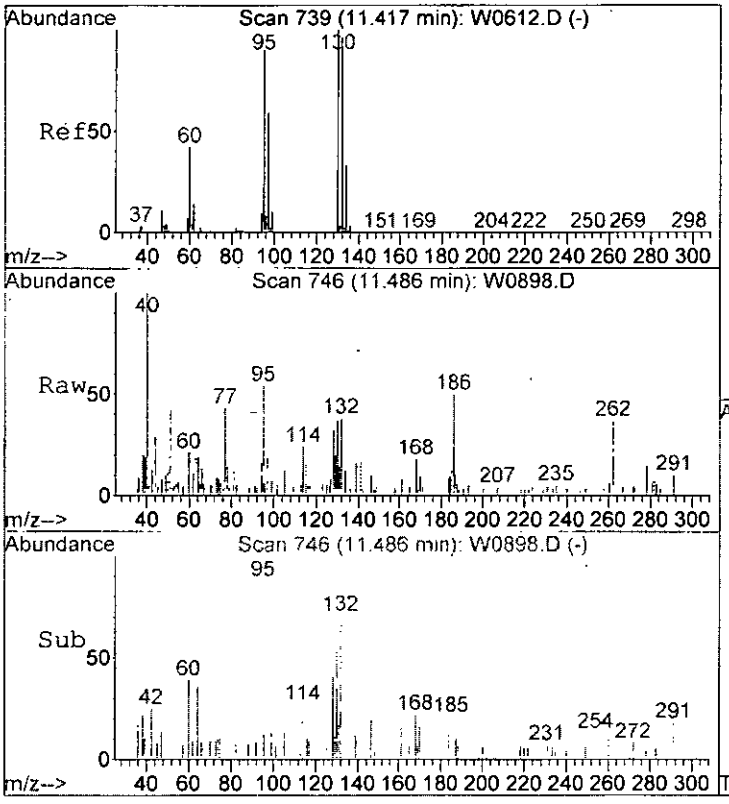


#15
Acetone
Concen: 2.05 ppb
RT: 6.82 min Scan# 273
Delta R.T. 0.05 min
Lab File: W0898.D
Acq: 3 Apr 2015 7:27 pm

Tgt Ion: 43 Resp: 7231

Ion	Ratio	Lower	Upper
43	100		
58	29.0	7.2	47.2

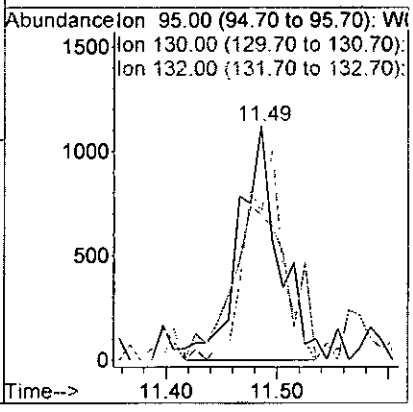




#54
Trichloroethene
Concen: 0.29 ppb
RT: 11.49 min Scan# 746
Delta R.T. 0.07 min
Lab File: W0898.D
Acq: 3 Apr 2015 7:27 pm

Tgt Ion: 95 Resp: 2789

Ion	Ratio	Lower	Upper
95	100		
130	62.1	91.2	131.2#
132	63.1	86.3	126.3#



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D Vial: 18
Acq On : 3 Apr 2015 7:27 pm Operator: K.Ruest
Sample : R1502204-016|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.257	112	114	124	rVB10	17729	69683	1.63%	0.281%
2	9.800	564	575	578	rBV	958414	2708494	63.23%	10.910%
3	9.860	578	581	593	rVB	510632	1469000	34.29%	5.917%
4	10.402	626	636	646	rBV	524046	1546895	36.11%	6.231%
5	10.983	688	695	711	rVB	1172286	3384284	79.00%	13.632%
6	13.457	937	946	956	rBV	1421315	4283826	100.00%	17.256%
7	16.088	1205	1213	1225	rBV	1263521	4004626	93.48%	16.131%
8	18.335	1433	1441	1452	rBV	1009616	3191531	74.50%	12.856%
9	19.183	1522	1527	1533	rVB6	19140	54423	1.27%	0.219%
10	20.680	1667	1679	1690	rBV	1333877	4112947	96.01%	16.567%

Sum of corrected areas: 24825709

W0898.D W032315.M Wed Apr 08 16:22:05 2015

LSC Report - Integrated Chromatogram

```
File       : I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D
Operator   : K.Ruest
Acquired   :  3 Apr 2015   7:27 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-016|1.0
Misc Info  : PARSONS 11603 T4 *DOD*
Vial Number: 18
Quant File :W032315.RES (RTE Integrator)
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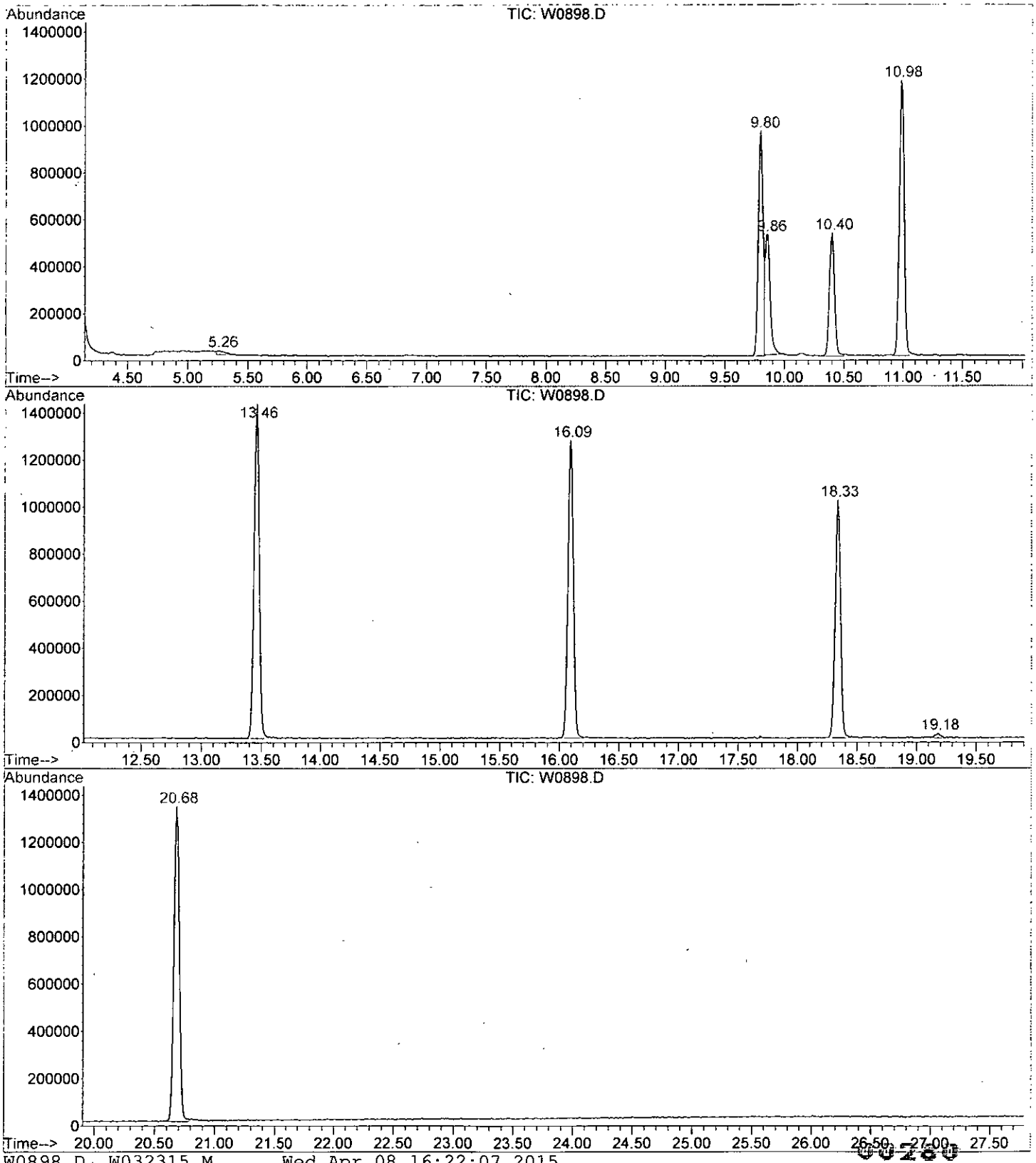


Operator ID: K.Ruest Date Acquired: 3 Apr 2015 7:27 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0898.D
Name: R1502204-016|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0898.D W032315.M Wed Apr 08 16:22:07 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1325
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 20:02
Sample Name:	FTMM-22-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1502204-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	ND	U	5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	ND	U	5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	ND	U	5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	ND	U	5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	ND	U	5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	ND	U	5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	ND	U	5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	ND	U	5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	ND	U	5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	ND	U	5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	ND	U	5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	ND	U	5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	ND	U	5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	ND	U	5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	ND	U	5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	ND	U	5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	ND	U	5.0	1.0	0.20	
591-78-6	2-Hexanone	ND	U	5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	ND	U	100	20	11	
106-43-4	4-Chlorotoluene	ND	U	5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	ND	U	5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	ND	U	5.0	1.0	0.67	
67-64-1	Acetone	**2.2**	J	5.0	5.0	1.3	
71-43-2	Benzene	ND	U	5.0	1.0	0.20	
108-86-1	Bromobenzene	ND	U	5.0	1.0	0.28	
74-97-5	Bromochloromethane	ND	U	5.0	1.0	0.32	
75-27-4	Bromodichloromethane	ND	U	5.0	1.0	0.32	
75-25-2	Bromoform	ND	U	5.0	1.0	0.42	
74-83-9	Bromomethane	ND	U	5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1325
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 20:02
Sample Name:	FTMM-22-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1502204-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	5.0	1.0	0.29	
75-00-3	Chloroethane	ND	U	5.0	1.0	0.24	
67-66-3	Chloroform	ND	U	5.0	1.0	0.25	
74-87-3	Chloromethane	ND	U	5.0	1.0	0.21	
124-48-1	Dibromochloromethane	ND	U	5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	5.0	1.0	0.46	
75-09-2	Methylene Chloride	ND	U	5.0	1.0	0.60	
100-41-4	Ethylbenzene	ND	U	5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	ND	U	5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	ND	U	5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	U	5.0	1.0	0.29	
91-20-3	Naphthalene	ND	U	5.0	1.0	0.20	
100-42-5	Styrene	ND	U	5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	ND	U	5.0	1.0	0.30	
108-88-3	Toluene	ND	U	5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**2.0**	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	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	75-120	4/3/15 20:02	
Dibromofluoromethane	108	85-115	4/3/15 20:02	
Toluene-d8	106	85-120	4/3/15 20:02	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/3/15 2002

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

Sample Name:	FTMM-22-CW1MW28-11.21	**Units:**	µg/L
Lab Code:	R1502204-017	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D Vial: 19
Acq On : 3 Apr 2015 8:02 pm Operator: K.Ruest
Sample : R1502204-017|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:23 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	957942	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.98	114	1453849	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.09	117	1337095	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	677524	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	506446	54.11	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.22%			
48) surr1,1,2-Diclethane	10.39	65	541899	57.43	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 114.86%			
70) surr3,Toluene-d8	13.46	98	1535768	52.90	ppb	0.07
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.80%			
71) surr2,bfb	18.34	95	697603	55.26	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.52%			
Target Compounds						Qvalue
15) Acetone	6.83	43	7937	2.21	ppb	79
54) Trichloroethene	11.49	95	19283	2.01	ppb	91

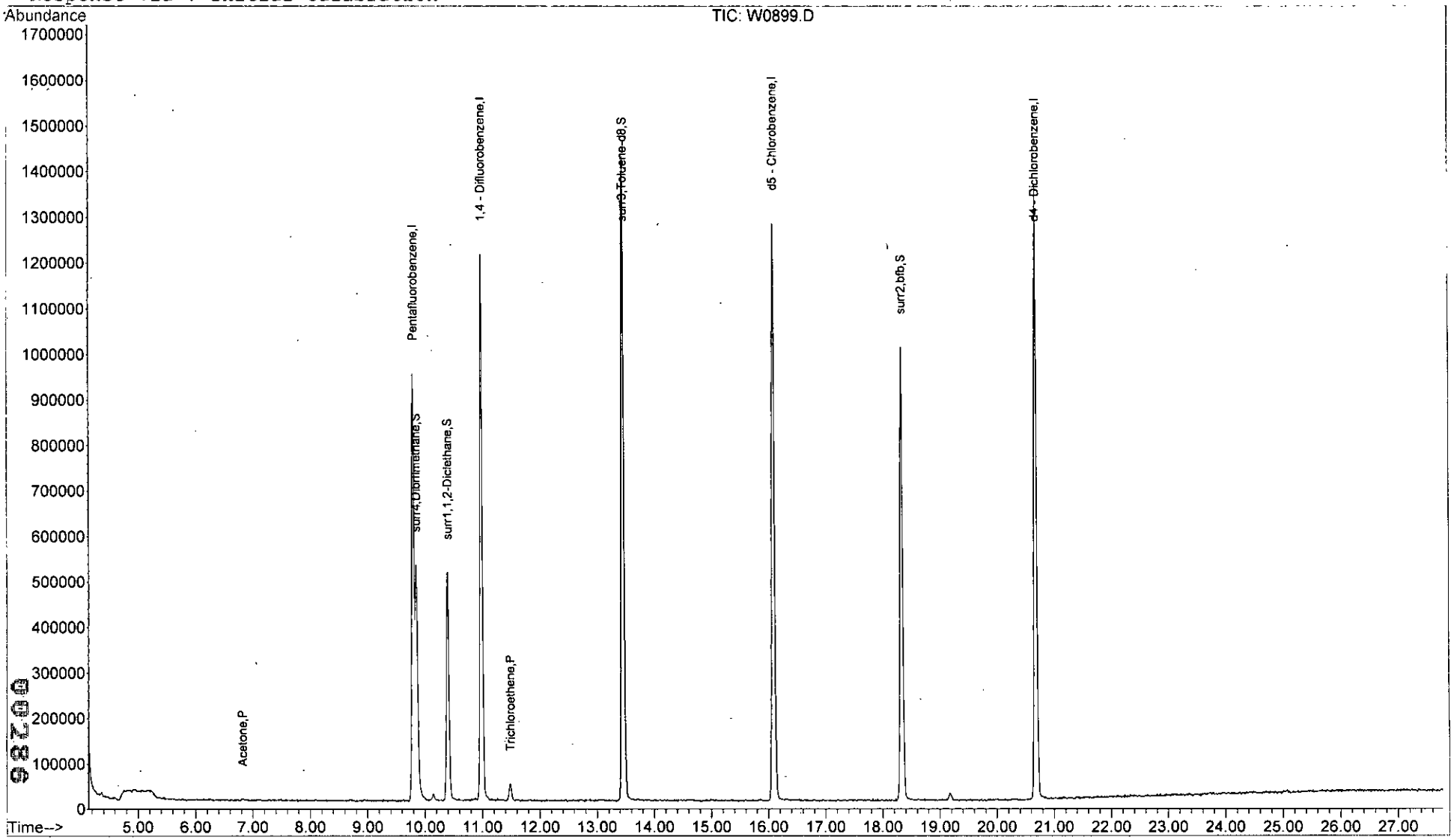
KP 4/16/15

(#) = qualifier out of range (m) = manual integration
W0899.D W032315.M Wed Apr 08 16:24:32 2015

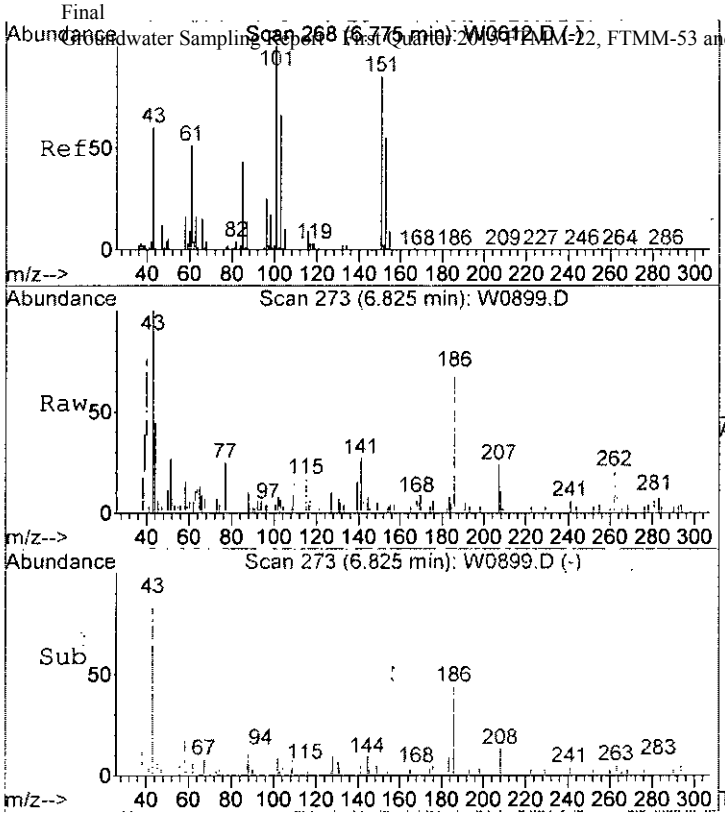
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D Vial: 19
Acq On : 3 Apr 2015 8:02 pm Operator: K.Ruest
Sample : R1502204-017|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 16:23 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



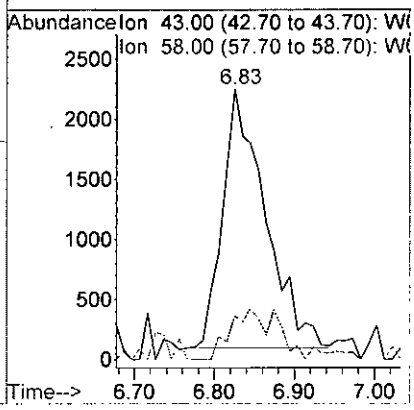
W0899.D W032315.M Wed Apr 08 16:24:34 2015 Page 2

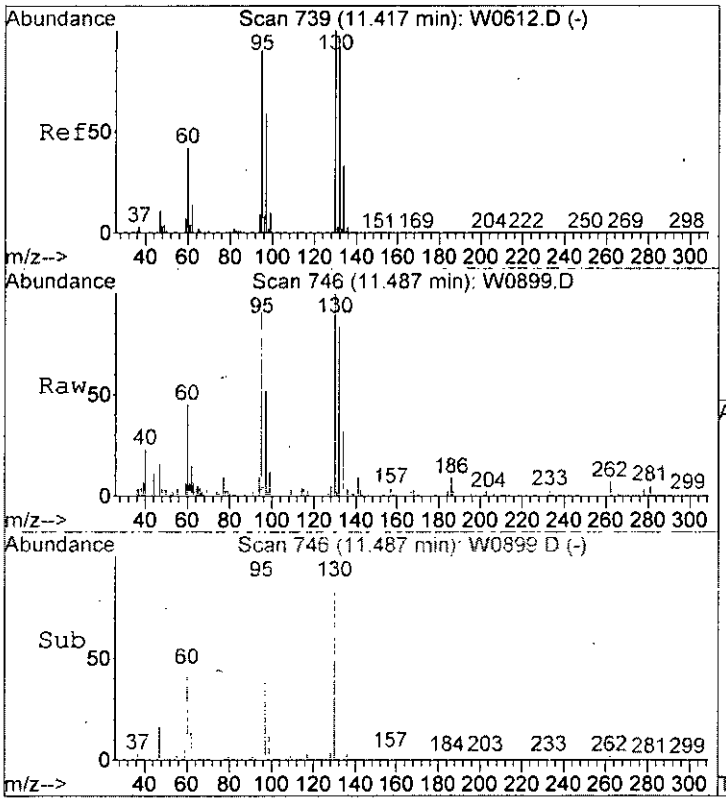


#15
Acetone
Concen: 2.21 ppb
RT: 6.83 min Scan# 273
Delta R.T. 0.05 min
Lab File: W0899.D
Acq: 3 Apr 2015 8:02 pm

Tgt Ion: 43 Resp: 7937

Ion	Ratio	Lower	Upper
43	100		
58	16.2	7.2	47.2

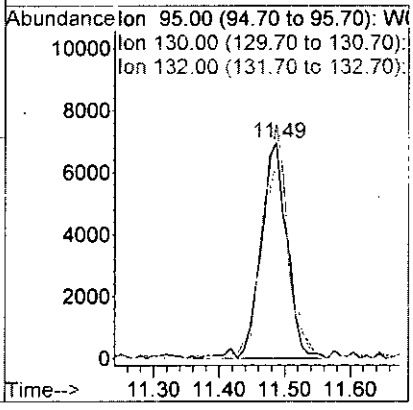




#54
Trichloroethene
Concen: 2.01 ppb
RT: 11.49 min Scan# 746
Delta R.T. 0.07 min
Lab File: W0899.D
Acq: 3 Apr 2015 8:02 pm

Tgt Ion: 95 Resp: 19283

Ion	Ratio	Lower	Upper
95	100		
130	108.7	91.2	131.2
132	90.6	86.3	126.3



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D Vial: 19
Acq On : 3 Apr 2015 8:02 pm Operator: K.Ruest
Sample : R1502204-017|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.756	55	63	64	rBV7	20681	64996	1.53%	0.260%
2	9.801	566	575	578	rBV	941392	2807746	65.96%	11.253%
3	9.851	578	580	600	rVB	519861	1479928	34.77%	5.931%
4	10.403	626	636	645	rBV	503632	1529914	35.94%	6.131%
5	10.984	688	695	709	rVB	1199580	3372124	79.22%	13.514%
6	11.487	738	746	754	rVB2	38287	121154	2.85%	0.486%
7	13.458	936	946	956	rBV	1416353	4256615	100.00%	17.059%
8	16.089	1202	1213	1231	rBV	1268076	4024919	94.56%	16.131%
9	18.336	1431	1441	1451	rBV	998234	3230611	75.90%	12.947%
10	19.174	1521	1526	1532	rBV5	15512	48639	1.14%	0.195%
11	20.682	1670	1679	1692	rBV	1347922	4015289	94.33%	16.092%

Sum of corrected areas: 24951935

W0899.D W032315.M Wed Apr 08 16:24:47 2015

LSC Report - Integrated Chromatogram

```
File        : I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D
Operator    : K.Ruest
Acquired    :  3 Apr 2015   8:02 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: R1502204-017|1.0
Misc Info   : PARSONS 11603 T4 *DOD*
Vial Number: 19
Quant File :W032315.RES (RTE Integrator)
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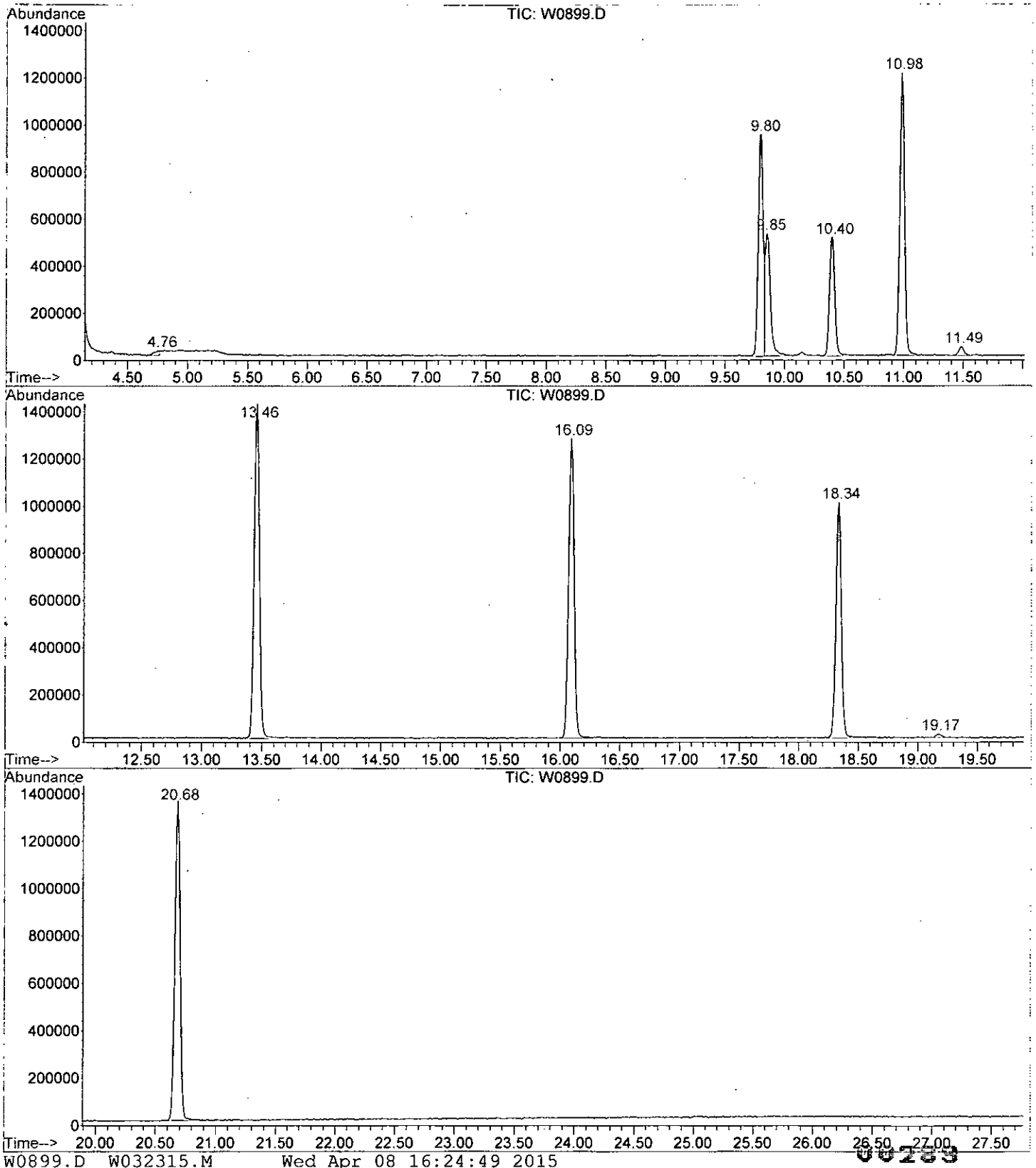


W0899.D W032315.M Wed Apr 08 16:24:49 2015

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 8:02 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0899.D
Name: R1502204-017|1.0
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0899.D W032315.M Wed Apr 08 16:24:49 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1320
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/7/15 16:26
Sample Name:	FTMM-22-CW1MW281-33.74	**Units:**	µg/L
Lab Code:	R1502204-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439385
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	ND	U	13	2.5	0.55	
71-55-6	1,1,1-Trichloroethane (TCA)	ND	U	13	2.5	0.90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	13	2.5	0.63	
79-00-5	1,1,2-Trichloroethane	ND	U	13	2.5	0.86	
75-34-3	1,1-Dichloroethane (1,1-DCA)	ND	U	13	2.5	0.50	
75-35-4	1,1-Dichloroethene (1,1-DCE)	ND	U	13	2.5	1.5	
563-58-6	1,1-Dichloropropene	ND	U	13	2.5	0.73	
87-61-6	1,2,3-Trichlorobenzene	ND	U	13	2.5	2.1	
96-18-4	1,2,3-Trichloropropane	ND	U	13	2.5	1.8	
120-82-1	1,2,4-Trichlorobenzene	ND	U	13	2.5	0.58	
95-63-6	1,2,4-Trimethylbenzene	ND	U	13	2.5	0.50	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	U	13	2.5	1.9	
106-93-4	1,2-Dibromoethane	ND	U	13	2.5	0.60	
95-50-1	1,2-Dichlorobenzene	ND	U	13	2.5	0.53	
107-06-2	1,2-Dichloroethane	ND	U	13	2.5	0.90	
78-87-5	1,2-Dichloropropane	ND	U	13	2.5	0.50	
108-67-8	1,3,5-Trimethylbenzene	ND	U	13	2.5	0.50	
541-73-1	1,3-Dichlorobenzene	ND	U	13	2.5	0.50	
142-28-9	1,3-Dichloropropane	ND	U	13	2.5	0.68	
106-46-7	1,4-Dichlorobenzene	ND	U	13	2.5	0.50	
594-20-7	2,2-Dichloropropane	ND	U	13	2.5	0.68	
78-93-3	2-Butanone (MEK)	ND	U	13	2.5	2.1	
95-49-8	2-Chlorotoluene	ND	U	13	2.5	0.50	
591-78-6	2-Hexanone	ND	U	13	13	4.2	
75-65-0	tert-Butyl Alcohol	ND	U	250	50	27	
106-43-4	4-Chlorotoluene	ND	U	13	2.5	0.60	
99-87-6	p-Isopropyltoluene	ND	U	13	2.5	0.50	
108-10-1	4-Methyl-2-pentanone	ND	U	13	2.5	1.7	
67-64-1	Acetone	ND	U	13	13	3.1	
71-43-2	Benzene	ND	U	13	2.5	0.50	
108-86-1	Bromobenzene	ND	U	13	2.5	0.71	
74-97-5	Bromochloromethane	ND	U	13	2.5	0.80	
75-27-4	Bromodichloromethane	ND	U	13	2.5	0.80	
75-25-2	Bromoform	ND	U	13	2.5	1.1	
74-83-9	Bromomethane	ND	U	13	2.5	0.73	
56-23-5	Carbon Tetrachloride	ND	U	13	2.5	1.2	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15 1320
Date Received: 3/31/15
Date Analyzed: 4/7/15 16:26

Sample Name: FTMM-22-CW1MW281-33.74
Lab Code: R1502204-018

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
Dilution Factor: 2.5

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	ND	U	13	2.5	0.73	
75-00-3	Chloroethane	ND	U	13	2.5	0.60	
67-66-3	Chloroform	ND	U	13	2.5	0.63	
74-87-3	Chloromethane	ND	U	13	2.5	0.53	
124-48-1	Dibromochloromethane	ND	U	13	2.5	0.78	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	U	13	2.5	1.2	
75-09-2	Methylene Chloride	ND	U	13	2.5	1.5	
100-41-4	Ethylbenzene	ND	U	13	2.5	0.50	
87-68-3	Hexachlorobutadiene	ND	U	13	2.5	1.6	
98-82-8	Isopropylbenzene (Cumene)	ND	U	13	2.5	0.50	
1634-04-4	Methyl tert-Butyl Ether	ND	U	13	2.5	0.73	
91-20-3	Naphthalene	ND	U	13	2.5	0.50	
100-42-5	Styrene	ND	U	13	2.5	0.50	
127-18-4	Tetrachloroethene (PCE)	**0.90**	J	13	2.5	0.75	
108-88-3	Toluene	ND	U	13	2.5	0.50	
79-01-6	Trichloroethene (TCE)	**250**		13	2.5	0.55	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	U	13	2.5	0.50	
75-01-4	Vinyl Chloride	**1.4**	J	13	2.5	0.80	
156-59-2	cis-1,2-Dichloroethene	**16**		13	2.5	0.75	
10061-01-5	cis-1,3-Dichloropropene	ND	U	13	2.5	0.60	
179601-23-1	m,p-Xylenes	ND	U	25	5.0	0.83	
104-51-8	n-Butylbenzene	ND	U	13	2.5	0.53	
103-65-1	n-Propylbenzene	ND	U	13	2.5	0.50	
95-47-6	o-Xylene	ND	U	13	2.5	0.50	
135-98-8	sec-Butylbenzene	ND	U	13	2.5	0.68	
98-06-6	tert-Butylbenzene	ND	U	13	2.5	0.50	
156-60-5	trans-1,2-Dichloroethene	ND	U	13	2.5	0.83	
10061-02-6	trans-1,3-Dichloropropene	ND	U	13	2.5	0.50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	75-120	4/7/15 16:26	
Dibromofluoromethane	106	85-115	4/7/15 16:26	
Toluene-d8	109	85-120	4/7/15 16:26	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: 3/30/15
Date Received: 3/31/15
Date Analyzed: 4/7/15 1626

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

Sample Name: FTMM-22-CW1MW281-33.74
Lab Code: R1502204-018

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D Vial: 13
Acq On : 7 Apr 2015 04:26 pm Operator: K.Ruest
Sample : R1502204-~~002~~2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 9:47 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.74	168	971766	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	10.93	114	1502762	50.00	ppb	0.00
64) d5 - Chlorobenzene	16.02	117	1301326	50.00	ppb	0.00
90) d4 - Dichlorobenzene	20.62	152	628345	50.00	ppb	0.01
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.79	113	513646	53.09	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.18%			
48) surr1,1,2-Diclethane	10.34	65	534189	54.77	ppb	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.54%			
70) surr3,Toluene-d8	13.39	98	1545100	54.68	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.36%			
71) surr2,bfb	18.27	95	649915	52.90	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.80%			
Target Compounds						Qvalue
4) Vinyl Chloride	4.94	62	6840m	0.57	ppb	
14) 1,1-Diclethene	6.81	96	2059	0.24	ppb	# 86
35) cis-1,2-Dichloroethene	9.16	96	73071	6.58	ppb	95
54) Trichloroethene	11.42	95	986932	99.53	ppb	99
72) Tetrachloroethene	14.51	166	3512	0.36	ppb	# 80

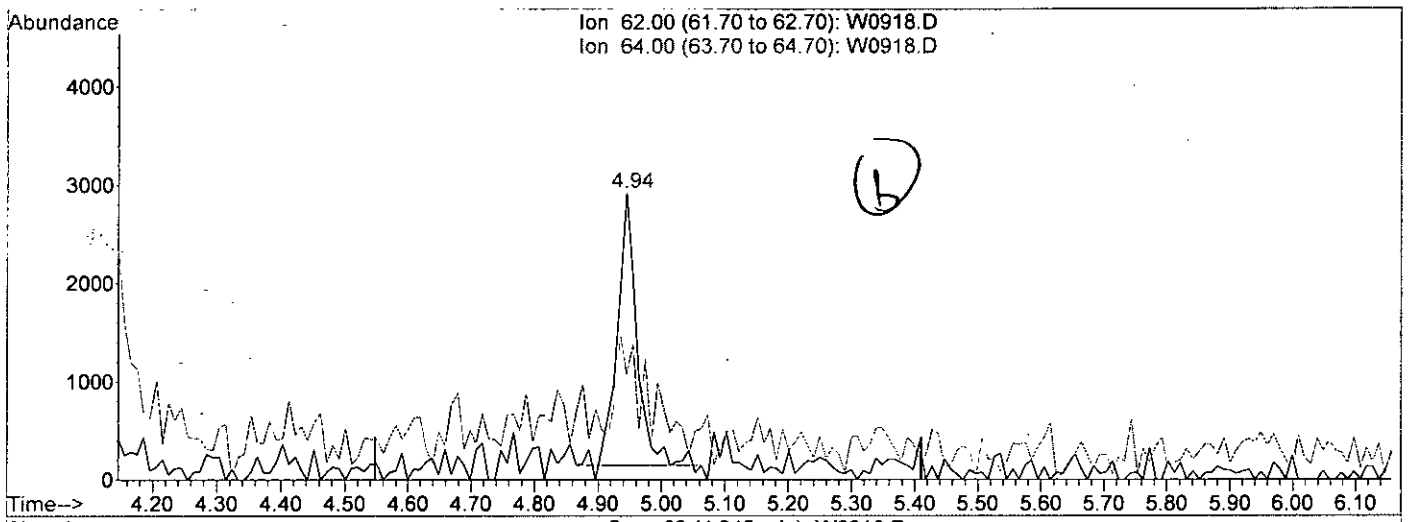
KP 4/6/15

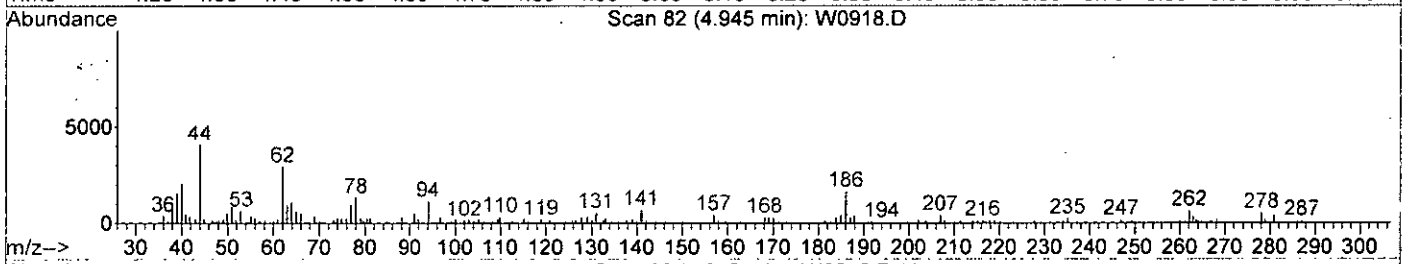
(#) = qualifier out of range (m) = manual integration
W0918.D W032315.M Wed Apr 08 09:55:55 2015

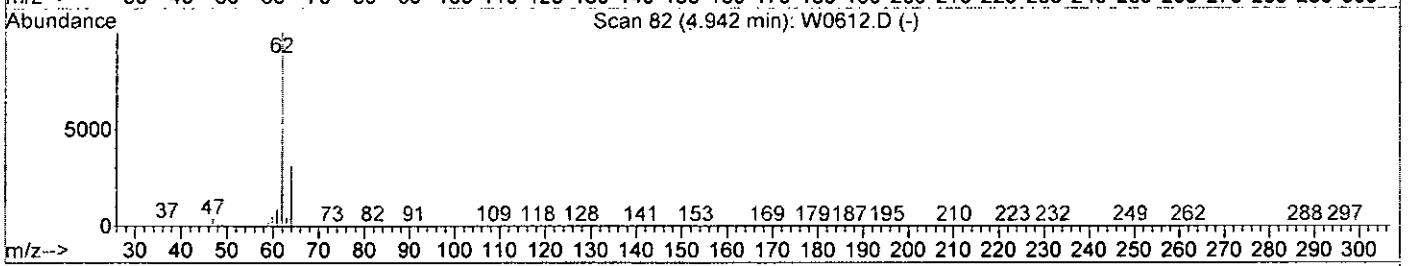
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D Vial: 13
Acq On : 7 Apr 2015 0456 4:26 pm Operator: K.Ruest
Sample : R1502204-~~002~~|2.5 (2) Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 16:51 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0918.D

(4) Vinyl Chloride (P)

4.94min 0.50ppb

response 5930

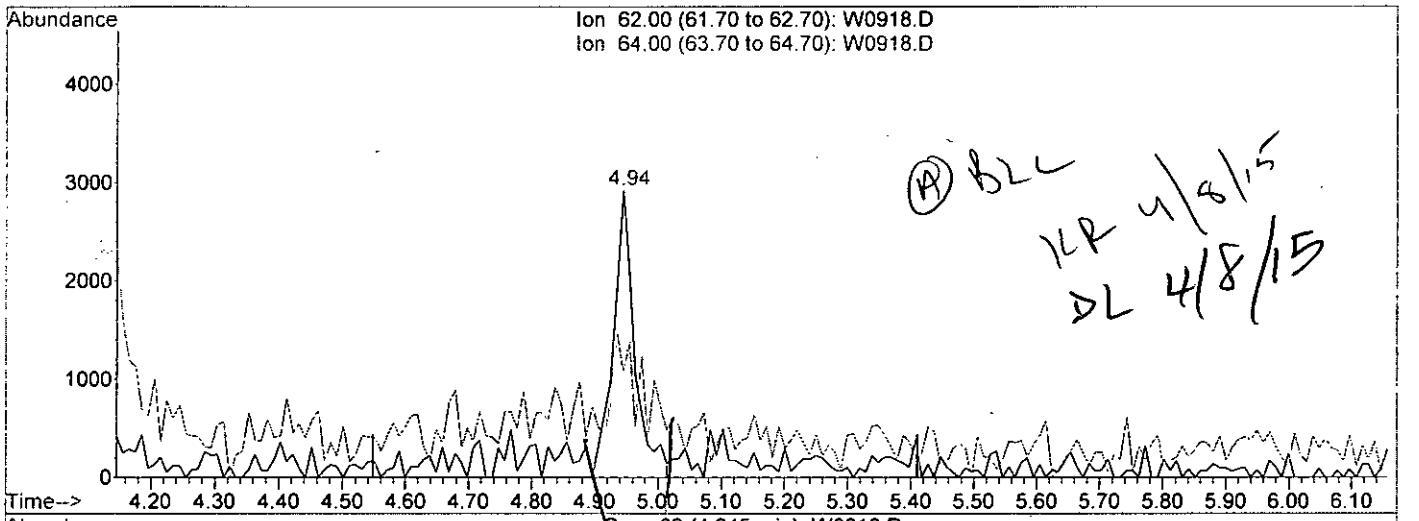
Ion	Exp%	Act%
62.00	100	100
64.00	31.60	36.65
0.00	0.00	0.00
0.00	0.00	0.00

W0918.D W032315.M Wed Apr 08 09:39:39 2015

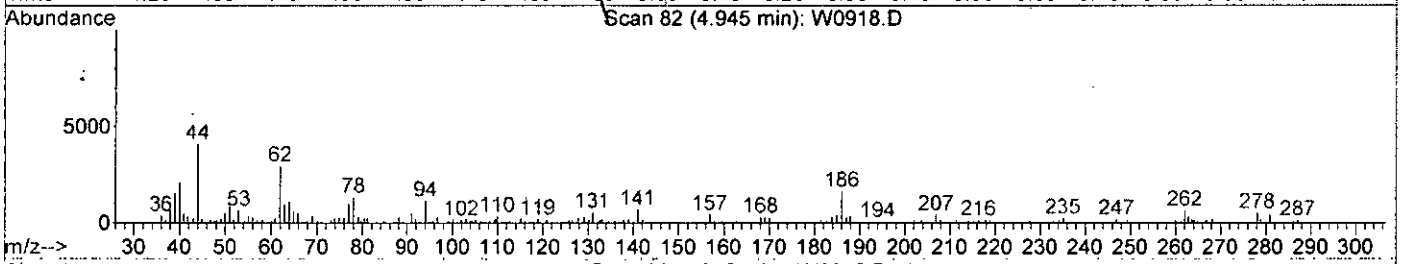
Quantitation Report (Qedit)

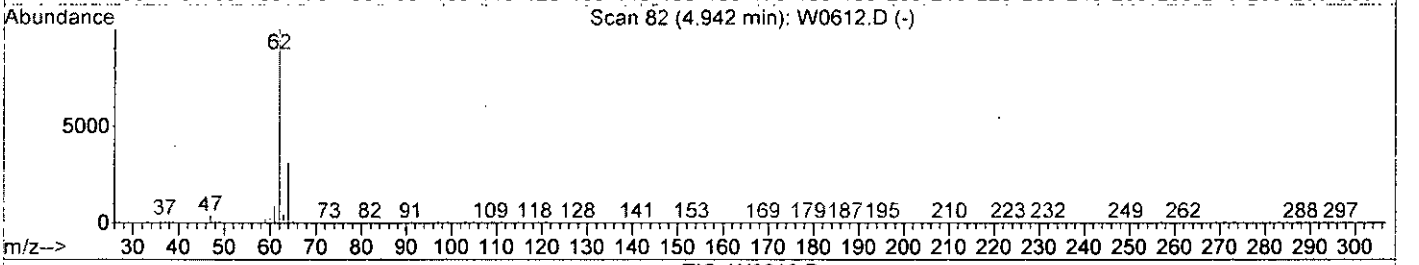
Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D Vial: 13
Acq On : 7 Apr 2015 4:26 pm Operator: K.Ruest
Sample : R1502204-~~002~~|2:5 016 (VE) Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 9:39 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



(A) BLC 4/8/15
ILR 4/8/15
DL 4/8/15





TIC: W0918.D

(4) Vinyl Chloride (P)

4.94min 0.57ppb m

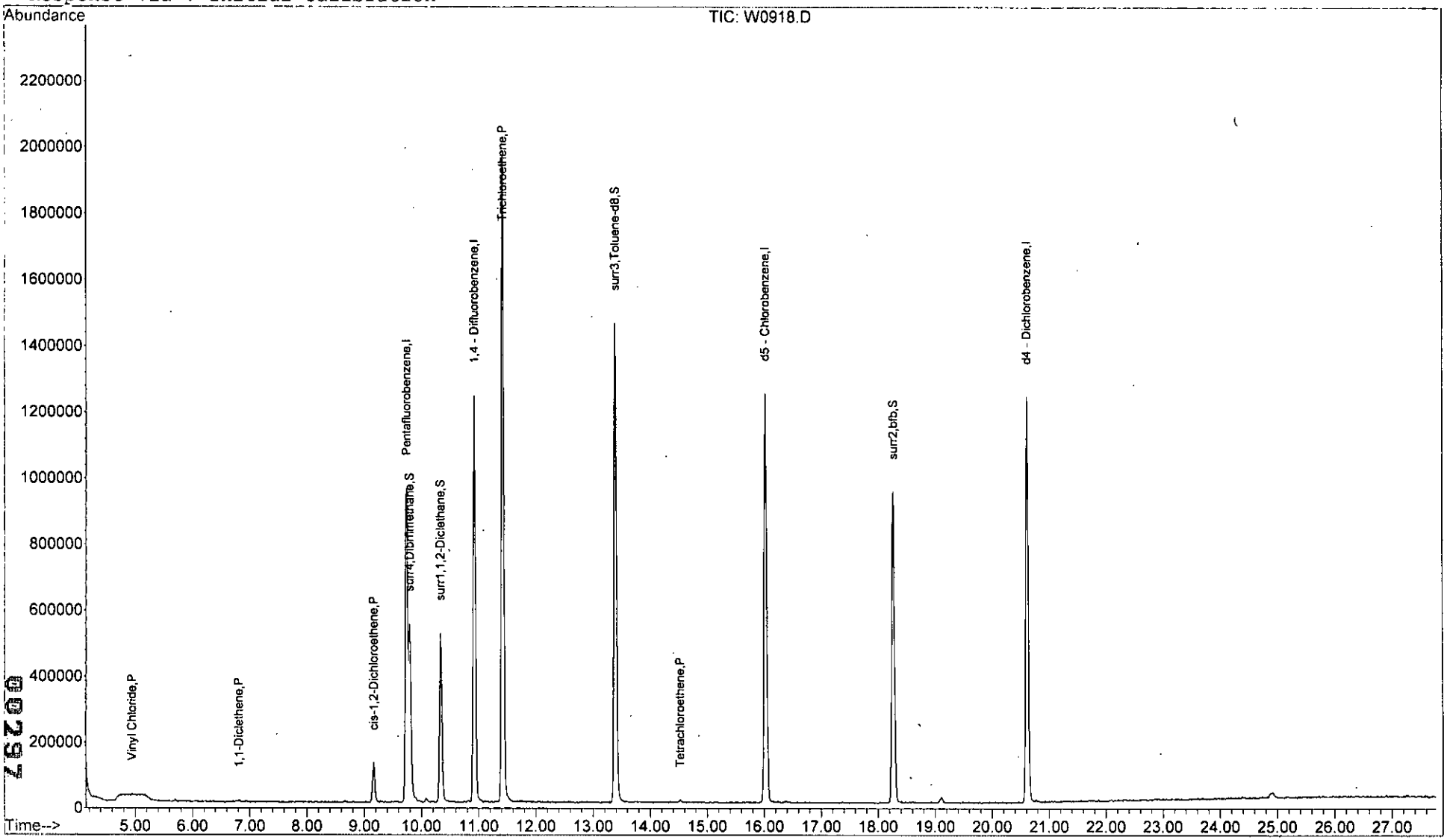
response 6840

Ion	Exp%	Act%
62.00	100	100
64.00	31.60	36.65
0.00	0.00	0.00
0.00	0.00	0.00

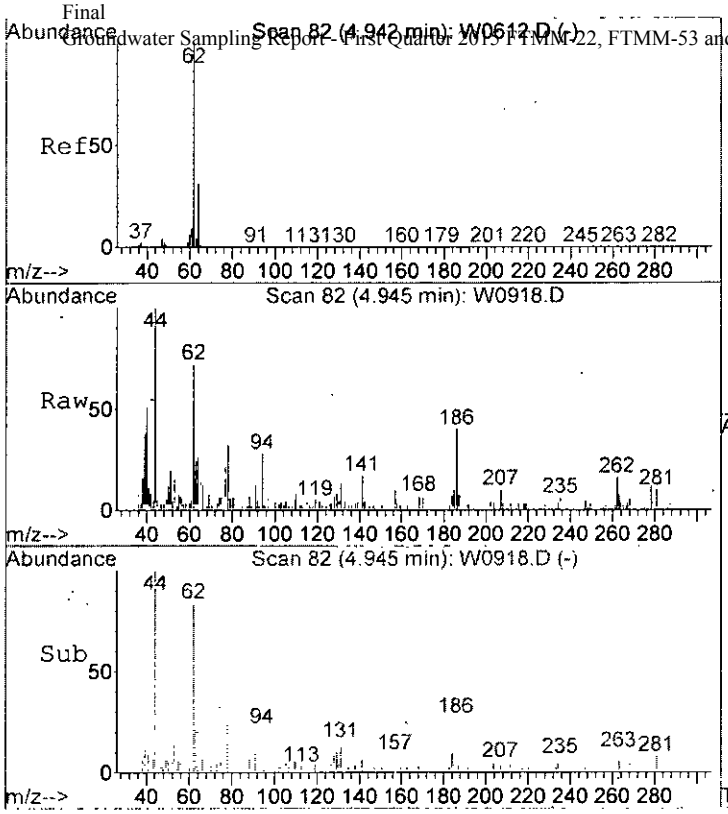
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D Vial: 13
Acq On : 7 Apr 2015 4:26 pm Operator: K.Ruest
Sample : R1502204-002|2.5 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 8 9:47 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



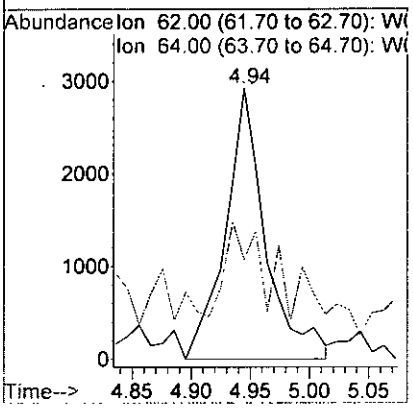
W0918.D W032315.M Wed Apr 08 09:55:57 2015 Page 2

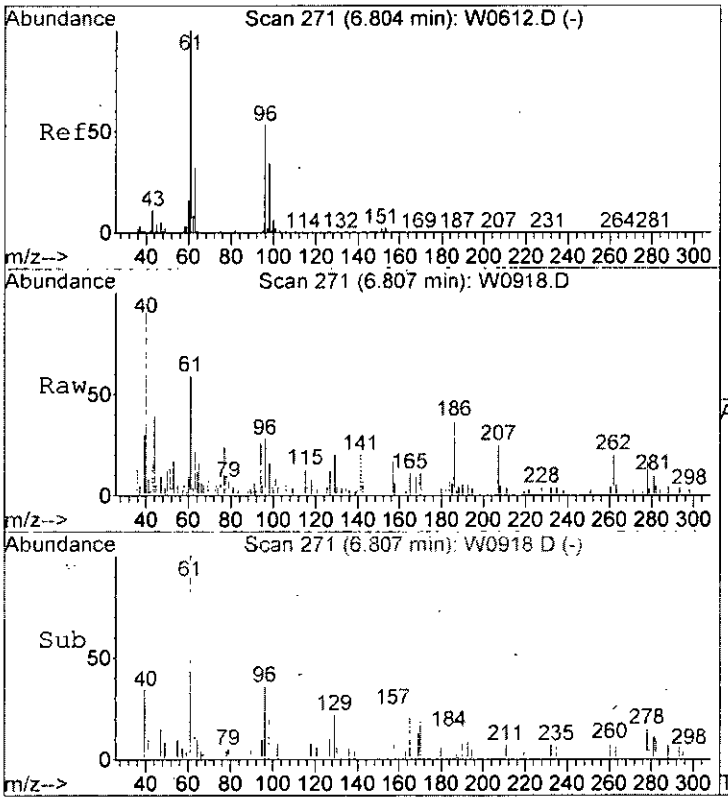


#4
Vinyl Chloride
Concen: 0.57 ppb m
RT: 4.94 min Scan# 82
Delta R.T. 0.00 min
Lab File: W0918.D
Acq: 7 Apr 2015 4:26 pm

Tgt Ion: 62 Resp: 6840

Ion	Ratio	Lower	Upper
62	100		
64	36.6	11.6	51.6

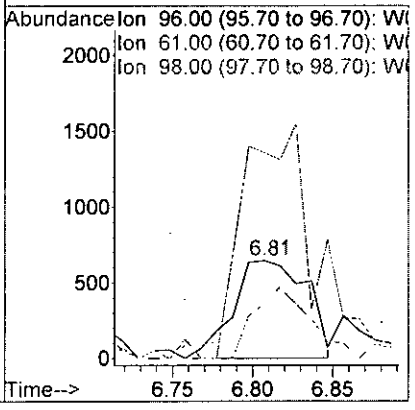


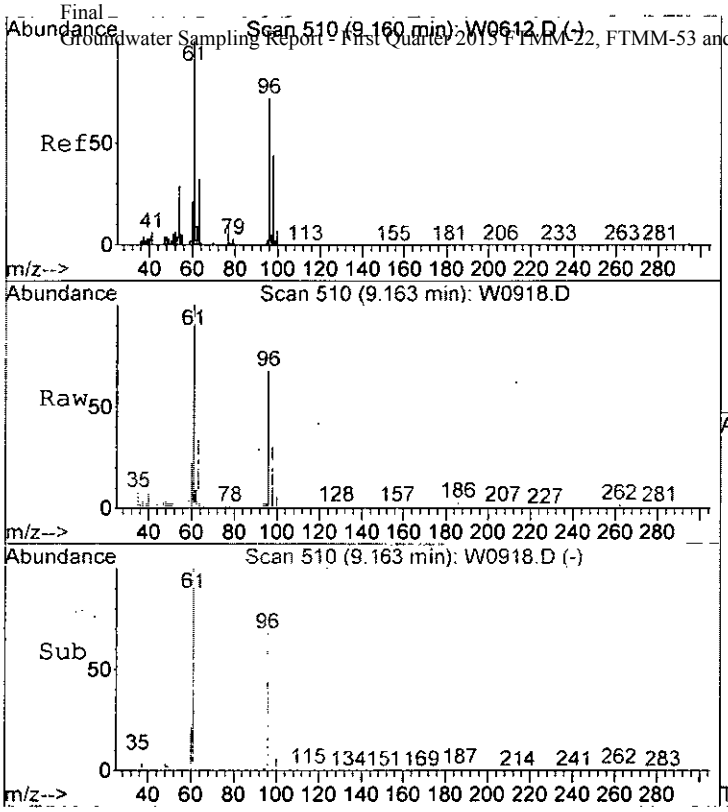


#14
1,1-Dicletheene
Concen: 0.24 ppb
RT: 6.81 min Scan# 271
Delta R.T. 0.00 min
Lab File: W0918.D
Acq: 7 Apr 2015 4:26 pm

Tgt Ion: 96 Resp: 2059

Ion	Ratio	Lower	Upper
96	100		
61	210.4	168.3	208.3#
98	55.7	43.7	83.7

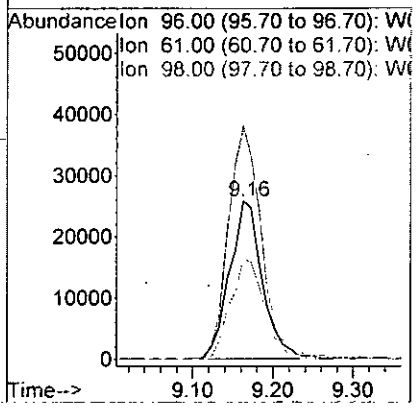


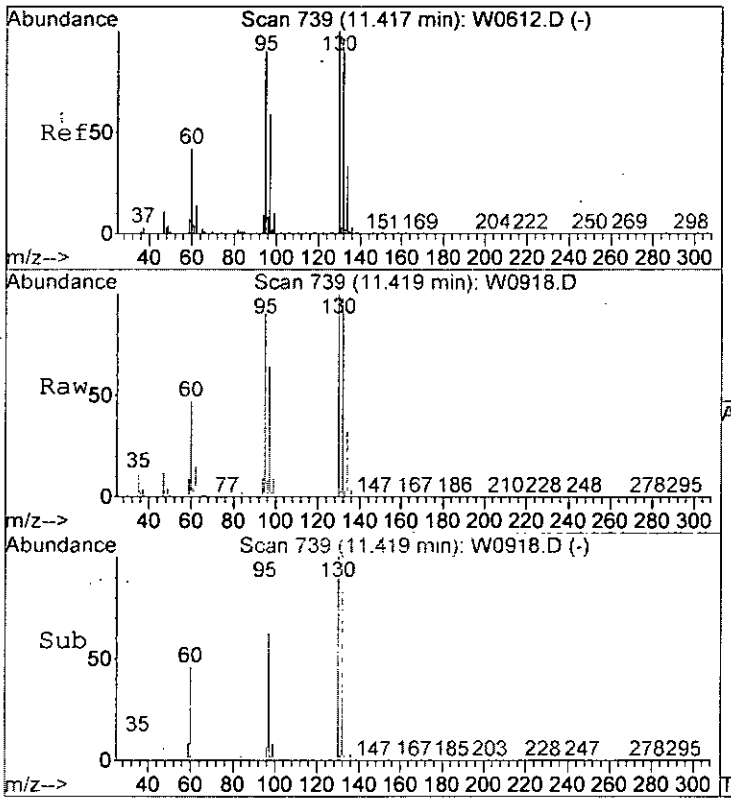


#35
cis-1,2-Dichloroethene
Concen: 6.58 ppb
RT: 9.16 min Scan# 510
Delta R.T. 0.00 min
Lab File: W0918.D
Acq: 7 Apr 2015 4:26 pm

Tgt Ion: 96 Resp: 73071

Ion	Ratio	Lower	Upper
96	100		
61	147.2	119.7	159.7
98	63.2	41.2	81.2

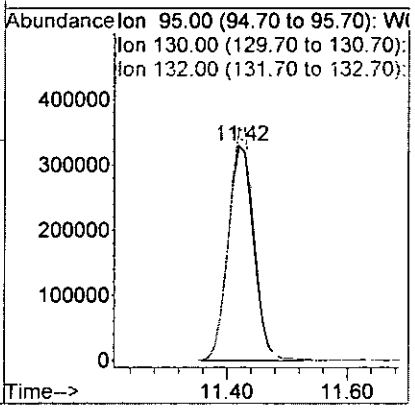


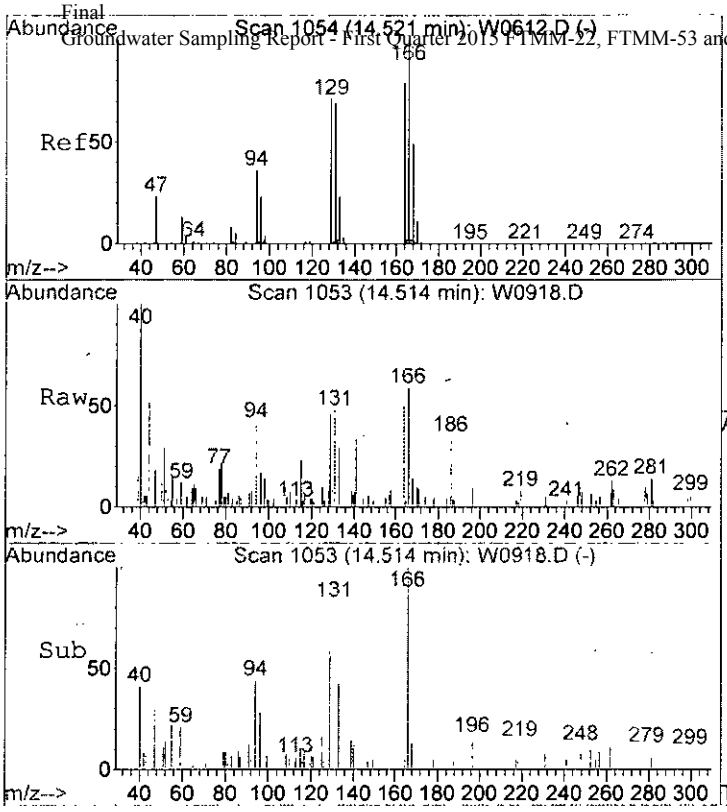


#54
Trichloroethene
Concen: 99.53 ppb
RT: 11.42 min Scan# 739
Delta R.T. 0.00 min
Lab File: W0918.D
Acq: 7 Apr 2015 4:26 pm

Tgt Ion: 95 Resp: 986932

Ion	Ratio	Lower	Upper
95	100		
130	108.9	91.2	131.2
132	106.6	86.3	126.3

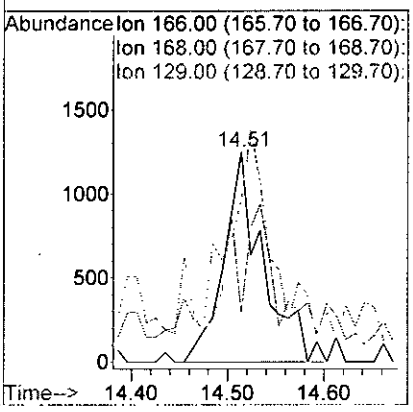




#72
Tetrachloroethene
Concen: 0.36 ppb
RT: 14.51 min Scan# 1053
Delta R.T. -0.01 min
Lab File: W0918.D
Acq: 7 Apr 2015 4:26 pm

Tgt Ion:166 Resp: 3512

Ion	Ratio	Lower	Upper
166	100		
168	23.1	29.2	69.2#
129	77.7	51.3	91.3



LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D Vial: 13
Acq On : 7 Apr 2015 4:26 pm Operator: K.Ruest
Sample : R1502204-~~002~~\|2.5 OFS (KL) Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.163	504	510	517	rBV	120903	335153	5.90%	1.110%
2	9.744	559	569	572	rBV	952070	2784003	48.98%	9.221%
3	9.793	572	574	584	rVB	529200	1396121	24.56%	4.624%
4	10.335	620	629	640	rBV	512361	1532789	26.97%	5.077%
5	10.927	683	689	705	rVB	1231485	3442074	60.56%	11.400%
6	11.419	731	739	759	rBV	1953823	5683805	100.00%	18.825%
7	13.390	930	939	951	rBV	1451019	4329921	76.18%	14.341%
8	16.022	1194	1206	1216	rBV	1239610	3893676	68.50%	12.896%
9	18.269	1423	1434	1444	rBV	944346	3017611	53.09%	9.995%
10	20.614	1663	1672	1685	rBV	1231471	3777270	66.46%	12.511%

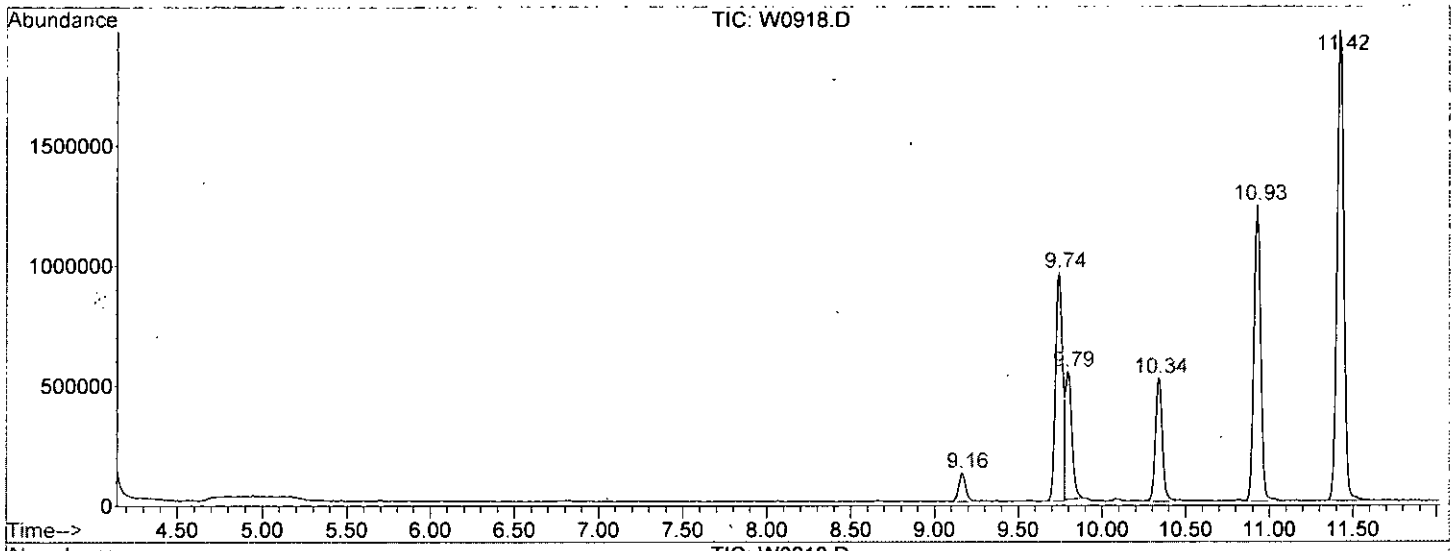
Sum of corrected areas: 30192423

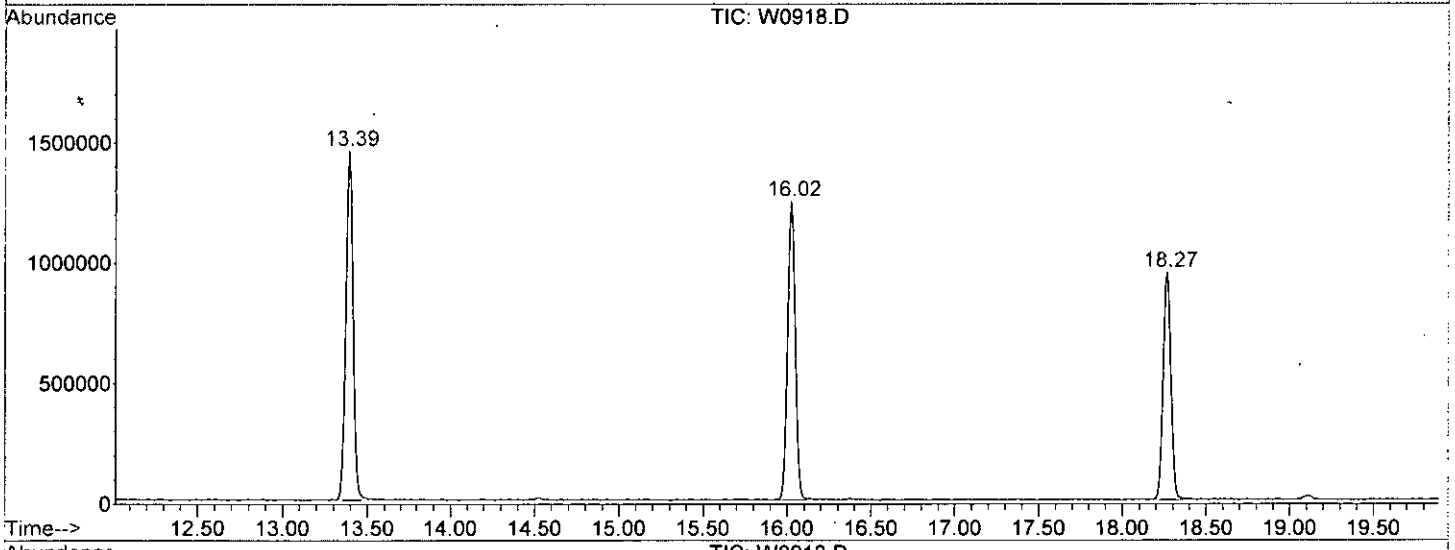
W0918.D W032315.M Wed Apr 08 09:56:09 2015

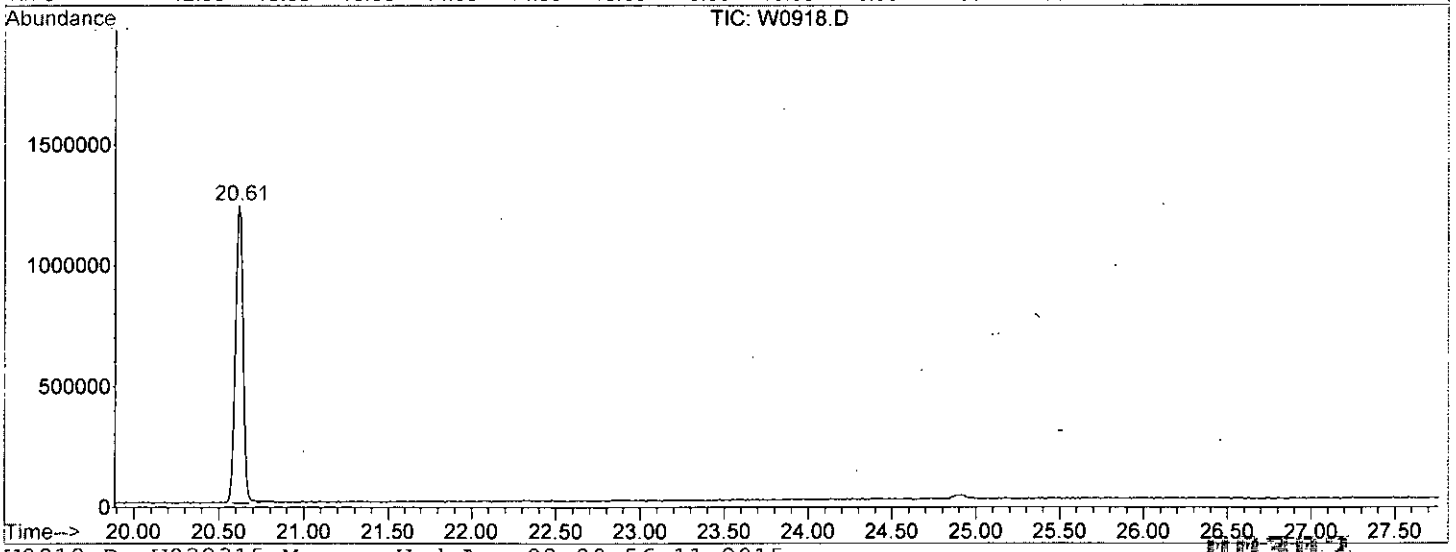
00301

LSC Report - Integrated Chromatogram

File : I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D
Operator : K.Ruest
Acquired : 7 Apr 2015 4:26 pm using AcqMethod W032315
Instrument : MS #7
Sample Name: R1502204-002|2.5
Misc Info : PARSONS 11603 T4 *DOD*
Vial Number: 13
Quant File :W032315.RES (RTE Integrator)







W0918.D W032315.M Wed Apr 08 09:56:11 2015

00302

Tentatively Identified Compound (LSC) summary

Operator ID: K.Ruest Date Acquired: 7 Apr 2015 4:26 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040715\W0918.D
Name: R1502204-002|2.5 OK KP
Misc: PARSONS 11603 T4 *DOD*
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0918.D W032315.M Wed Apr 08 09:56:11 2015

00303

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

00304

Initial Calibration - Summary Report

KB 3/24/15

Calibration ID: RC1500031
8260 waters WO32315

Instrument ID: R-MS-07
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3310	<=20	4.7
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7468	<=20	5.3
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.6550	<=20	3.3
1,1,2-Trichloroethane	T	Average RF		0.100	0.2517	<=20	10.8
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.5077	<=20	7.5
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9472	<=20	7.5
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4486	<=20	6.5
1,1-Dichloropropene	T	Average RF			0.4497	<=20	8.2
1,2,3-Trichlorobenzene	T	Average RF			0.6710	<=20	6.5
1,2,3-Trichloropropane	T	Average RF			0.2049	<=20	10.3
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.7965	<=20	4.1
1,2,4-Trimethylbenzene	T	Average RF			2.302	<=20	6.7
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.1375	<=20	12.7
1,2-Dibromoethane	T	Average RF		0.100	0.2834	<=20	3.2
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123:	T	Average RF			0.6648	<=20	12.7
1,2-Dichlorobenzene	T	Average RF		0.400	1.331	<=20	3.4
1,2-Dichloroethane	T	Average RF		0.100	0.4110	<=20	6.1
1,2-Dichloropropane	T	Average RF		0.100	0.3601	<=20	10.1
1,3,5-Trichlorobenzene	T	Average RF			0.9036	<=20	4.9
1,3,5-Trimethylbenzene	T	Average RF			2.260	<=20	8.0
1,3-Dichlorobenzene	T	Average RF		0.600	1.400	<=20	5.6
1,3-Dichloropropane	T	Average RF			0.5273	<=20	6.5
1,4-Dichlorobenzene	T	Average RF		0.500	1.406	<=20	8.0
1,4-Dioxane	T	Average RF			0.002198	<=20	6.7
1-Butanol	T	Average RF			0.006019	<=20	13.8
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.4550	<=20	6.4
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6990	<=20	7.8
2,2-Dichloropropane	T	Average RF			0.7405	<=20	9.1
2,3,6-Trichlorotoluene	T	Average RF			0.3685	<=20	5.5
2,4,5-Trichlorotoluene	T	Average RF			0.4380	<=20	10.2
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.090	<=20	6.5
2,4-Dichlorobenzotrifluoride	T	Average RF			0.6114	<=20	5.3
2,5-Dichlorobenzotrifluoride	T	Average RF			0.7111	<=20	4.4
2-Bromo-2-chloro-1,1,1-trifluoroethane	T	Average RF				<=20	
2-Butanone (MEK)	T	Average RF		0.05	0.2444	<=20	4.8
2-Chloro-1,3-butadiene	T	Average RF			1.048	<=20	4.3
2-Chlorobenzotrifluoride	T	Average RF			0.4797	<=20	8.4
2-Chloroethyl Vinyl Ether	T	Average RF			0.1921	<=20	9.7
2-Chlorotoluene	T	Average RF			2.204	<=20	7.8
2-Hexanone	T	Average RF		0.05	0.2032	<=20	4.4
2-Methyl-1-propanol	T	Average RF			0.01141	<=20	4.0
2-Methyl-2-propanol	T	Average RF			0.03751	<=20	4.0
2-Nitropropane	T	Average RF			0.06768	<=20	11.8
2-Propanol	T	Average RF			0.02550	<=20	8.2
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.128	<=20	3.0
3,4-Dichlorobenzotrifluoride	T	Average RF			0.7174	<=20	5.9
3-Chloro-1-propene	T	Average RF			0.9611	<=20	7.1
3-Chlorobenzotrifluoride	T	Average RF			0.5031	<=20	5.0
3-Chlorotoluene	T	Average RF			2.200	<=20	5.4
4-Chlorotoluene	T	Average RF			2.230	<=20	5.4
4-Isopropyltoluene	T	Average RF			2.345	<=20	7.4
4-Methyl-2-pentanone	T	Average RF		0.05	0.3050	<=20	2.9

Initial Calibration - Summary Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetone	T	Average RF		0.05	0.1875	<=20	17.0
Acetonitrile	T	Average RF			0.04791	<=20	17.7
Acrolein	T	Average RF			0.07979	<=20	10.6
Acrylonitrile	T	Average RF			0.1599	<=20	5.7
Benzene	T	Average RF		0.500	1.296	<=20	11.0
Bromobenzene	T	Average RF			0.7603	<=20	4.7
Bromochloromethane	T	Average RF			0.2905	<=20	8.0
Bromodichloromethane	T	Average RF		0.200	0.4349	<=20	4.3
Bromoform	T	Average RF		0.100	0.1936	<=20	5.1
Bromomethane	T	Average RF		0.100	0.4482	<=20	7.2
Carbon Disulfide	T	Average RF		0.100	2.068	<=20	4.4
Carbon Tetrachloride	T	Average RF		0.05	0.3939	<=20	6.7
Chlorobenzene	T	Average RF		0.500	0.8920	<=20	6.0
Chloroethane	T	Average RF		0.100	0.4643	<=20	13.0
Chloroform	T	Average RF		0.200	0.9297	<=20	8.4
Chloromethane	T	Average RF		0.100	0.6798	<=20	12.8
Cyclohexane	T	Average RF		0.100	0.6065	<=20	7.1
Cyclohexanone	T	Average RF			0.03309	<=20	11.6
Dibromochloromethane	T	Average RF		0.100	0.3549	<=20	3.0
Dibromomethane	T	Average RF			0.1845	<=20	5.1
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.6344	<=20	6.2
Dichlorofluoromethane (CFC 21)	T	Average RF			1.140	<=20	5.8
Dichloromethane	T	Average RF		0.100	0.5742	<=20	12.0
Diethyl Ether	T	Average RF			0.4445	<=20	7.9
Diisopropyl Ether	T	Average RF			2.212	<=20	11.0
Ethyl Methacrylate	T	Average RF			0.3908	<=20	4.2
Ethyl tert-Butyl Ether	T	Average RF			1.835	<=20	6.5
Ethylbenzene	T	Average RF		0.100	1.508	<=20	9.4
Hexachlorobutadiene	T	Average RF			0.3233	<=20	7.9
Iodomethane	T	Average RF			0.8298	<=20	3.6
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.394	<=20	8.7
Methacrylonitrile	T	Average RF			0.1874	<=20	11.1
Methyl Acetate	T	Average RF		0.100	0.3520	<=20	8.8
Methyl Methacrylate	T	Average RF			0.07400	<=20	5.6
Methyl tert-Butyl Ether	T	Average RF		0.100	1.363	<=20	5.2
Methylcyclohexane	T	Average RF		0.100	0.4776	<=20	10.9
Naphthalene	T	Average RF			1.706	<=20	3.7
Nitrobenzene	T	Average RF				<=20	
Propionitrile	T	Average RF			0.05590	<=20	14.0
Styrene	T	Average RF		0.300	0.9616	<=20	9.5
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3710	<=20	7.3
Tetrahydrofuran (THF)	T	Average RF			0.1314	<=20	13.6
Toluene	T	Average RF		0.400	1.349	<=20	9.5
Trichloroethene (TCE)	T	Average RF		0.200	0.3299	<=20	5.8
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7383	<=20	8.7
Vinyl Acetate	T	Average RF			0.07523	<=20	11.0
Vinyl Chloride	T	Average RF		0.100	0.6123	<=20	5.2
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5712	<=20	7.4
cis-1,3-Dichloropropene	T	Average RF		0.200	0.5432	<=20	5.6
m,p-Xylenes	T	Average RF		0.100	0.5588	<=20	10.0
n-Butyl Acetate	T	Average RF			0.5050	<=20	4.9
n-Butylbenzene	T	Average RF			2.192	<=20	7.0

Initial Calibration - Summary Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
n-Heptane	T	Average RF			0.4636	<=20	10.4
n-Propylbenzene	T	Average RF			3.476	<=20	7.0
o-Xylene	T	Average RF		0.300	0.5537	<=20	10.0
sec-Butylbenzene	T	Average RF			2.815	<=20	6.0
tert-Amyl Methyl Ether	T	Average RF			0.8825	<=20	6.7
tert-Butylbenzene	T	Average RF			1.987	<=20	6.8
trans-1,2-Dichloroethene	T	Average RF		0.100	0.5329	<=20	8.8
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4833	<=20	4.7
trans-1,4-Dichloro-2-butene	T	Average RF			0.1606	<=20	14.1
1,2-Dichloroethane-d4	S	Average RF			0.3245	<=20	4.9
4-Bromofluorobenzene	S	Average RF			0.4721	<=20	6.1
Dibromofluoromethane	S	Average RF			0.3219	<=20	3.8
Toluene-d8	S	Average RF			1.086	<=20	5.9

KR 3/29/15

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
8260 Waters W032315 **Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500031-01	0.5ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D	3/23/15 16:25
02	RC1500031-02	1.0ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D	3/23/15 17:00
03	RC1500031-03	2.0ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D	3/23/15 17:35
04	RC1500031-04	5.0ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D	3/23/15 18:10
05	RC1500031-05	20ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D	3/23/15 18:45
06	RC1500031-06	50ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D	3/23/15 19:20
07	RC1500031-07	100ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D	3/23/15 19:55
08	RC1500031-08	150ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D	3/23/15 20:30
09	RC1500031-09	200ppb	I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D	3/23/15 21:04

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

1,1,1,2-Tetrachloroethane Average RF RSD = 4.7 Average RF = 0.3310

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3287	02	1.000	0.3460	03	2.000	0.3213	04	5.000	0.3573
05	20.000	0.3129	06	50.000	0.3469	07	100.000	0.3248	08	150.000	0.3266
09	200.000	0.3147									

1,1,1-Trichloroethane (TCA) Average RF RSD = 5.3 Average RF = 0.7468

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7308	02	1.000	0.7961	03	2.000	0.7888	04	5.000	0.7598
05	20.000	0.6758	06	50.000	0.7863	07	100.000	0.7324	08	150.000	0.7324
09	200.000	0.7187									

1,1,2,2-Tetrachloroethane Average RF RSD = 3.3 Average RF = 0.6550

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6593	02	1.000	0.6490	03	2.000	0.6129	04	5.000	0.6470
05	20.000	0.6349	06	50.000	0.6775	07	100.000	0.6660	08	150.000	0.6785
09	200.000	0.6702									

1,1,2-Trichloroethane Average RF RSD = 10.8 Average RF = 0.2517

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3100	02	1.000	0.2571	03	2.000	0.2365	04	5.000	0.2790
05	20.000	0.2394	06	50.000	0.2503	07	100.000	0.2348	08	150.000	0.2337
09	200.000	0.2247									

1,1,2-Trichlorotrifluoroethane Average RF RSD = 7.5 Average RF = 0.5077

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5295	02	1.000	0.5768	03	2.000	0.5165	04	5.000	0.5337
05	20.000	0.4587	06	50.000	0.5204	07	100.000	0.4918	08	150.000	0.4771
09	200.000	0.4646									

1,1-Dichloroethane (1,1-DCA) Average RF RSD = 7.5 Average RF = 0.9472

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.066	02	1.000	1.015	03	2.000	0.9730	04	5.000	0.9925
05	20.000	0.8589	06	50.000	0.9596	07	100.000	0.8931	08	150.000	0.8908
09	200.000	0.8753									

1,1-Dichloroethene (1,1-DCE) Average RF RSD = 6.5 Average RF = 0.4486

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4582	02	1.000	0.4669	03	2.000	0.4998	04	5.000	0.4646
05	20.000	0.4007	06	50.000	0.4558	07	100.000	0.4405	08	150.000	0.4252
09	200.000	0.4262									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

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

1,1-Dichloropropene Average RF RSD = 8.2 Average RF = 0.4497

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4900	02	1.000	0.4395	03	2.000	0.4932	04	5.000	0.4996
05	20.000	0.4037	06	50.000	0.4582	07	100.000	0.4234	08	150.000	0.4233
09	200.000	0.4167									

1,2,3-Trichlorobenzene Average RF RSD = 6.5 Average RF = 0.6710

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7302	02	1.000	0.6078	03	2.000	0.6539	04	5.000	0.6522
05	20.000	0.6076	06	50.000	0.7019	07	100.000	0.6828	08	150.000	0.7082
09	200.000	0.6943									

1,2,3-Trichloropropane Average RF RSD = 10.3 Average RF = 0.2049

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2416	02	1.000	0.2375	03	2.000	0.2042	04	5.000	0.2101
05	20.000	0.1910	06	50.000	0.1899	07	100.000	0.1882	08	150.000	0.1919
09	200.000	0.1897									

1,2,4-Trichlorobenzene Average RF RSD = 4.1 Average RF = 0.7965

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7817	02	1.000	0.7739	03	2.000	0.7650	04	5.000	0.8064
05	20.000	0.7446	06	50.000	0.8422	07	100.000	0.7999	08	150.000	0.8314
09	200.000	0.8239									

1,2,4-Trimethylbenzene Average RF RSD = 6.7 Average RF = 2.302

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.573	02	1.000	2.334	03	2.000	2.407	04	5.000	2.433
05	20.000	2.135	06	50.000	2.314	07	100.000	2.201	08	150.000	2.219
09	200.000	2.101									

1,2-Dibromo-3-chloropropane (DBCP) Average RF RSD = 12.7 Average RF = 0.1375

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1772	03	2.000	0.1275	04	5.000	0.1347	05	20.000	0.1179
06	50.000	0.1318	07	100.000	0.1322	08	150.000	0.1377	09	200.000	0.1411

1,2-Dibromoethane Average RF RSD = 3.2 Average RF = 0.2834

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2951	02	1.000	0.2770	03	2.000	0.2879	04	5.000	0.2888
05	20.000	0.2687	06	50.000	0.2955	07	100.000	0.2774	08	150.000	0.2816
09	200.000	0.2782									

1,2-Dichloro-1,1,2-trifluoroethane (CFC Average RF RSD = 12.7 Average RF = 0.6648

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8173	02	1.000	0.7122	03	2.000	0.6981	04	5.000	0.7351
05	20.000	0.6413	06	50.000	0.6533	07	100.000	0.5980	08	150.000	0.5688
09	200.000	0.5591									

1,2-Dichlorobenzene Average RF RSD = 3.4 Average RF = 1.331

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.371	02	1.000	1.369	03	2.000	1.354	04	5.000	1.387
05	20.000	1.254	06	50.000	1.343	07	100.000	1.293	08	150.000	1.323
09	200.000	1.285									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte **Curve Fit** Weighting

1,2-Dichloroethane Average RF RSD = 6.1 Average RF = 0.4110

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4126	02	1.000	0.4388	03	2.000	0.4222	04	5.000	0.4515
05	20.000	0.3906	06	50.000	0.4240	07	100.000	0.3910	08	150.000	0.3888
09	200.000	0.3799									

1,2-Dichloroethane-d4 Average RF RSD = 4.9 Average RF = 0.3245

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3352	03	60.000	0.3388	04	70.000	0.3387	05	100.000	0.3229
07	125.000	0.3092	08	150.000	0.3022						

1,2-Dichloropropane Average RF RSD = 10.1 Average RF = 0.3601

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4126	02	1.000	0.4004	03	2.000	0.3801	04	5.000	0.3852
05	20.000	0.3375	06	50.000	0.3609	07	100.000	0.3274	08	150.000	0.3237
09	200.000	0.3128									

1,3,5-Trichlorobenzene Average RF RSD = 4.9 Average RF = 0.9036

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9948	02	1.000	0.8763	03	2.000	0.8821	04	5.000	0.9268
05	20.000	0.8373	06	50.000	0.9034	07	100.000	0.9288	08	150.000	0.9050
09	200.000	0.8775									

1,3,5-Trimethylbenzene Average RF RSD = 8.0 Average RF = 2.260

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.398	02	1.000	2.504	03	2.000	2.439	04	5.000	2.403
05	20.000	2.053	06	50.000	2.249	07	100.000	2.143	08	150.000	2.112
09	200.000	2.036									

1,3-Dichlorobenzene Average RF RSD = 5.6 Average RF = 1.400

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.446	02	1.000	1.467	03	2.000	1.484	04	5.000	1.502
05	20.000	1.280	06	50.000	1.398	07	100.000	1.344	08	150.000	1.365
09	200.000	1.318									

1,3-Dichloropropane Average RF RSD = 6.5 Average RF = 0.5273

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5573	02	1.000	0.5810	03	2.000	0.5549	04	5.000	0.5460
05	20.000	0.5060	06	50.000	0.5292	07	100.000	0.4941	08	150.000	0.4960
09	200.000	0.4815									

1,4-Dichlorobenzene Average RF RSD = 8.0 Average RF = 1.406

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.610	02	1.000	1.522	03	2.000	1.440	04	5.000	1.470
05	20.000	1.294	06	50.000	1.385	07	100.000	1.329	08	150.000	1.327
09	200.000	1.277									

1,4-Dioxane Average RF RSD = 6.7 Average RF = 0.002198

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.002438	04	100.000	0.002217	05	400.000	0.002354	06	1000.000	0.002110
07	2000.000	0.002108	08	3000.000	0.002032	09	4000.000	0.002128			

1-Butanol Average RF RSD = 13.8 Average RF = 0.006019

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.004129	03	100.000	0.005774	04	250.000	0.005848	05	1000.000	0.006320
06	2500.000	0.006668	07	5000.000	0.006566	08	7500.000	0.006418	09	10000.000	0.006429

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte	Curve Fit	Weighting									
1-Chloro-4-(trifluoromethyl)benzene	Average RF			RSD = 6.4		Average RF = 0.4550					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5079	02	1.000	0.4712	03	2.000	0.4541	04	5.000	0.4804
05	20.000	0.4227	06	50.000	0.4492	07	100.000	0.4599	08	150.000	0.4335
09	200.000	0.4159									
2,2-Dichloro-1,1,1-trifluoroethane (CFC	Average RF			RSD = 7.8		Average RF = 0.6990					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7386	02	1.000	0.7279	03	2.000	0.7691	04	5.000	0.7656
05	20.000	0.6643	06	50.000	0.7061	07	100.000	0.6424	08	150.000	0.6487
09	200.000	0.6280									
2,2-Dichloropropane	Average RF			RSD = 9.1		Average RF = 0.7405					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8341	02	1.000	0.8421	03	2.000	0.7664	04	5.000	0.7532
05	20.000	0.6399	06	50.000	0.7444	07	100.000	0.7056	08	150.000	0.6979
09	200.000	0.6808									
2,3,6-Trichlorotoluene	Average RF			RSD = 5.5		Average RF = 0.3685					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3976	02	1.000	0.3604	03	2.000	0.3592	04	5.000	0.3600
05	20.000	0.3303	06	50.000	0.3733	07	100.000	0.3929	08	150.000	0.3798
09	200.000	0.3628									
2,4,5-Trichlorotoluene	Average RF			RSD = 10.2		Average RF = 0.4380					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5317	02	1.000	0.4609	03	2.000	0.3921	04	5.000	0.4052
05	20.000	0.3822	06	50.000	0.4401	07	100.000	0.4573	08	150.000	0.4412
09	200.000	0.4309									
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut	Average RF			RSD = 6.5		Average RF = 1.090					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.254	02	3.000	1.028	03	6.000	1.079	04	15.000	1.099
05	60.000	1.013	06	150.000	1.079	07	300.000	1.129	08	450.000	1.080
09	600.000	1.051									
2,4-Dichlorobenzotrifluoride	Average RF			RSD = 5.3		Average RF = 0.6114					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6622	02	1.000	0.5626	03	2.000	0.5982	04	5.000	0.6245
05	20.000	0.5706	06	50.000	0.6273	07	100.000	0.6457	08	150.000	0.6127
09	200.000	0.5990									
2,5-Dichlorobenzotrifluoride	Average RF			RSD = 4.4		Average RF = 0.7111					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6902	02	1.000	0.7425	03	2.000	0.7431	04	5.000	0.7327
05	20.000	0.6573	06	50.000	0.7015	07	100.000	0.7362	08	150.000	0.7210
09	200.000	0.6757									
2-Butanone (MEK)	Average RF			RSD = 4.8		Average RF = 0.2444					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2692	02	1.000	0.2489	03	2.000	0.2517	04	5.000	0.2447
05	20.000	0.2400	06	50.000	0.2450	07	100.000	0.2355	08	150.000	0.2302
09	200.000	0.2347									

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Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

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

2-Chloro-1,3-butadiene Average RF RSD = 4.3 Average RF = 1.048

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.080	02	1.000	1.072	03	2.000	1.097	04	5.000	1.088
05	20.000	1.042	06	50.000	1.049	07	100.000	1.044	08	150.000	1.002
09	200.000	0.9550									

2-Chlorobenzotrifluoride Average RF RSD = 8.4 Average RF = 0.4797

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5639	02	1.000	0.4614	03	2.000	0.5124	04	5.000	0.4939
05	20.000	0.4413	06	50.000	0.4751	07	100.000	0.4832	08	150.000	0.4539
09	200.000	0.4321									

2-Chloroethyl Vinyl Ether Average RF RSD = 9.7 Average RF = 0.1921

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2396	02	1.000	0.1805	03	2.000	0.1829	04	5.000	0.1865
05	20.000	0.1807	06	50.000	0.1889	07	100.000	0.1974	08	150.000	0.1870
09	200.000	0.1851									

2-Chlorotoluene Average RF RSD = 7.8 Average RF = 2.204

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.553	02	1.000	2.258	03	2.000	2.258	04	5.000	2.318
05	20.000	1.975	06	50.000	2.218	07	100.000	2.111	08	150.000	2.081
09	200.000	2.060									

2-Hexanone Average RF RSD = 4.4 Average RF = 0.2032

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.2086	04	5.000	0.1992	05	20.000	0.2147	06	50.000	0.2101
07	100.000	0.2044	08	150.000	0.1971	09	200.000	0.1884			

2-Methyl-1-propanol Average RF RSD = 4.0 Average RF = 0.01141

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.01164	02	20.000	0.01170	03	40.000	0.01168	04	100.000	0.01216
05	400.000	0.01114	06	1000.000	0.01126	07	2000.000	0.01066	08	3000.000	0.01097
09	4000.000	0.01149									

2-Methyl-2-propanol Average RF RSD = 4.0 Average RF = 0.03751

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.04052	02	20.000	0.03843	03	40.000	0.03778	04	100.000	0.03807
05	400.000	0.03667	06	1000.000	0.03776	07	2000.000	0.03594	08	3000.000	0.03554
09	4000.000	0.03687									

2-Nitropropane Average RF RSD = 11.8 Average RF = 0.06768

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.06439	02	2.000	0.06826	03	4.000	0.05474	04	10.000	0.06196
05	40.000	0.06086	06	100.000	0.07137	07	200.000	0.07090	08	300.000	0.07868
09	400.000	0.07792									

2-Propanol Average RF RSD = 8.2 Average RF = 0.02550

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.02991	03	40.000	0.02588	04	100.000	0.02637	05	400.000	0.02527
06	1000.000	0.02555	07	2000.000	0.02393	08	3000.000	0.02330	09	4000.000	0.02377

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

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

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 3.0 Average RF = 1.128

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.086	02	2.000	1.134	03	4.000	1.149	04	10.000	1.135
05	40.000	1.070	06	100.000	1.149	07	200.000	1.180	08	300.000	1.142
09	400.000	1.108									

3,4-Dichlorobenzotrifluoride Average RF RSD = 5.9 Average RF = 0.7174

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7834	02	1.000	0.7512	03	2.000	0.7068	04	5.000	0.7550
05	20.000	0.6493	06	50.000	0.6875	07	100.000	0.7363	08	150.000	0.7079
09	200.000	0.6795									

3-Chloro-1-propene Average RF RSD = 7.1 Average RF = 0.9611

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9924	02	1.000	0.9796	03	2.000	1.023	04	5.000	1.062
05	20.000	0.8938	06	50.000	0.9985	07	100.000	0.9567	08	150.000	0.8869
09	200.000	0.8568									

3-Chlorobenzotrifluoride Average RF RSD = 5.0 Average RF = 0.5031

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5354	02	1.000	0.5186	03	2.000	0.5092	04	5.000	0.5289
05	20.000	0.4741	06	50.000	0.5122	07	100.000	0.5079	08	150.000	0.4775
09	200.000	0.4644									

3-Chlorotoluene Average RF RSD = 5.4 Average RF = 2.200

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.393	02	1.000	2.185	03	2.000	2.249	04	5.000	2.355
05	20.000	2.069	06	50.000	2.159	07	100.000	2.222	08	150.000	2.113
09	200.000	2.053									

4-Bromofluorobenzene Average RF RSD = 6.1 Average RF = 0.4721

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.5107	03	60.000	0.4949	04	70.000	0.4824	05	100.000	0.4597
07	125.000	0.4485	08	150.000	0.4365						

4-Chlorotoluene Average RF RSD = 5.4 Average RF = 2.230

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.233	02	1.000	2.345	03	2.000	2.391	04	5.000	2.376
05	20.000	2.045	06	50.000	2.227	07	100.000	2.173	08	150.000	2.168
09	200.000	2.109									

4-Isopropyltoluene Average RF RSD = 7.4 Average RF = 2.345

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.721	02	1.000	2.350	03	2.000	2.373	04	5.000	2.486
05	20.000	2.172	06	50.000	2.345	07	100.000	2.247	08	150.000	2.248
09	200.000	2.167									

4-Methyl-2-pentanone Average RF RSD = 2.9 Average RF = 0.3050

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3011	03	2.000	0.2929	04	5.000	0.3084	05	20.000	0.3125
06	50.000	0.3145	07	100.000	0.3147	08	150.000	0.3011	09	200.000	0.2949

Acetone Average RF RSD = 17.0 Average RF = 0.1875

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.2397	05	20.000	0.2060	06	50.000	0.1897	07	100.000	0.1757
08	150.000	0.1592	09	200.000	0.1548						

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Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

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

Acetonitrile Average RF RSD = 17.7 Average RF = 0.04791

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.05821	03	10.000	0.05011	04	50.000	0.02875	05	100.000	0.04747
06	250.000	0.05220	07	500.000	0.04936	08	750.000	0.04755	09	1000.000	0.04961

Acrolein Average RF RSD = 10.6 Average RF = 0.07979

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09869	02	5.000	0.08501	03	10.000	0.07725	04	25.000	0.08223
05	100.000	0.07857	06	250.000	0.07784	07	500.000	0.07693	08	750.000	0.07223
09	1000.000	0.06937									

Acrylonitrile Average RF RSD = 5.7 Average RF = 0.1599

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1780	02	5.000	0.1663	03	10.000	0.1512	04	25.000	0.1657
05	100.000	0.1579	06	250.000	0.1626	07	500.000	0.1524	08	750.000	0.1526
09	1000.000	0.1525									

Benzene Average RF RSD = 11.0 Average RF = 1.296

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.539	02	1.000	1.337	03	2.000	1.446	04	5.000	1.387
05	20.000	1.161	06	50.000	1.301	07	100.000	1.190	08	150.000	1.171
09	200.000	1.136									

Bromobenzene Average RF RSD = 4.7 Average RF = 0.7603

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8065	02	1.000	0.7499	03	2.000	0.7568	04	5.000	0.8274
05	20.000	0.7124	06	50.000	0.7628	07	100.000	0.7389	08	150.000	0.7499
09	200.000	0.7379									

Bromochloromethane Average RF RSD = 8.0 Average RF = 0.2905

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3388	02	1.000	0.3119	03	2.000	0.2957	04	5.000	0.2907
05	20.000	0.2763	06	50.000	0.2927	07	100.000	0.2684	08	150.000	0.2722
09	200.000	0.2682									

Bromodichloromethane Average RF RSD = 4.3 Average RF = 0.4349

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4363	02	1.000	0.4014	03	2.000	0.4503	04	5.000	0.4555
05	20.000	0.4144	06	50.000	0.4576	07	100.000	0.4312	08	150.000	0.4364
09	200.000	0.4306									

Bromoform Average RF RSD = 5.1 Average RF = 0.1936

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1952	02	1.000	0.1741	03	2.000	0.1932	04	5.000	0.1878
05	20.000	0.1875	06	50.000	0.2091	07	100.000	0.2014	08	150.000	0.1987
09	200.000	0.1958									

Bromomethane Average RF RSD = 7.2 Average RF = 0.4482

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4758	02	1.000	0.5059	03	2.000	0.4196	04	5.000	0.4431
05	20.000	0.3955	06	50.000	0.4700	07	100.000	0.4363	08	150.000	0.4416
09	200.000	0.4465									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

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

Carbon Disulfide Average RF RSD = 4.4 Average RF = 2.068

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.089	02	1.000	2.076	03	2.000	2.120	04	5.000	2.167
05	20.000	2.074	06	50.000	2.137	07	100.000	2.104	08	150.000	1.967
09	200.000	1.876									

Carbon Tetrachloride Average RF RSD = 6.7 Average RF = 0.3939

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4404	02	1.000	0.4139	03	2.000	0.3987	04	5.000	0.4081
05	20.000	0.3520	06	50.000	0.4032	07	100.000	0.3768	08	150.000	0.3778
09	200.000	0.3740									

Chlorobenzene Average RF RSD = 6.0 Average RF = 0.8920

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8906	02	1.000	0.9251	03	2.000	0.9257	04	5.000	0.9823
05	20.000	0.8166	06	50.000	0.9319	07	100.000	0.8679	08	150.000	0.8577
09	200.000	0.8300									

Chloroethane Average RF RSD = 13.0 Average RF = 0.4643

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6130	02	1.000	0.4818	03	2.000	0.4645	04	5.000	0.4513
05	20.000	0.4021	06	50.000	0.4630	07	100.000	0.4339	08	150.000	0.4398
09	200.000	0.4292									

Chloroform Average RF RSD = 8.4 Average RF = 0.9297

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.063	02	1.000	0.9823	03	2.000	0.9659	04	5.000	0.9933
05	20.000	0.8380	06	50.000	0.9453	07	100.000	0.8622	08	150.000	0.8632
09	200.000	0.8541									

Chloromethane Average RF RSD = 12.8 Average RF = 0.6798

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8663	02	1.000	0.7719	03	2.000	0.6583	04	5.000	0.6678
05	20.000	0.5802	06	50.000	0.6741	07	100.000	0.6243	08	150.000	0.6427
09	200.000	0.6330									

Cyclohexane Average RF RSD = 7.1 Average RF = 0.6065

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6746	02	1.000	0.5912	03	2.000	0.6173	04	5.000	0.6667
05	20.000	0.5785	06	50.000	0.6290	07	100.000	0.5734	08	150.000	0.5786
09	200.000	0.5496									

Cyclohexanone Average RF RSD = 11.6 Average RF = 0.03309

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.03799	03	40.000	0.03587	04	100.000	0.03686	05	400.000	0.03463
06	1000.000	0.03292	07	2000.000	0.02904	08	3000.000	0.02845	09	4000.000	0.02900

Dibromochloromethane Average RF RSD = 3.0 Average RF = 0.3549

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3454	02	1.000	0.3695	03	2.000	0.3522	04	5.000	0.3685
05	20.000	0.3402	06	50.000	0.3655	07	100.000	0.3522	08	150.000	0.3543
09	200.000	0.3462									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** 1/x

Dibromofluoromethane RSD = 3.8 Average RF = 0.3219

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3343	03	60.000	0.3340	04	70.000	0.3279	05	100.000	0.3198
07	125.000	0.3086	08	150.000	0.3067						

Dibromomethane RSD = 5.1 Average RF = 0.1845

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1844	02	1.000	0.1825	03	2.000	0.1921	04	5.000	0.2016
05	20.000	0.1819	06	50.000	0.1929	07	100.000	0.1759	08	150.000	0.1763
09	200.000	0.1733									

Dichlorodifluoromethane (CFC 12) RSD = 6.2 Average RF = 0.6344

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6720	02	1.000	0.5824	03	2.000	0.6025	04	5.000	0.6046
05	20.000	0.5917	06	50.000	0.6865	07	100.000	0.6575	08	150.000	0.6654
09	200.000	0.6471									

Dichlorofluoromethane (CFC 21) RSD = 5.8 Average RF = 1.140

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.216	02	1.000	1.223	03	2.000	1.171	04	5.000	1.186
05	20.000	1.083	06	50.000	1.170	07	100.000	1.078	08	150.000	1.086
09	200.000	1.048									

Dichloromethane RSD = 12.0 Average RF = 0.5742

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6774	02	1.000	0.6507	03	2.000	0.6381	04	5.000	0.6059
05	20.000	0.5056	06	50.000	0.5538	07	100.000	0.5118	08	150.000	0.5152
09	200.000	0.5094									

Diethyl Ether RSD = 7.9 Average RF = 0.4445

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4554	02	1.000	0.4941	03	2.000	0.4852	04	5.000	0.4714
05	20.000	0.4280	06	50.000	0.4484	07	100.000	0.4120	08	150.000	0.4063
09	200.000	0.3998									

Diisopropyl Ether RSD = 11.0 Average RF = 2.212

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.586	02	1.000	2.444	03	2.000	2.333	04	5.000	2.436
05	20.000	2.005	06	50.000	2.129	07	100.000	2.089	08	150.000	2.002
09	200.000	1.886									

Ethyl Methacrylate RSD = 4.2 Average RF = 0.3908

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3960	02	1.000	0.4151	03	2.000	0.3946	04	5.000	0.4109
05	20.000	0.3816	06	50.000	0.3990	07	100.000	0.3792	08	150.000	0.3718
09	200.000	0.3693									

Ethyl tert-Butyl Ether RSD = 6.5 Average RF = 1.835

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.897	02	1.000	1.991	03	2.000	1.850	04	5.000	2.016
05	20.000	1.694	06	50.000	1.828	07	100.000	1.814	08	150.000	1.750
09	200.000	1.678									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting**

Ethylbenzene Average RF RSD = 9.4 Average RF = 1.508

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.684	02	1.000	1.593	03	2.000	1.640	04	5.000	1.650
05	20.000	1.393	06	50.000	1.535	07	100.000	1.409	08	150.000	1.366
09	200.000	1.304									

Hexachlorobutadiene Average RF RSD = 7.9 Average RF = 0.3233

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3785	02	1.000	0.3199	03	2.000	0.2927	04	5.000	0.3060
05	20.000	0.2977	06	50.000	0.3255	07	100.000	0.3214	08	150.000	0.3324
09	200.000	0.3353									

Iodomethane Average RF RSD = 3.6 Average RF = 0.8298

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7840	02	1.000	0.8519	03	2.000	0.7896	04	5.000	0.8404
05	20.000	0.8239	06	50.000	0.8538	07	100.000	0.8748	08	150.000	0.8331
09	200.000	0.8169									

Isopropylbenzene (Cumene) Average RF RSD = 8.7 Average RF = 1.394

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.448	02	1.000	1.567	03	2.000	1.545	04	5.000	1.451
05	20.000	1.283	06	50.000	1.423	07	100.000	1.323	08	150.000	1.285
09	200.000	1.220									

Methacrylonitrile Average RF RSD = 11.1 Average RF = 0.1874

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2352	02	1.000	0.1987	03	2.000	0.1692	04	5.000	0.1942
05	20.000	0.1761	06	50.000	0.1908	07	100.000	0.1717	08	150.000	0.1739
09	200.000	0.1770									

Methyl Acetate Average RF RSD = 8.8 Average RF = 0.3520

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4156	02	1.000	0.3607	03	2.000	0.3520	04	5.000	0.3812
05	20.000	0.3396	06	50.000	0.3511	07	100.000	0.3279	08	150.000	0.3210
09	200.000	0.3192									

Methyl Methacrylate Average RF RSD = 5.6 Average RF = 0.07400

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.06812	02	1.000	0.07629	03	2.000	0.08241	04	5.000	0.07033
05	20.000	0.07212	06	50.000	0.07698	07	100.000	0.07263	08	150.000	0.07378
09	200.000	0.07339									

Methyl tert-Butyl Ether Average RF RSD = 5.2 Average RF = 1.363

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.439	02	1.000	1.440	03	2.000	1.364	04	5.000	1.465
05	20.000	1.310	06	50.000	1.379	07	100.000	1.297	08	150.000	1.289
09	200.000	1.289									

Methylcyclohexane Average RF RSD = 10.9 Average RF = 0.4776

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5568	02	1.000	0.5238	03	2.000	0.5015	04	5.000	0.5267
05	20.000	0.4459	06	50.000	0.4748	07	100.000	0.4336	08	150.000	0.4295
09	200.000	0.4058									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte **Curve Fit** Weighting

Naphthalene Average RF RSD = 3.7 Average RF = 1.706

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.697	02	1.000	1.689	03	2.000	1.633	04	5.000	1.696
05	20.000	1.598	06	50.000	1.770	07	100.000	1.720	08	150.000	1.771
09	200.000	1.777									

Propionitrile Average RF RSD = 14.0 Average RF = 0.05590

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.07475	02	5.000	0.05831	03	10.000	0.05230	04	25.000	0.05945
05	100.000	0.05202	06	250.000	0.05498	07	500.000	0.05049	08	750.000	0.05002
09	1000.000	0.05078									

Styrene Average RF RSD = 9.5 Average RF = 0.9616

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.025	02	1.000	1.003	03	2.000	1.068	04	5.000	1.079
05	20.000	0.9027	06	50.000	0.9858	07	100.000	0.9017	08	150.000	0.8686
09	200.000	0.8211									

Tetrachloroethene (PCE) Average RF RSD = 7.3 Average RF = 0.3710

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3825	02	1.000	0.4074	03	2.000	0.3894	04	5.000	0.4018
05	20.000	0.3311	06	50.000	0.3777	07	100.000	0.3535	08	150.000	0.3540
09	200.000	0.3416									

Tetrahydrofuran (THF) Average RF RSD = 13.6 Average RF = 0.1314

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1699	03	2.000	0.1444	04	5.000	0.1320	05	20.000	0.1214
06	50.000	0.1253	07	100.000	0.1190	08	150.000	0.1200	09	200.000	0.1188

Toluene Average RF RSD = 9.5 Average RF = 1.349

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.537	02	1.000	1.427	03	2.000	1.405	04	5.000	1.495
05	20.000	1.226	06	50.000	1.378	07	100.000	1.264	08	150.000	1.239
09	200.000	1.174									

Toluene-d8 Average RF RSD = 5.9 Average RF = 1.086

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.175	03	60.000	1.142	04	70.000	1.098	05	100.000	1.055
07	125.000	1.032	08	150.000	1.011						

Trichloroethene (TCE) Average RF RSD = 5.8 Average RF = 0.3299

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3320	02	1.000	0.3451	03	2.000	0.3431	04	5.000	0.3585
05	20.000	0.3020	06	50.000	0.3442	07	100.000	0.3169	08	150.000	0.3190
09	200.000	0.3087									

Trichlorofluoromethane (CFC 11) Average RF RSD = 8.7 Average RF = 0.7383

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8489	02	1.000	0.6427	03	2.000	0.7911	04	5.000	0.7757
05	20.000	0.6636	06	50.000	0.7584	07	100.000	0.7154	08	150.000	0.7124
09	200.000	0.7360									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** 1/X

Vinyl Acetate Average RF RSD = 11.0 Average RF = 0.07523

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.08035	02	1.000	0.05571	03	2.000	0.07009	04	5.000	0.07605
05	20.000	0.07952	06	50.000	0.07429	07	100.000	0.08373	08	150.000	0.07793
09	200.000	0.07935									

Vinyl Chloride Average RF RSD = 5.2 Average RF = 0.6123

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6339	02	1.000	0.6209	03	2.000	0.5997	04	5.000	0.6462
05	20.000	0.5452	06	50.000	0.6489	07	100.000	0.5993	08	150.000	0.6014
09	200.000	0.6152									

cis-1,2-Dichloroethene Average RF RSD = 7.4 Average RF = 0.5712

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5858	02	1.000	0.6358	03	2.000	0.6140	04	5.000	0.5979
05	20.000	0.5123	06	50.000	0.5862	07	100.000	0.5327	08	150.000	0.5464
09	200.000	0.5297									

cis-1,3-Dichloropropene Average RF RSD = 5.6 Average RF = 0.5432

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6115	02	1.000	0.5452	03	2.000	0.5434	04	5.000	0.5485
05	20.000	0.5062	06	50.000	0.5585	07	100.000	0.5249	08	150.000	0.5288
09	200.000	0.5215									

m,p-Xylenes Average RF RSD = 10.0 Average RF = 0.5588

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6354	02	2.000	0.6142	03	4.000	0.5942	04	10.000	0.6075
05	40.000	0.5124	06	100.000	0.5595	07	200.000	0.5161	08	300.000	0.5073
09	400.000	0.4827									

n-Butyl Acetate Average RF RSD = 4.9 Average RF = 0.5050

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5508	02	1.000	0.4941	03	2.000	0.5076	04	5.000	0.5347
05	20.000	0.4960	06	50.000	0.5158	07	100.000	0.4871	08	150.000	0.4839
09	200.000	0.4751									

n-Butylbenzene Average RF RSD = 7.0 Average RF = 2.192

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.514	02	1.000	2.200	03	2.000	2.249	04	5.000	2.276
05	20.000	2.054	06	50.000	2.236	07	100.000	2.118	08	150.000	2.078
09	200.000	2.007									

n-Heptane Average RF RSD = 10.4 Average RF = 0.4636

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5783	02	1.000	0.4790	03	2.000	0.4670	04	5.000	0.4642
05	20.000	0.4363	06	50.000	0.4683	07	100.000	0.4339	08	150.000	0.4310
09	200.000	0.4140									

n-Propylbenzene Average RF RSD = 7.0 Average RF = 3.476

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.894	02	1.000	3.569	03	2.000	3.595	04	5.000	3.694
05	20.000	3.164	06	50.000	3.535	07	100.000	3.328	08	150.000	3.327
09	200.000	3.179									

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte **Curve Fit** Average RF **Weighting** 1/X

o-Xylene Average RF RSD = 10.0 Average RF = 0.5537

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6337	02	1.000	0.5962	03	2.000	0.5917	04	5.000	0.6069
05	20.000	0.5015	06	50.000	0.5548	07	100.000	0.5125	08	150.000	0.5071
09	200.000	0.4789									

sec-Butylbenzene Average RF RSD = 6.0 Average RF = 2.815

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.928	02	1.000	3.015	03	2.000	2.979	04	5.000	2.980
05	20.000	2.591	06	50.000	2.825	07	100.000	2.711	08	150.000	2.717
09	200.000	2.594									

tert-Amyl Methyl Ether Average RF RSD = 6.7 Average RF = 0.8825

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9527	02	1.000	0.8960	03	2.000	0.9278	04	5.000	0.9665
05	20.000	0.8229	06	50.000	0.8787	07	100.000	0.8637	08	150.000	0.8379
09	200.000	0.7959									

tert-Butylbenzene Average RF RSD = 6.8 Average RF = 1.987

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.159	02	1.000	2.079	03	2.000	2.160	04	5.000	2.053
05	20.000	1.783	06	50.000	1.968	07	100.000	1.894	08	150.000	1.933
09	200.000	1.853									

trans-1,2-Dichloroethene Average RF RSD = 8.8 Average RF = 0.5329

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5989	02	1.000	0.5688	03	2.000	0.5712	04	5.000	0.5779
05	20.000	0.4708	06	50.000	0.5284	07	100.000	0.4911	08	150.000	0.5003
09	200.000	0.4889									

trans-1,3-Dichloropropene Average RF RSD = 4.7 Average RF = 0.4833

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5216	02	1.000	0.4818	03	2.000	0.4945	04	5.000	0.4903
05	20.000	0.4397	06	50.000	0.4991	07	100.000	0.4795	08	150.000	0.4744
09	200.000	0.4692									

trans-1,4-Dichloro-2-butene Average RF RSD = 14.1 Average RF = 0.1606

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1557	03	2.000	0.1337	04	5.000	0.1285	05	20.000	0.1477
06	50.000	0.1709	07	100.000	0.1784	08	150.000	0.1835	09	200.000	0.1866

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.7	02	1.000	1.05	4.5	03	2.000	1.94	-2.9
04	5.000	5.40	8.0	05	20.000	18.90	-5.5	06	50.000	52.39	4.8
07	100.000	98.12	-1.9	08	150.000	147.99	-1.3	09	200.000	190.14	-4.9

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.1	02	1.000	1.07	6.6	03	2.000	2.11	5.6
04	5.000	5.09	1.7	05	20.000	18.10	-9.5	06	50.000	52.64	5.3
07	100.000	98.08	-1.9	08	150.000	147.11	-1.9	09	200.000	192.47	-3.8

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.7	02	1.000	0.99	-0.9	03	2.000	1.87	-6.4
04	5.000	4.94	-1.2	05	20.000	19.39	-3.1	06	50.000	51.71	3.4
07	100.000	101.68	1.7	08	150.000	155.38	3.6	09	200.000	204.61	2.3

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	23.2	02	1.000	1.02	2.1	03	2.000	1.88	-6.1
04	5.000	5.54	10.8	05	20.000	19.02	-4.9	06	50.000	49.72	-0.6
07	100.000	93.27	-6.7	08	150.000	139.24	-7.2	09	200.000	178.58	-10.7

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.3	02	1.000	1.14	13.6	03	2.000	2.03	1.7
04	5.000	5.26	5.1	05	20.000	18.07	-9.6	06	50.000	51.25	2.5
07	100.000	96.87	-3.1	08	150.000	140.96	-6.0	09	200.000	183.03	-8.5

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.5	02	1.000	1.07	7.2	03	2.000	2.05	2.7
04	5.000	5.24	4.8	05	20.000	18.14	-9.3	06	50.000	50.66	1.3
07	100.000	94.29	-5.7	08	150.000	141.07	-6.0	09	200.000	184.83	-7.6

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.1	02	1.000	1.04	4.1	03	2.000	2.23	11.4
04	5.000	5.18	3.6	05	20.000	17.86	-10.7	06	50.000	50.80	1.6
07	100.000	98.19	-1.8	08	150.000	142.15	-5.2	09	200.000	189.98	-5.0

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.9	02	1.000	0.98	-2.3	03	2.000	2.19	9.7
04	5.000	5.55	11.1	05	20.000	17.95	-10.2	06	50.000	50.94	1.9
07	100.000	94.15	-5.8	08	150.000	141.17	-5.9	09	200.000	185.30	-7.3

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.8	02	1.000	0.91	-9.4	03	2.000	1.95	-2.5
04	5.000	4.86	-2.8	05	20.000	18.11	-9.4	06	50.000	52.31	4.6
07	100.000	101.76	1.8	08	150.000	158.31	5.5	09	200.000	206.95	3.5

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	1.16	15.9	03	2.000	1.99	-0.4
04	5.000	5.13	2.5	05	20.000	18.64	-6.8	06	50.000	46.34	-7.3
07	100.000	91.86	-8.1	08	150.000	140.50	-6.3	09	200.000	185.18	-7.4

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.9	02	1.000	0.97	-2.8	03	2.000	1.92	-4.0
04	5.000	5.06	1.2	05	20.000	18.70	-6.5	06	50.000	52.87	5.7
07	100.000	100.42	0.4	08	150.000	156.56	4.4	09	200.000	206.87	3.4

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.8	02	1.000	1.01	1.4	03	2.000	2.09	4.6
04	5.000	5.28	5.7	05	20.000	18.55	-7.2	06	50.000	50.26	0.5
07	100.000	95.60	-4.4	08	150.000	144.59	-3.6	09	200.000	182.59	-8.7

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.29	28.9	03	2.000	1.85	-7.3	04	5.000	4.90	-2.1
05	20.000	17.15	-14.3	06	50.000	47.93	-4.1	07	100.000	96.12	-3.9
08	150.000	150.21	0.1	09	200.000	205.17	2.6				

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.1	02	1.000	0.98	-2.2	03	2.000	2.03	1.6
04	5.000	5.10	1.9	05	20.000	18.96	-5.2	06	50.000	52.15	4.3
07	100.000	97.90	-2.1	08	150.000	149.07	-0.6	09	200.000	196.39	-1.8

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.9	02	1.000	1.07	7.1	03	2.000	2.10	5.0
04	5.000	5.53	10.6	05	20.000	19.29	-3.5	06	50.000	49.13	-1.7
07	100.000	89.95	-10.0	08	150.000	128.34	-14.4	09	200.000	168.20	-15.9

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	3.0	02	1.000	1.03	2.9	03	2.000	2.03	1.7
04	5.000	5.21	4.2	05	20.000	18.85	-5.8	06	50.000	50.44	0.9
07	100.000	97.17	-2.8	08	150.000	149.11	-0.6	09	200.000	193.07	-3.5

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.4	02	1.000	1.07	6.8	03	2.000	2.05	2.7
04	5.000	5.49	9.8	05	20.000	19.00	-5.0	06	50.000	51.58	3.2
07	100.000	95.12	-4.9	08	150.000	141.89	-5.4	09	200.000	184.83	-7.6

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.65	3.3	03	60.000	62.64	4.4	04	70.000	73.07	4.4
05	100.000	99.52	-0.5	07	125.000	119.10	-4.7	08	150.000	139.69	-6.9

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.6	02	1.000	1.11	11.2	03	2.000	2.11	5.6
04	5.000	5.35	7.0	05	20.000	18.75	-6.3	06	50.000	50.11	0.2
07	100.000	90.92	-9.1	08	150.000	134.86	-10.1	09	200.000	173.73	-13.1

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.1	02	1.000	0.97	-3.0	03	2.000	1.95	-2.4
04	5.000	5.13	2.6	05	20.000	18.53	-7.3	06	50.000	49.99	0.0
07	100.000	102.79	2.8	08	150.000	150.24	0.2	09	200.000	194.23	-2.9

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.1	02	1.000	1.11	10.8	03	2.000	2.16	7.9
04	5.000	5.32	6.4	05	20.000	18.17	-9.1	06	50.000	49.76	-0.5
07	100.000	94.82	-5.2	08	150.000	140.22	-6.5	09	200.000	180.21	-9.9

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.3	02	1.000	1.05	4.8	03	2.000	2.12	5.9
04	5.000	5.36	7.2	05	20.000	18.28	-8.6	06	50.000	49.90	-0.2
07	100.000	95.95	-4.1	08	150.000	146.22	-2.5	09	200.000	188.19	-5.9

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.7	02	1.000	1.10	10.2	03	2.000	2.10	5.2
04	5.000	5.18	3.5	05	20.000	19.19	-4.0	06	50.000	50.18	0.4
07	100.000	93.70	-6.3	08	150.000	141.09	-5.9	09	200.000	182.61	-8.7

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.5	02	1.000	1.08	8.2	03	2.000	2.05	2.4
04	5.000	5.23	4.5	05	20.000	18.40	-8.0	06	50.000	49.26	-1.5
07	100.000	94.54	-5.5	08	150.000	141.57	-5.6	09	200.000	181.73	-9.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	44.36	10.9	04	100.000	100.85	0.9	05	400.000	428.37	7.1
06	1000.000	959.71	-4.0	07	2000.000	1,918.36	-4.1	08	3000.000	2,773.58	-7.5
09	4000.000	3,872.25	-3.2								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	34.30	-31.4	03	100.000	95.93	-4.1	04	250.000	242.89	-2.8
05	1000.000	1,050.06	5.0	06	2500.000	2,769.74	10.8	07	5000.000	5,454.47	9.1
08	7500.000	7,996.95	6.6	09	10000.000	10,681.16	6.8				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.6	02	1.000	1.04	3.6	03	2.000	2.00	-0.2
04	5.000	5.28	5.6	05	20.000	18.58	-7.1	06	50.000	49.37	-1.3
07	100.000	101.08	1.1	08	150.000	142.91	-4.7	09	200.000	182.82	-8.6

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	5.7	02	1.000	1.04	4.1	03	2.000	2.20	10.0
04	5.000	5.48	9.5	05	20.000	19.01	-5.0	06	50.000	50.51	1.0
07	100.000	91.90	-8.1	08	150.000	139.22	-7.2	09	200.000	179.69	-10.2

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.6	02	1.000	1.14	13.7	03	2.000	2.07	3.5
04	5.000	5.09	1.7	05	20.000	17.28	-13.6	06	50.000	50.27	0.5
07	100.000	95.28	-4.7	08	150.000	141.37	-5.8	09	200.000	183.88	-8.1

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.9	02	1.000	0.98	-2.2	03	2.000	1.95	-2.5
04	5.000	4.88	-2.3	05	20.000	17.93	-10.4	06	50.000	50.65	1.3
07	100.000	106.63	6.6	08	150.000	154.59	3.1	09	200.000	196.92	-1.5

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	21.4	02	1.000	1.05	5.2	03	2.000	1.79	-10.5
04	5.000	4.63	-7.5	05	20.000	17.45	-12.7	06	50.000	50.24	0.5
07	100.000	104.41	4.4	08	150.000	151.11	0.7	09	200.000	196.79	-1.6

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.73	15.0	02	3.000	2.83	-5.7	03	6.000	5.94	-1.0
04	15.000	15.13	0.8	05	60.000	55.74	-7.1	06	150.000	148.43	-1.0
07	300.000	310.66	3.6	08	450.000	445.73	-0.9	09	600.000	578.26	-3.6

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.3	02	1.000	0.92	-8.0	03	2.000	1.96	-2.2
04	5.000	5.11	2.1	05	20.000	18.66	-6.7	06	50.000	51.30	2.6
07	100.000	105.61	5.6	08	150.000	150.31	0.2	09	200.000	195.95	-2.0

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.9	02	1.000	1.04	4.4	03	2.000	2.09	4.5
04	5.000	5.15	3.0	05	20.000	18.49	-7.6	06	50.000	49.32	-1.4
07	100.000	103.52	3.5	08	150.000	152.08	1.4	09	200.000	190.03	-5.0

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.1	02	1.000	1.02	1.8	03	2.000	2.06	3.0
04	5.000	5.01	0.1	05	20.000	19.64	-1.8	06	50.000	50.12	0.2
07	100.000	96.33	-3.7	08	150.000	141.27	-5.8	09	200.000	192.04	-4.0

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.1	02	1.000	1.02	2.3	03	2.000	2.10	4.8
04	5.000	5.19	3.9	05	20.000	19.89	-0.6	06	50.000	50.06	0.1
07	100.000	99.67	-0.3	08	150.000	143.40	-4.4	09	200.000	182.31	-8.8

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.6	02	1.000	0.96	-3.8	03	2.000	2.14	6.8
04	5.000	5.15	3.0	05	20.000	18.40	-8.0	06	50.000	49.52	-1.0
07	100.000	100.73	0.7	08	150.000	141.93	-5.4	09	200.000	180.15	-9.9

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	24.8	02	1.000	0.94	-6.0	03	2.000	1.90	-4.8
04	5.000	4.86	-2.9	05	20.000	18.82	-5.9	06	50.000	49.18	-1.6
07	100.000	102.75	2.8	08	150.000	146.07	-2.6	09	200.000	192.74	-3.6

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	15.8	02	1.000	1.02	2.5	03	2.000	2.05	2.5
04	5.000	5.26	5.2	05	20.000	17.93	-10.4	06	50.000	50.33	0.7
07	100.000	95.81	-4.2	08	150.000	141.66	-5.6	09	200.000	187.00	-6.5

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.05	2.6	04	5.000	4.90	-2.0	05	20.000	21.13	5.7
06	50.000	51.69	3.4	07	100.000	100.58	0.6	08	150.000	145.48	-3.0
09	200.000	185.41	-7.3								

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	10.20	2.0	02	20.000	20.50	2.5	03	40.000	40.93	2.3
04	100.000	106.59	6.6	05	400.000	390.40	-2.4	06	1000.000	987.13	-1.3
07	2000.000	1,868.94	-6.6	08	3000.000	2,883.65	-3.9	09	4000.000	4,027.61	0.7

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	10.000	10.80	8.0	02	20.000	20.49	2.4	03	40.000	40.29	0.7
04	100.000	101.51	1.5	05	400.000	391.09	-2.2	06	1000.000	1,006.57	0.7
07	2000.000	1,916.56	-4.2	08	3000.000	2,842.36	-5.3	09	4000.000	3,932.08	-1.7

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.95	-4.8	02	2.000	2.02	0.9	03	4.000	3.24	-19.1
04	10.000	9.16	-8.4	05	40.000	35.97	-10.1	06	100.000	105.45	5.5
07	200.000	209.52	4.8	08	300.000	348.77	16.3	09	400.000	460.58	15.1

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	23.46	17.3	03	40.000	40.60	1.5	04	100.000	103.42	3.4
05	400.000	396.49	-0.9	06	1000.000	1,001.88	0.2	07	2000.000	1,876.83	-6.2
08	3000.000	2,741.96	-8.6	09	4000.000	3,729.00	-6.8				

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.96	-3.8	02	2.000	2.01	0.5	03	4.000	4.08	1.9
04	10.000	10.06	0.6	05	40.000	37.95	-5.1	06	100.000	101.88	1.9
07	200.000	209.20	4.6	08	300.000	303.70	1.2	09	400.000	392.72	-1.8

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.2	02	1.000	1.05	4.7	03	2.000	1.97	-1.5
04	5.000	5.26	5.2	05	20.000	18.10	-9.5	06	50.000	47.91	-4.2
07	100.000	102.64	2.6	08	150.000	148.00	-1.3	09	200.000	189.44	-5.3

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.3	02	1.000	1.02	1.9	03	2.000	2.13	6.4
04	5.000	5.53	10.5	05	20.000	18.60	-7.0	06	50.000	51.95	3.9
07	100.000	99.54	-0.5	08	150.000	138.42	-7.7	09	200.000	178.29	-10.9

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.4	02	1.000	1.03	3.1	03	2.000	2.02	1.2
04	5.000	5.26	5.1	05	20.000	18.85	-5.8	06	50.000	50.90	1.8
07	100.000	100.95	0.9	08	150.000	142.36	-5.1	09	200.000	184.62	-7.7

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.8	02	1.000	0.99	-0.7	03	2.000	2.04	2.2
04	5.000	5.35	7.1	05	20.000	18.81	-6.0	06	50.000	49.06	-1.9
07	100.000	101.02	1.0	08	150.000	144.09	-3.9	09	200.000	186.62	-6.7

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	54.09	8.2	03	60.000	62.90	4.8	04	70.000	71.52	2.2
05	100.000	97.37	-2.6	07	125.000	118.75	-5.0	08	150.000	138.69	-7.5

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.2	02	1.000	1.05	5.2	03	2.000	2.14	7.2
04	5.000	5.33	6.6	05	20.000	18.34	-8.3	06	50.000	49.93	-0.1
07	100.000	97.48	-2.5	08	150.000	145.83	-2.8	09	200.000	189.18	-5.4

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.0	02	1.000	1.00	0.2	03	2.000	2.02	1.2
04	5.000	5.30	6.0	05	20.000	18.52	-7.4	06	50.000	49.99	0.0
07	100.000	95.78	-4.2	08	150.000	143.78	-4.1	09	200.000	184.77	-7.6

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.99	-1.3	03	2.000	1.92	-4.0	04	5.000	5.06	1.1
05	20.000	20.49	2.4	06	50.000	51.55	3.1	07	100.000	103.18	3.2
08	150.000	148.09	-1.3	09	200.000	193.39	-3.3				

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	6.39	27.8	05	20.000	21.98	9.9	06	50.000	50.59	1.2
07	100.000	93.67	-6.3	08	150.000	127.34	-15.1	09	200.000	165.13	-17.4

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	6.07	21.5	03	10.000	10.46	4.6	04	50.000	30.01	-40.0
05	100.000	99.09	-0.9	06	250.000	272.41	9.0	07	500.000	515.11	3.0
08	750.000	744.47	-0.7	09	1000.000	1,035.62	3.6				

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	3.09	23.7	02	5.000	5.33	6.5	03	10.000	9.68	-3.2
04	25.000	25.76	3.1	05	100.000	98.46	-1.5	06	250.000	243.88	-2.4
07	500.000	482.06	-3.6	08	750.000	678.92	-9.5	09	1000.000	869.41	-13.1

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.78	11.3	02	5.000	5.20	4.0	03	10.000	9.45	-5.5
04	25.000	25.90	3.6	05	100.000	98.78	-1.2	06	250.000	254.19	1.7
07	500.000	476.62	-4.7	08	750.000	715.51	-4.6	09	1000.000	953.44	-4.7

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.8	02	1.000	1.03	3.2	03	2.000	2.23	11.5
04	5.000	5.35	7.0	05	20.000	17.91	-10.5	06	50.000	50.17	0.3
07	100.000	91.78	-8.2	08	150.000	135.44	-9.7	09	200.000	175.25	-12.4

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.1	02	1.000	0.99	-1.4	03	2.000	1.99	-0.5
04	5.000	5.44	8.8	05	20.000	18.74	-6.3	06	50.000	50.16	0.3
07	100.000	97.18	-2.8	08	150.000	147.96	-1.4	09	200.000	194.11	-2.9

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.6	02	1.000	1.07	7.3	03	2.000	2.04	1.8
04	5.000	5.00	0.0	05	20.000	19.02	-4.9	06	50.000	50.36	0.7
07	100.000	92.39	-7.6	08	150.000	140.53	-6.3	09	200.000	184.64	-7.7

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.3	02	1.000	0.92	-7.7	03	2.000	2.07	3.6
04	5.000	5.24	4.7	05	20.000	19.06	-4.7	06	50.000	52.62	5.2
07	100.000	99.17	-0.8	08	150.000	150.54	0.4	09	200.000	198.03	-1.0

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.8	02	1.000	0.90	-10.1	03	2.000	2.00	-0.2
04	5.000	4.85	-3.0	05	20.000	19.36	-3.2	06	50.000	53.99	8.0
07	100.000	104.03	4.0	08	150.000	153.92	2.6	09	200.000	202.19	1.1

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.1	02	1.000	1.13	12.9	03	2.000	1.87	-6.4
04	5.000	4.94	-1.2	05	20.000	17.65	-11.8	06	50.000	52.43	4.9
07	100.000	97.34	-2.7	08	150.000	147.76	-1.5	09	200.000	199.21	-0.4

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.0	02	1.000	1.00	0.4	03	2.000	2.05	2.5
04	5.000	5.24	4.8	05	20.000	20.06	0.3	06	50.000	51.67	3.3
07	100.000	101.77	1.8	08	150.000	142.66	-4.9	09	200.000	181.49	-9.3

Initial Calibration - Detailed Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Signal ID: 1

Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.8	02	1.000	1.05	5.1	03	2.000	2.02	1.2
04	5.000	5.18	3.6	05	20.000	17.87	-10.6	06	50.000	51.18	2.4
07	100.000	95.66	-4.3	08	150.000	143.87	-4.1	09	200.000	189.89	-5.1

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.2	02	1.000	1.04	3.7	03	2.000	2.08	3.8
04	5.000	5.51	10.1	05	20.000	18.31	-8.5	06	50.000	52.24	4.5
07	100.000	97.30	-2.7	08	150.000	144.24	-3.8	09	200.000	186.11	-6.9

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.66	32.0	02	1.000	1.04	3.8	03	2.000	2.00	0.1
04	5.000	4.86	-2.8	05	20.000	17.32	-13.4	06	50.000	49.86	-0.3
07	100.000	93.45	-6.5	08	150.000	142.09	-5.3	09	200.000	184.87	-7.6

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.3	02	1.000	1.06	5.7	03	2.000	2.08	3.9
04	5.000	5.34	6.9	05	20.000	18.03	-9.9	06	50.000	50.84	1.7
07	100.000	92.75	-7.3	08	150.000	139.27	-7.2	09	200.000	183.74	-8.1

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.64	27.4	02	1.000	1.14	13.5	03	2.000	1.94	-3.2
04	5.000	4.91	-1.8	05	20.000	17.07	-14.7	06	50.000	49.58	-0.8
07	100.000	91.83	-8.2	08	150.000	141.80	-5.5	09	200.000	186.23	-6.9

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.2	02	1.000	0.97	-2.5	03	2.000	2.04	1.8
04	5.000	5.50	9.9	05	20.000	19.07	-4.6	06	50.000	51.85	3.7
07	100.000	94.53	-5.5	08	150.000	143.08	-4.6	09	200.000	181.22	-9.4

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	22.96	14.8	03	40.000	43.35	8.4	04	100.000	111.38	11.4
05	400.000	418.58	4.6	06	1000.000	994.84	-0.5	07	2000.000	1,754.70	-12.3
08	3000.000	2,578.99	-14.0	09	4000.000	3,504.62	-12.4				

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.7	02	1.000	1.04	4.1	03	2.000	1.98	-0.8
04	5.000	5.19	3.8	05	20.000	19.17	-4.1	06	50.000	51.49	3.0
07	100.000	99.23	-0.8	08	150.000	149.76	-0.2	09	200.000	195.11	-2.4

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	51.93	3.9	03	60.000	62.27	3.8	04	70.000	71.31	1.9
05	100.000	99.34	-0.7	07	125.000	119.85	-4.1	08	150.000	142.91	-4.7

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.1	02	1.000	0.99	-1.1	03	2.000	2.08	4.1
04	5.000	5.46	9.2	05	20.000	19.71	-1.4	06	50.000	52.25	4.5
07	100.000	95.31	-4.7	08	150.000	143.34	-4.4	09	200.000	187.78	-6.1

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.9	02	1.000	0.92	-8.2	03	2.000	1.90	-5.0
04	5.000	4.77	-4.7	05	20.000	18.65	-6.7	06	50.000	54.11	8.2
07	100.000	103.64	3.6	08	150.000	157.32	4.9	09	200.000	204.00	2.0

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.6	02	1.000	1.07	7.3	03	2.000	2.05	2.7
04	5.000	5.20	4.0	05	20.000	18.99	-5.0	06	50.000	51.32	2.6
07	100.000	94.57	-5.4	08	150.000	142.86	-4.8	09	200.000	183.92	-8.0

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.0	02	1.000	1.13	13.3	03	2.000	2.22	11.1
04	5.000	5.28	5.5	05	20.000	17.61	-11.9	06	50.000	48.22	-3.6
07	100.000	89.14	-10.9	08	150.000	134.58	-10.3	09	200.000	177.41	-11.3

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.4	02	1.000	1.11	11.1	03	2.000	2.18	9.2
04	5.000	5.30	6.0	05	20.000	19.26	-3.7	06	50.000	50.44	0.9
07	100.000	92.68	-7.3	08	150.000	137.11	-8.6	09	200.000	179.87	-10.1

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.9	02	1.000	1.10	10.5	03	2.000	2.11	5.4
04	5.000	5.51	10.1	05	20.000	18.12	-9.4	06	50.000	48.12	-3.8
07	100.000	94.45	-5.5	08	150.000	135.76	-9.5	09	200.000	170.47	-14.8

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.3	02	1.000	1.06	6.2	03	2.000	2.02	1.0
04	5.000	5.26	5.1	05	20.000	19.53	-2.3	06	50.000	51.05	2.1
07	100.000	97.03	-3.0	08	150.000	142.69	-4.9	09	200.000	188.97	-5.5

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.4	02	1.000	1.08	8.5	03	2.000	2.02	0.8
04	5.000	5.49	9.8	05	20.000	18.46	-7.7	06	50.000	49.79	-0.4
07	100.000	98.83	-1.2	08	150.000	143.03	-4.6	09	200.000	182.88	-8.6

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.6	02	1.000	1.06	5.6	03	2.000	2.17	8.7
04	5.000	5.47	9.4	05	20.000	18.47	-7.6	06	50.000	50.88	1.8
07	100.000	93.42	-6.6	08	150.000	135.87	-9.4	09	200.000	172.93	-13.5

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	17.1	02	1.000	0.99	-1.0	03	2.000	1.81	-9.4
04	5.000	4.73	-5.3	05	20.000	18.42	-7.9	06	50.000	50.34	0.7
07	100.000	99.42	-0.6	08	150.000	154.23	2.8	09	200.000	207.46	3.7

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.5	02	1.000	1.03	2.7	03	2.000	1.90	-4.8
04	5.000	5.06	1.3	05	20.000	19.86	-0.7	06	50.000	51.44	2.9
07	100.000	105.42	5.4	08	150.000	150.59	0.4	09	200.000	196.88	-1.6

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.8	02	1.000	1.12	12.4	03	2.000	2.22	10.8
04	5.000	5.21	4.1	05	20.000	18.41	-7.9	06	50.000	51.06	2.1
07	100.000	94.90	-5.1	08	150.000	138.29	-7.8	09	200.000	175.09	-12.5

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.63	25.5	02	1.000	1.06	6.0	03	2.000	1.81	-9.7
04	5.000	5.18	3.6	05	20.000	18.79	-6.0	06	50.000	50.91	1.8
07	100.000	91.63	-8.4	08	150.000	139.17	-7.2	09	200.000	188.87	-5.6

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.1	02	1.000	1.02	2.5	03	2.000	2.00	0.0
04	5.000	5.41	8.3	05	20.000	19.30	-3.5	06	50.000	49.87	-0.3
07	100.000	93.15	-6.9	08	150.000	136.76	-8.8	09	200.000	181.36	-9.3

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.0	02	1.000	1.03	3.1	03	2.000	2.23	11.4
04	5.000	4.75	-5.0	05	20.000	19.49	-2.5	06	50.000	52.01	4.0
07	100.000	98.14	-1.9	08	150.000	149.54	-0.3	09	200.000	198.33	-0.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.6	02	1.000	1.06	5.6	03	2.000	2.00	0.0
04	5.000	5.37	7.5	05	20.000	19.21	-3.9	06	50.000	50.56	1.1
07	100.000	95.12	-4.9	08	150.000	141.78	-5.5	09	200.000	189.06	-5.5

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	16.6	02	1.000	1.10	9.7	03	2.000	2.10	5.0
04	5.000	5.51	10.3	05	20.000	18.67	-6.6	06	50.000	49.70	-0.6
07	100.000	90.79	-9.2	08	150.000	134.89	-10.1	09	200.000	169.94	-15.0

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	-0.5	02	1.000	0.99	-1.0	03	2.000	1.92	-4.2
04	5.000	4.97	-0.6	05	20.000	18.74	-6.3	06	50.000	51.90	3.8
07	100.000	100.86	0.9	08	150.000	155.73	3.8	09	200.000	208.34	4.2

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	3.34	33.7	02	5.000	5.22	4.3	03	10.000	9.36	-6.4
04	25.000	26.59	6.3	05	100.000	93.06	-6.9	06	250.000	245.87	-1.7
07	500.000	451.62	-9.7	08	750.000	671.07	-10.5	09	1000.000	908.38	-9.2

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.6	02	1.000	1.04	4.3	03	2.000	2.22	11.0
04	5.000	5.61	12.2	05	20.000	18.78	-6.1	06	50.000	51.26	2.5
07	100.000	93.76	-6.2	08	150.000	135.49	-9.7	09	200.000	170.78	-14.6

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.1	02	1.000	1.10	9.8	03	2.000	2.10	5.0
04	5.000	5.41	8.3	05	20.000	17.85	-10.7	06	50.000	50.90	1.8
07	100.000	95.29	-4.7	08	150.000	143.13	-4.6	09	200.000	184.14	-7.9

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.29	29.3	03	2.000	2.20	10.0	04	5.000	5.03	0.5
05	20.000	18.49	-7.6	06	50.000	47.70	-4.6	07	100.000	90.60	-9.4
08	150.000	137.03	-8.6	09	200.000	180.88	-9.6				

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.9	02	1.000	1.06	5.8	03	2.000	2.08	4.1
04	5.000	5.54	10.8	05	20.000	18.17	-9.2	06	50.000	51.07	2.1
07	100.000	93.65	-6.3	08	150.000	137.67	-8.2	09	200.000	173.98	-13.0

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	54.13	8.3	03	60.000	63.11	5.2	04	70.000	70.81	1.2
05	100.000	97.21	-2.8	07	125.000	118.88	-4.9	08	150.000	139.63	-6.9

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.6	02	1.000	1.05	4.6	03	2.000	2.08	4.0
04	5.000	5.43	8.7	05	20.000	18.30	-8.5	06	50.000	52.16	4.3
07	100.000	96.05	-3.9	08	150.000	145.03	-3.3	09	200.000	187.15	-6.4

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	15.0	02	1.000	0.87	-12.9	03	2.000	2.14	7.2
04	5.000	5.25	5.1	05	20.000	17.98	-10.1	06	50.000	51.36	2.7
07	100.000	96.90	-3.1	08	150.000	144.75	-3.5	09	200.000	199.40	-0.3

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.8	02	1.000	0.74	-25.9	03	2.000	1.86	-6.8
04	5.000	5.05	1.1	05	20.000	21.14	5.7	06	50.000	49.38	-1.2
07	100.000	111.31	11.3	08	150.000	155.39	3.6	09	200.000	210.97	5.5

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.5	02	1.000	1.01	1.4	03	2.000	1.96	-2.1
04	5.000	5.28	5.5	05	20.000	17.81	-11.0	06	50.000	52.99	6.0
07	100.000	97.87	-2.1	08	150.000	147.33	-1.8	09	200.000	200.96	0.5

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.11	11.3	03	2.000	2.15	7.5
04	5.000	5.23	4.7	05	20.000	17.94	-10.3	06	50.000	51.32	2.6
07	100.000	93.26	-6.7	08	150.000	143.47	-4.4	09	200.000	185.48	-7.3

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.6	02	1.000	1.00	0.4	03	2.000	2.00	0.1
04	5.000	5.05	1.0	05	20.000	18.64	-6.8	06	50.000	51.41	2.8
07	100.000	96.64	-3.4	08	150.000	146.03	-2.6	09	200.000	192.03	-4.0

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.14	13.7	02	2.000	2.20	9.9	03	4.000	4.25	6.3
04	10.000	10.87	8.7	05	40.000	36.68	-8.3	06	100.000	100.13	0.1
07	200.000	184.72	-7.6	08	300.000	272.32	-9.2	09	400.000	345.51	-13.6

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.1	02	1.000	0.98	-2.2	03	2.000	2.01	0.5
04	5.000	5.29	5.9	05	20.000	19.64	-1.8	06	50.000	51.07	2.1
07	100.000	96.46	-3.5	08	150.000	143.72	-4.2	09	200.000	188.15	-5.9

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.6	02	1.000	1.00	0.3	03	2.000	2.05	2.6
04	5.000	5.19	3.8	05	20.000	18.74	-6.3	06	50.000	50.99	2.0
07	100.000	96.60	-3.4	08	150.000	142.19	-5.2	09	200.000	183.10	-8.5

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	24.8	02	1.000	1.03	3.3	03	2.000	2.01	0.7
04	5.000	5.01	0.1	05	20.000	18.82	-5.9	06	50.000	50.51	1.0
07	100.000	93.60	-6.4	08	150.000	139.46	-7.0	09	200.000	178.63	-10.7

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.0	02	1.000	1.03	2.7	03	2.000	2.07	3.4
04	5.000	5.31	6.3	05	20.000	18.20	-9.0	06	50.000	50.84	1.7
07	100.000	95.74	-4.3	08	150.000	143.58	-4.3	09	200.000	182.92	-8.5

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.4	02	1.000	1.08	7.7	03	2.000	2.14	6.9
04	5.000	5.48	9.6	05	20.000	18.11	-9.4	06	50.000	50.10	0.2
07	100.000	92.56	-7.4	08	150.000	137.38	-8.4	09	200.000	172.98	-13.5

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.0	02	1.000	1.07	7.1	03	2.000	2.12	5.8
04	5.000	5.29	5.8	05	20.000	18.40	-8.0	06	50.000	50.17	0.3
07	100.000	96.29	-3.7	08	150.000	144.74	-3.5	09	200.000	184.23	-7.9

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.0	02	1.000	1.02	1.5	03	2.000	2.10	5.1
04	5.000	5.48	9.5	05	20.000	18.65	-6.7	06	50.000	49.79	-0.4
07	100.000	97.88	-2.1	08	150.000	142.42	-5.1	09	200.000	180.38	-9.8

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	8.7	02	1.000	1.05	4.6	03	2.000	2.17	8.7
04	5.000	5.17	3.3	05	20.000	17.95	-10.3	06	50.000	49.52	-1.0
07	100.000	95.33	-4.7	08	150.000	145.91	-2.7	09	200.000	186.52	-6.7

Initial Calibration - Detailed Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.4	02	1.000	1.07	6.7	03	2.000	2.14	7.2
04	5.000	5.42	8.4	05	20.000	17.67	-11.7	06	50.000	49.58	-0.8
07	100.000	92.15	-7.9	08	150.000	140.82	-6.1	09	200.000	183.48	-8.3

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.9	02	1.000	1.00	-0.3	03	2.000	2.05	2.3
04	5.000	5.07	1.4	05	20.000	18.19	-9.0	06	50.000	51.63	3.3
07	100.000	99.21	-0.8	08	150.000	147.21	-1.9	09	200.000	194.15	-2.9

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.97	-3.0	03	2.000	1.66	-16.8	04	5.000	4.00	-20.0
05	20.000	18.39	-8.0	06	50.000	53.18	6.4	07	100.000	111.08	11.1
08	150.000	171.32	14.2	09	200.000	232.38	16.2				

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:18 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	1090247	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1811514	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.03	117	1650068	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.62	152	808275	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	612143	52.43	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.86%				
48) surr1,1,2-Diclethane	10.34	65	622893	52.91	ppb		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.82%				
70) surr3,Toluene-d8	13.39	98	1941140	54.18	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.36%				
71) surr2,bfb	18.27	95	839018	53.95	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.39	85	7326	0.53	ppb		93
3) Chloromethane	4.74	50	9445	0.63	ppb		76
4) Vinyl Chloride	4.94	62	6911	0.51	ppb		66
5) Bromomethane	5.52	96	5187	0.55	ppb	#	38
6) Chloroethane	5.66	64	6683	0.66	ppb		85
7) FREON 21	5.90	67	13254	0.53	ppb		100
8) Trichlorofluoromethane	6.07	101	9255	0.58	ppb		81
9) Diethyl Ether	6.42	59	4965	0.51	ppb	#	64
10) FREON 123A	6.35	67	8911m	0.62	ppb		
11) FREON 123	6.41	83	8053	0.53	ppb		89
12) Acrolein	6.60	56	5380	3.10	ppb		94
13) FREON 113	6.76	101	5773	0.52	ppb		81
14) 1,1-Diclethene	6.81	96	4995	0.51	ppb	#	85
16) 2-Propanol	6.87	45	13412m	24.60	ppb		
17) Iodomethane	7.06	142	8548	0.47	ppb		94
18) Carbon Disulfide	7.22	76	22776	0.51	ppb		84
19) Acetonitrile	7.16	41	4130	3.97	ppb	#	1
20) Allyl Chloride	7.26	41	10820	0.51	ppb		87
21) Methyl Acetate	7.21	43	4531	0.58	ppb		97
22) Methylene Chloride	7.41	84	7385	0.59	ppb		85
23) TBA	7.40	59	8835	10.83	ppb		97
24) Acrylonitrile	7.67	53	9703	2.79	ppb		85
25) Methyl-t-Butyl Ether	7.76	73	15692	0.53	ppb		83
26) trans-1,2-Dichloroethene	7.80	96	6530	0.56	ppb	#	63
28) 1,1-Diclethane	8.38	63	11619	0.56	ppb		92
29) Vinyl Acetate	8.29	86	876m	0.54	ppb		
30) DIPE	8.36	45	28194	0.59	ppb		95
31) 2-Chloro-1,3-butadiene	8.51	53	11774	0.52	ppb		96
32) ETBE	8.85	59	20685	0.52	ppb		97
33) 2,2-Dichloropropane	9.21	77	9094	0.54	ppb		98
34) 2-Butanone	9.10	43	2935	0.55	ppb		61
35) cis-1,2-Dichloroethene	9.17	96	6387	0.52	ppb		95
36) Propionitrile	9.18	54	4075	3.33	ppb		85
37) Methacrylonitrile	9.42	67	2564	0.63	ppb		97
38) Bromochloromethane	9.51	128	3694m	0.58	ppb		

(#) = qualifier out of range (m) = manual integration
W0608A.D W032315.M Tue Mar 24 10:18:34 2015

KR 3/24/15

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:18 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	9.55	83	11586	0.57	ppb		85
40)	Tetrahydrofuran	9.60	42	1947	0.68	ppb	#	35
41)	1,1,1-Trichloroethane	9.95	97	7968	0.49	ppb	#	79
43)	Cyclohexane	10.10	56	12221	0.56	ppb		89
45)	Carbontetrachloride	10.21	117	7978	0.56	ppb	#	71
46)	1,1-Dichloropropene	10.16	75	8876	0.54	ppb		80
47)	Iso-Butyl Alcohol	10.00	43	4217	10.08	ppb		74
49)	Benzene	10.50	78	27888	0.59	ppb		73
50)	1,2-Dichloroethane	10.46	62	7475	0.50	ppb		99
51)	TAME	10.54	73	17259	0.54	ppb		95
52)	N-Heptane	10.75	43	10476	0.62	ppb		78
54)	Trichloroethene	11.43	95	6014	0.50	ppb	#	84
55)	Methylcyclohexane	11.80	55	10086	0.58	ppb		81
56)	1,2-Diclpropane	11.78	63	7475	0.57	ppb	#	74
57)	Methyl Methacrylate	11.78	100	1234m	0.46	ppb		
59)	Dibromomethane	11.98	93	3340	0.50	ppb	#	79
60)	Bromodichloromethane	12.16	83	7903	0.50	ppb		84
61)	2-Nitropropane	12.45	43	2333	0.95	ppb		91
62)	2-Chloroethylvinyl Ether	12.53	63	4341	0.62	ppb		93
63)	cis-1,3-Dichloropropene	12.88	75	11077m	0.57	ppb		
65)	4-Methyl-2-Pentanone	13.03	43	5508	0.55	ppb		96
66)	Toluene	13.52	91	25360	0.57	ppb		88
67)	trans-1,3-Dichloropropene	13.75	75	8606	0.54	ppb		86
68)	Ethyl Methacrylate	13.81	69	6534	0.51	ppb		97
69)	1,1,2-Trichloroethane	14.12	83	5115	0.62	ppb	#	66
72)	Tetrachloroethene	14.52	166	6311	0.52	ppb		89
73)	2-Hexanone	14.46	43	4344	0.65	ppb		100
74)	1,3-Dichloropropane	14.45	76	9196	0.53	ppb	#	73
75)	Butyl Acetate	14.62	43	9088	0.55	ppb		96
76)	Dibromochloromethane	14.92	129	5700	0.48	ppb		84
77)	1,2-Dibromoethane	15.20	107	4869	0.52	ppb	#	69
78)	Chlorobenzene	16.08	112	14695	0.50	ppb		79
79)	3-CBTF	15.84	180	8834	0.53	ppb		94
80)	4-CBTF	15.94	180	8381m	0.56	ppb		
81)	1,1,1,2-Tetrachloroethane	16.18	131	5423	0.49	ppb	#	82
82)	Ethylbenzene	16.23	91	27780	0.56	ppb		81
83)	(m+p)Xylene	16.42	106	20968	1.14	ppb		96
84)	o-Xylene	17.23	106	10456	0.57	ppb		93
85)	Styrene	17.23	104	16918	0.53	ppb		85
86)	Bromoform	17.66	173	3221	0.51	ppb	#	67
87)	2-CBTF	17.65	180	9305	0.59	ppb	#	72
88)	Isopropylbenzene	17.92	105	23886	0.52	ppb		87
89)	Cyclohexanone	18.16	55	13893	12.72	ppb		96
91)	1,1,2,2-Tetrachloroethane	18.42	83	5329	0.50	ppb		88
93)	1,2,3-Trichloropropane	18.57	110	1953	0.59	ppb	#	73
94)	n-Propylbenzene	18.75	91	31472	0.56	ppb		95
95)	Bromobenzene	18.66	156	6519	0.53	ppb	#	83
96)	1,3,5-Trimethylbenzene	19.05	105	19384	0.53	ppb		86
97)	2-Chlorotoluene	18.99	91	20635	0.58	ppb		90
98)	3-Chlorotoluene	19.10	91	19345m	0.54	ppb		

(#) = qualifier out of range (m) = manual integration
W0608A.D W032315.M Tue Mar 24 10:18:36 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:18 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

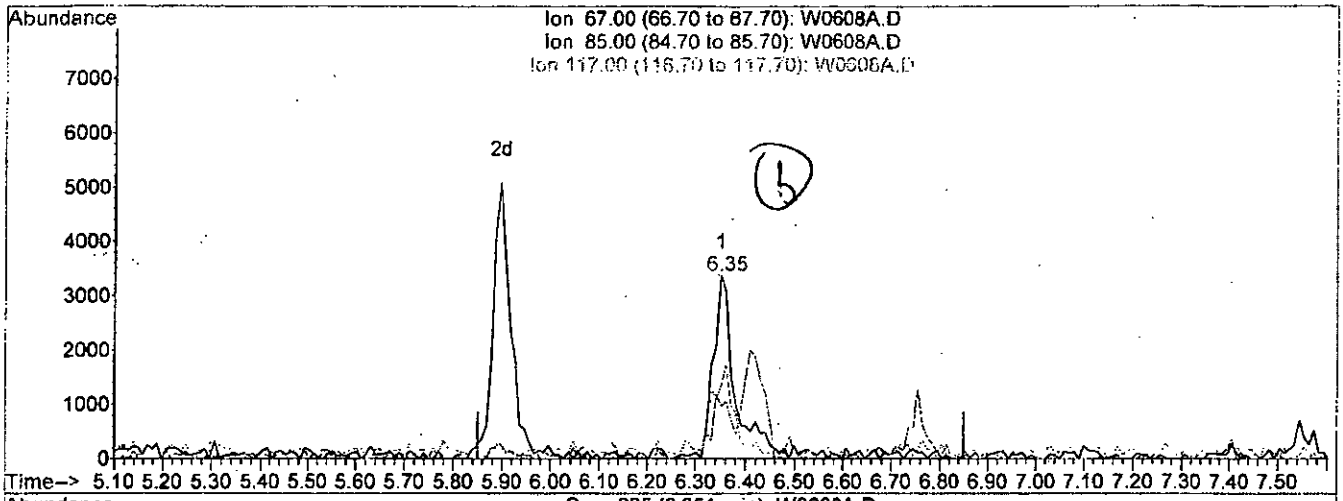
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
99)	4-Chlorotoluene	19.19	91	18051	0.50	ppb		95
100)	tert-Butylbenzene	19.77	119	17449	0.54	ppb		86
101)	1,2,4-Trimethylbenzene	19.85	105	20795	0.56	ppb		95
102)	3,4-DCBTF	19.91	214	6332	0.55	ppb		96
103)	sec-Butylbenzene	20.22	105	23666	0.52	ppb		87
104)	p-Isopropyltoluene	20.46	119	21997	0.58	ppb		97
105)	1,3-Dclbenz	20.50	146	11691	0.52	ppb		87
106)	1,4-Dclbenz	20.66	146	13011	0.57	ppb		96
107)	2,4-DCBTF	20.64	214	5352	0.54	ppb		96
108)	2,5-DCBTF	20.72	214	5579	0.49	ppb		95
109)	n-Butylbenzene	21.21	91	20316	0.57	ppb		93
110)	1,2-Dclbenz	21.36	146	11079	0.52	ppb		91
112)	Trielution Dichlorotoluene	23.08	125	30409m	1.73	ppb		
114)	1,3,5 Trichlorobenzene	23.22	180	8041	0.55	ppb		97
115)	Coelution Dichlorotoluene	23.89	125	17549	0.96	ppb		97
116)	1,2,4-Tcbenzene	24.43	180	6318	0.49	ppb		80
117)	Hexachlorobt	24.71	225	3059m	0.59	ppb		
118)	Naphthalen	24.96	128	13717	0.50	ppb		97
119)	1,2,3-Tclbenzene	25.44	180	5902	0.54	ppb	#	78
120)	2,4,5-Trichlorotoluene	27.01	159	4298m	0.61	ppb		
121)	2,3,6-Trichlorotoluene	27.31	159	3214	0.54	ppb		91

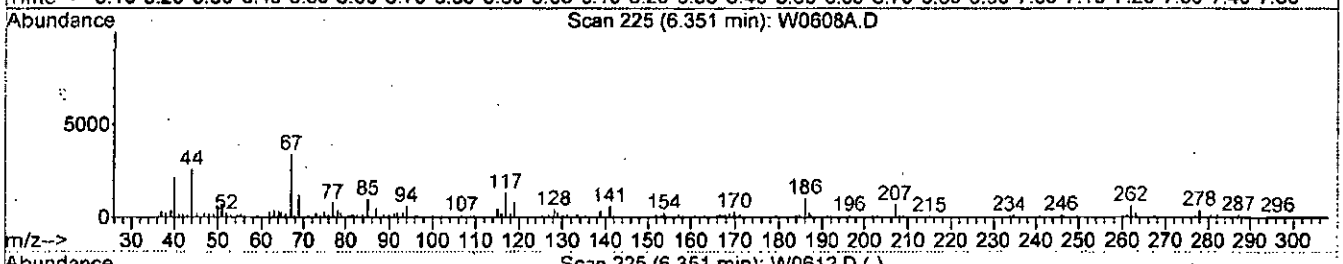
(#) = qualifier out of range (m) = manual integration
W0608A.D W032315.M Tue Mar 24 10:18:36 2015

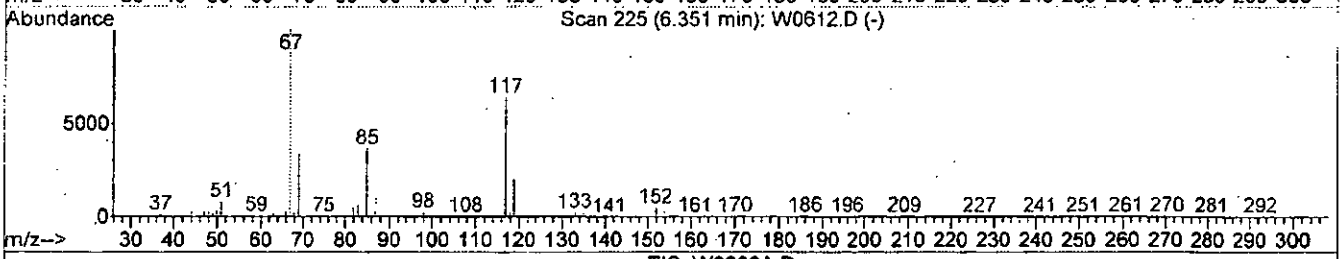
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:06 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(10) FREON 123A

6.35min 0.71ppb

response 10193

Ion	Exp%	Act%
67.00	100	100
85.00	36.30	28.41
117.00	65.00	39.51#
0.00	0.00	0.00

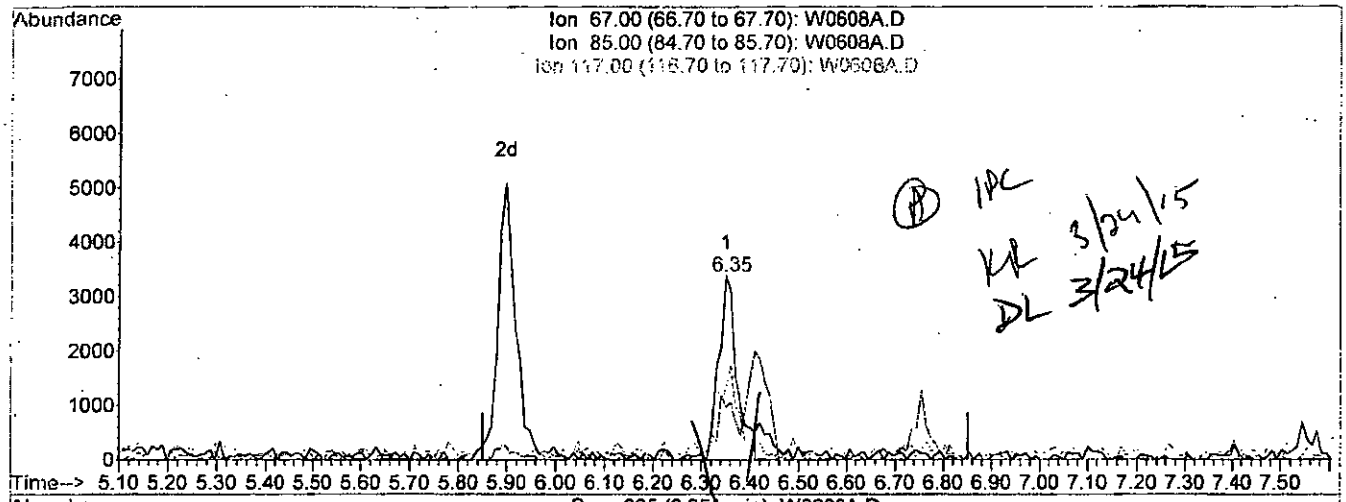
W0608A.D W032315.M Tue Mar 24 10:10:37 2015

00339

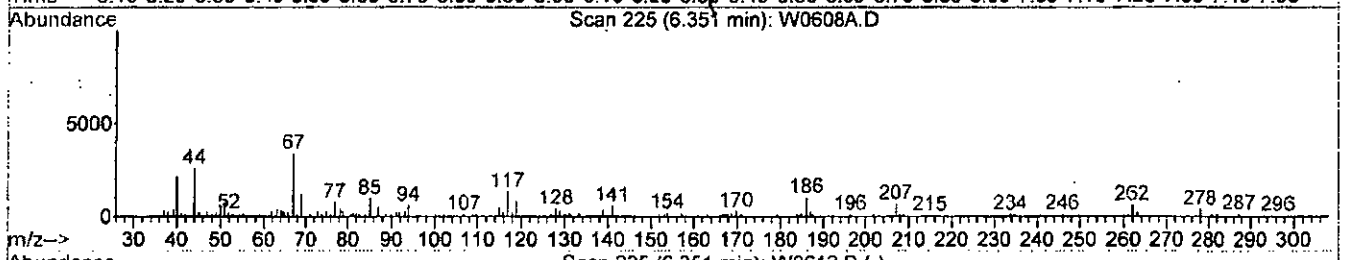
Quantitation Report (Qedit)

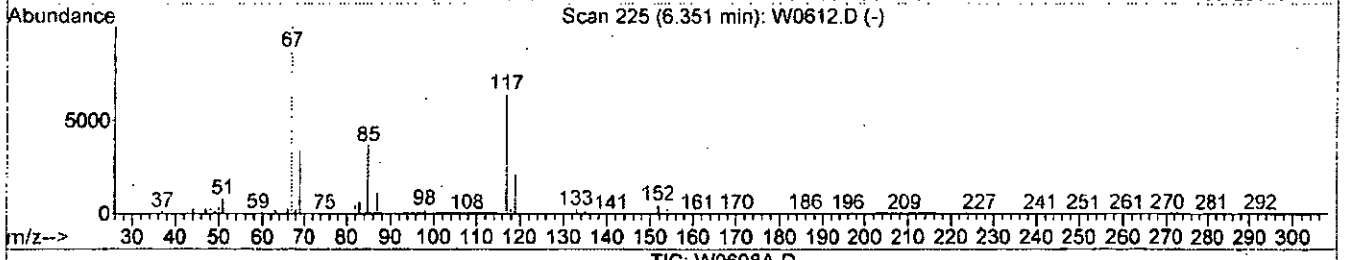
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:10 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



IPC 3/24/15
KR 3/24/15
DL





TIC: W0608A.D

(10) FREON 123A

6.35min 0.62ppb m

response 8911

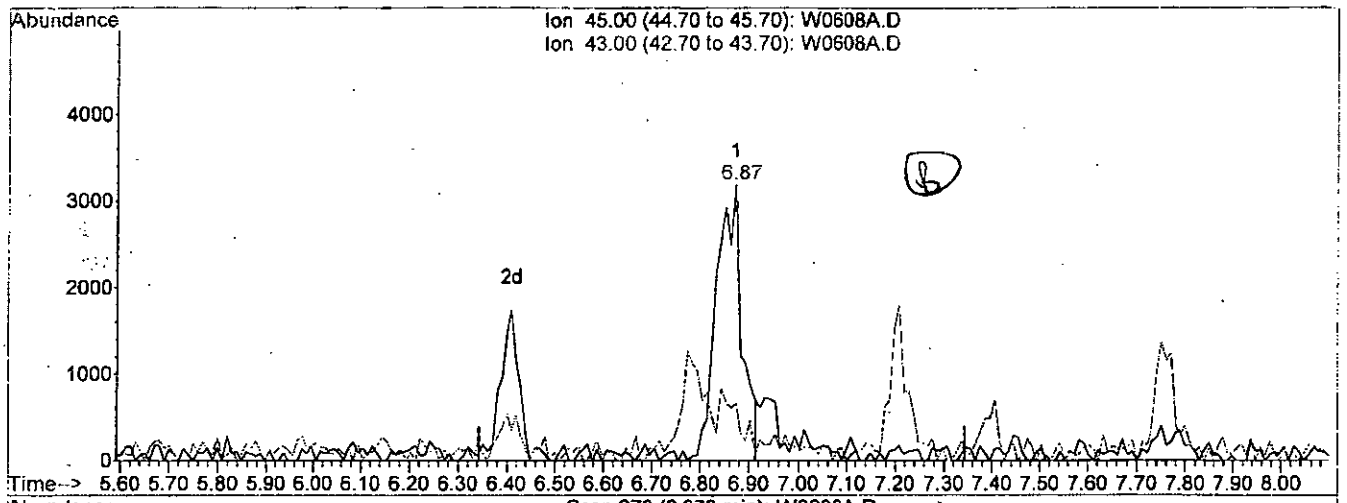
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	28.41
117.00	65.00	39.51#
0.00	0.00	0.00

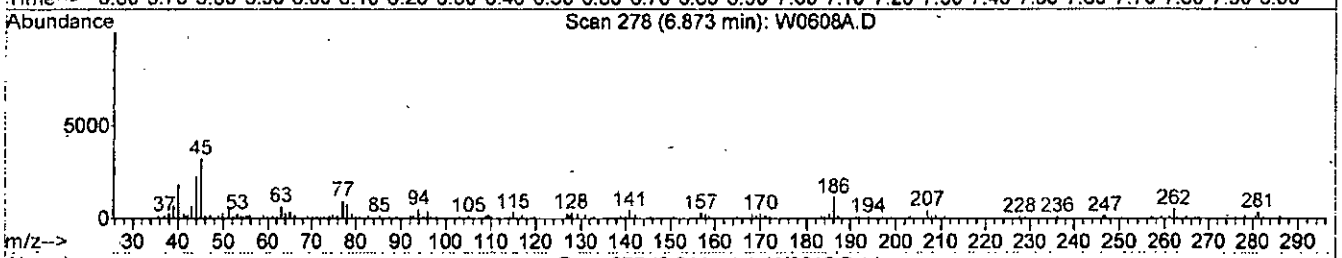
W0608A.D W032315.M Tue Mar 24 10:10:47 2015

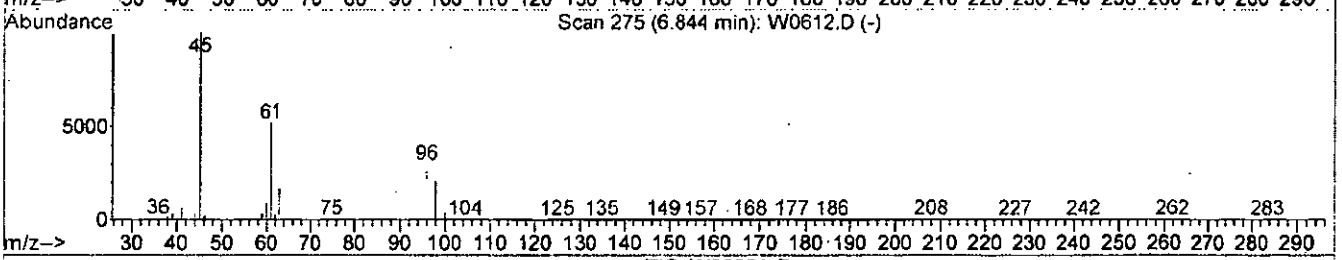
00340

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:11 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(16) 2-Propanol

6.87min 21.20ppb

response 11558

Ion	Exp%	Act%
45.00	100	100
43.00	20.50	20.75
0.00	0.00	0.00
0.00	0.00	0.00

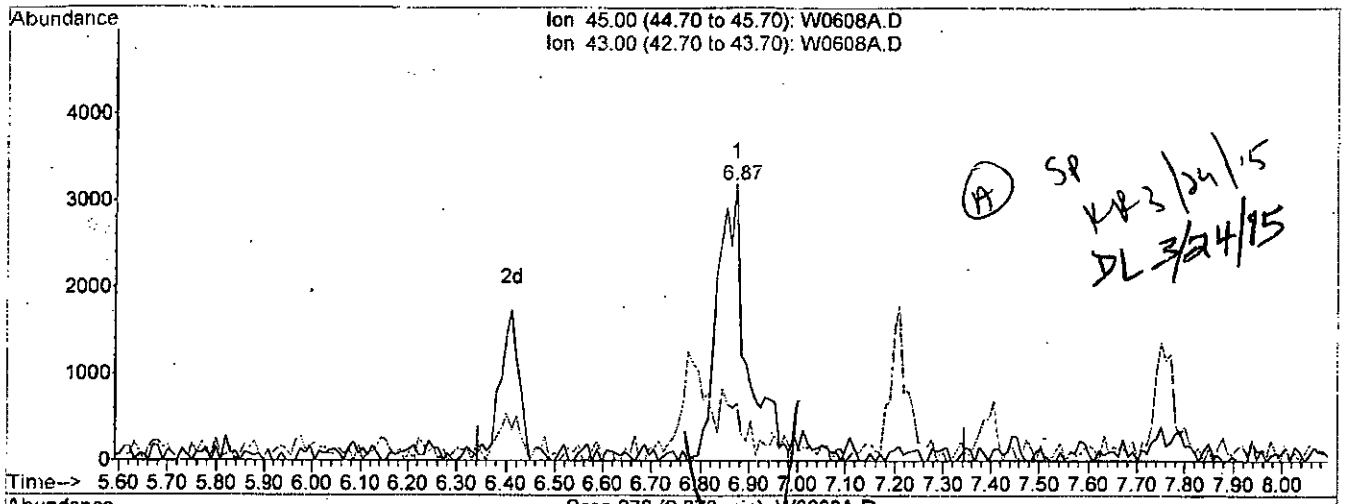
W0608A.D W032315.M Tue Mar 24 10:11:19 2015

00341

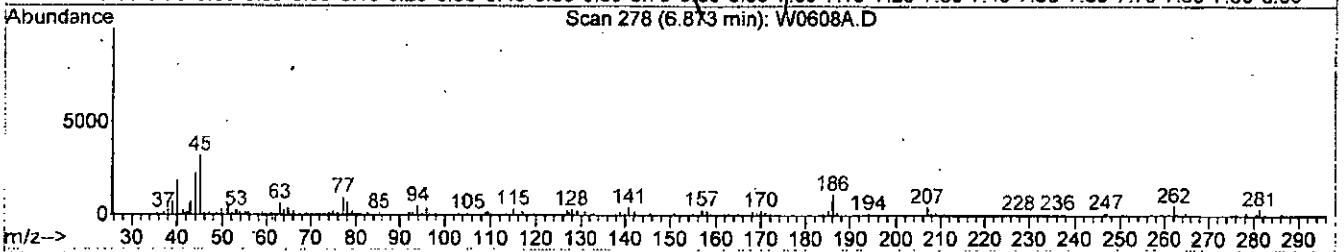
Quantitation Report (Qedit)

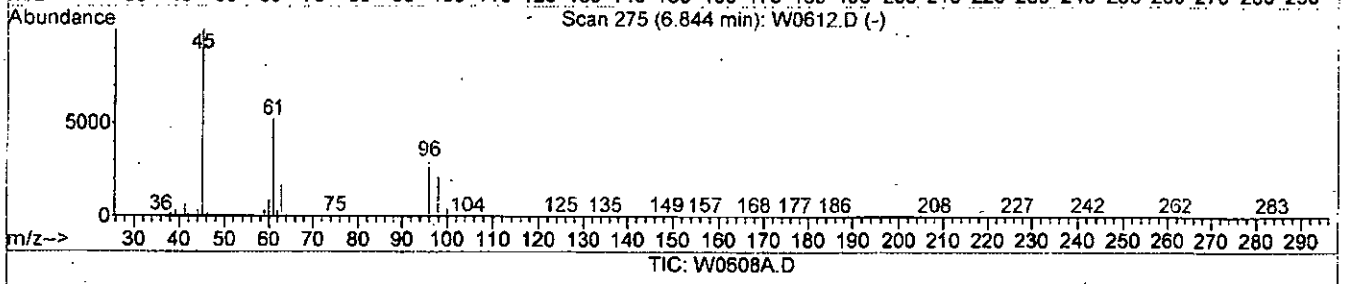
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:11 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



SP KP 3/24/15 DL 3/24/15





TIC: W0608A.D

(16) 2-Propanol

6.87min 24.60ppb m

response 13412

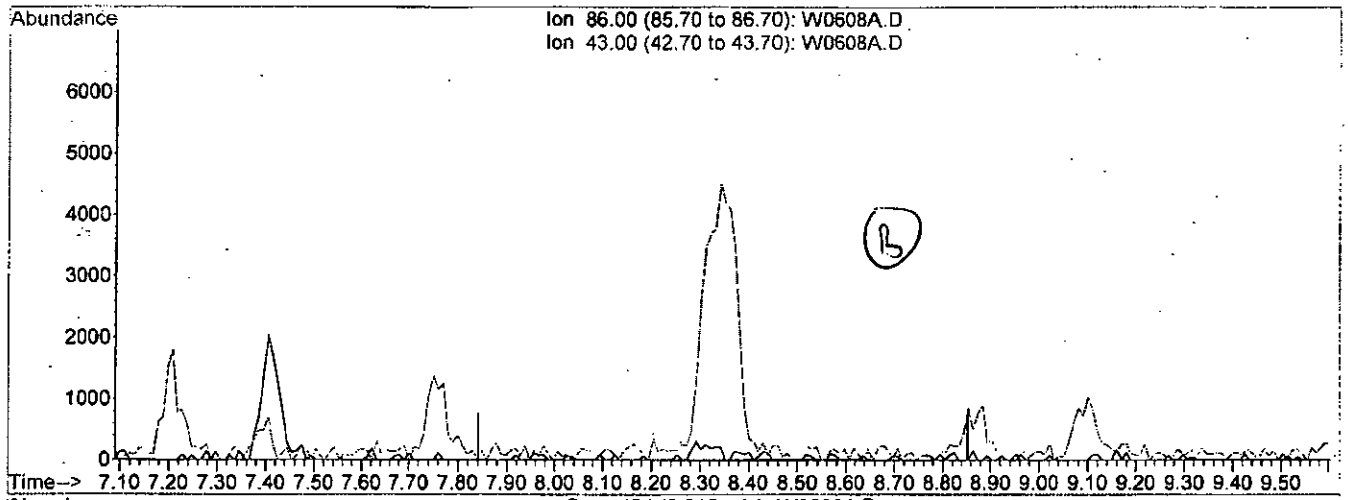
Ion	Exp%	Act%
45.00	100	100
43.00	20.50	20.75
0.00	0.00	0.00
0.00	0.00	0.00

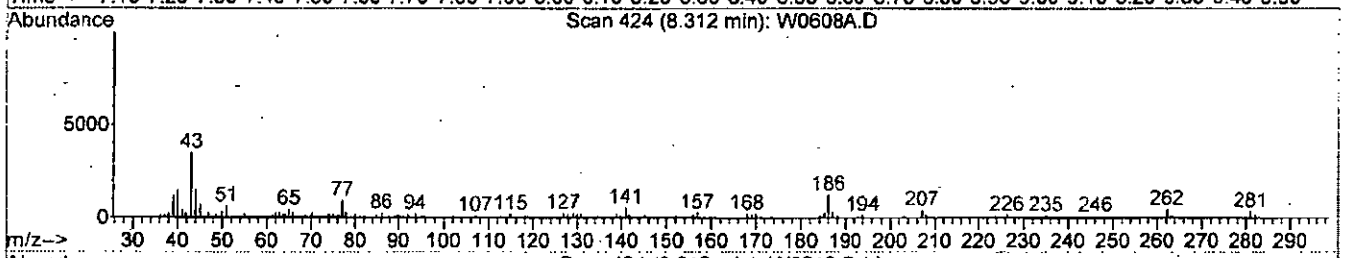
W0608A.D W032315.M Tue Mar 24 10:11:27 2015

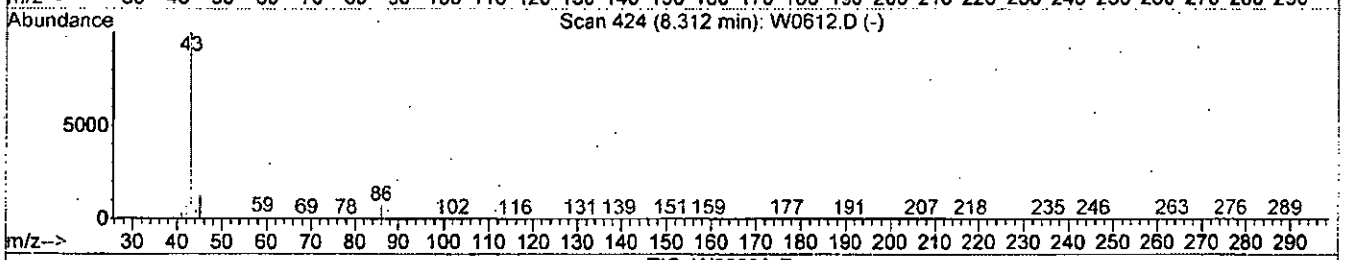
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:11 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(29) Vinyl Acetate

8.31min 0.00ppb

response 0

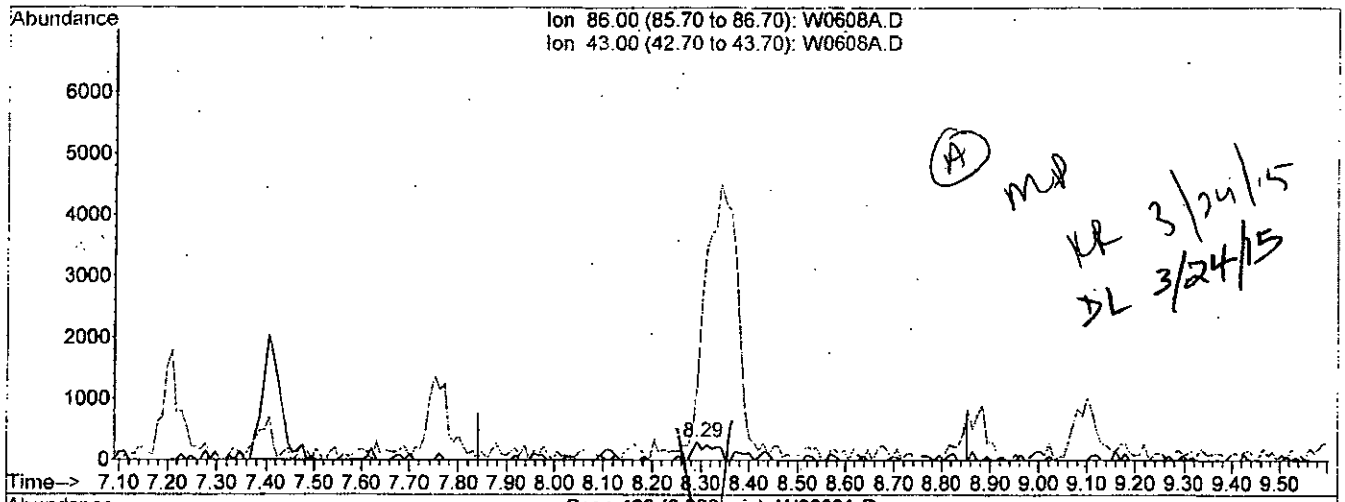
Ion	Exp%	Act%
86.00	100	0.00
43.00	1392.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

W0608A.D W032315.M Tue Mar 24 10:13:17 2015

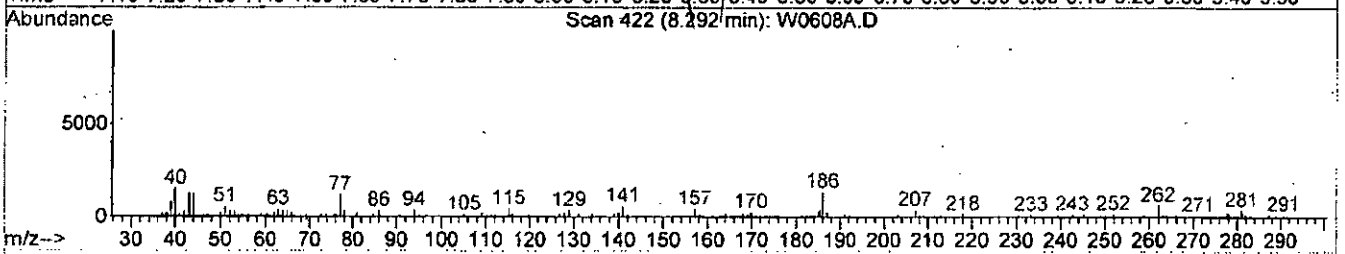
Quantitation Report (Qedit)

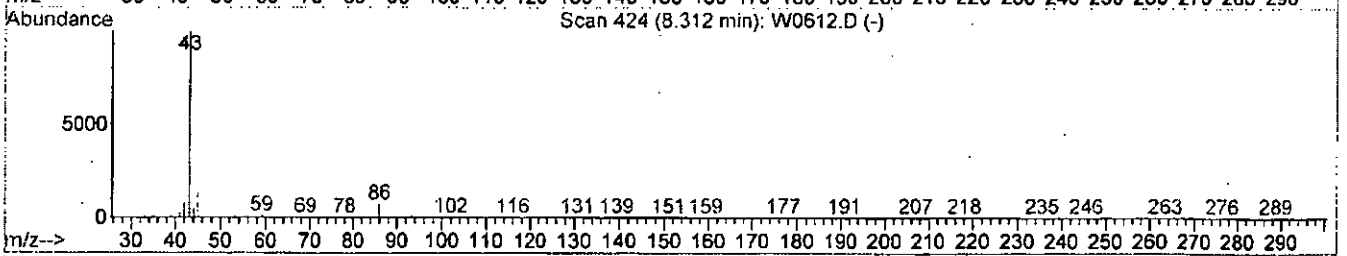
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:13 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



(A) MP 3/24/15 KR 3/24/15 DL 3/24/15





TIC: W0608A.D

(29) Vinyl Acetate

8.29min 0.54ppb m

response 876

Ion	Exp%	Act%
86.00	100	100
43.00	1392.50	421.78#
0.00	0.00	0.00
0.00	0.00	0.00

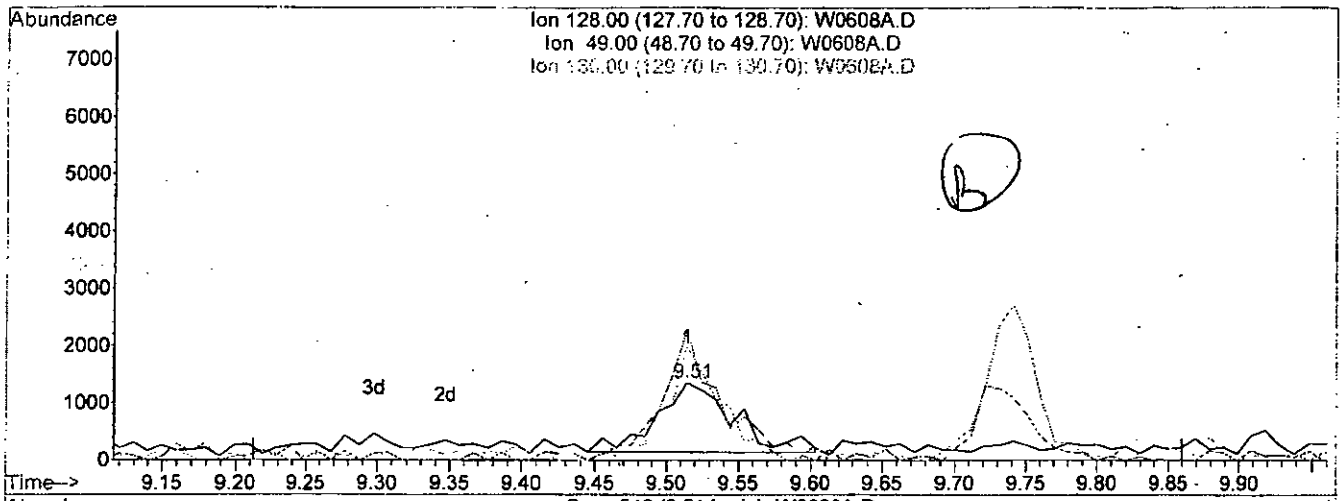
W0608A.D W032315.M Tue Mar 24 10:13:26 2015

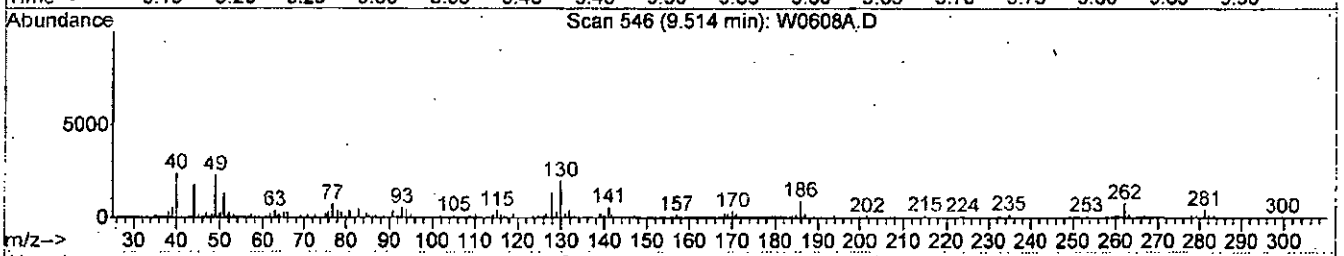
00344

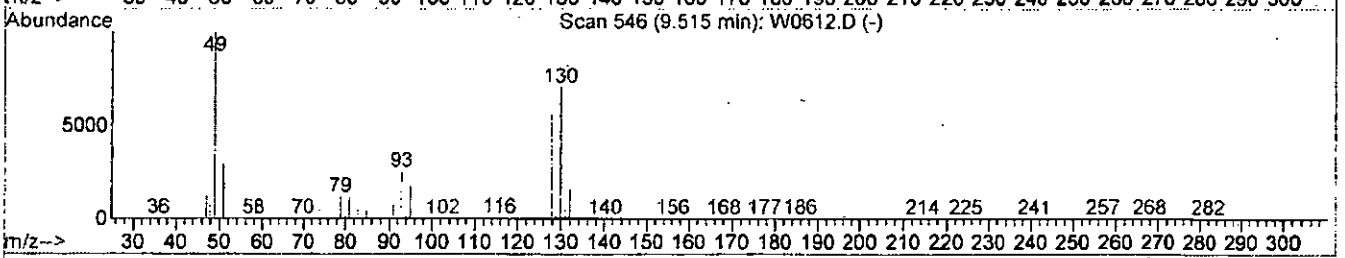
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:13 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(38) Bromochloromethane

9.51min 0.71ppb

response 4533

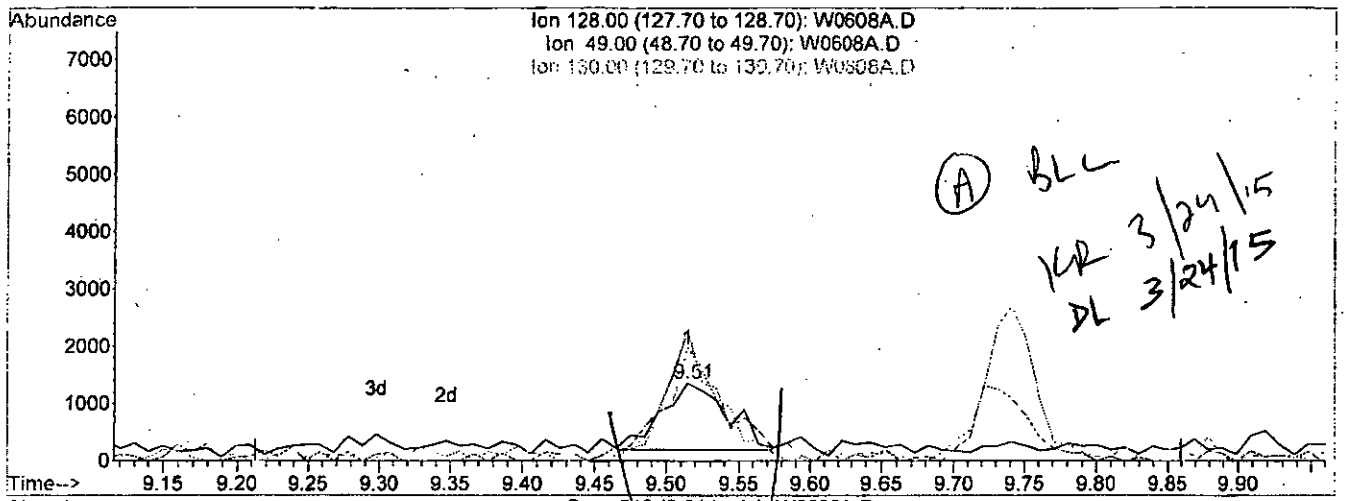
Ion	Exp%	Act%
128.00	100	100
49.00	180.00	168.91
130.00	127.00	146.68
0.00	0.00	0.00

W0608A.D W032315.M Tue Mar 24 10:13:49 2015

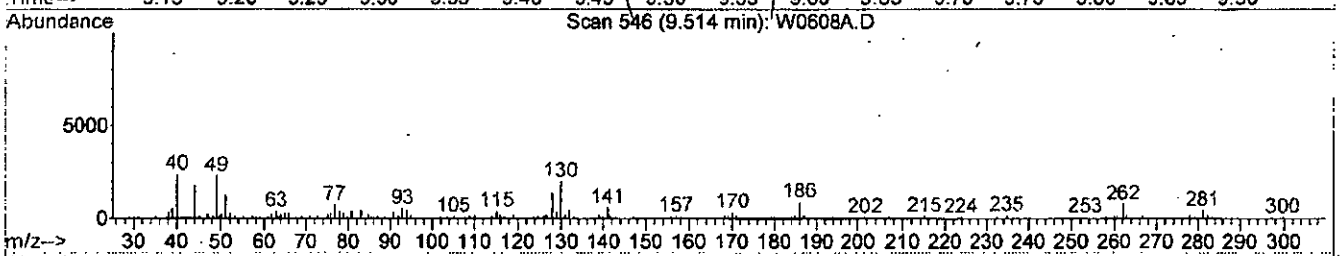
00345

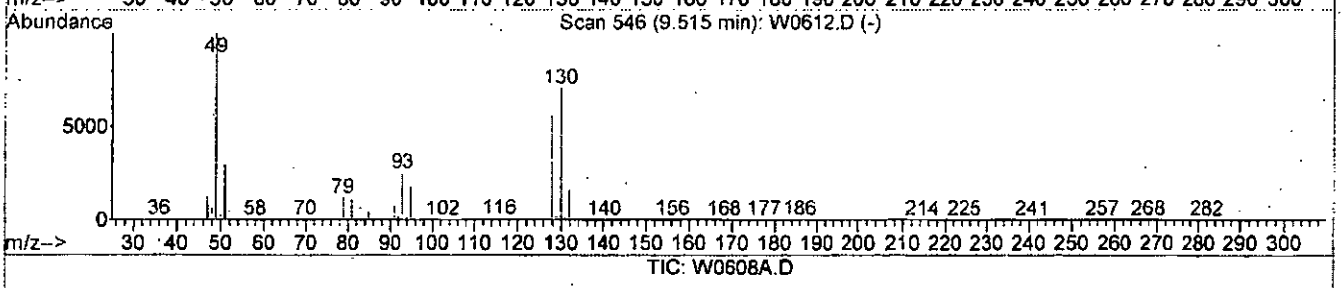
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:13 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



A BLC 3/24/15
KR 3/24/15
DL 3/24/15





(38) Bromochloromethane

9.51min 0.58ppb m

response 3694

Ion	Exp%	Act%
128.00	100	100
49.00	180.00	168.91
130.00	127.00	146.68
0.00	0.00	0.00

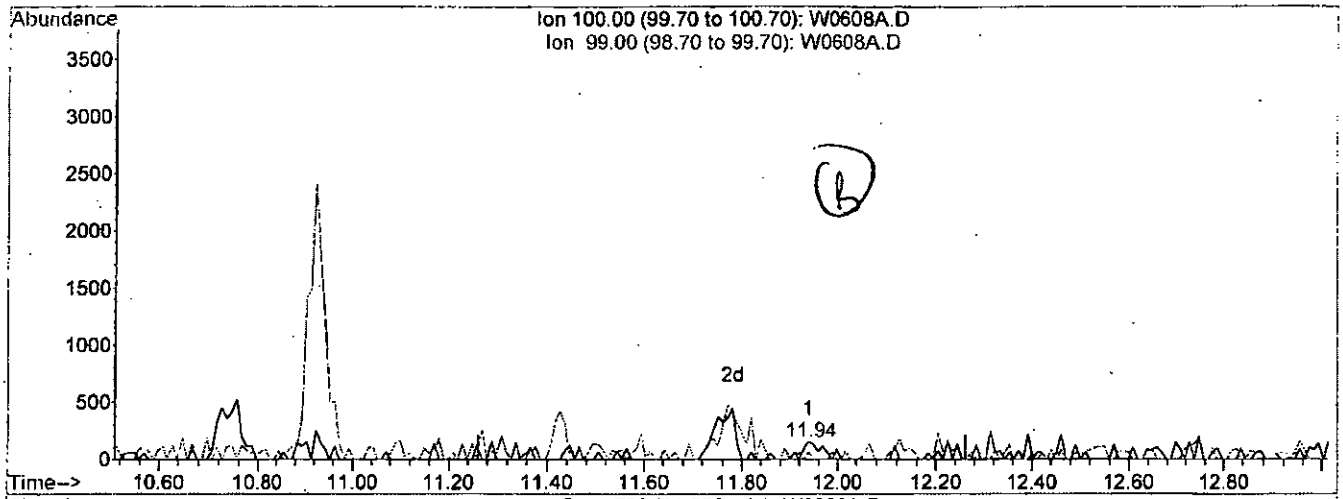
W0608A.D W032315.M Tue Mar 24 10:14:04 2015

00346

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:14 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



TIC: W0608A.D

(57) Methyl Methacrylate

11.94min 0.17ppb

response 457

Ion	Exp%	Act%
100.00	100	100
99.00	56.40	38.71
0.00	0.00	0.00
0.00	0.00	0.00

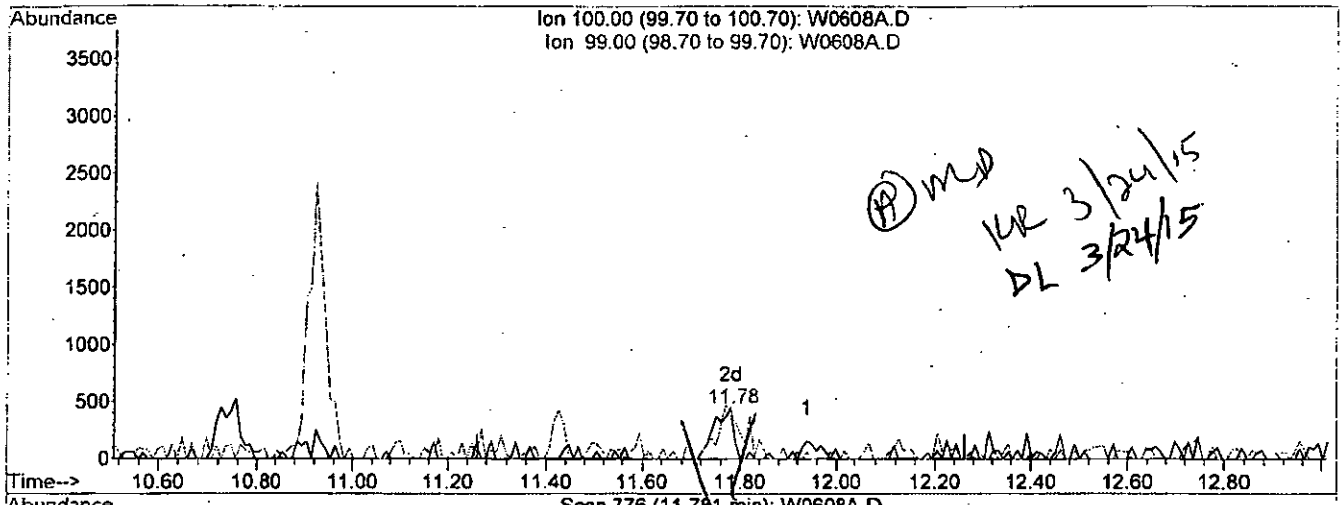
W0608A.D W032315.M Tue Mar 24 10:14:56 2015

00347

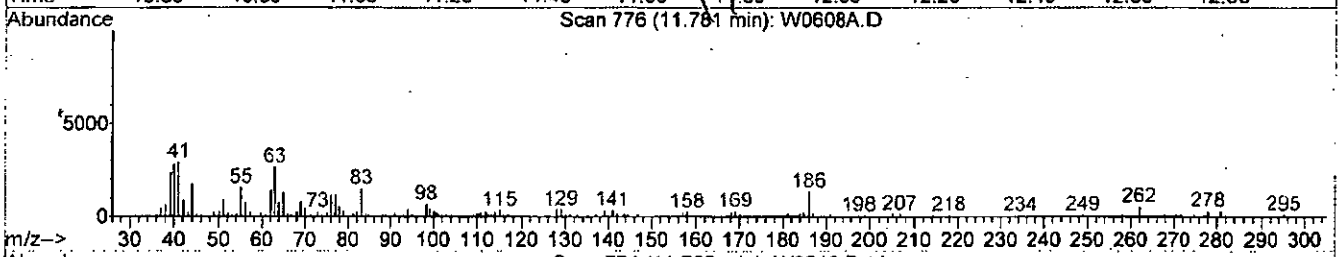
Quantitation Report (Qedit)

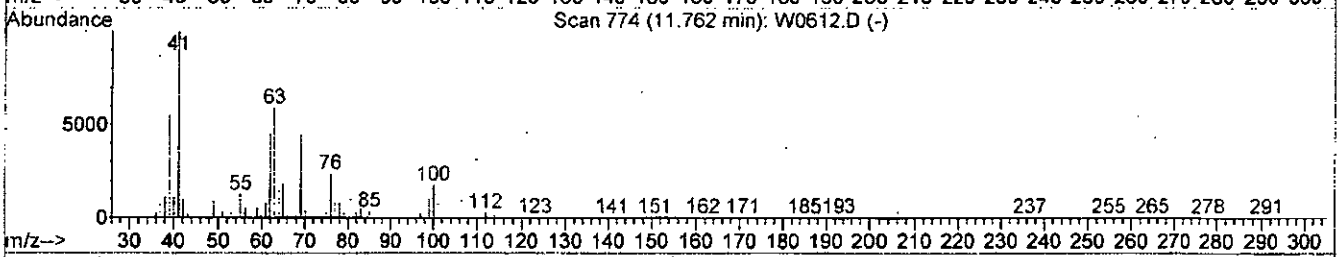
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:14 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



MD 3/24/15
KR 3/24/15
DL 3/24/15





TIC: W0608A.D

(57) Methyl Methacrylate

11.78min 0.46ppb m

response 1234

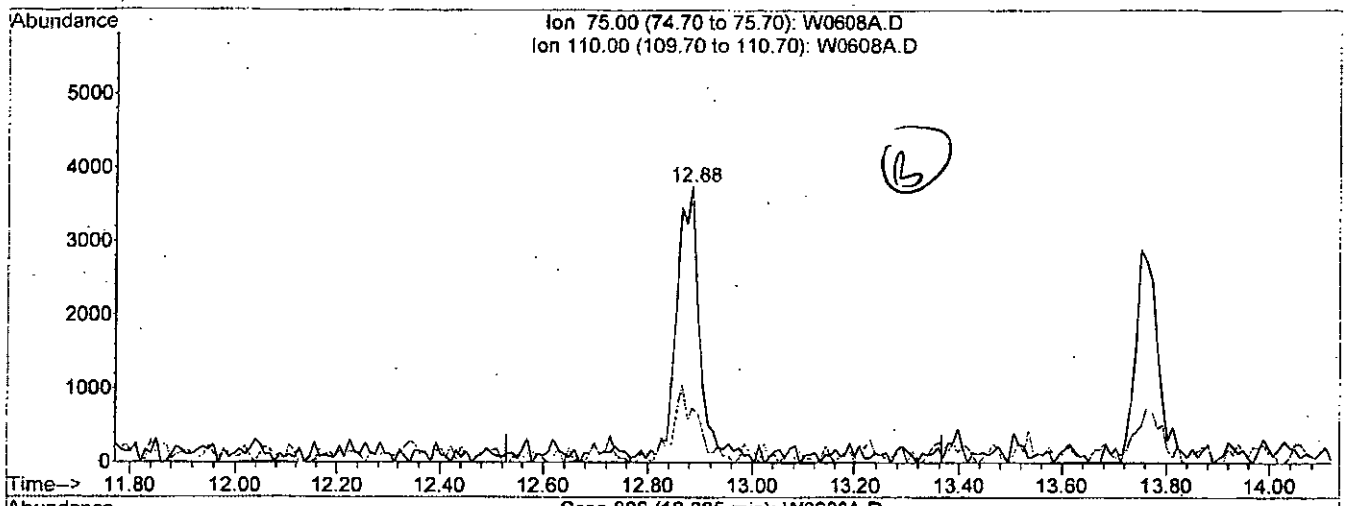
Ion	Exp%	Act%
100.00	100	100
99.00	56.40	145.61#
0.00	0.00	0.00
0.00	0.00	0.00

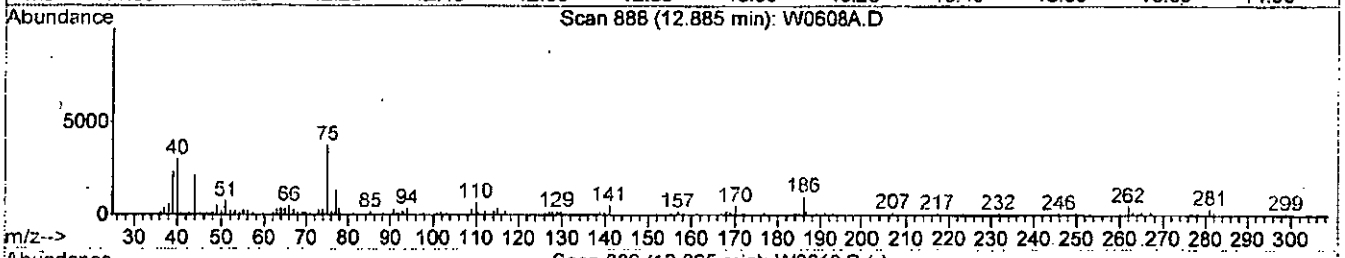
W0608A.D W032315.M Tue Mar 24 10:15:04 2015

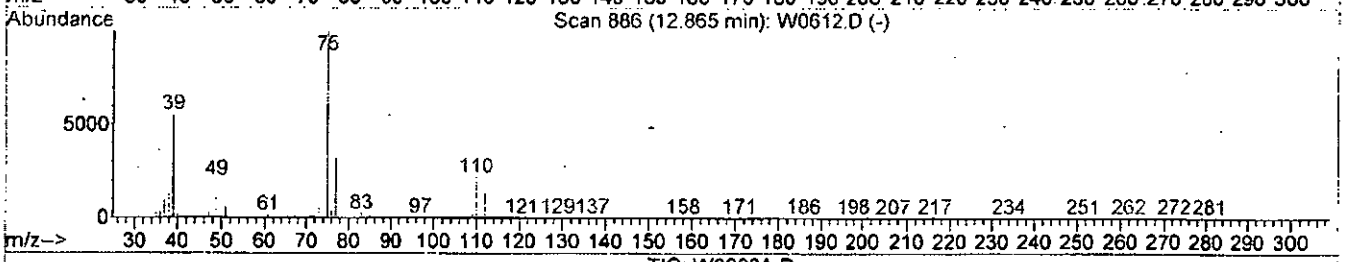
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:15 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(63) cis-1,3-Dichloropropene (P)

12.88min 0.62ppb

response 12003

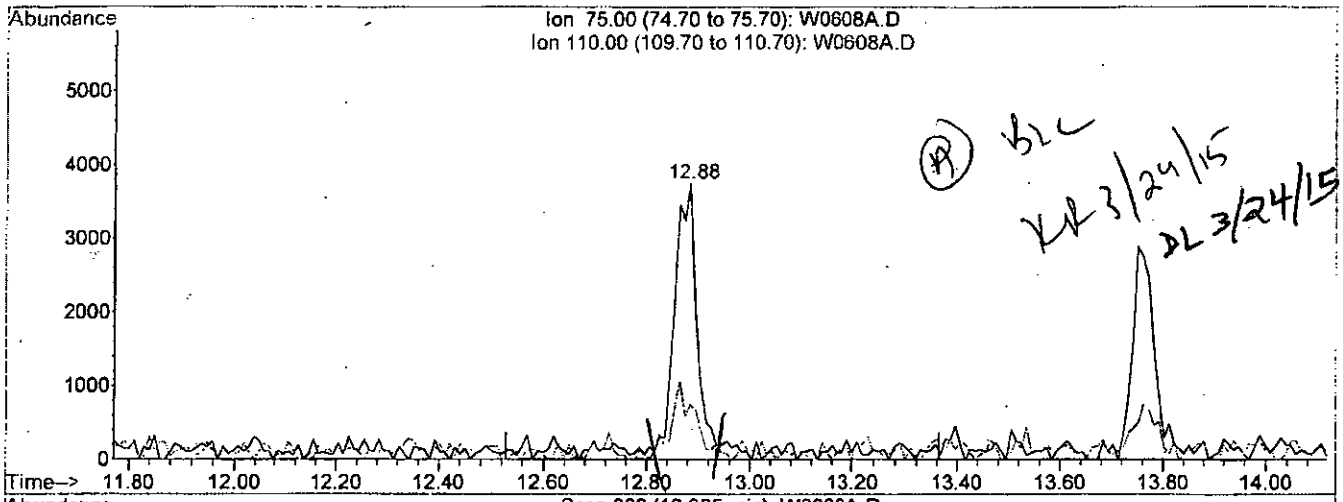
Ion	Exp%	Act%
75.00	100	100
110.00	21.80	19.85
0.00	0.00	0.00
0.00	0.00	0.00

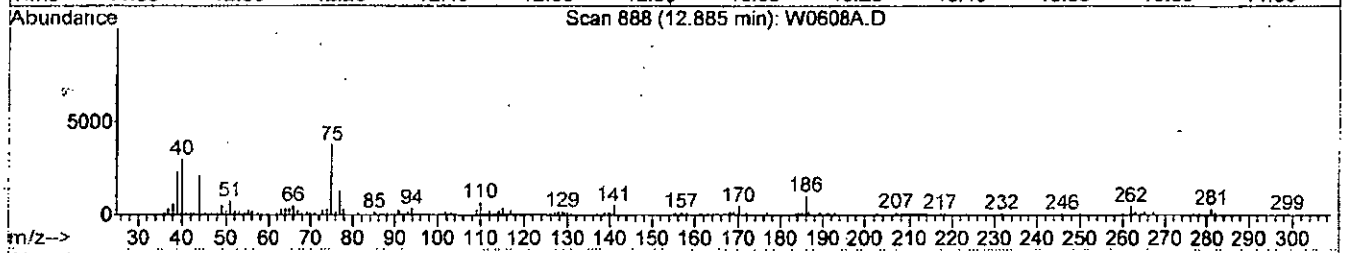
W0608A.D W032315.M Tue Mar 24 10:15:39 2015

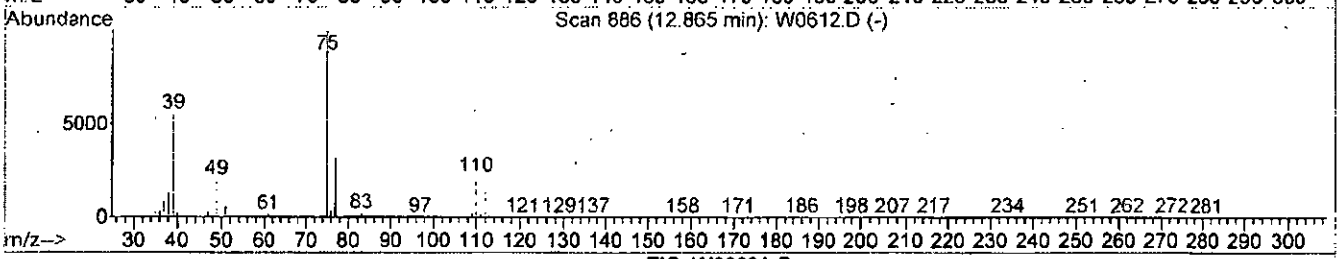
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:15 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(63) cis-1,3-Dichloropropene (P)

12.88min 0.57ppb m

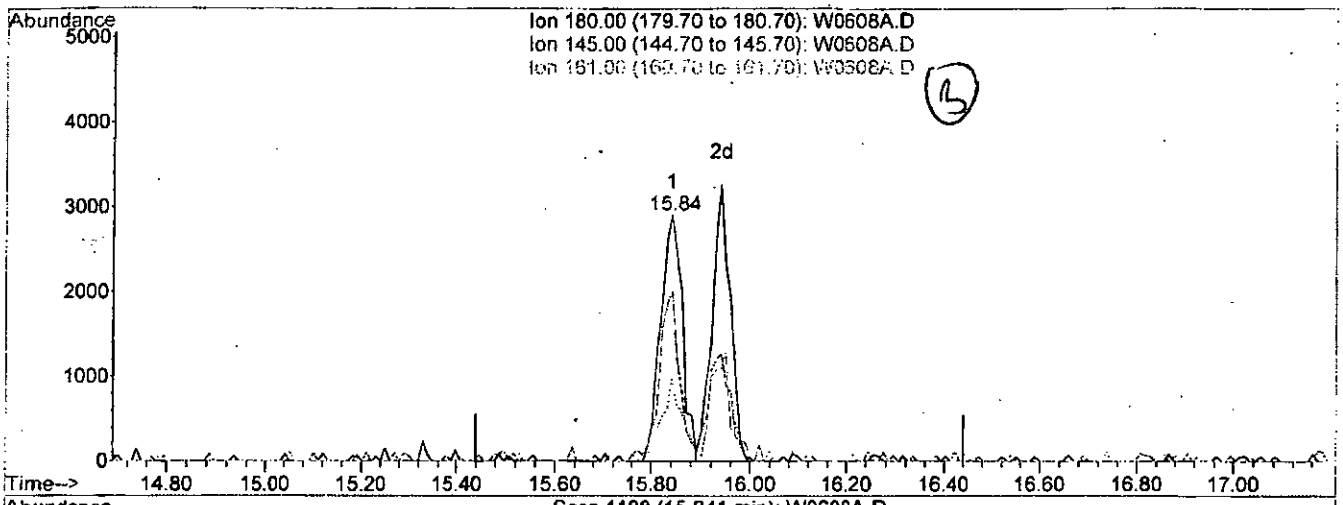
response 11077

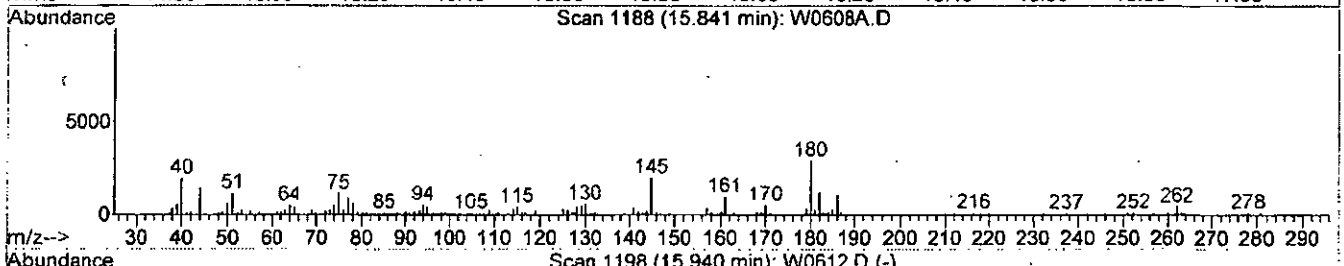
Ion	Exp%	Act%
75.00	100	100
110.00	21.80	17.79
0.00	0.00	0.00
0.00	0.00	0.00

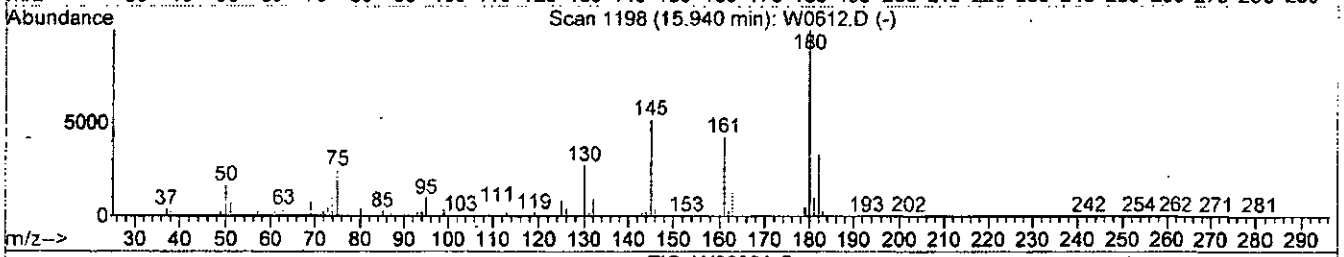
W0608A.D W032315.M Tue Mar 24 10:15:47 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:15 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(80) 4-CBTF

15.84min 0.59ppb

response 8834

Ion	Exp%	Act%
180.00	100	100
145.00	50.90	58.51
161.00	42.70	34.53
0.00	0.00	0.00

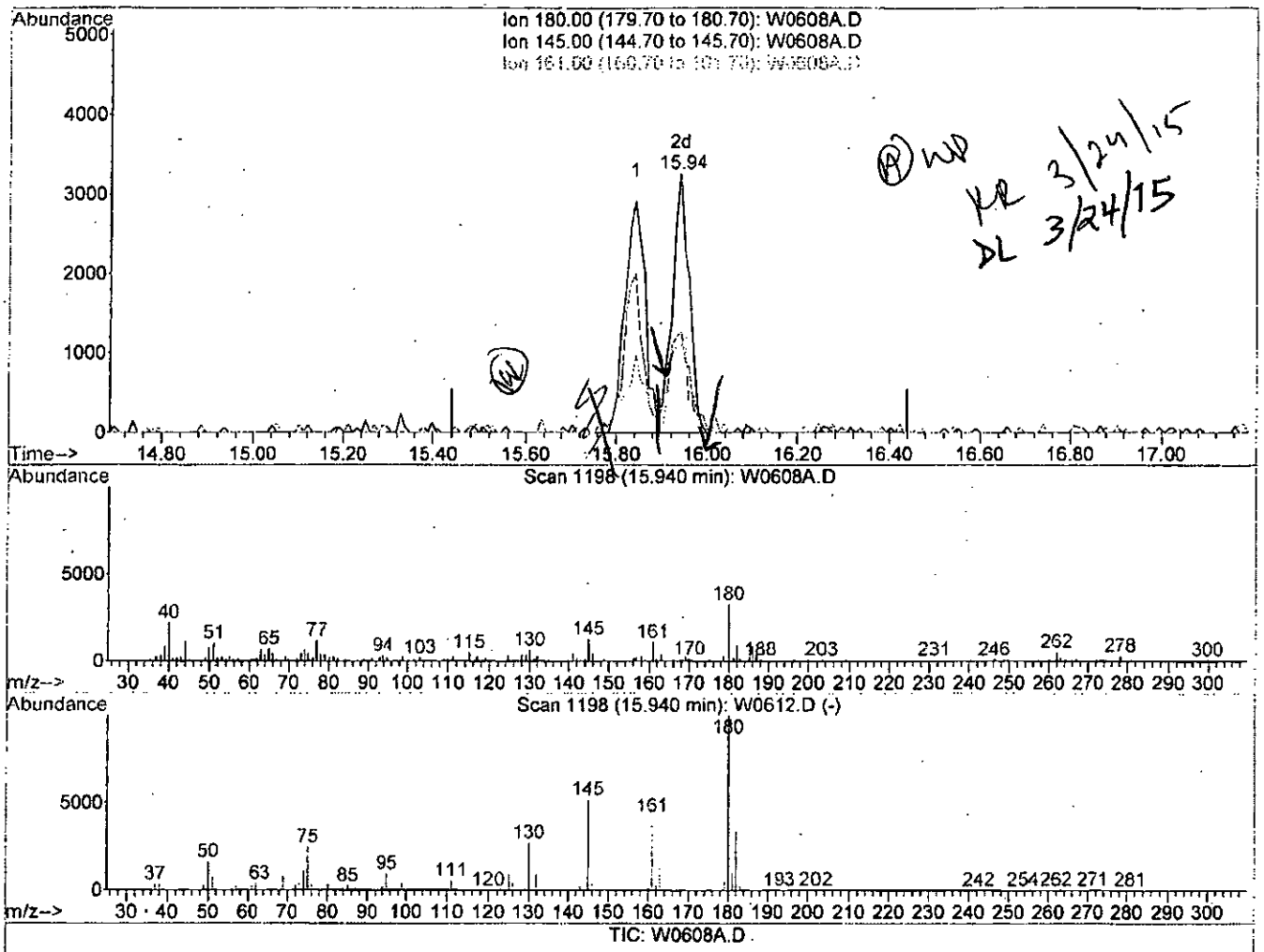
W0608A.D W032315.M Tue Mar 24 10:16:13 2015

00351

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:16 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



TIC: W0608A.D

(80) 4-CBTF

15.94min 0.56ppb m

response 8381

Ion	Exp%	Act%
180.00	100	100
145.00	50.90	61.68#
161.00	42.70	36.39
0.00	0.00	0.00

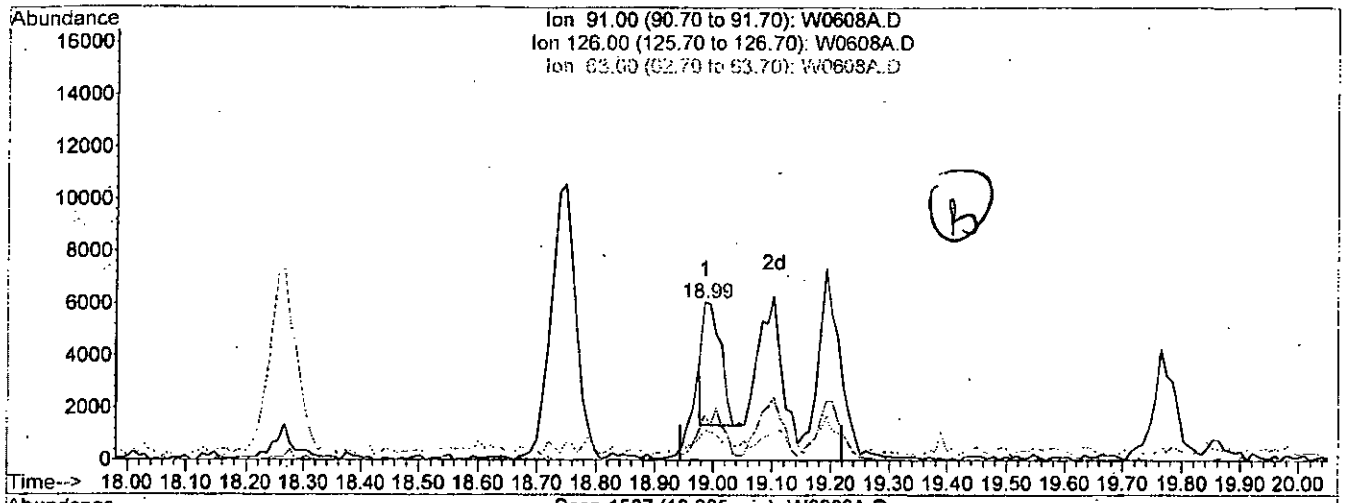
W0608A.D W032315.M Tue Mar 24 10:16:20 2015

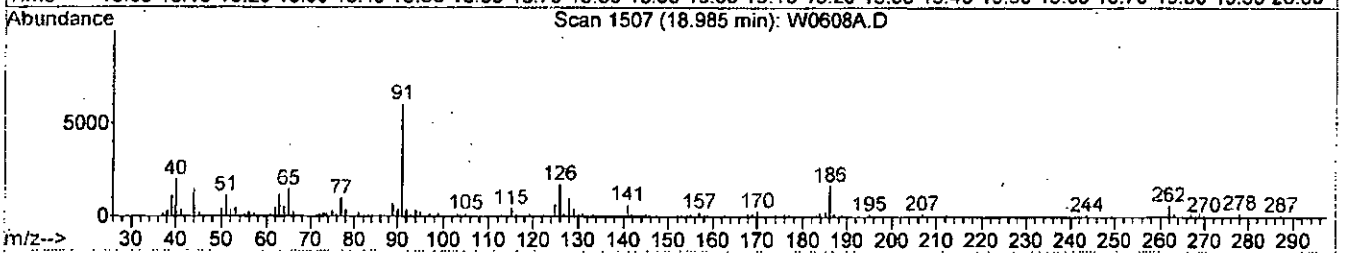
00352

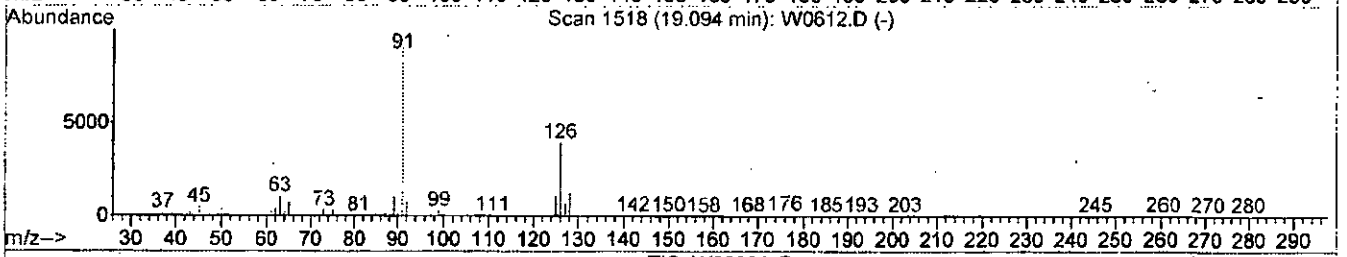
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:16 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(98) 3-Chlorotoluene

18.99min 0.28ppb

response 10028

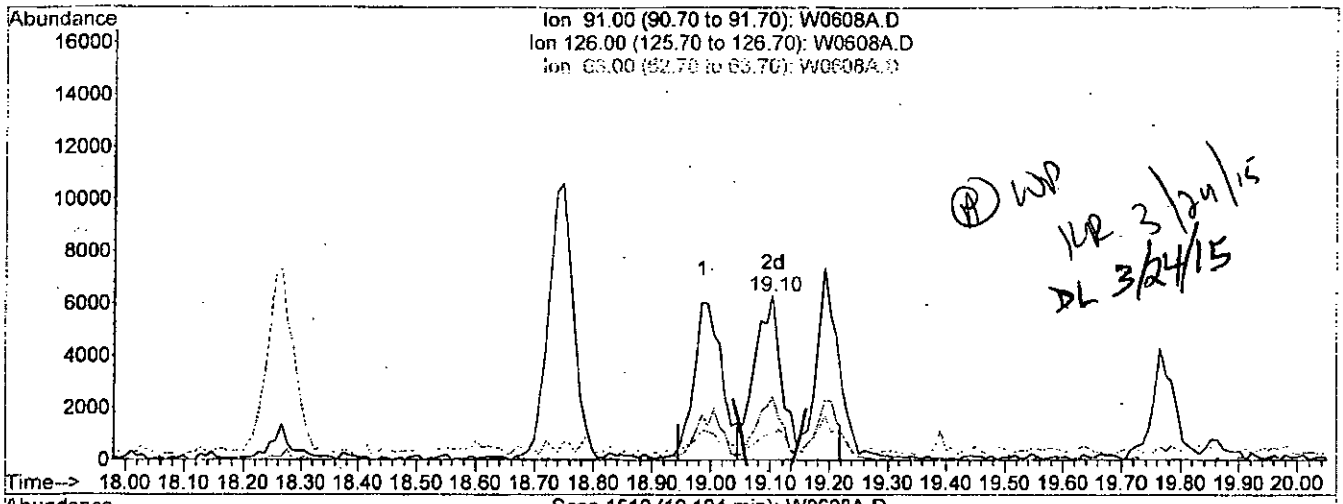
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	22.95
63.00	12.50	12.80
0.00	0.00	0.00

W0608A.D W032315.M Tue Mar 24 10:16:45 2015

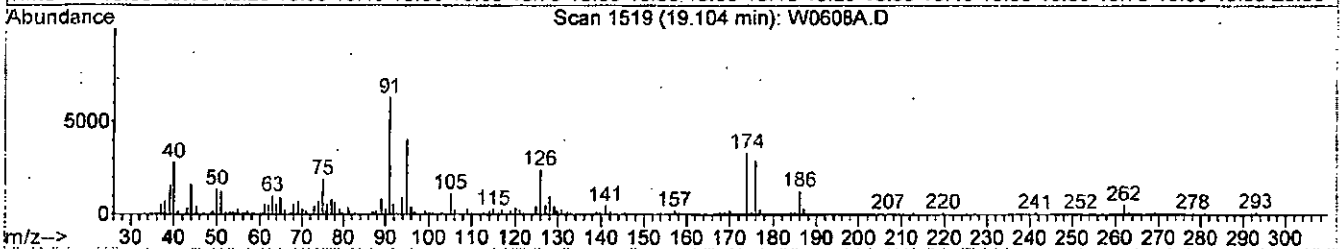
00353

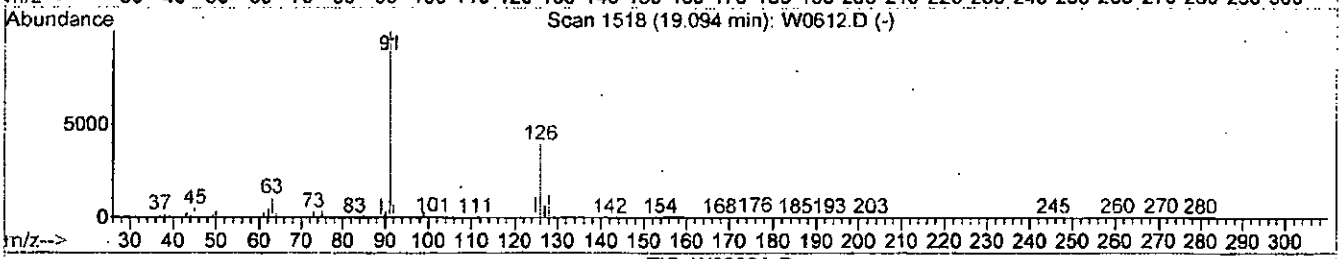
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:16 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



WP 3/24/15
KLR 3/24/15
DL 3/24/15





TIC: W0608A.D

(98) 3-Chlorotoluene

19.10min 0.54ppb m

response 19345

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	11.89#
63.00	12.50	6.64#
0.00	0.00	0.00

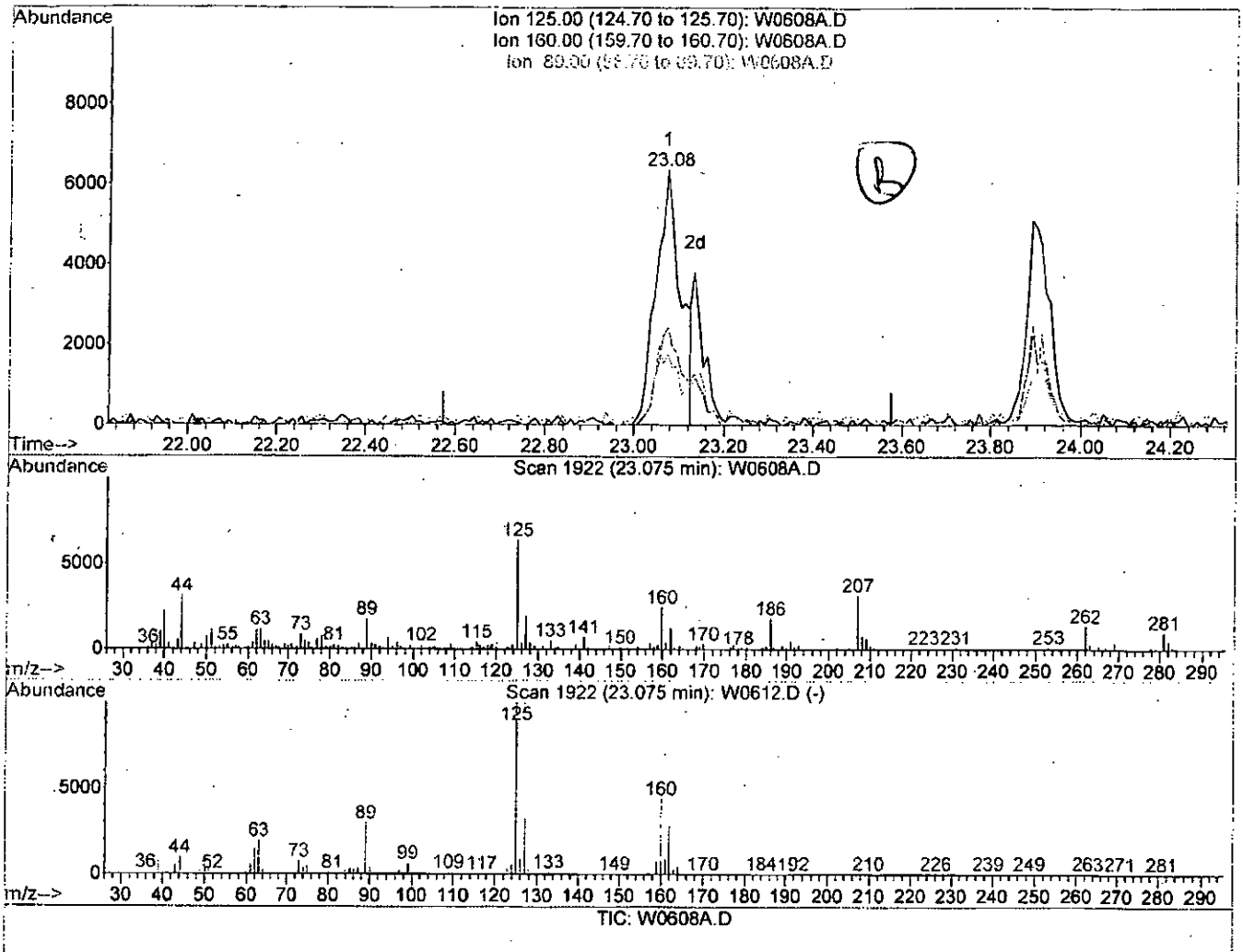
W0608A.D W032315.M Tue Mar 24 10:16:53 2015

00354

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:17 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



TIC: W0608A.D

(112) Trielution Dichlorotoluene

23.08min 1.36ppb

response 23945

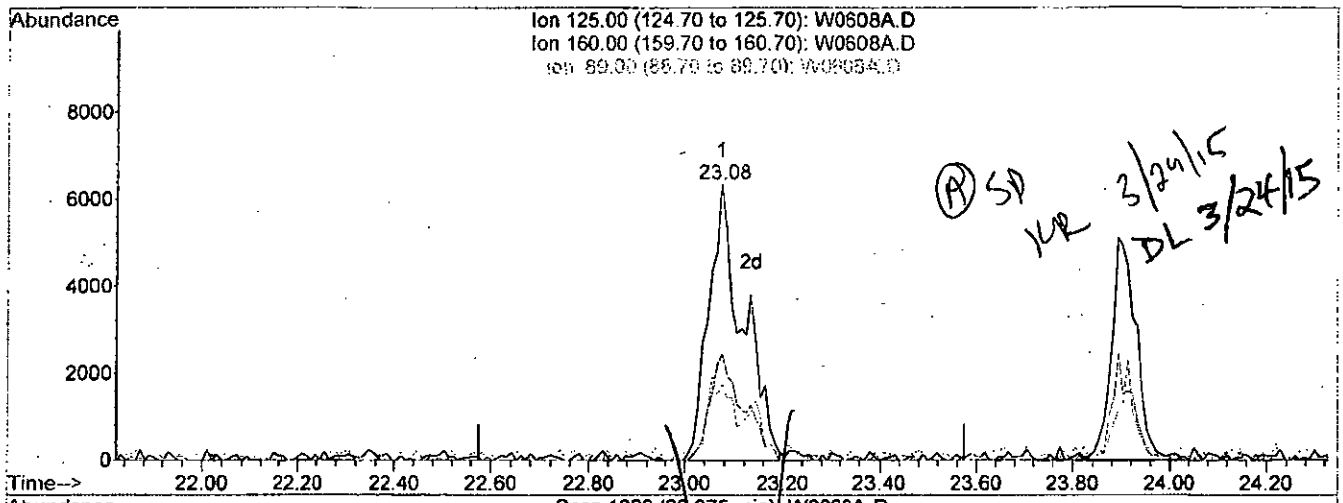
Ion	Exp%	Act%
125.00	100	100
160.00	41.80	47.76
89.00	32.90	23.31#
0.00	0.00	0.00

W0608A.D W032315.M Tue Mar 24 10:17:20 2015

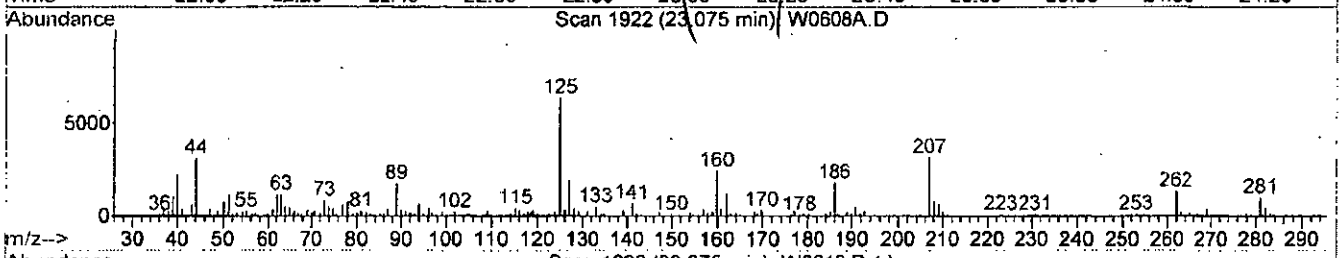
Quantitation Report (Qedit)

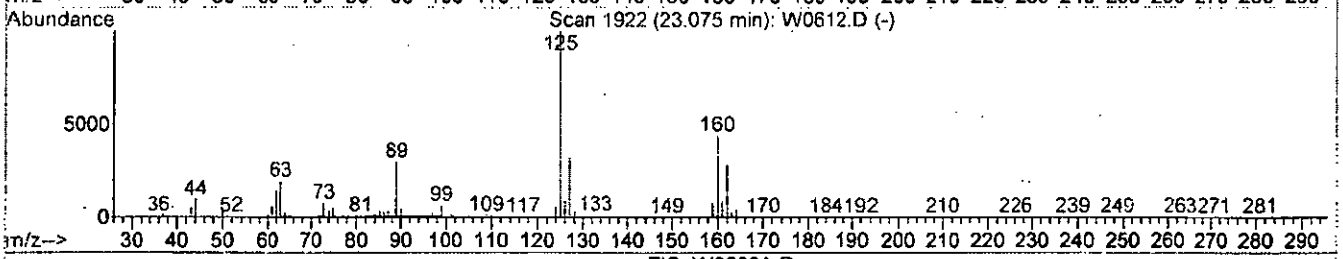
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:17 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



SD JLR 3/24/15 DL 3/24/15





TIC: W0608A.D

(112) Trielution Dichlorotoluene

23.08min 1.73ppb m

response 30409

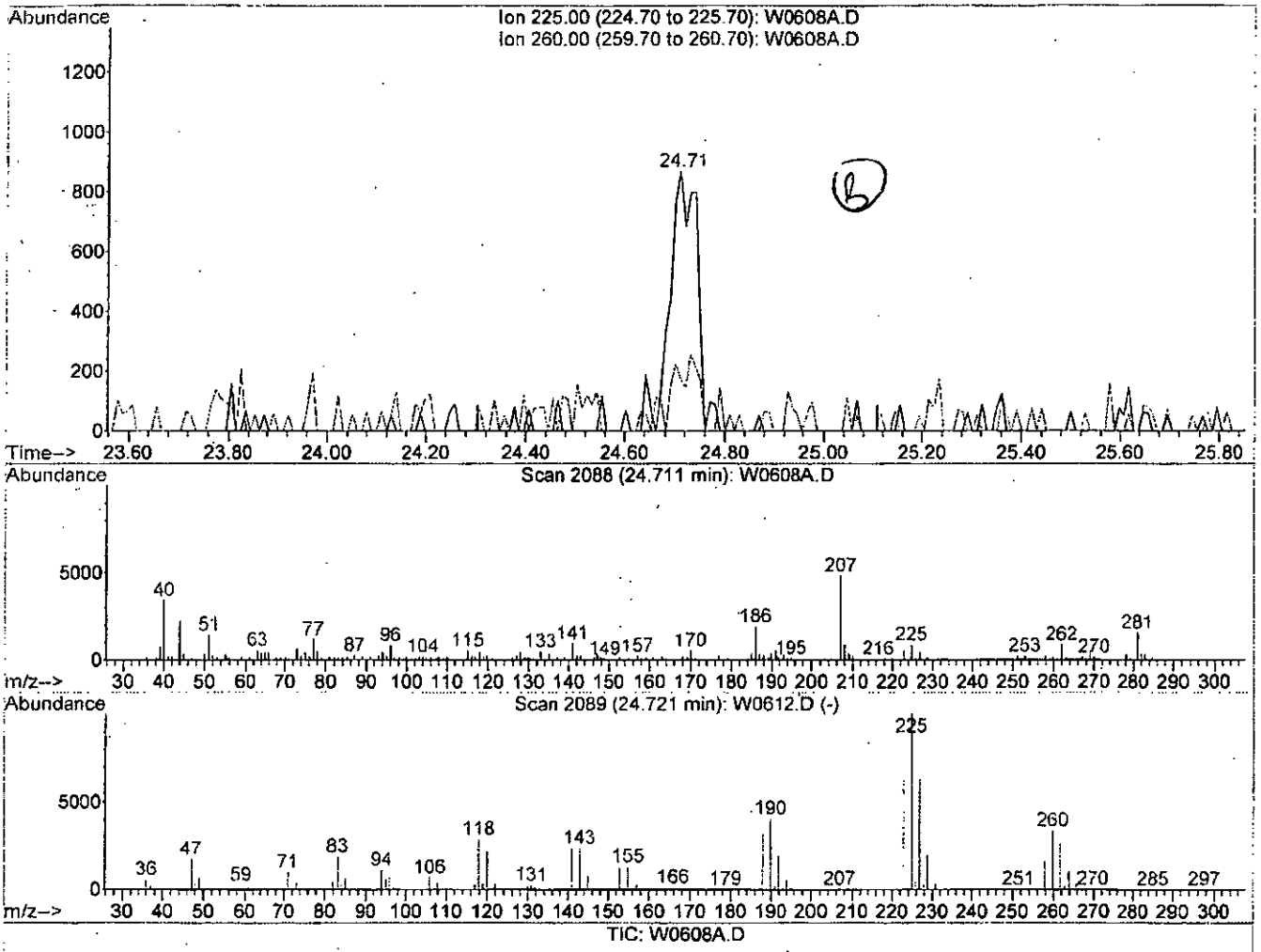
Ion	Exp%	Act%
125.00	100	100
160.00	41.80	37.60
89.00	32.90	18.36#
0.00	0.00	0.00

W0608A.D W032315.M Tue Mar 24 10:17:28 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:17 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration



(117) Hexachlorobt

24.71min 0.64ppb

response 3325

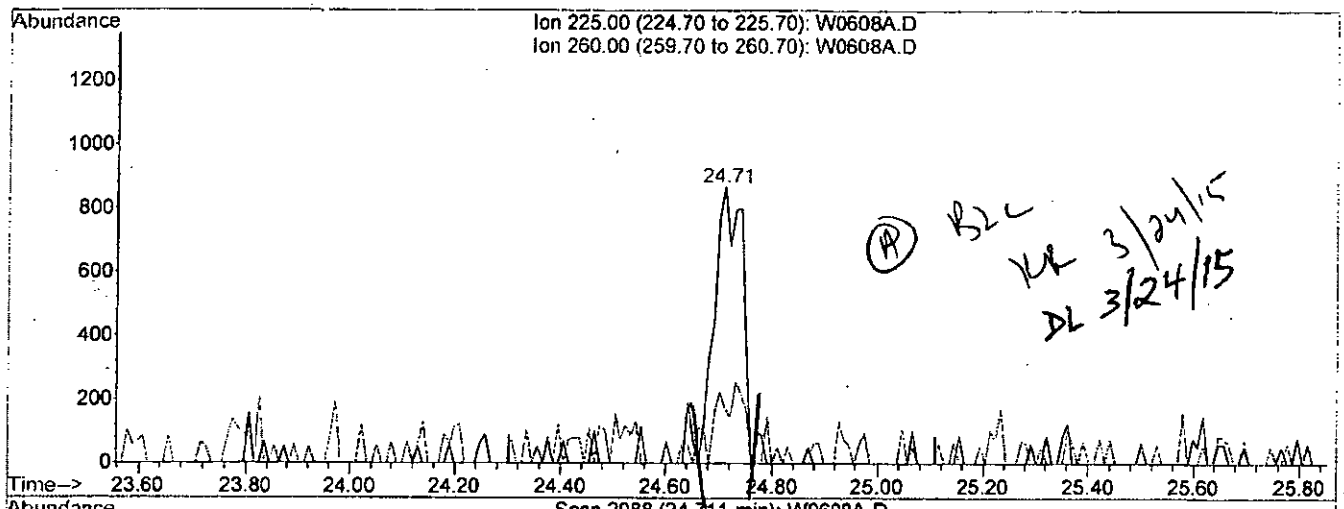
Ion	Exp%	Act%
225.00	100	100
260.00	33.70	20.02
0.00	0.00	0.00
0.00	0.00	0.00

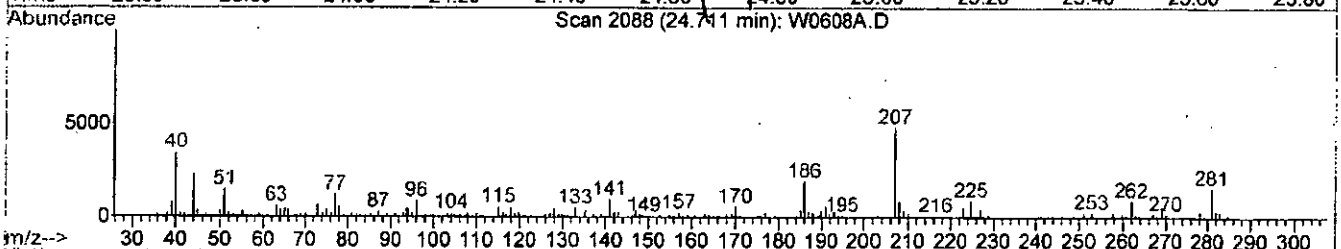
W0608A.D W032315.M Tue Mar 24 10:17:53 2015

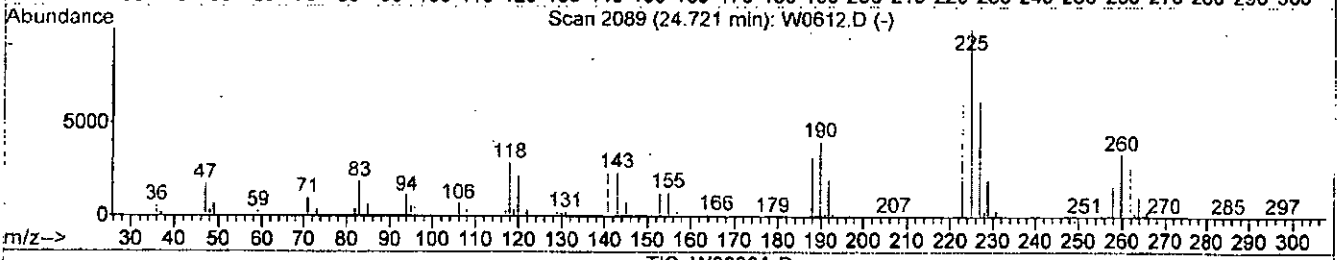
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:17 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(117) Hexachlorobt

24.71min 0.59ppb m

response 3059

Ion	Exp%	Act%
225.00	100	100
260.00	33.70	20.02
0.00	0.00	0.00
0.00	0.00	0.00

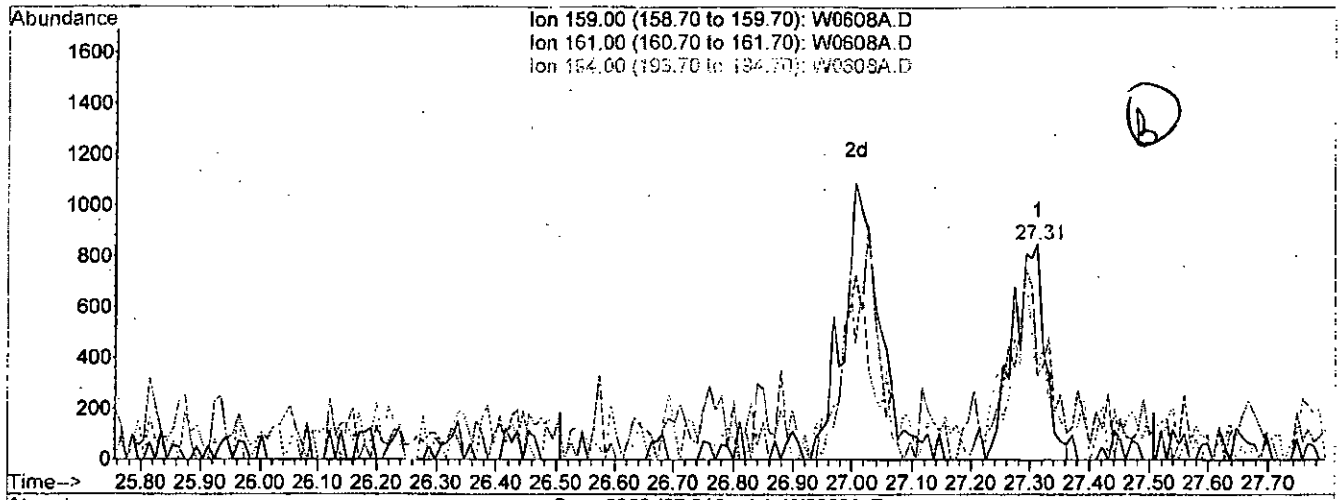
W0608A.D W032315.M Tue Mar 24 10:18:03 2015

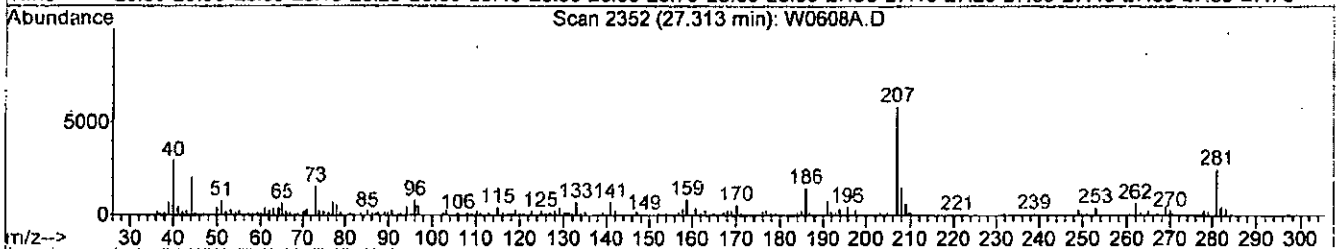
00358

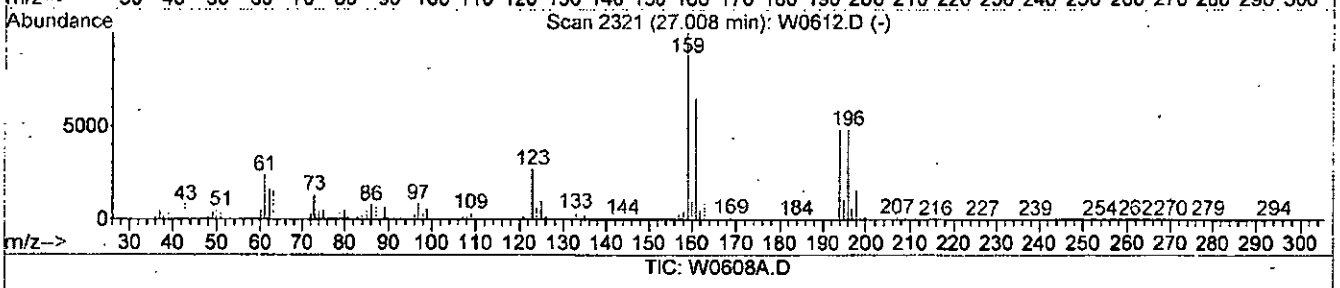
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:17 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(120) 2,4,5-Trichlorotoluene

27.31min 0.45ppb

response 3214

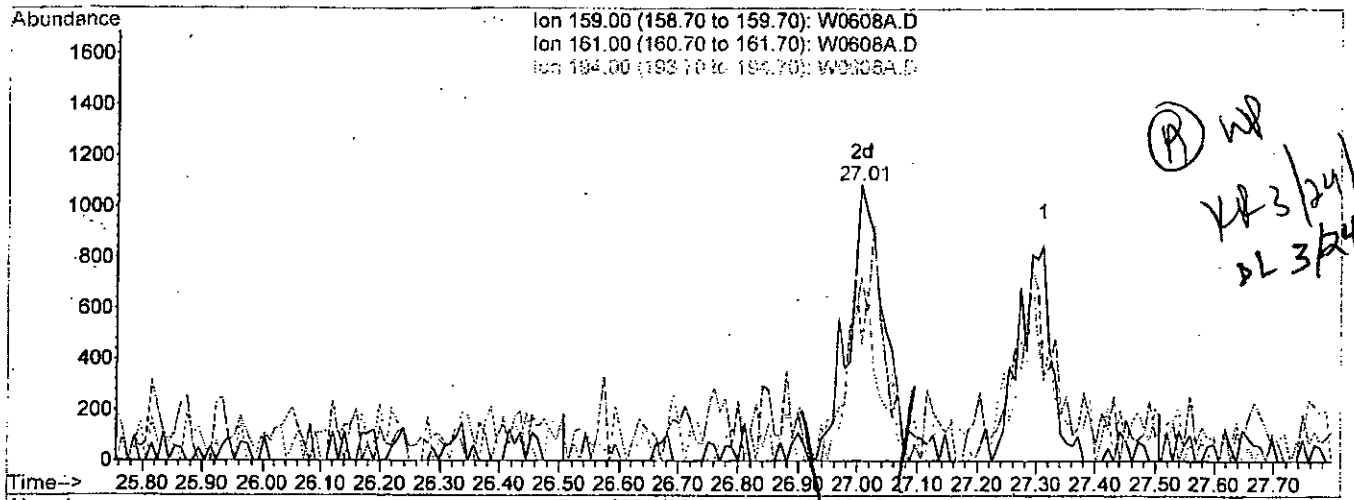
Ion	Exp%	Act%
159.00	100	100
161.00	63.10	55.97
194.00	48.80	47.04
0.00	0.00	0.00

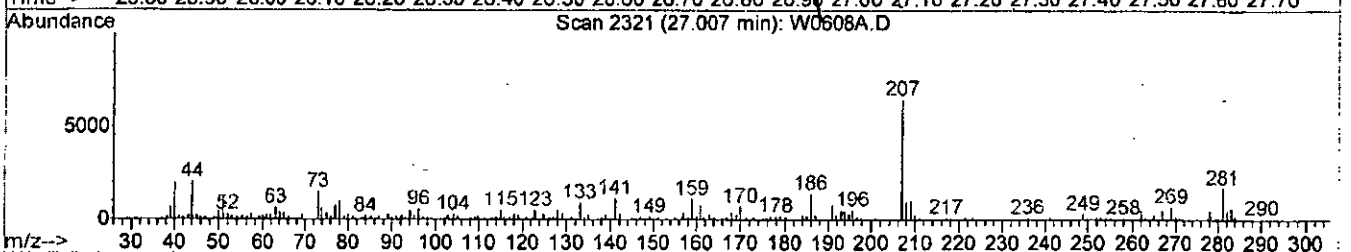
W0608A.D W032315.M Tue Mar 24 10:18:11 2015

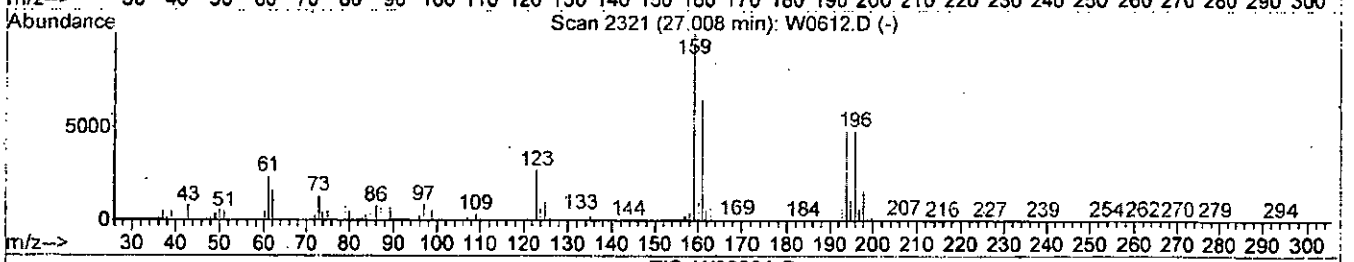
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:18 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Multiple Level Calibration







TIC: W0608A.D

(120) 2,4,5-Trichlorotoluene

27.01min 0.61ppb m

response 4298

Ion	Exp%	Act%
159.00	100	100
161.00	63.10	41.86#
194.00	48.80	35.18#
0.00	0.00	0.00

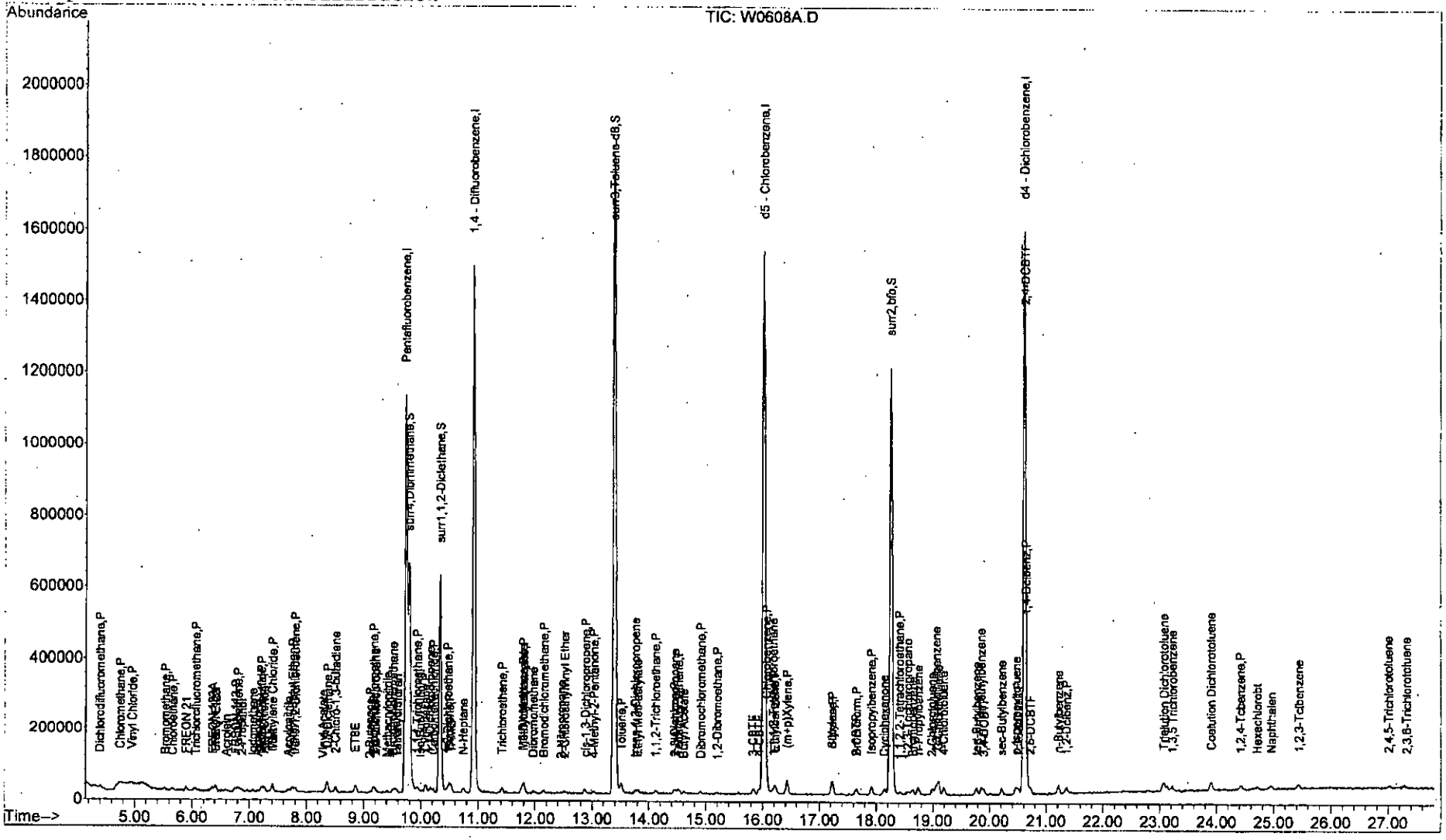
W0608A.D W032315.M Tue Mar 24 10:18:20 2015

00360

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608A.D Vial: 11
Acq On : 23 Mar 2015 4:25 pm Operator: K.Ruest
Sample : 0.5ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:18 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration



W0608A.D W032315.M Tue Mar 24 10:18:40 2015

Page 4

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:36 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	1067939	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1789862	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.03	117	1636095	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.62	152	807063	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	613540	53.18	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.36%				
48) surr1,1,2-Diclethane	10.33	65	609749	52.42	ppb		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.84%				
70) surr3,Toluene-d8	13.40	98	1925800	54.21	ppb		0.01
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.42%				
71) surr2,bfb	18.27	95	831259	53.91	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.39	85	12440	0.92	ppb		85
3) Chloromethane	4.74	50	16486m	1.13	ppb		
4) Vinyl Chloride	4.94	62	13261	1.00	ppb		90
5) Bromomethane	5.52	96	10806	1.17	ppb		96
6) Chloroethane	5.67	64	10290	1.04	ppb	#	58
7) FREON 21	5.90	67	26122	1.08	ppb		95
8) Trichlorofluoromethane	6.06	101	13728	0.87	ppb		94
9) Diethyl Ether	6.41	59	10553	1.11	ppb		80
10) FREON 123A	6.35	67	15212	1.08	ppb	#	82
11) FREON 123	6.42	83	15547	1.04	ppb		94
12) Acrolein	6.60	56	9079	5.34	ppb		90
13) FREON 113	6.76	101	12319	1.14	ppb		74
14) 1,1-Diclethene	6.81	96	9973	1.04	ppb		91
15) Acetone	6.78	43	7048m	1.76	ppb		
16) 2-Propanol	6.86	45	12777m	23.93	ppb		
17) Iodomethane	7.06	142	18196	1.03	ppb		92
18) Carbon Disulfide	7.22	76	44336	1.01	ppb		95
19) Acetonitrile	7.15	41	6216	6.10	ppb	#	1
20) Allyl Chloride	7.26	41	20923	1.00	ppb		95
21) Methyl Acetate	7.20	43	7705	1.01	ppb		95
22) Methylene Chloride	7.42	84	13899	1.13	ppb		89
23) TBA	7.40	59	16415	20.54	ppb		91
24) Acrylonitrile	7.68	53	17763	5.21	ppb		90
25) Methyl-t-Butyl Ether	7.76	73	30747	1.06	ppb		94
26) trans-1,2-Dichloroethene	7.80	96	12149	1.07	ppb	#	80
28) 1,1-Diclethane	8.37	63	21689	1.07	ppb		92
29) Vinyl Acetate	8.33	86	1190m	0.74	ppb		
30) DIPE	8.36	45	52198	1.11	ppb		93
31) 2-Chloro-1,3-butadiene	8.51	53	22892	1.03	ppb		89
32) ETBE	8.86	59	42520	1.08	ppb		97
33) 2,2-Dichloropropane	9.21	77	17987	1.08	ppb		96
34) 2-Butanone	9.10	43	5316	1.02	ppb		59
35) cis-1,2-Dichloroethene	9.16	96	13580	1.13	ppb	#	90
36) Propionitrile	9.17	54	6227	5.19	ppb		97
37) Methacrylonitrile	9.41	67	4243	1.07	ppb	#	67

(#) = qualifier out of range (m) = manual integration
W0608B.D W032315.M Tue Mar 24 10:36:45 2015

KB 3/24/15

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:36 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38)	Bromochloromethane	9.52	128	6661	1.06 ppb	#	89
39)	Chloroform	9.55	83	20980	1.06 ppb		86
40)	Tetrahydrofuran	9.60	42	3628	1.30 ppb		84
41)	1,1,1-Trichloroethane	9.94	97	17003	1.07 ppb		96
43)	Cyclohexane	10.09	56	21163	0.98 ppb		83
45)	Carbontetrachloride	10.21	117	14817	1.05 ppb		89
46)	1,1-Dichloropropene	10.16	75	15734	0.97 ppb		76
47)	Iso-Butyl Alcohol	10.00	43	8376	20.27 ppb		92
49)	Benzene	10.49	78	47877	1.03 ppb		92
50)	1,2-Dichloroethane	10.45	62	15708	1.06 ppb		94
51)	TAME	10.53	73	32073	1.01 ppb		98
52)	N-Heptane	10.74	43	17147	1.03 ppb		84
53)	1-Butanol	10.98	56	7390m	33.63 ppb		
54)	Trichloroethene	11.42	95	12352	1.04 ppb		91
55)	Methylcyclohexane	11.81	55	18750	1.09 ppb	#	69
56)	1,2-Diclpropane	11.78	63	14333	1.11 ppb		96
57)	Methyl Methacrylate	11.76	100	2731	1.03 ppb		82
58)	1,4-Dioxane	11.91	88	1940	24.71 ppb		81
59)	Dibromomethane	11.97	93	6534	0.99 ppb	#	86
60)	Bromodichloromethane	12.15	83	14369	0.92 ppb		99
61)	2-Nitropropane	12.46	43	4887	2.01 ppb		88
62)	2-Chloroethylvinyl Ether	12.53	63	6461	0.94 ppb		85
63)	cis-1,3-Dichloropropene	12.88	75	19518	1.02 ppb		87
65)	4-Methyl-2-Pentanone	13.03	43	9852	0.99 ppb		82
66)	Toluene	13.52	91	46704	1.06 ppb		98
67)	trans-1,3-Dichloropropene	13.76	75	15766	1.00 ppb		100
68)	Ethyl Methacrylate	13.81	69	13582	1.06 ppb		86
69)	1,1,2-Trichloroethane	14.12	83	8412	1.03 ppb	#	83
72)	Tetrachloroethene	14.52	166	13332	1.10 ppb		91
73)	2-Hexanone	14.46	43	7832	1.18 ppb		94
74)	1,3-Dichloropropane	14.45	76	19012	1.10 ppb		96
75)	Butyl Acetate	14.63	43	16167	0.98 ppb		95
76)	Dibromochloromethane	14.91	129	12092	1.03 ppb		86
77)	1,2-Dibromoethane	15.20	107	9065	0.98 ppb		88
78)	Chlorobenzene	16.09	112	30271	1.04 ppb		94
79)	3-CBTF	15.84	180	16971	1.03 ppb		100
80)	4-CBTF	15.94	180	15418	1.04 ppb		98
81)	1,1,1,2-Tetrachloroethane	16.19	131	11323	1.04 ppb	#	76
82)	Ethylbenzene	16.23	91	52117	1.06 ppb		90
83)	(m+p)Xylene	16.43	106	40198	2.20 ppb		96
84)	o-Xylene	17.23	106	19509	1.08 ppb		88
85)	Styrene	17.23	104	32815	1.04 ppb		94
86)	Bromoform	17.66	173	5697	0.90 ppb		90
87)	2-CBTF	17.65	180	15098	0.96 ppb		91
88)	Isopropylbenzene	17.93	105	51268	1.12 ppb		99
89)	Cyclohexanone	18.15	55	24864	22.96 ppb		89
91)	1,1,2,2-Tetrachloroethane	18.43	83	10476	0.99 ppb		89
92)	Trans-1,4-Dichloro-2-buten	18.51	53	2514	0.99 ppb	#	66
93)	1,2,3-Trichloropropane	18.56	110	3834	1.16 ppb	#	58
94)	n-Propylbenzene	18.75	91	57615	1.03 ppb		97

(#) = qualifier out of range (m) = manual integration
W0608B.D W032315.M Tue Mar 24 10:36:46 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:36 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

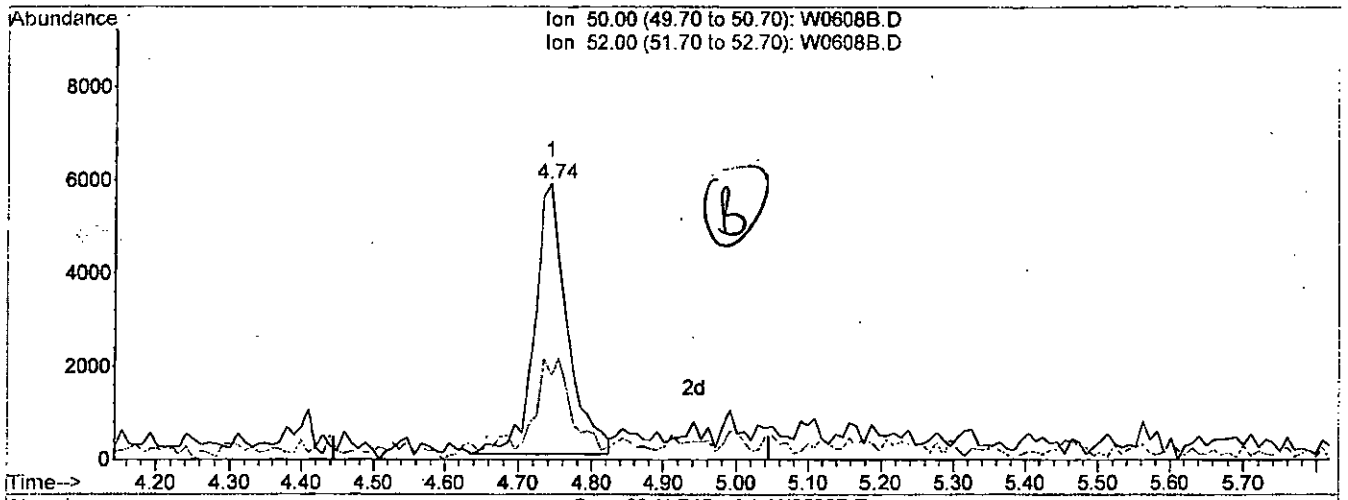
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
95)	Bromobenzene	18.64	156	12105	0.99	ppb	#	81
96)	1,3,5-Trimethylbenzene	19.06	105	40413	1.11	ppb		89
97)	2-Chlorotoluene	19.00	91	36445	1.03	ppb		95
98)	3-Chlorotoluene	19.09	91	35272m	0.99	ppb		
99)	4-Chlorotoluene	19.20	91	37844	1.05	ppb		92
100)	tert-Butylbenzene	19.77	119	33554	1.04	ppb		81
101)	1,2,4-Trimethylbenzene	19.86	105	37681	1.01	ppb		97
102)	3,4-DCBTF	19.90	214	12125	1.05	ppb		96
103)	sec-Butylbenzene	20.22	105	48668	1.07	ppb		99
104)	p-Isopropyltoluene	20.46	119	37937	1.01	ppb		91
105)	1,3-Dclbenz	20.51	146	23684	1.05	ppb		92
106)	1,4-Dclbenz	20.67	146	24559	1.08	ppb		86
107)	2,4-DCBTF	20.64	214	9081	0.92	ppb	#	92
108)	2,5-DCBTF	20.73	214	11985	1.04	ppb		96
109)	n-Butylbenzene	21.21	91	35506	1.00	ppb		88
110)	1,2-Dclbenz	21.36	146	22105	1.03	ppb		90
111)	1,2-Dibromo-3-chloropropan	22.78	157	2861m	1.26	ppb		
112)	Trielution Dichlorotoluene	23.08	125	49788	2.83	ppb	#	86
114)	1,3,5 Trichlorobenzene	23.23	180	14145	0.97	ppb		99
115)	Coelution Dichlorotoluene	23.89	125	36597	2.01	ppb		98
116)	1,2,4-Tcbenzene	24.44	180	12492	0.97	ppb		88
117)	Hexachlorobt	24.72	225	5163	0.99	ppb		74
118)	Naphthalen	24.96	128	27256	0.99	ppb		96
119)	1,2,3-Tclbenzene	25.44	180	9810m	0.91	ppb		
120)	2,4,5-Trichlorotoluene	27.03	159	7439m	1.05	ppb		
121)	2,3,6-Trichlorotoluene	27.28	159	5818	0.98	ppb	#	82

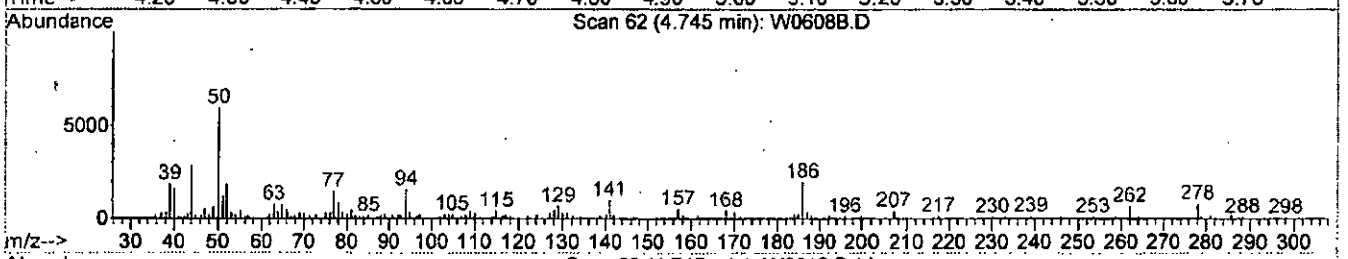
(#) = qualifier out of range (m) = manual integration
W0608B.D W032315.M Tue Mar 24 10:36:46 2015 Page 3

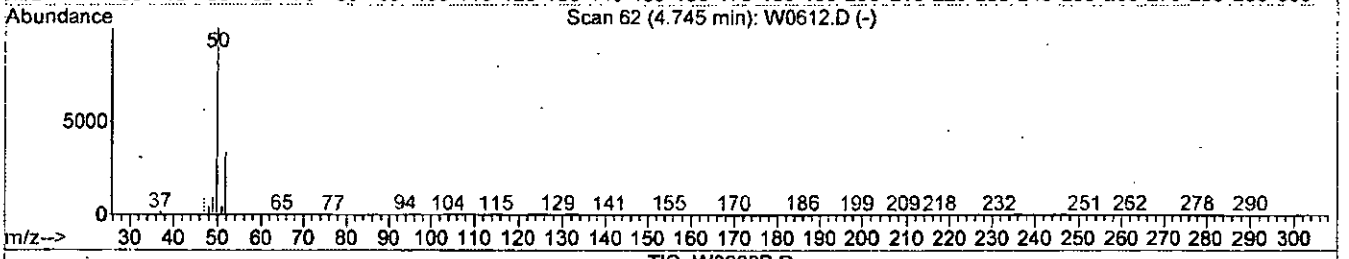
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:06 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration







TIC: W0608B.D

(3) Chloromethane (P)

4.74min 1.22ppb

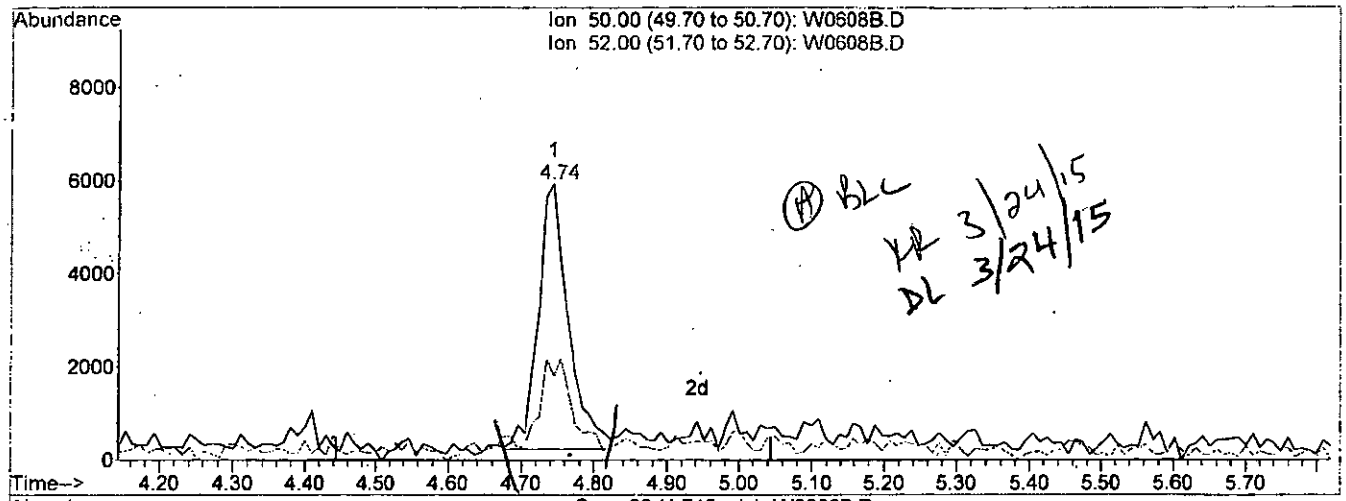
response 17893

Ion	Exp%	Act%
50.00	100	100
52.00	33.60	30.40
0.00	0.00	0.00
0.00	0.00	0.00

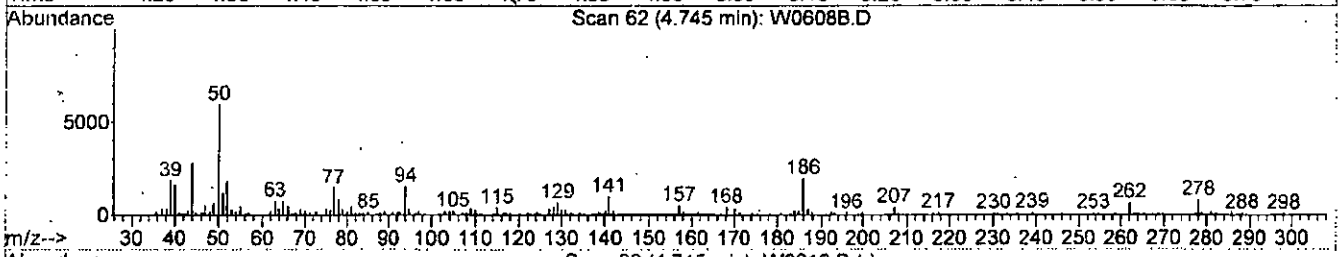
W0608B.D W032315.M Tue Mar 24 10:29:58 2015

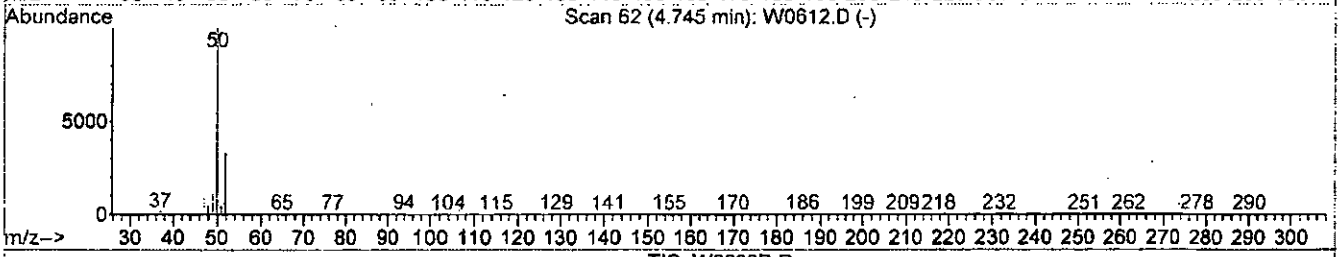
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:30 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



Ⓐ BLC 3/24/15
KR 3/24/15
DL 3/24/15





TIC: W0608B.D

(3) Chloromethane (P)

4.74min 1.13ppb m

response 16486

Ion	Exp%	Act%
50.00	100	100
52.00	33.60	30.40
0.00	0.00	0.00
0.00	0.00	0.00

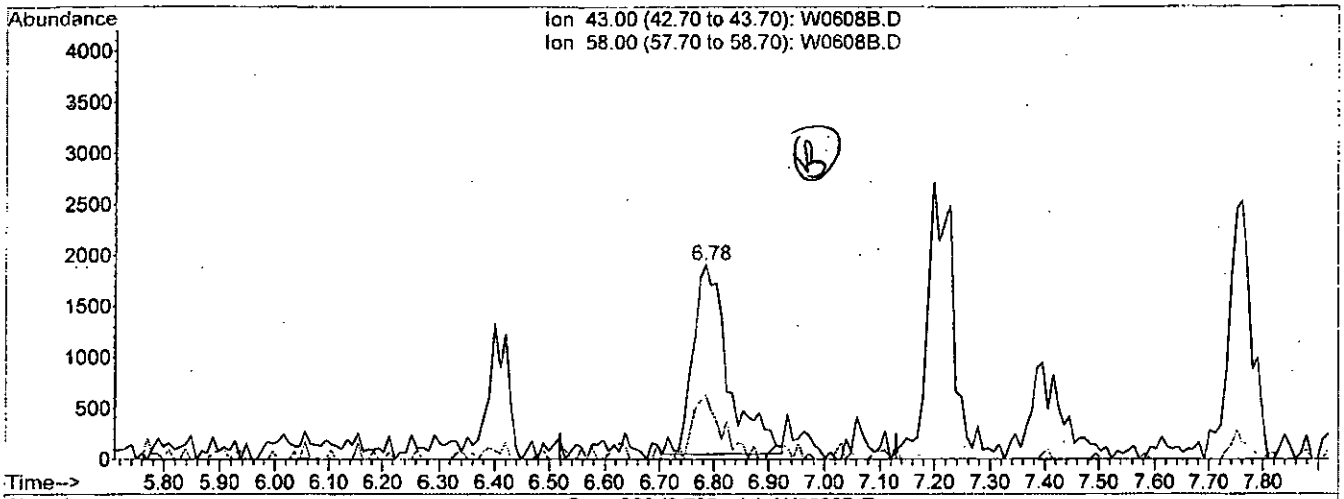
W0608B.D W032315.M Tue Mar 24 10:30:16 2015

00366

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:30 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Single Level Calibration



TIC: W0608B.D

(15) Acetone (P)

6.78min 2.13ppb

response 8502

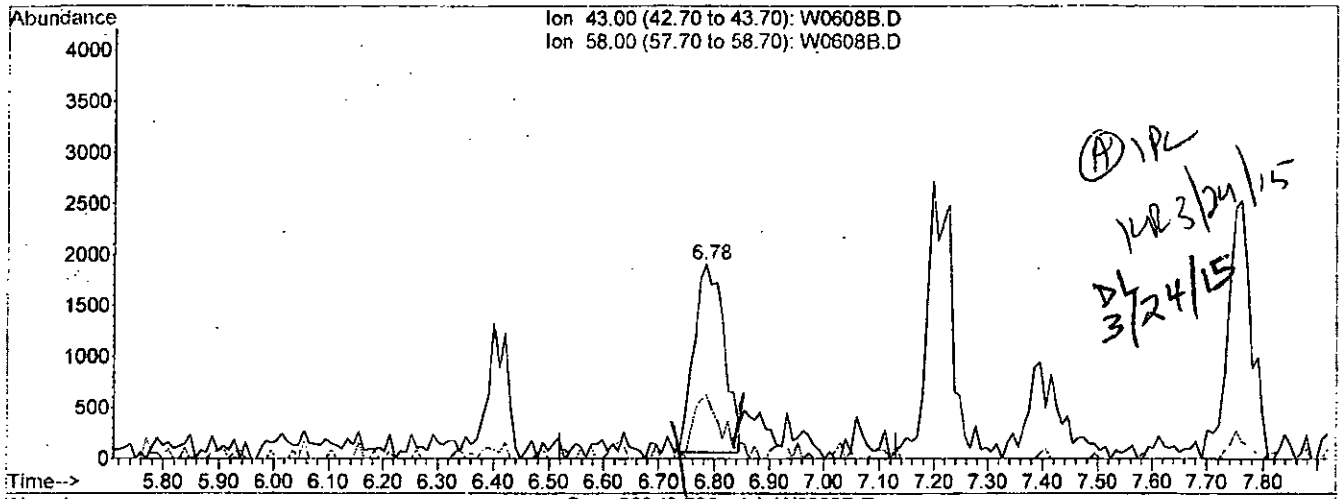
Ion	Exp%	Act%
43.00	100	100
58.00	27.20	33.18
0.00	0.00	0.00
0.00	0.00	0.00

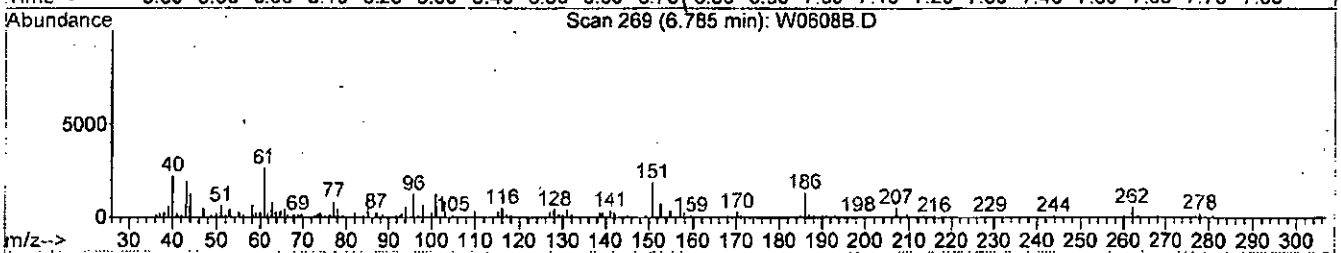
W0608B.D W032315.M Tue Mar 24 10:30:34 2015

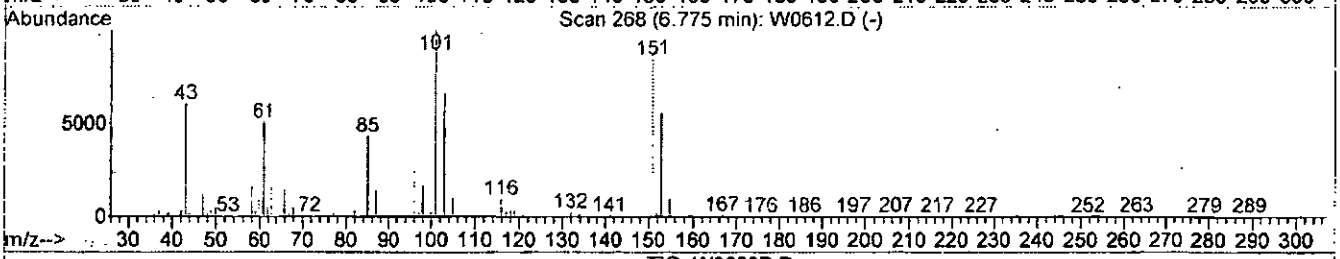
00367

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:30 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Single Level Calibration







TIC: W0608B.D

(15) Acetone (P)

6.78min 1.76ppb m

response 7048

Ion	Exp%	Act%
43.00	100	100
58.00	27.20	33.18
0.00	0.00	0.00
0.00	0.00	0.00

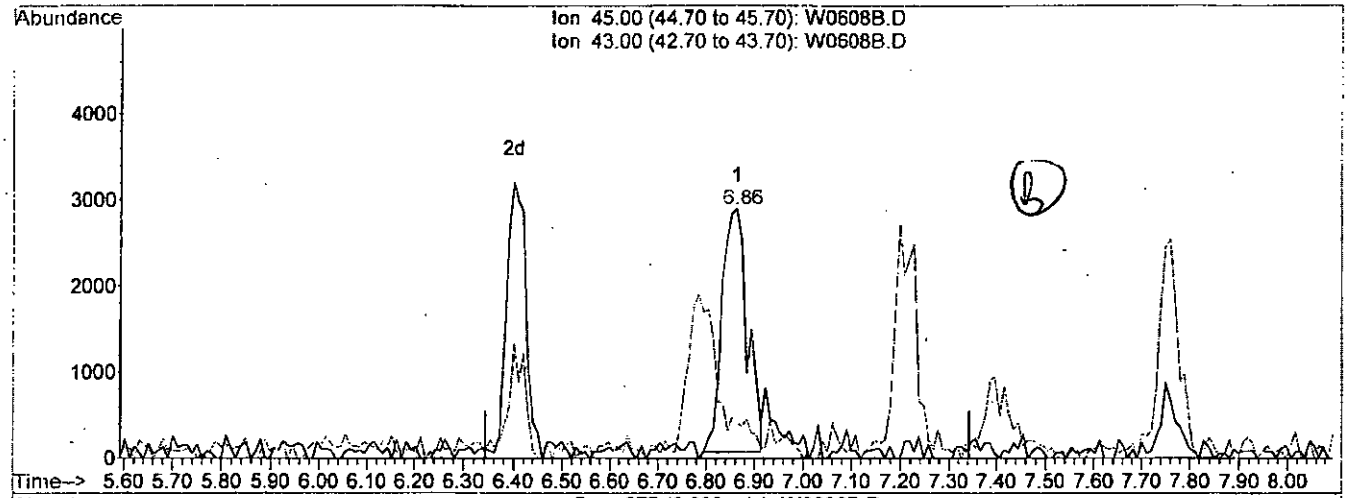
W0608B.D W032315.M Tue Mar 24 10:30:43 2015

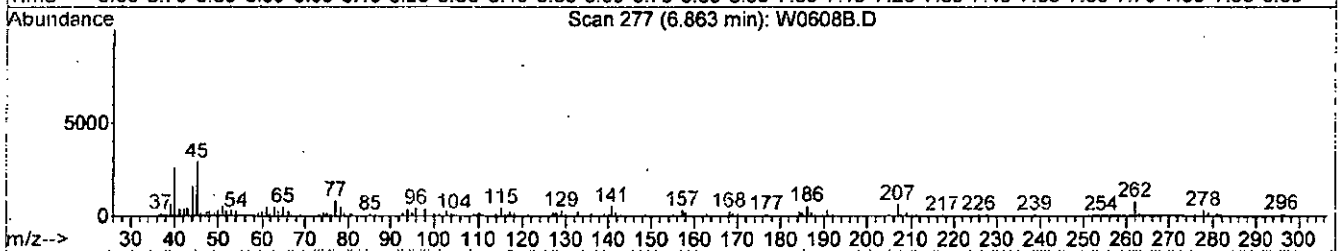
00368

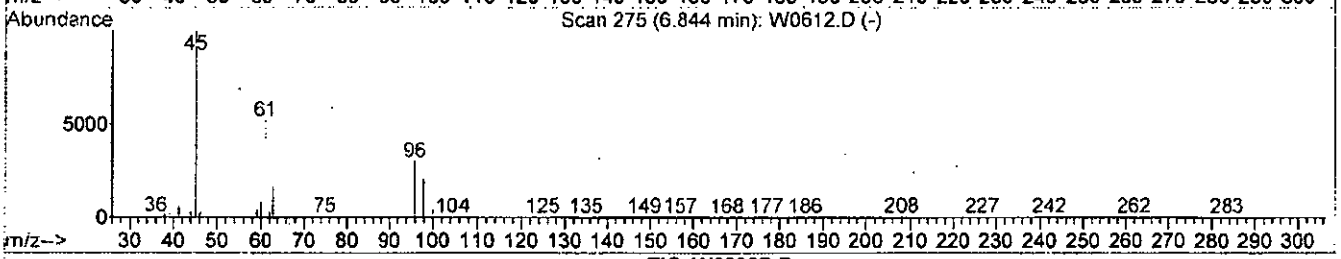
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:30 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration







TIC: W0608B.D

(16) 2-Propanol

6.86min 19.34ppb

response 10328

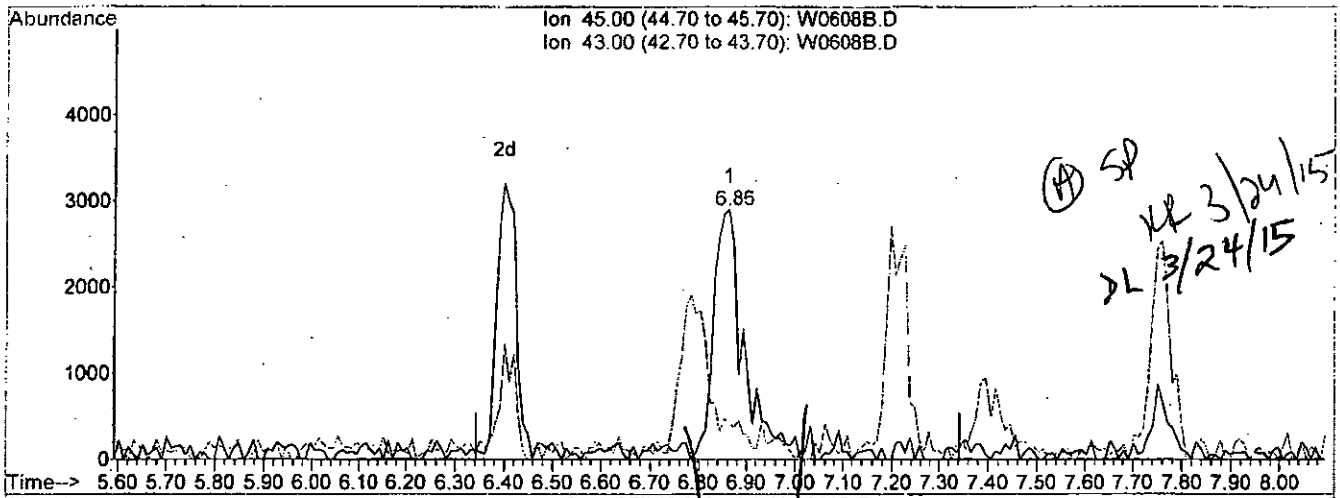
Ion	Exp%	Act%
45.00	100	100
43.00	20.50	14.30
0.00	0.00	0.00
0.00	0.00	0.00

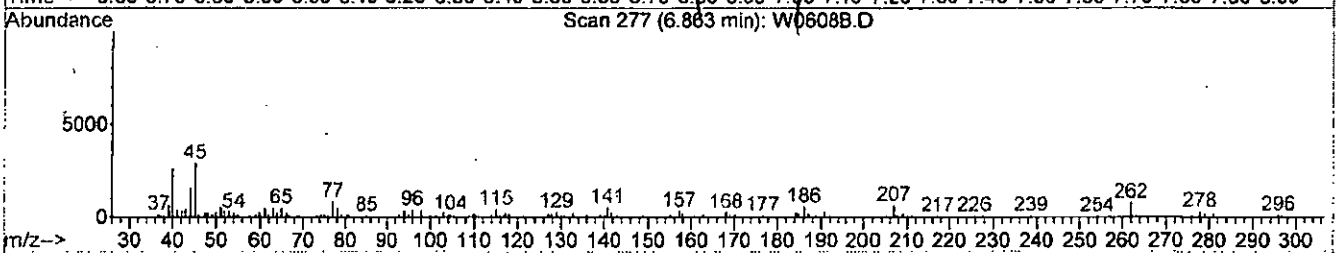
W0608B.D W032315.M Tue Mar 24 10:30:50 2015

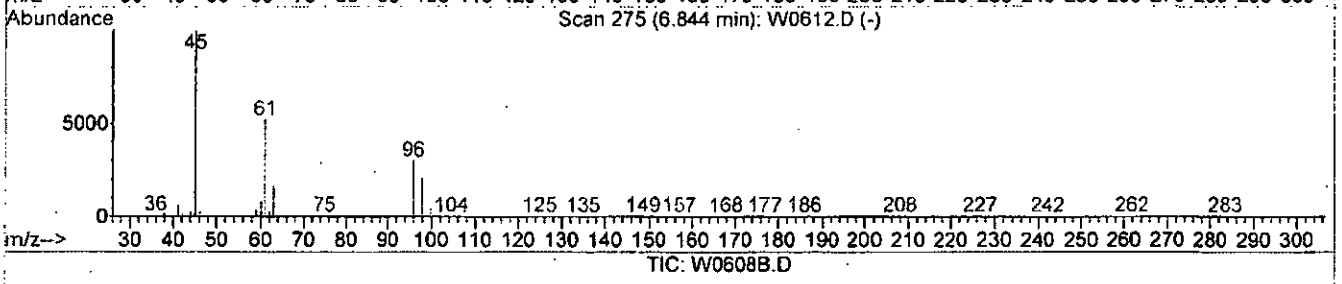
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:30 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration







TIC: W0608B.D

(16) 2-Propanol

6.86min 23.93ppb m

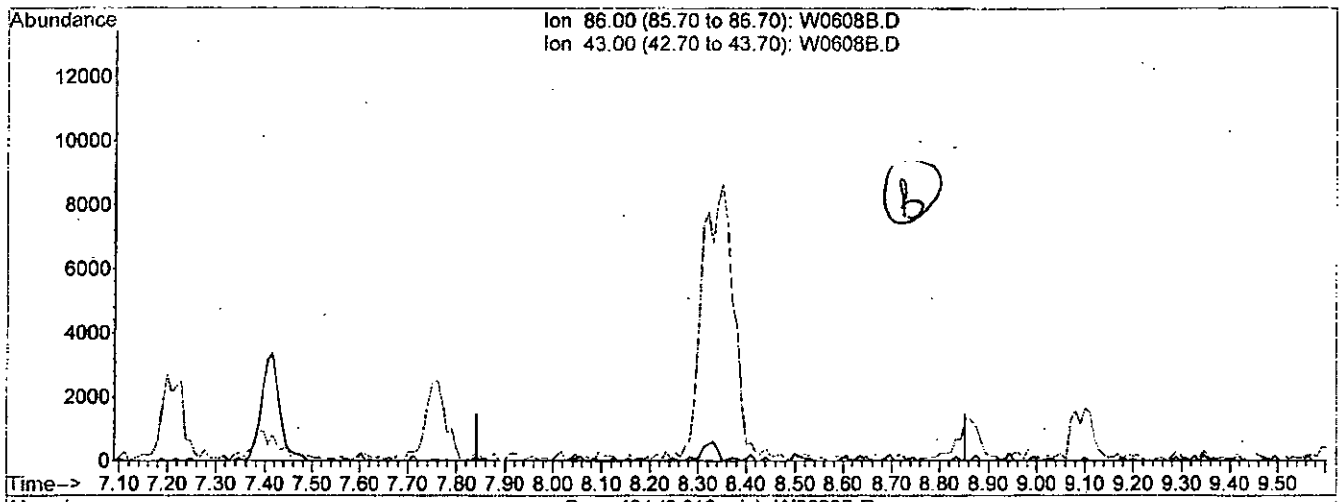
response 12777

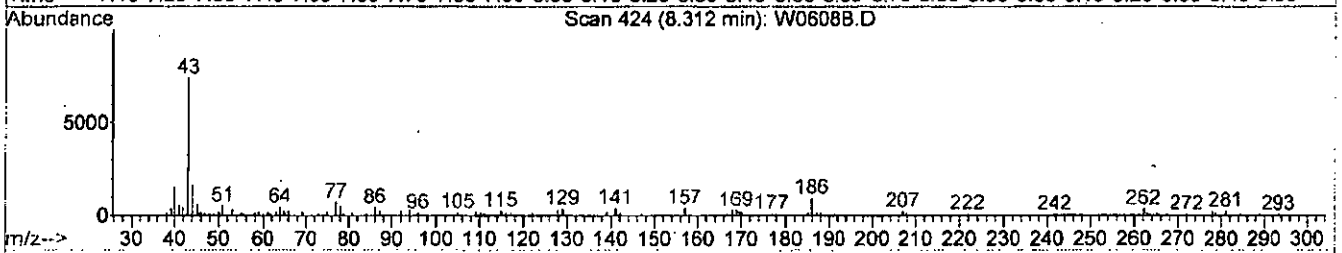
Ion	Exp%	Act%
45.00	100	100
43.00	20.50	14.30
0.00	0.00	0.00
0.00	0.00	0.00

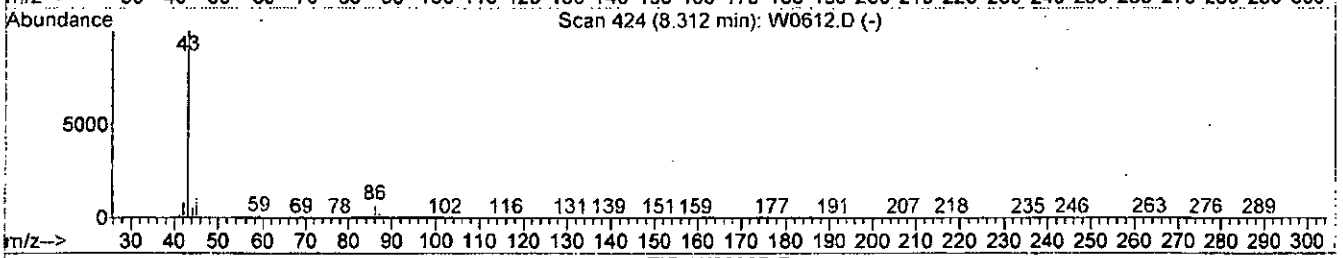
W0608B.D W032315.M Tue Mar 24 10:30:57 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:30 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration







TIC: W0608B.D

(29) Vinyl Acetate

8.31min 0.00ppb

response 0

Ion	Exp%	Act%
86.00	100	0.00
43.00	1392.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

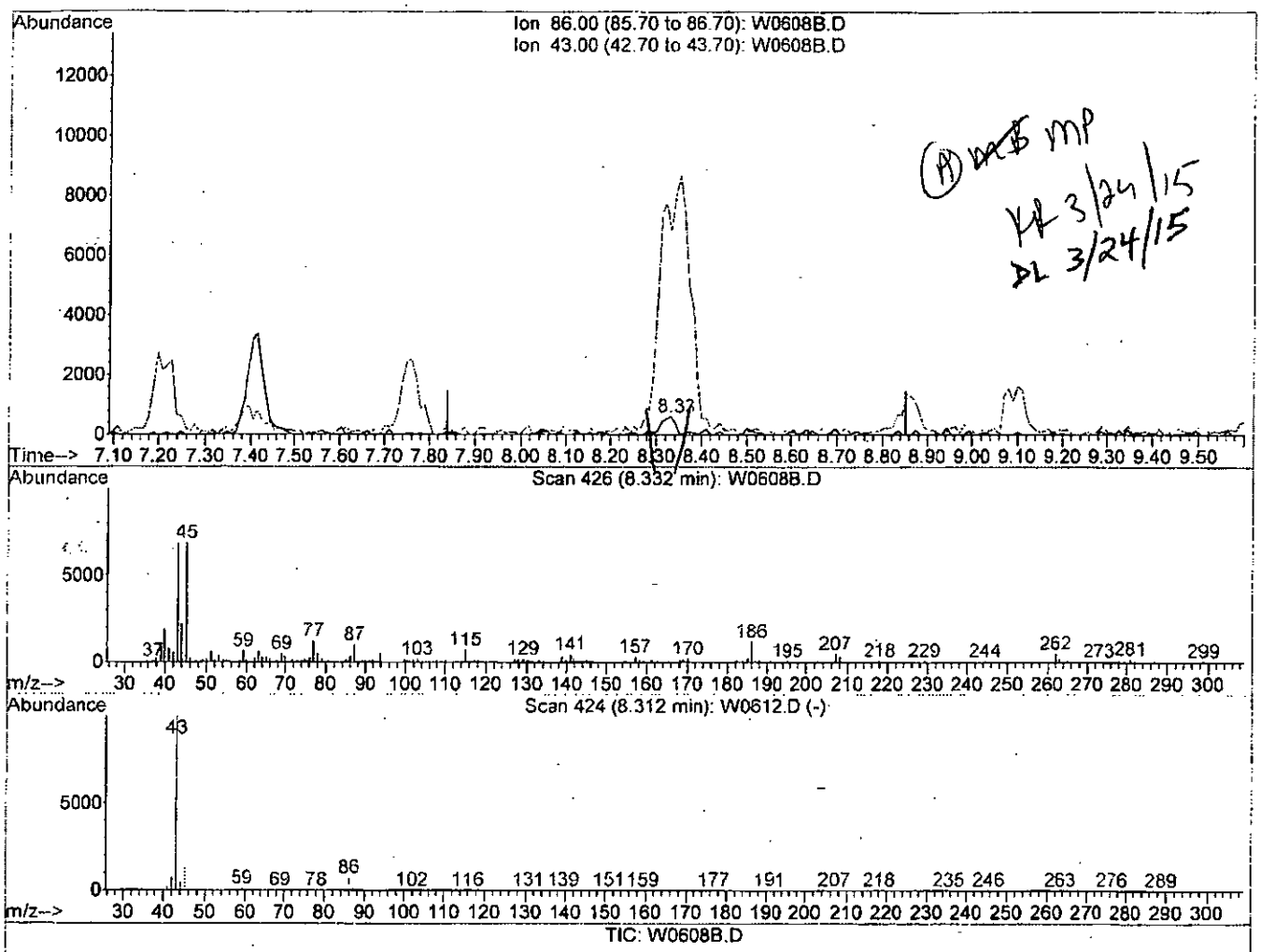
W0608B.D W032315.M Tue Mar 24 10:31:12 2015

00371

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:31 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



(A) mp 3/24/15
DL 3/24/15

(29) Vinyl Acetate

8.33min 0.74ppb m

response 1190

Ion	Exp%	Act%
86.00	100	100
43.00	1392.50	2208.44#
0.00	0.00	0.00
0.00	0.00	0.00

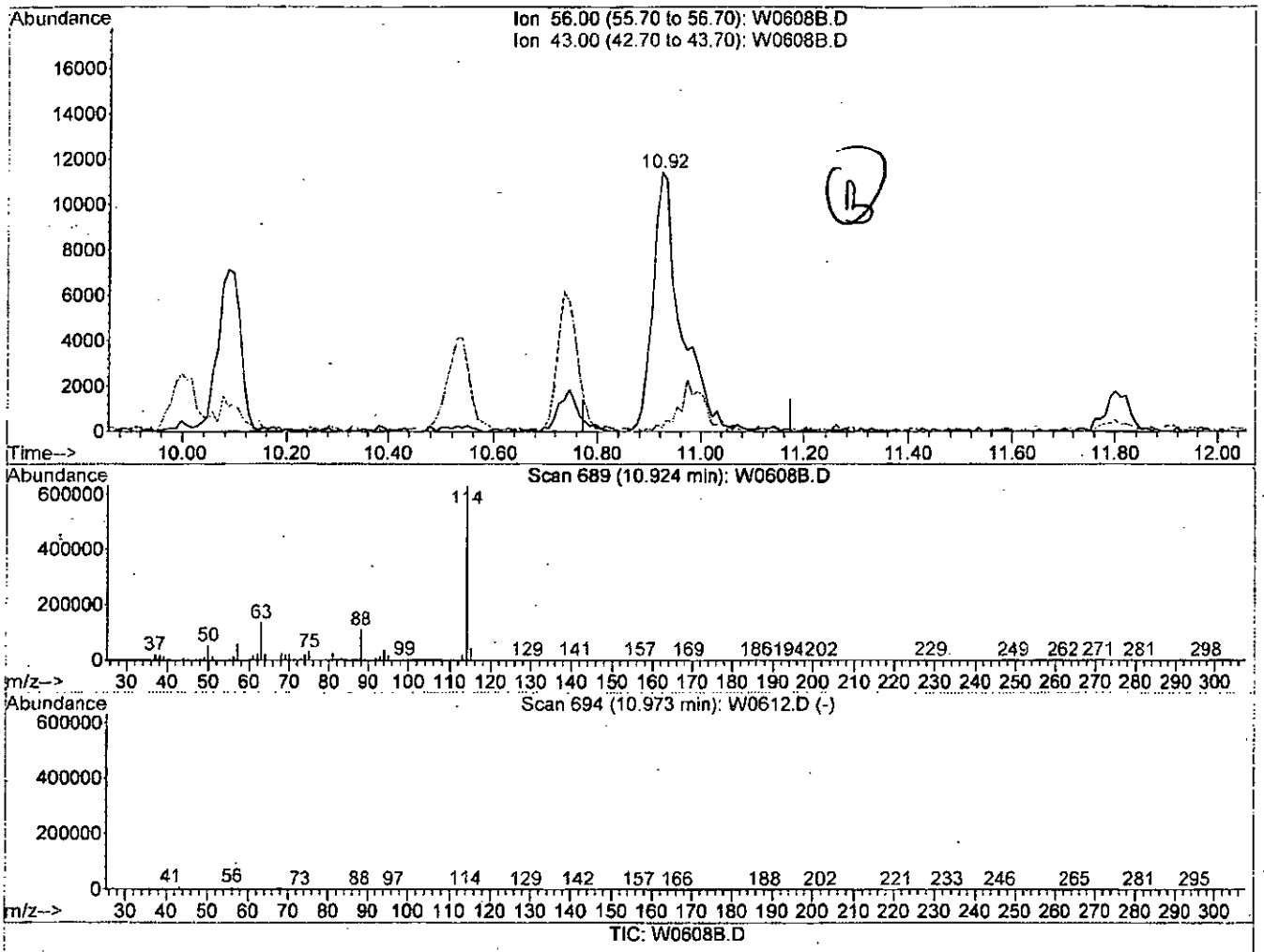
W0608B.D W032315.M Tue Mar 24 10:31:20 2015

00372

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:31 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



TIC: W0608B.D

(53) 1-Butanol

10.92min 197.02ppb

response 43290

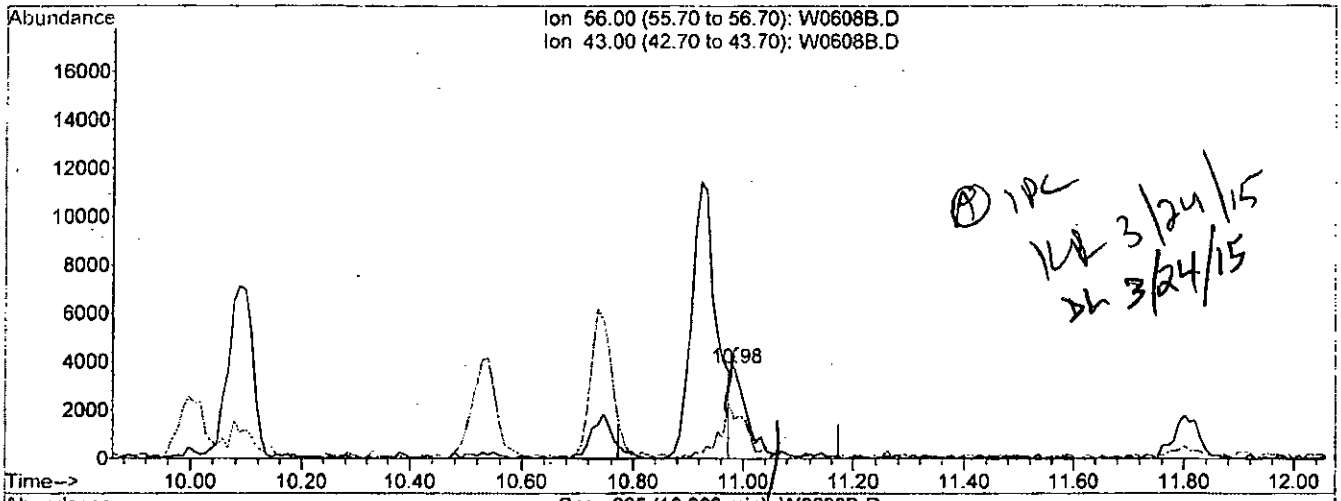
Ion	Exp%	Act%
56.00	100	100
43.00	55.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

W0608B.D W032315.M Tue Mar 24 10:32:53 2015

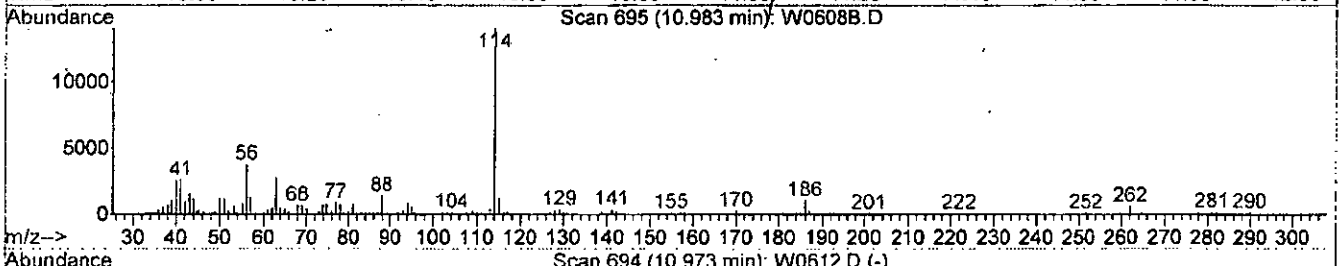
00373

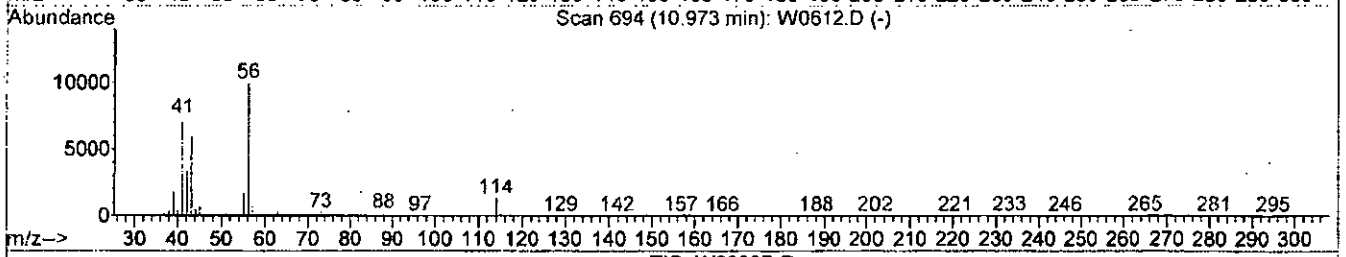
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:32 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



IPC
KR 3/24/15
DL 3/24/15





TIC: W0608B.D

(53) 1-Butanol

10.98min 33.63ppb m

response 7390

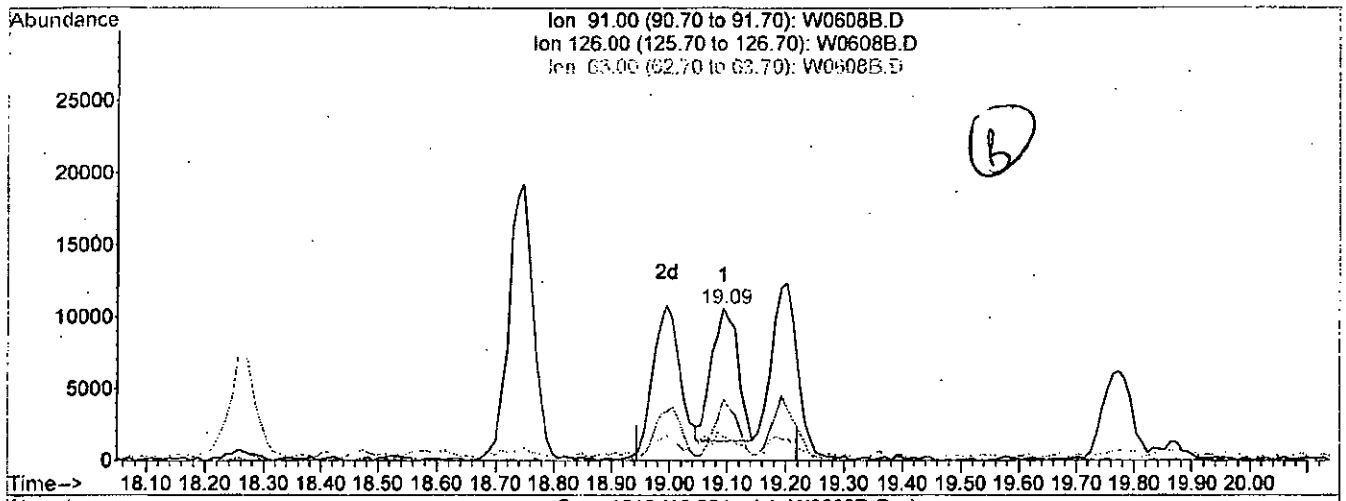
Ion	Exp%	Act%
56.00	100	100
43.00	55.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

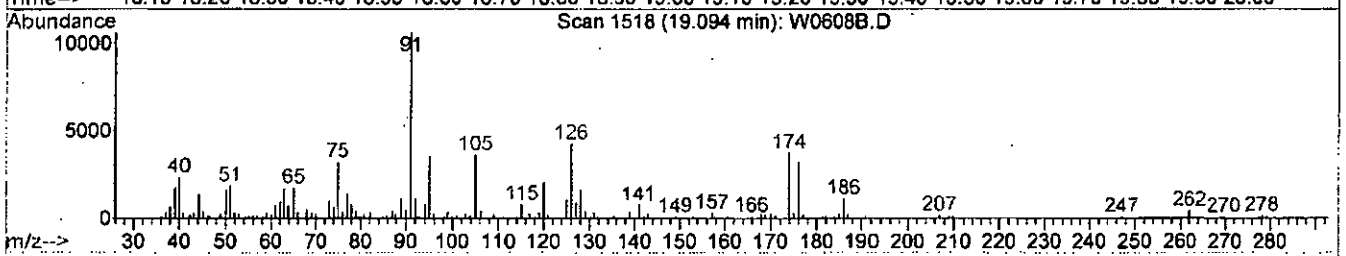
W0608B.D W032315.M Tue Mar 24 10:33:05 2015

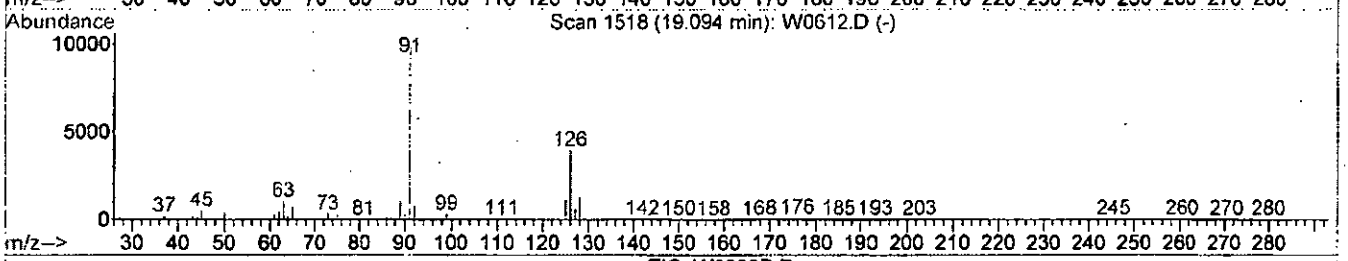
00374

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:32 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration







TIC: W0608B.D

(98) 3-Chlorotoluene

19.09min 0.80ppb

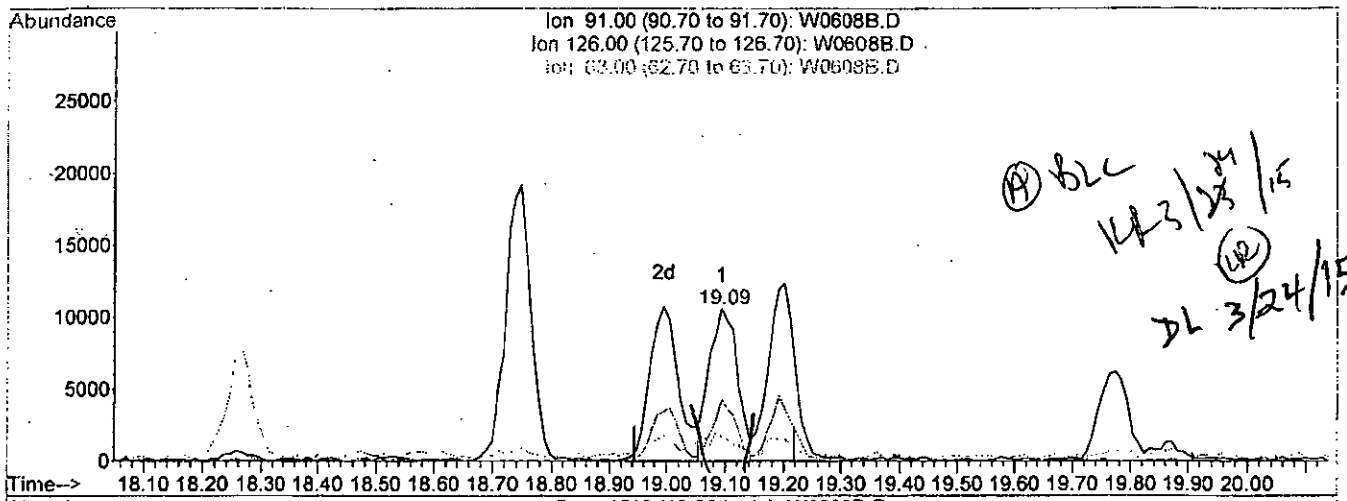
response 28440

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	36.50#
63.00	12.50	12.20
0.00	0.00	0.00

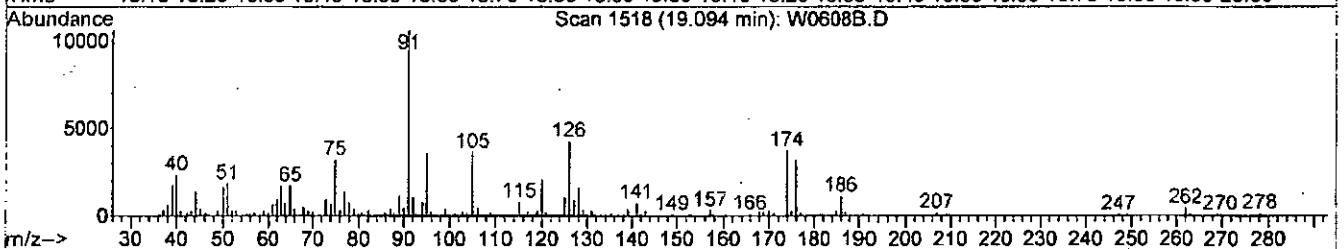
W0608B.D W032315.M Tue Mar 24 10:34:55 2015

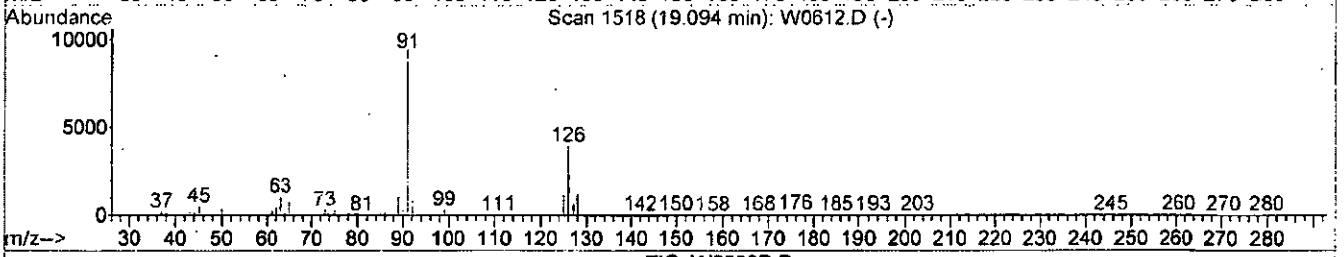
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:34 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



(A) BLC 3/23/15 JM
(LR) DL 3/24/15





TIC: W0608B.D

(98) 3-Chlorotoluene

19.09min 0.99ppb m

response 35272

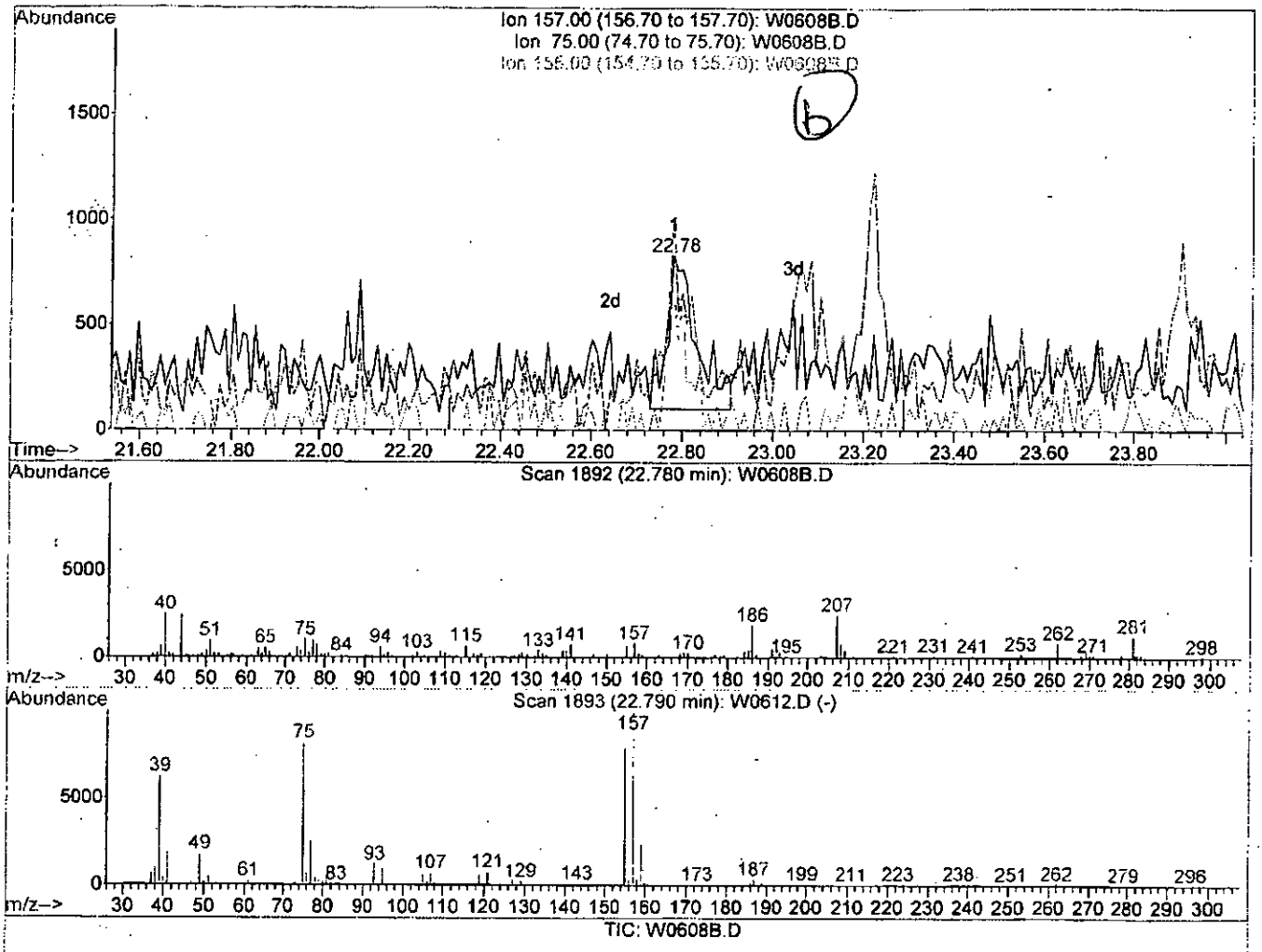
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	29.43
63.00	12.50	9.83#
0.00	0.00	0.00

W0608B.D W032315.M Tue Mar 24 10:35:02 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:34 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



TIC: W0608B.D

(111) 1,2-Dibromo-3-chloropropane (P)

22.78min 1.46ppb

response 3318

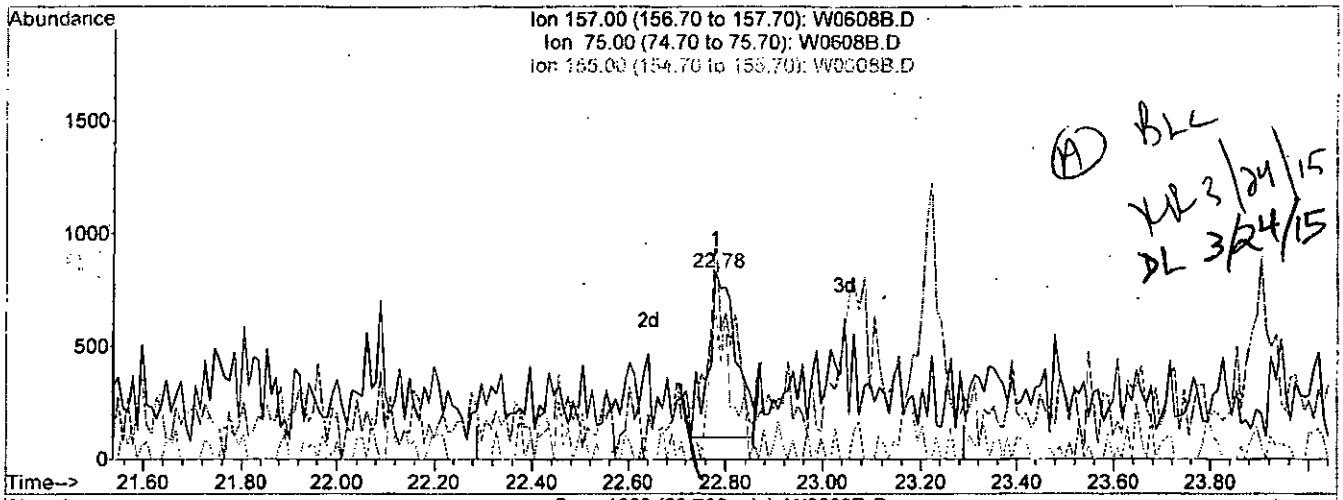
Ion	Exp%	Act%
157.00	100	100
75.00	82.60	121.57#
155.00	79.20	80.48
0.00	0.00	0.00

W0608B.D W032315.M Tue Mar 24 10:35:34 2015

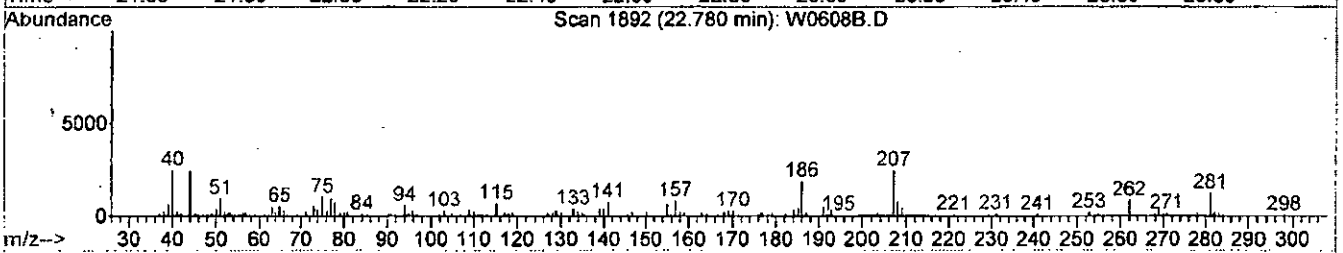
Quantitation Report (Qedit)

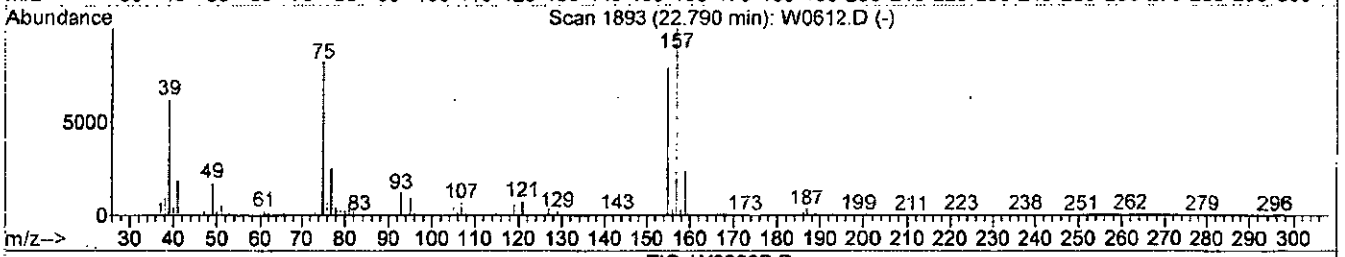
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:35 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



BLC
KL 3/24/15
DL 3/24/15





TIC: W0608B.D

(111) 1,2-Dibromo-3-chloropropane (P)

22.78min 1.26ppb m

response 2861

Ion	Exp%	Act%
157.00	100	100
75.00	82.60	121.57#
155.00	79.20	80.48
0.00	0.00	0.00

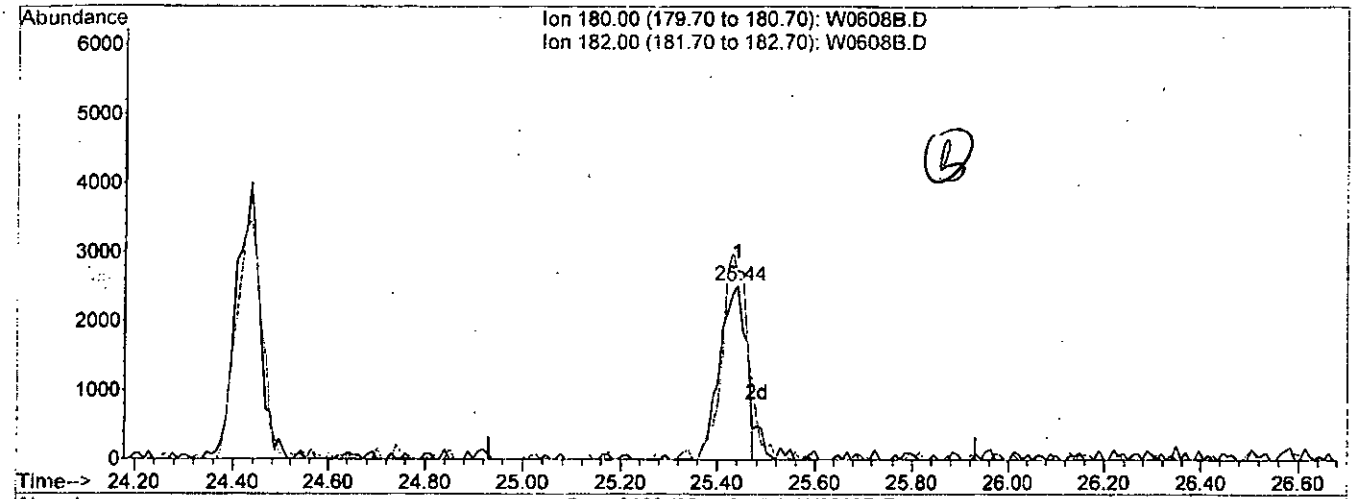
W0608B.D W032315.M Tue Mar 24 10:35:54 2015

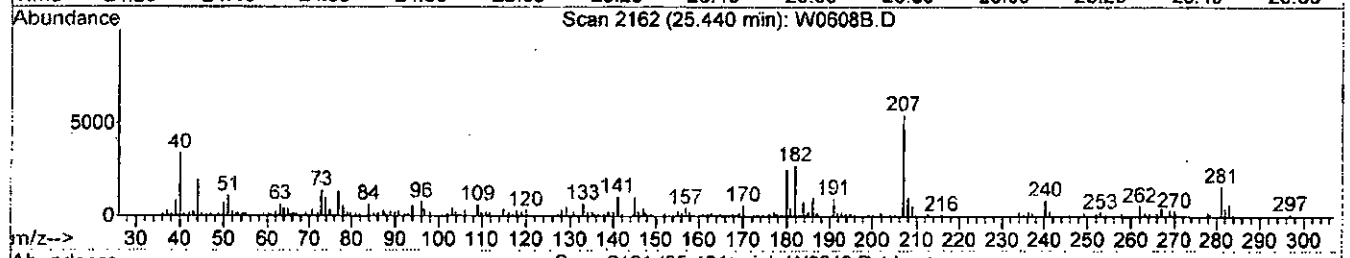
00378

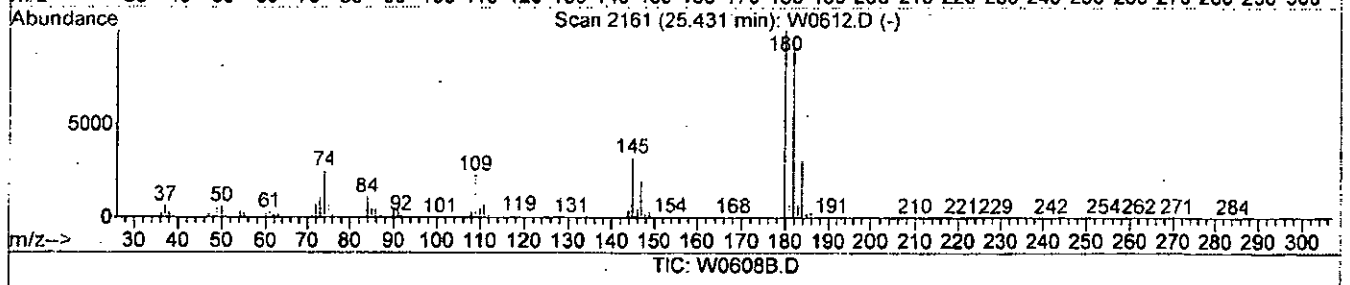
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:35 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration







TIC: W0608B.D

(119) 1,2,3-Tclbenzene

25.44min 0.85ppb

response 9163

Ion	Exp%	Act%
180.00	100	100
182.00	96.40	108.03
0.00	0.00	0.00
0.00	0.00	0.00

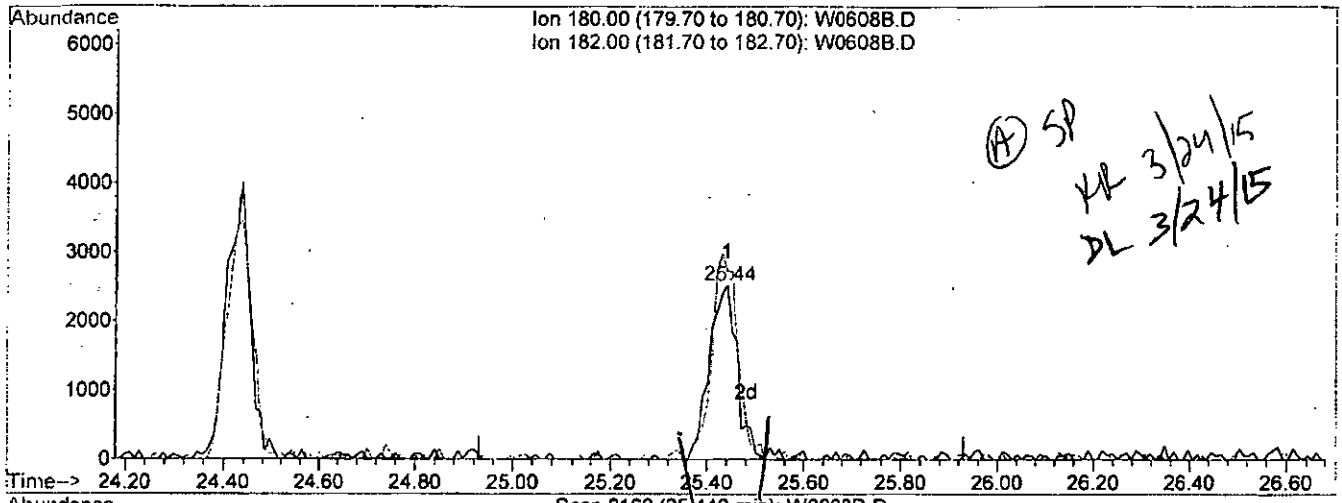
W0608B.D W032315.M Tue Mar 24 10:36:07 2015

00379

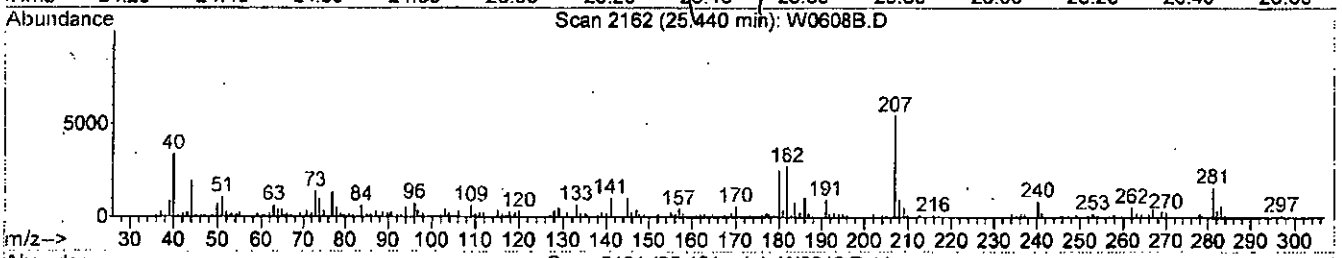
Quantitation Report (Qedit)

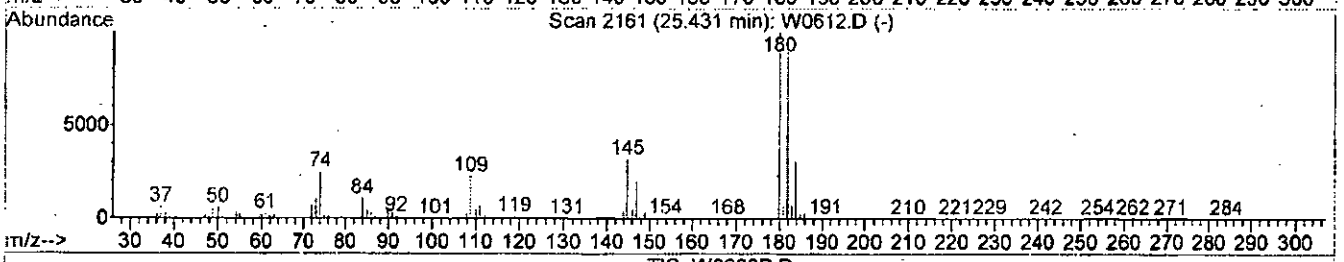
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:36 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



Ⓐ SP
KL 3/24/15
DL 3/24/15





TIC: W0608B.D

(119) 1,2,3-Tclbenzene

25.44min 0.91ppb m

response 9810

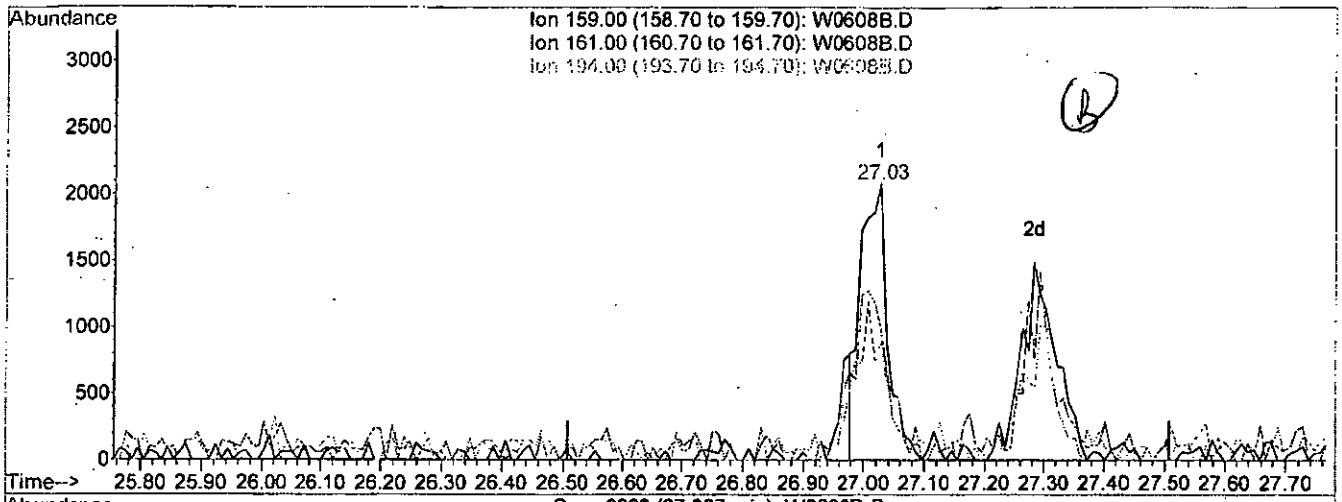
Ion	Exp%	Act%
180.00	100	100
182.00	96.40	108.03
0.00	0.00	0.00
0.00	0.00	0.00

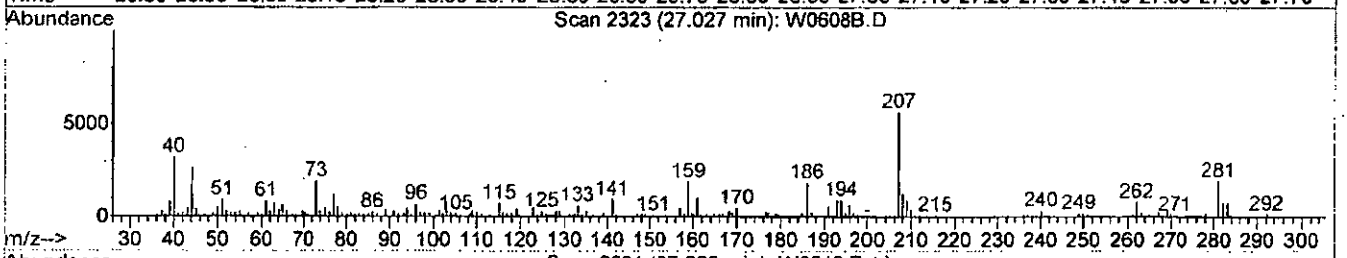
W0608B.D W032315.M Tue Mar 24 10:36:15 2015

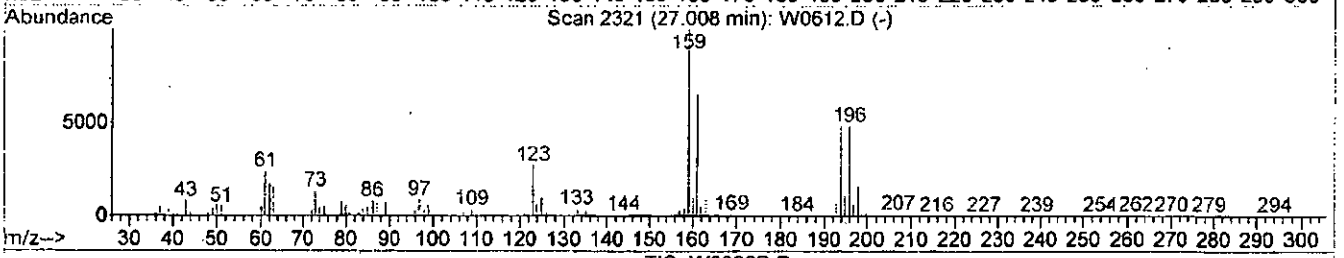
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:36 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration







TIC: W0608B.D

(120) 2,4,5-Trichlorotoluene

27.03min 0.88ppb

response 6252

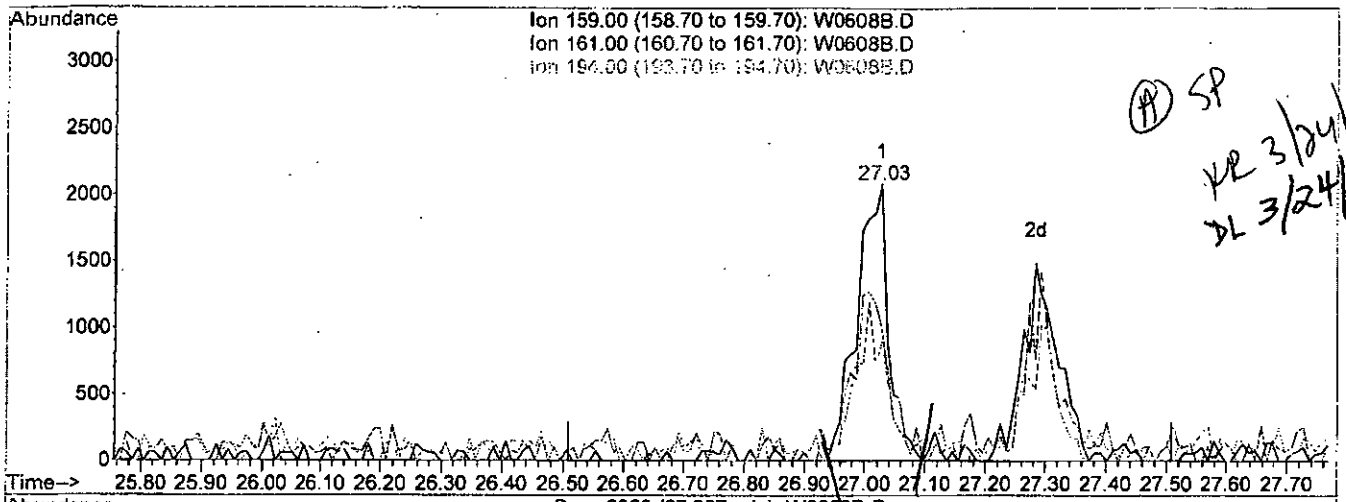
Ion	Exp%	Act%
159.00	100	100
161.00	63.10	53.47
194.00	48.80	71.74#
0.00	0.00	0.00

W0608B.D W032315.M Tue Mar 24 10:36:23 2015

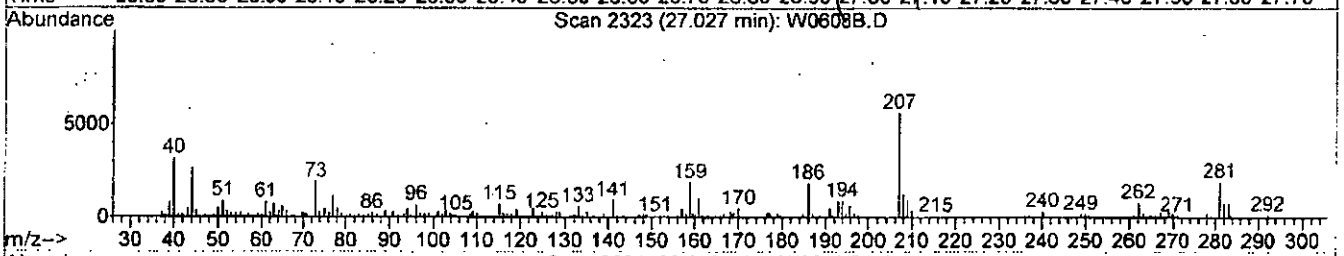
Quantitation Report (Qedit)

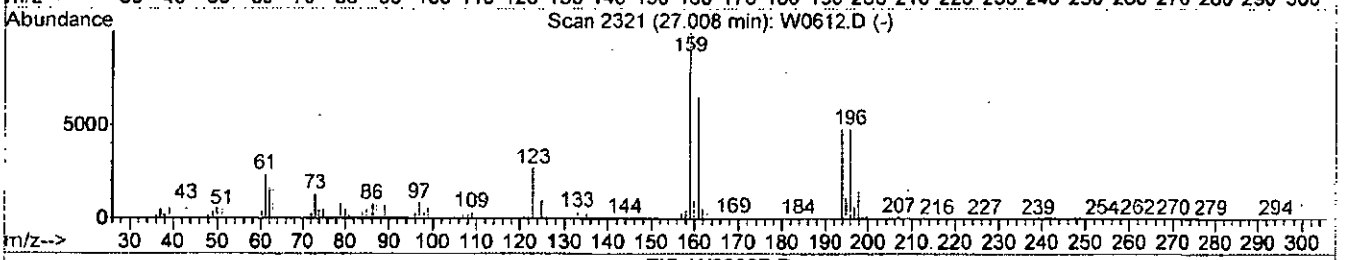
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:36 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Multiple Level Calibration



(A) SP
KR 3/24/15
DL 3/24/15





TIC: W0608B.D

(120) 2,4,5-Trichlorotoluene

27.03min 1.05ppb m

response 7439

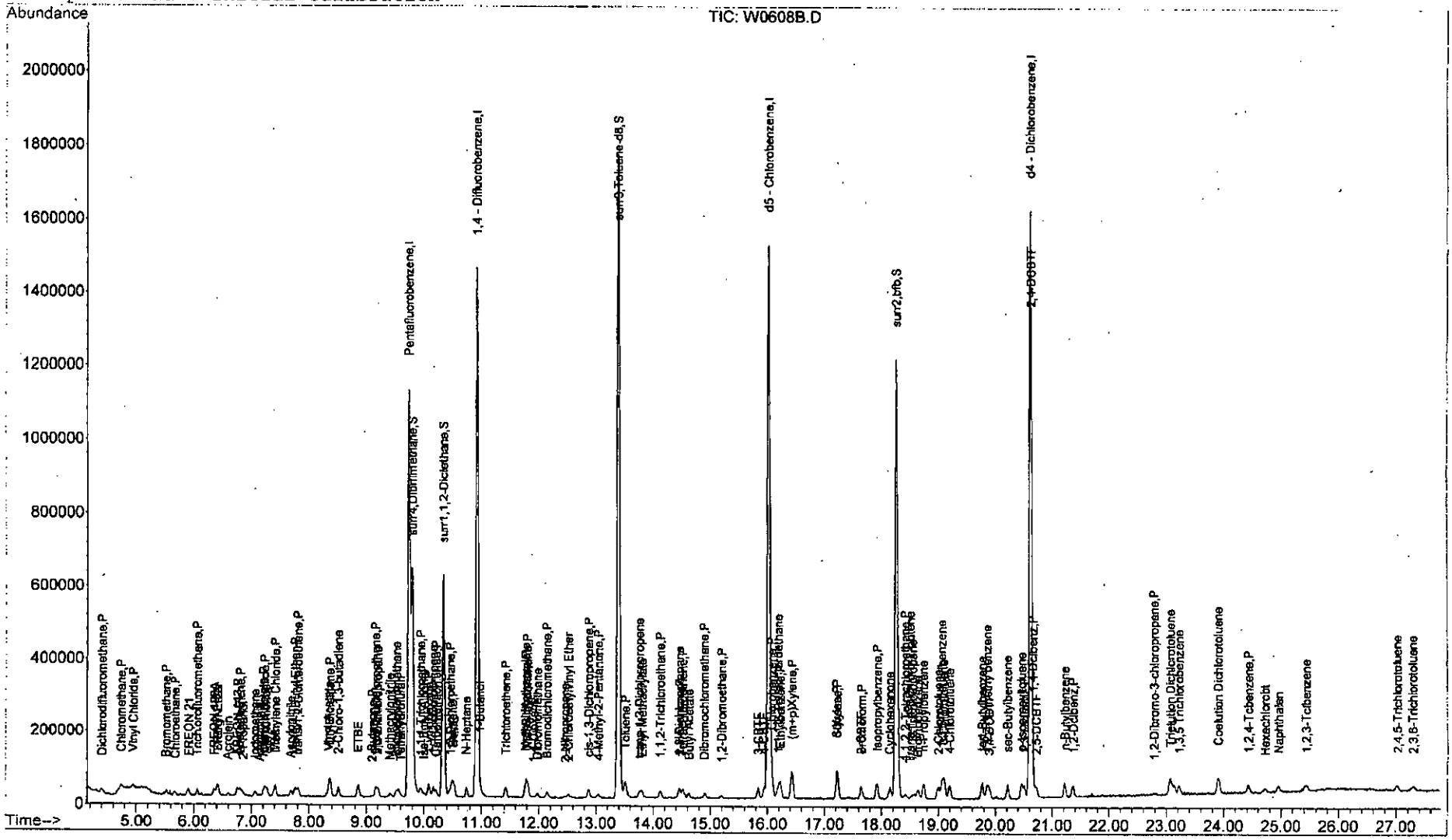
Ion	Exp%	Act%
159.00	100	100
161.00	63.10	44.94#
194.00	48.80	60.29#
0.00	0.00	0.00

W0608B.D W032315.M Tue Mar 24 10:36:29 2015

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0608B.D Vial: 12
Acq On : 23 Mar 2015 5:00 pm Operator: K.Ruest
Sample : 1.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:36 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:18:47 2015
Response via : Initial Calibration



W0608B.D W032315.M Tue Mar 24 10:36:50 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	1085695	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1781240	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.03	117	1647041	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.62	152	807892	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.79	113	714009	62.19	ppb		-0.01
Spiked Amount 50.000	Range 89 - 119		Recovery = 124.38%#				
48) surr1,1,2-Diclethane	10.34	65	724076	62.55	ppb		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 125.10%#				
70) surr3,Toluene-d8	13.39	98	2256921	63.11	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 126.22%#				
71) surr2,bfb	18.26	95	978108	63.01	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 126.02%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.40	85	26164	1.91	ppb		94
3) Chloromethane	4.74	50	28590	1.92	ppb		96
4) Vinyl Chloride	4.94	62	26045	1.93	ppb		98
5) Bromomethane	5.51	96	18221m	1.94	ppb		
6) Chloroethane	5.65	64	20173	2.01	ppb		100
7) FREON 21	5.91	67	50863	2.06	ppb		94
8) Trichlorofluoromethane	6.05	101	34355	2.15	ppb		93
9) Diethyl Ether	6.41	59	21073	2.19	ppb		98
10) FREON 123A	6.35	67	30316	2.12	ppb		93
11) FREON 123	6.42	83	33400m	2.21	ppb		
12) Acrolein	6.59	56	16773	9.70	ppb		97
13) FREON 113	6.76	101	22429	2.04	ppb		88
14) 1,1-Diclethene	6.81	96	21705	2.23	ppb	#	65
15) Acetone	6.78	43	10210m	2.51	ppb		
16) 2-Propanol	6.85	45	22477	41.40	ppb		99
17) Iodomethane	7.06	142	34290	1.91	ppb		97
18) Carbon Disulfide	7.23	76	92049	2.05	ppb		99
19) Acetonitrile	7.14	41	10880	10.51	ppb	#	19
20) Allyl Chloride	7.27	41	44429	2.09	ppb		89
21) Methyl Acetate	7.21	43	15285	1.97	ppb		91
22) Methylene Chloride	7.40	84	27713	2.22	ppb		87
23) TBA	7.39	59	32812	40.38	ppb		98
24) Acrylonitrile	7.68	53	32827	9.48	ppb		93
25) Methyl-t-Butyl Ether	7.76	73	59241	2.01	ppb		93
26) trans-1,2-Dichloroethene	7.81	96	24804	2.15	ppb		93
28) 1,1-Diclethane	8.37	63	42254m	2.05	ppb		
29) Vinyl Acetate	8.32	86	3044	1.87	ppb	#	40
30) DIPE	8.35	45	101298	2.12	ppb		98
31) 2-Chloro-1,3-butadiene	8.51	53	47662	2.10	ppb		98
32) ETBE	8.85	59	80358	2.02	ppb		95
33) 2,2-Dichloropropane	9.21	77	33281	1.97	ppb		98
34) 2-Butanone	9.09	43	10932	2.06	ppb		92
35) cis-1,2-Dichloroethene	9.16	96	26665	2.18	ppb		87
36) Propionitrile	9.17	54	11357	9.31	ppb		95
37) Methacrylonitrile	9.41	67	7346	1.83	ppb		89

(#) = qualifier out of range (m) = manual integration
W0609.D W032315.M Tue Mar 24 10:52:09 2015

KR 3/24/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.51	128	12840	2.01	ppb		94
39)	Chloroform	9.56	83	41947	2.08	ppb		86
40)	Tetrahydrofuran	9.59	42	6273	2.21	ppb	#	64
41)	1,1,1-Trichloroethane	9.95	97	34257	2.12	ppb		98
43)	Cyclohexane	10.08	56	43981	2.04	ppb		96
45)	Carbontetrachloride	10.21	117	28410	2.02	ppb	#	80
46)	1,1-Dichloropropene	10.15	75	35138	2.19	ppb		93
47)	Iso-Butyl Alcohol	10.00	43	16638	40.45	ppb		100
49)	Benzene	10.49	78	103013	2.22	ppb		97
50)	1,2-Dichloroethane	10.45	62	30081	2.04	ppb		92
51)	TAME	10.53	73	66108	2.10	ppb		98
52)	N-Heptane	10.75	43	33276	2.02	ppb		92
53)	1-Butanol	10.96	56	20569m	94.07	ppb		
54)	Trichloroethene	11.43	95	24444	2.07	ppb		91
55)	Methylcyclohexane	11.81	55	35731	2.09	ppb		90
56)	1,2-Diclpropane	11.78	63	27082	2.11	ppb		95
57)	Methyl Methacrylate	11.76	100	5872	2.23	ppb		84
58)	1,4-Dioxane	11.92	88	3474m	44.47	ppb		
59)	Dibromomethane	11.99	93	13689	2.08	ppb		93
60)	Bromodichloromethane	12.14	83	32087	2.07	ppb		88
61)	2-Nitropropane	12.46	43	7800	3.23	ppb		95
62)	2-Chloroethylvinyl Ether	12.52	63	13033	1.90	ppb		96
63)	cis-1,3-Dichloropropene	12.87	75	38720	2.03	ppb		93
65)	4-Methyl-2-Pentanone	13.03	43	19297	1.92	ppb		94
66)	Toluene	13.51	91	92588	2.08	ppb		95
67)	trans-1,3-Dichloropropene	13.76	75	32576	2.05	ppb		95
68)	Ethyl Methacrylate	13.80	69	25994	2.02	ppb		96
69)	1,1,2-Trichloroethane	14.12	83	15579	1.89	ppb	#	75
72)	Tetrachloroethene	14.51	166	25654	2.10	ppb		83
73)	2-Hexanone	14.46	43	13740	2.05	ppb		79
74)	1,3-Dichloropropane	14.45	76	36556	2.10	ppb		94
75)	Butyl Acetate	14.62	43	33444	2.01	ppb		98
76)	Dibromochloromethane	14.89	129	23201	1.96	ppb		79
77)	1,2-Dibromoethane	15.19	107	18966	2.04	ppb		88
78)	Chlorobenzene	16.09	112	60984	2.08	ppb		94
79)	3-CBTF	15.84	180	33546	2.02	ppb		97
80)	4-CBTF	15.94	180	29917	2.00	ppb		98
81)	1,1,1,2-Tetrachloroethane	16.19	131	21170	1.93	ppb		95
82)	Ethylbenzene	16.22	91	108021	2.17	ppb		96
83)	(m+p)Xylene	16.43	106	78293	4.25	ppb	#	78
84)	o-Xylene	17.23	106	38980	2.14	ppb		91
85)	Styrene	17.23	104	70348	2.22	ppb		92
86)	Bromoform	17.66	173	12731	2.00	ppb		98
87)	2-CBTF	17.65	180	33757	2.14	ppb		98
88)	Isopropylbenzene	17.92	105	101755	2.21	ppb		100
89)	Cyclohexanone	18.16	55	47258	43.35	ppb		89
91)	1,1,2,2-Tetrachloroethane	18.42	83	19806	1.88	ppb		91
92)	Trans-1,4-Dichloro-2-buten	18.52	53	4320m	1.69	ppb		
93)	1,2,3-Trichloropropane	18.58	110	6598	1.99	ppb		89
94)	n-Propylbenzene	18.74	91	116167	2.07	ppb		98

(#) = qualifier out of range (m) = manual integration
W0609.D W032315.M Tue Mar 24 10:52:10 2015 Page 2

00385

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

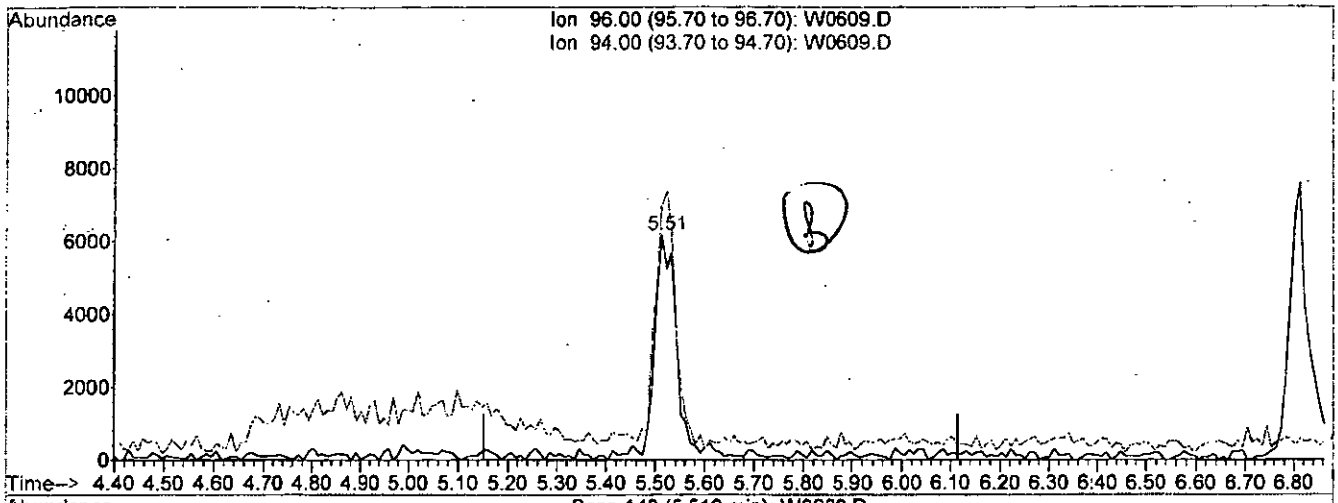
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
95)	Bromobenzene	18.64	156	24458	1.99	ppb	#	84
96)	1,3,5-Trimethylbenzene	19.06	105	78818	2.16	ppb		93
97)	2-Chlorotoluene	18.99	91	72982	2.05	ppb		98
98)	3-Chlorotoluene	19.09	91	72677m	2.04	ppb		
99)	4-Chlorotoluene	19.20	91	77260	2.15	ppb		90
100)	tert-Butylbenzene	19.77	119	69810	2.17	ppb		88
101)	1,2,4-Trimethylbenzene	19.85	105	77771	2.09	ppb		92
102)	3,4-DCBTF	19.89	214	22842	1.97	ppb		99
103)	sec-Butylbenzene	20.22	105	96284	2.12	ppb		93
104)	p-Isopropyltoluene	20.46	119	76675	2.03	ppb		98
105)	1,3-Dclbenz	20.51	146	47943	2.12	ppb		96
106)	1,4-Dclbenz	20.67	146	46543	2.05	ppb		95
107)	2,4-DCBTF	20.64	214	19330	1.96	ppb		97
108)	2,5-DCBTF	20.72	214	24015	2.09	ppb		97
109)	n-Butylbenzene	21.22	91	72676	2.05	ppb		93
110)	1,2-Dclbenz	21.37	146	43755	2.04	ppb		96
111)	1,2-Dibromo-3-chloropropan	22.80	157	4120m	1.81	ppb		
112)	Trielution Dichlorotoluene	23.07	125	104619	5.94	ppb	#	90
114)	1,3,5 Trichlorobenzene	23.22	180	28507	1.95	ppb		99
115)	Coelution Dichlorotoluene	23.91	125	74285	4.08	ppb		98
116)	1,2,4-Tcbenzene	24.42	180	24721	1.92	ppb	#	79
117)	Hexachlorobt	24.72	225	9460	1.82	ppb		87
118)	Naphthalen	24.95	128	52781	1.92	ppb		94
119)	1,2,3-Tclbenzene	25.43	180	21132	1.95	ppb	#	69
120)	2,4,5-Trichlorotoluene	27.03	159	12672	1.79	ppb	#	49
121)	2,3,6-Trichlorotoluene	27.29	159	11608	1.95	ppb	#	87

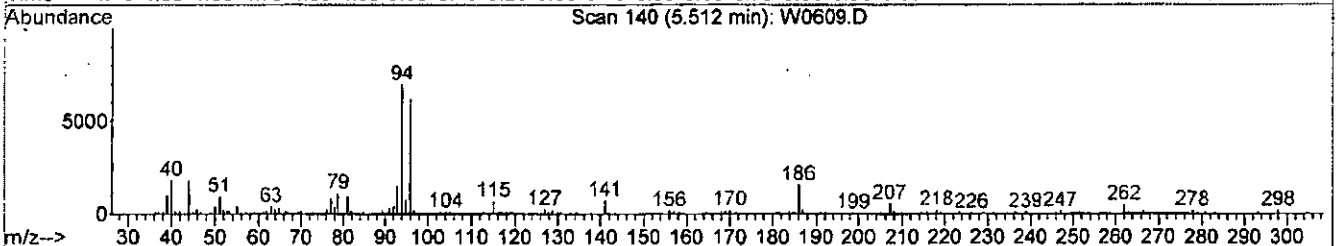
(#) = qualifier out of range (m) = manual integration
W0609.D W032315.M Tue Mar 24 10:52:10 2015 Page 3

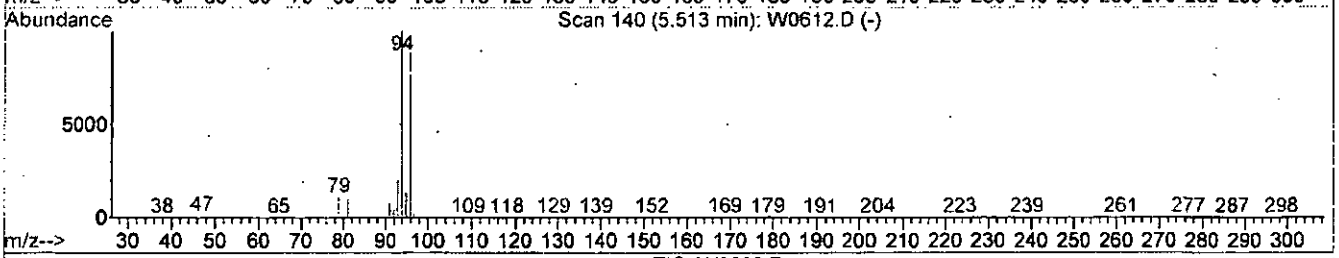
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:06 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration







TIC: W0609.D

(5) Bromomethane (P)

5.51min 2.15ppb

response 20215

Ion	Exp%	Act%
96.00	100	100
94.00	105.60	113.03
0.00	0.00	0.00
0.00	0.00	0.00

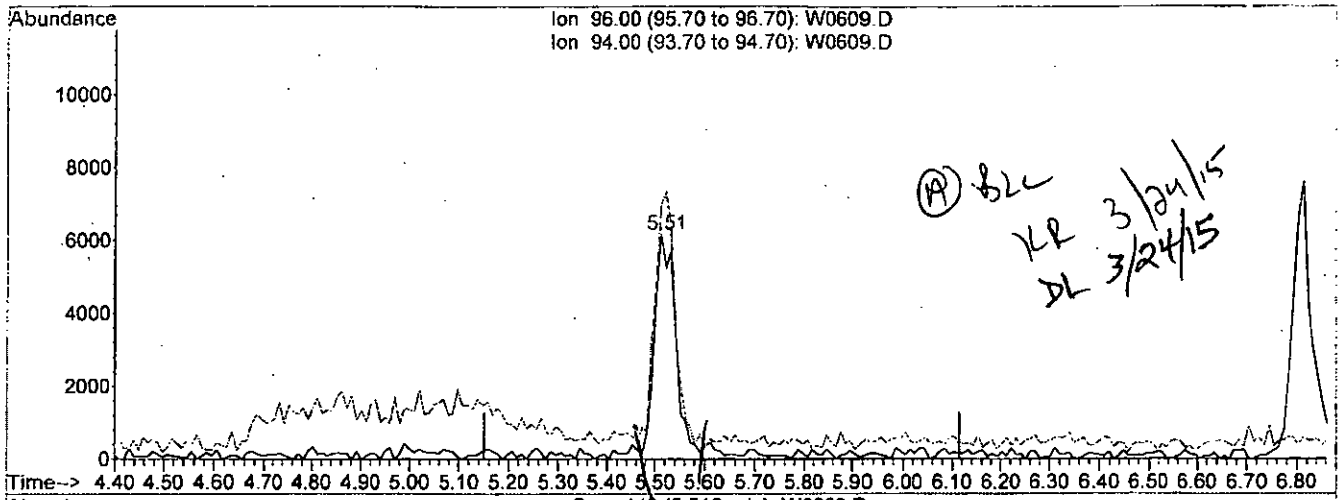
W0609.D W032315.M Tue Mar 24 10:47:33 2015

00387

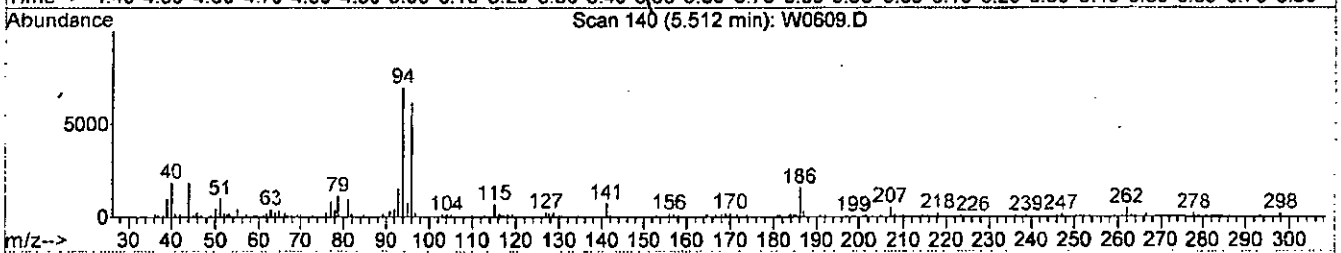
Quantitation Report (Qedit)

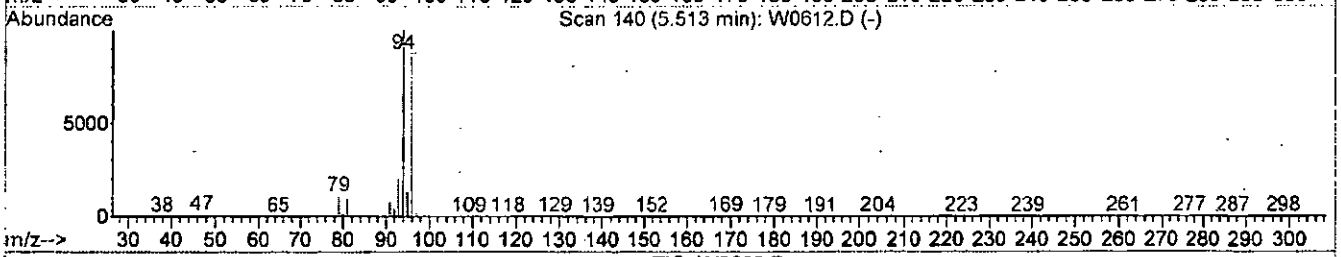
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:47 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



(A) BLC 3/24/15
KLR 3/24/15
DL 3/24/15





TIC: W0609.D

(5) Bromomethane (P)

5.51min 1.94ppb m

response 18221

Ion	Exp%	Act%
96.00	100	100
94.00	105.60	113.03
0.00	0.00	0.00
0.00	0.00	0.00

W0609.D W032315.M Tue Mar 24 10:47:40 2015

00388

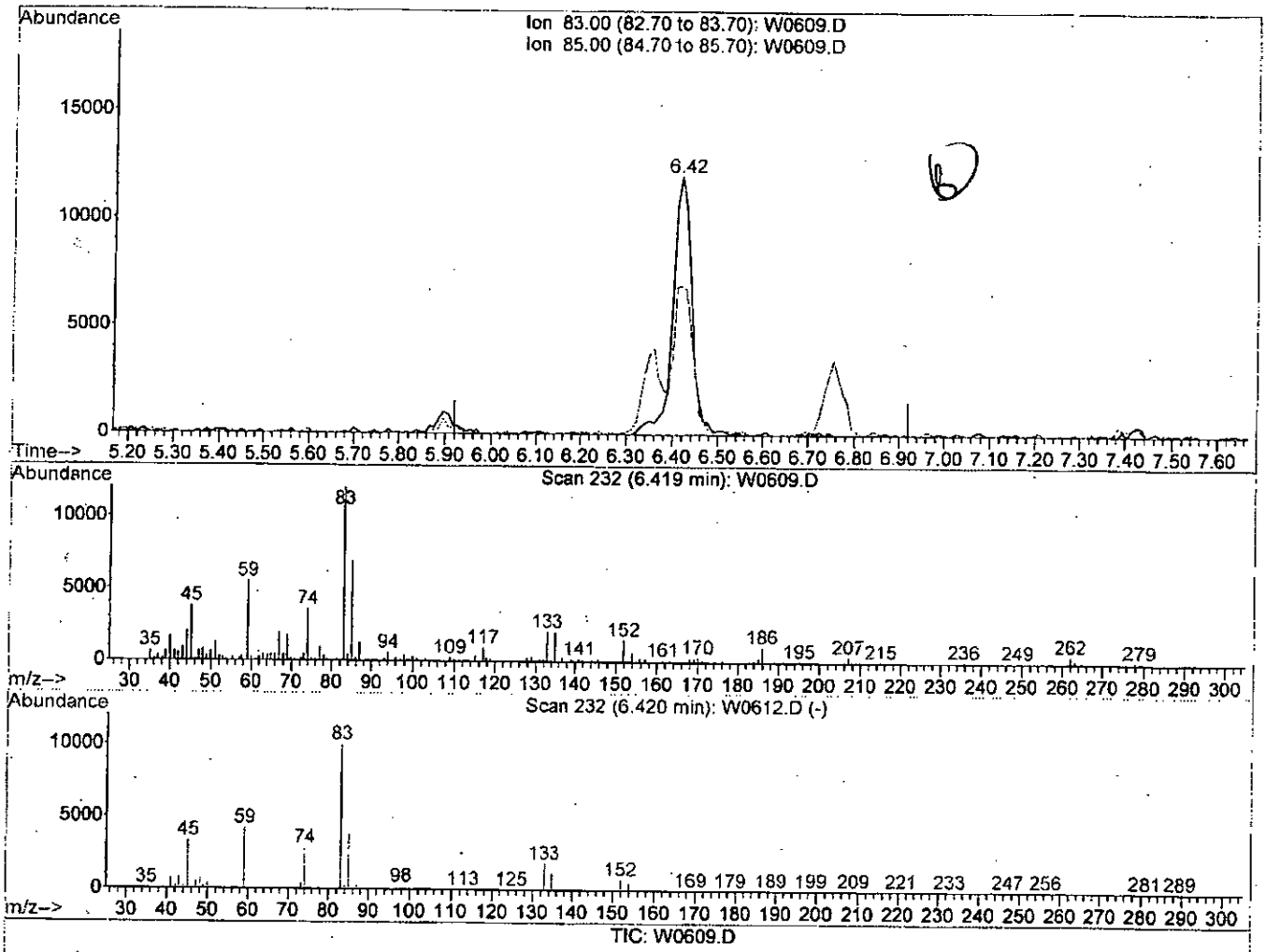
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D
Acq On : 23 Mar 2015 5:35 pm
Sample : 2.0ppb
Misc : 8260 WATER ICAL
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:47 2015

Vial: 13
Operator: K.Ruest
Inst : MS #7
Multiplr: 1.00

Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



TIC: W0609.D

(11) FREON 123

6.42min 2.30ppb

response 34822

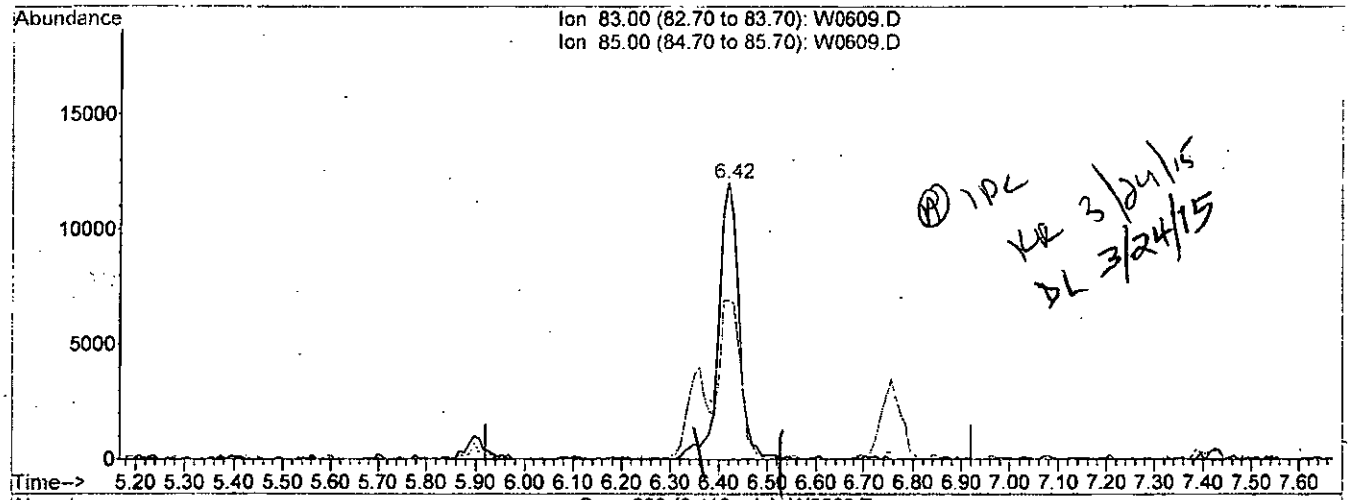
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	57.33
0.00	0.00	0.00
0.00	0.00	0.00

W0609.D W032315.M Tue Mar 24 10:47:50 2015

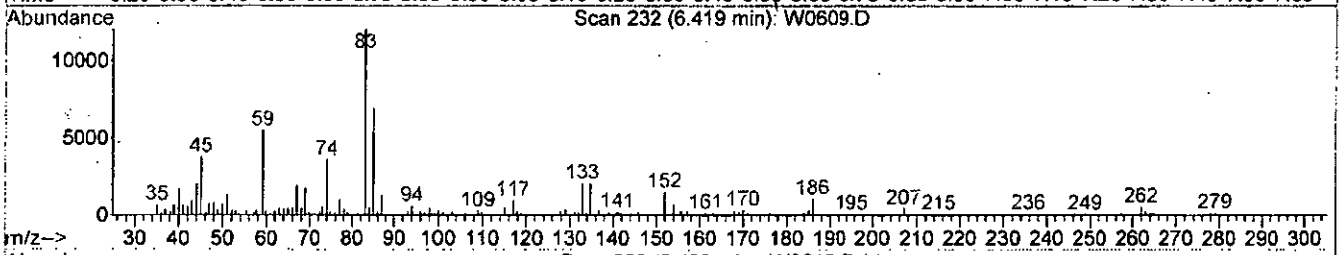
Quantitation Report (Qedit)

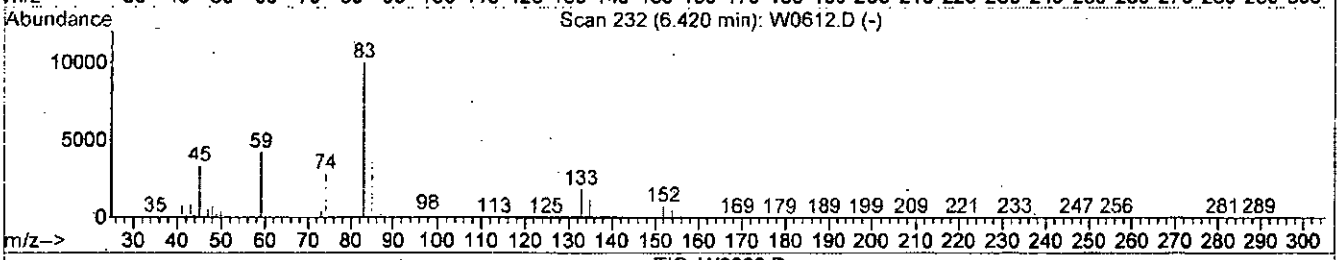
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:47 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



@ IPC KE 3/24/15 DL 3/24/15





TIC: W0609.D

(11) FREON 123

6.42min 2.21ppb m

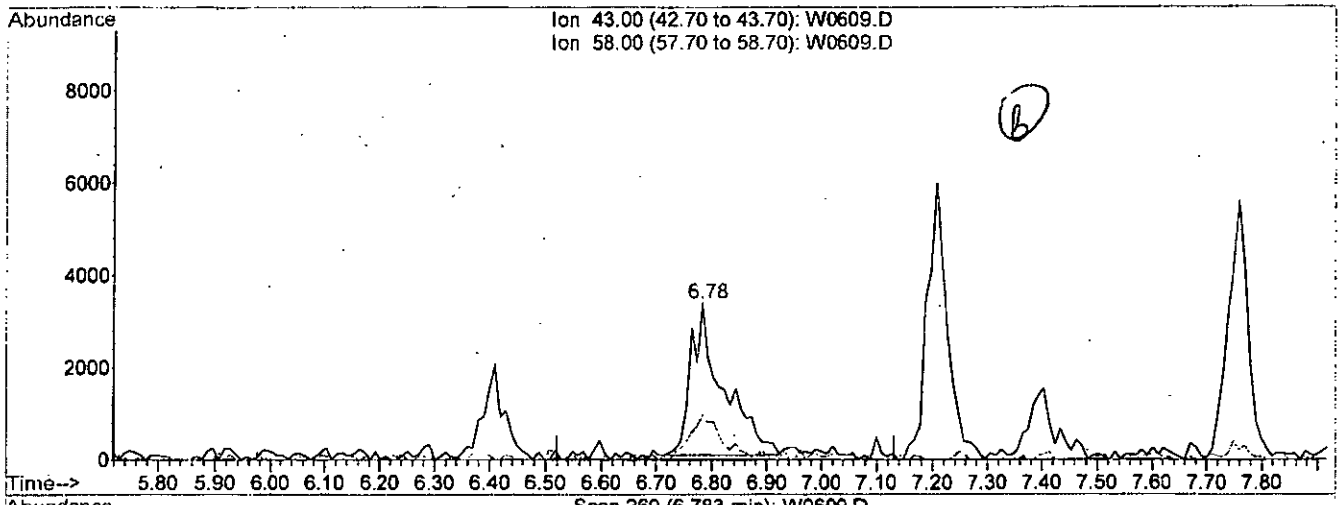
response 33400

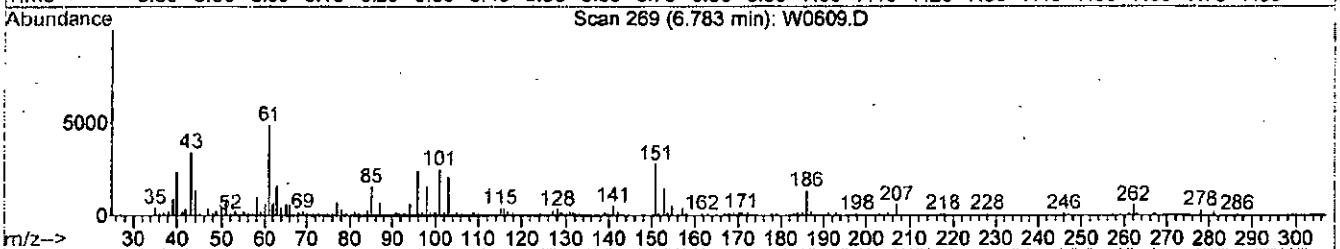
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	57.33
0.00	0.00	0.00
0.00	0.00	0.00

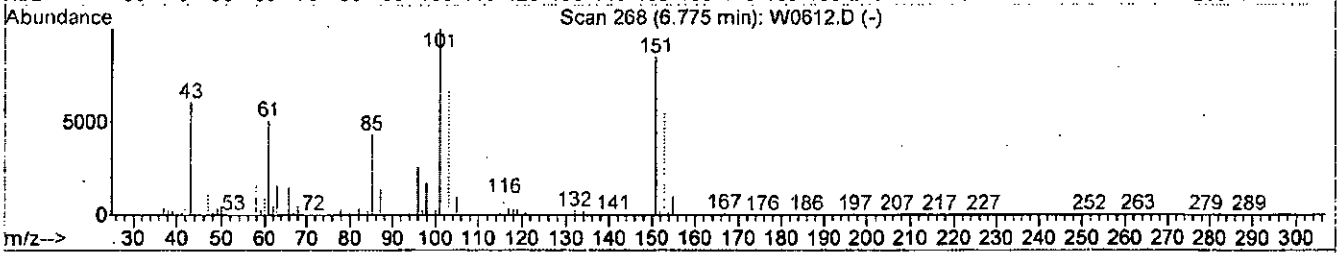
W0609.D W032315.M Tue Mar 24 10:47:56 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:47 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Single Level Calibration







TIC: W0609.D

(15) Acetone (P)

6.78min 3.30ppb

response 13425

Ion	Exp%	Act%
43.00	100	100
58.00	27.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

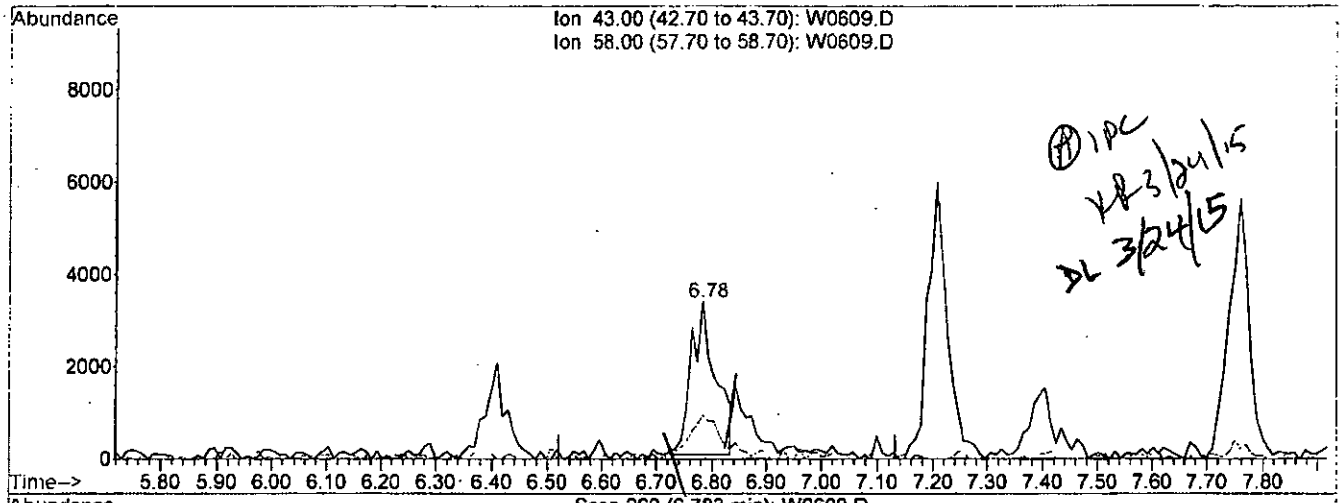
W0609.D W032315.M Tue Mar 24 10:48:06 2015

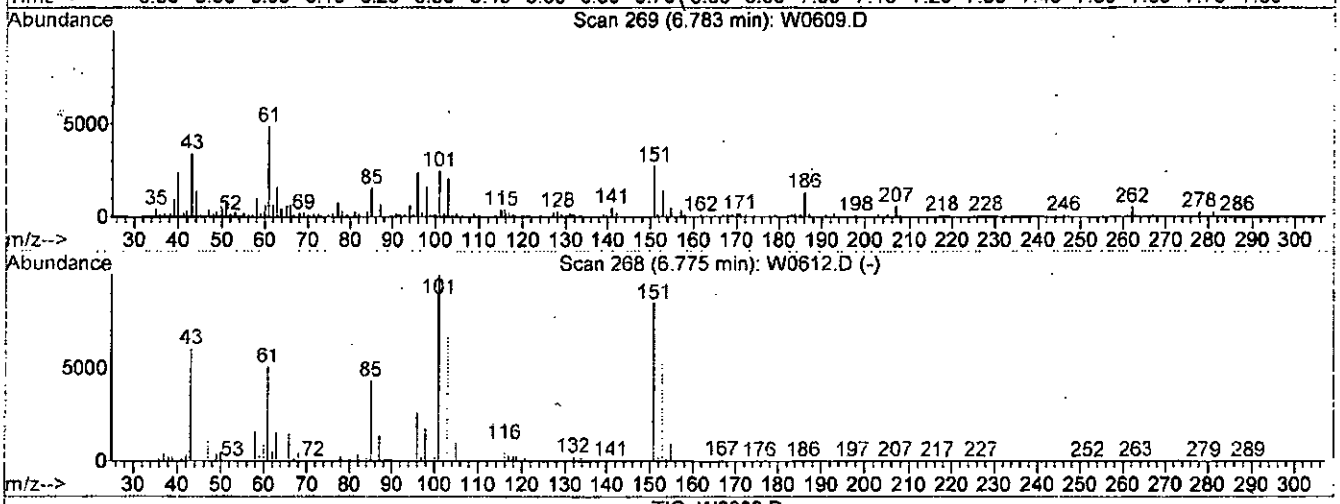
00391

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:48 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Single Level Calibration





TIC: W0609.D

(15) Acetone (P)

6.78min 2.51ppb m

response 10210

Ion	Exp%	Act%
43.00	100	100
58.00	27.20	28.17
0.00	0.00	0.00
0.00	0.00	0.00

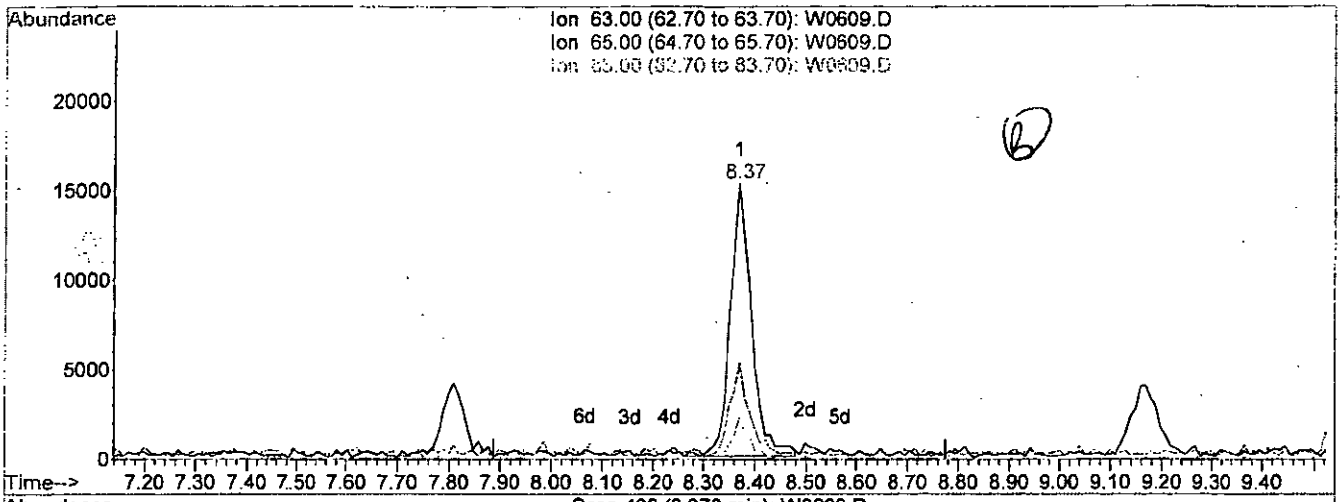
W0609.D W032315.M Tue Mar 24 10:48:16 2015

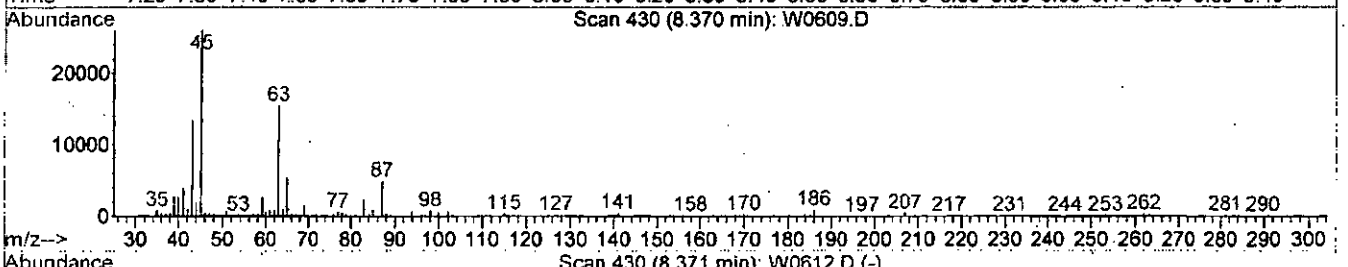
00392

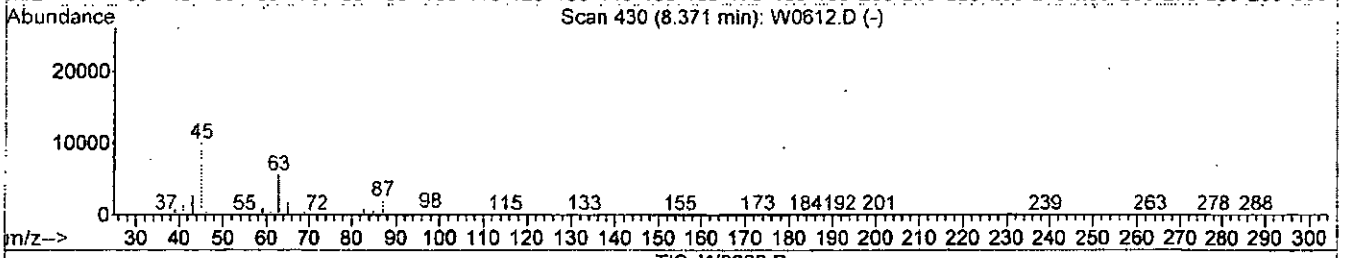
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:48 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration







TIC: W0609.D

(28) 1,1-Diclethane (P)

8.37min 2.13ppb

response 43875

Ion	Exp%	Act%
63.00	100	100
65.00	30.70	34.81
83.00	13.20	14.90
0.00	0.00	0.00

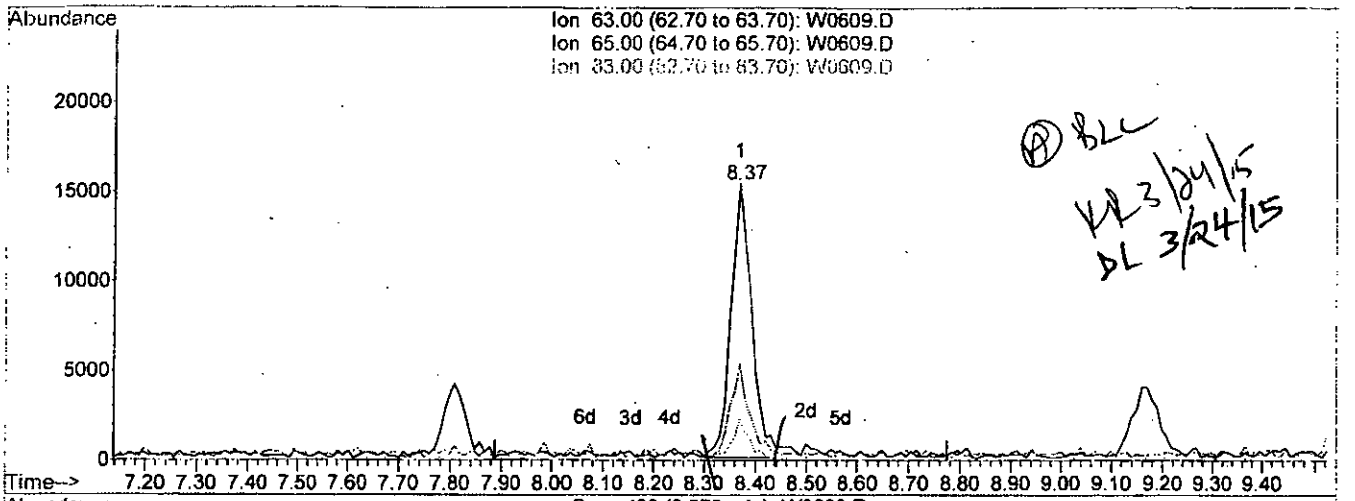
W0609.D W032315.M Tue Mar 24 10:48:41 2015

00393

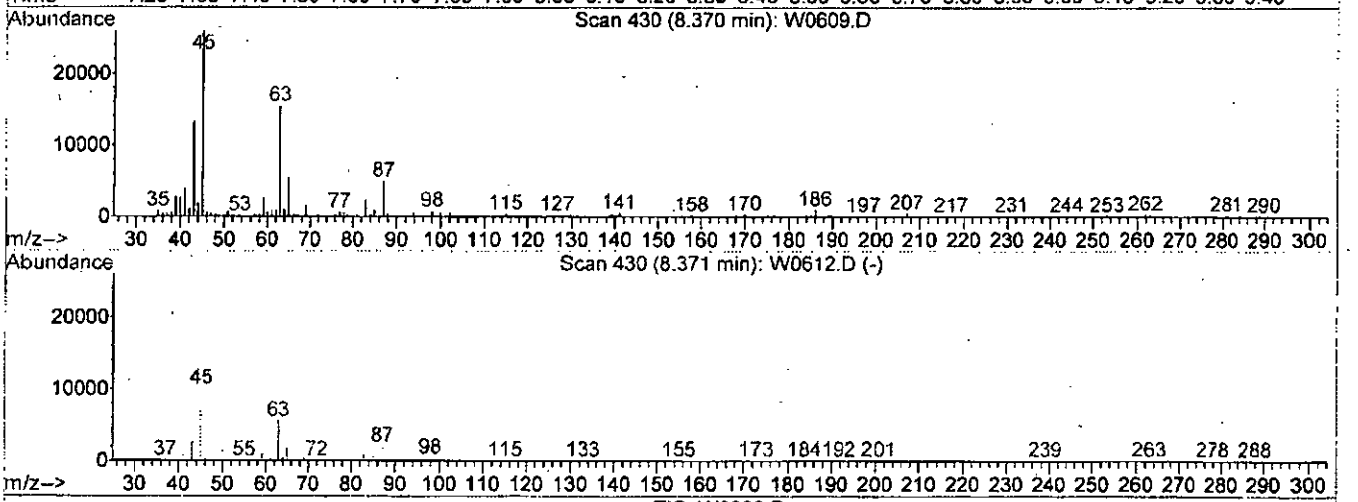
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:48 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



BLC
KL 3/24/15
DL 3/24/15



TIC: W0609.D

(28) 1,1-Diclethane (P)

8.37min 2.05ppb m

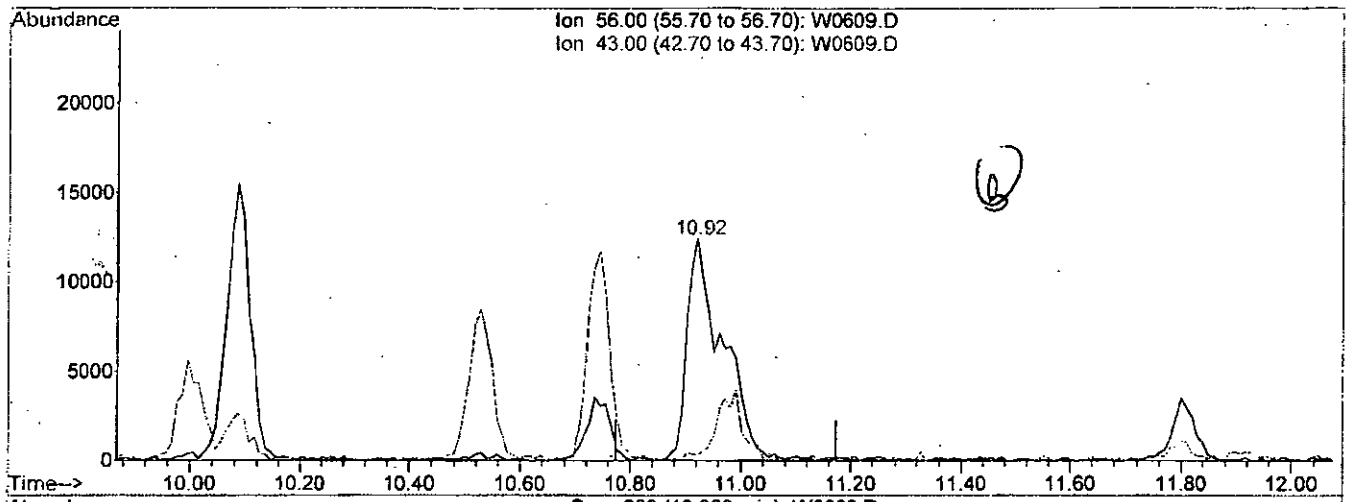
response 42254

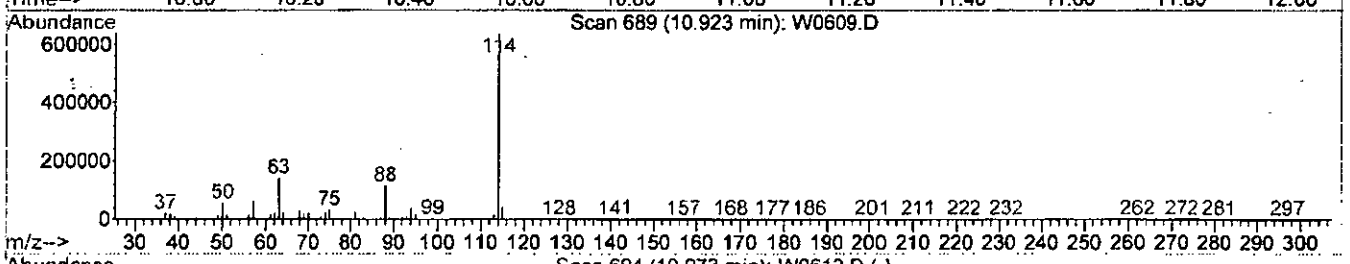
Ion	Exp%	Act%
63.00	100	100
65.00	30.70	34.81
83.00	13.20	14.90
0.00	0.00	0.00

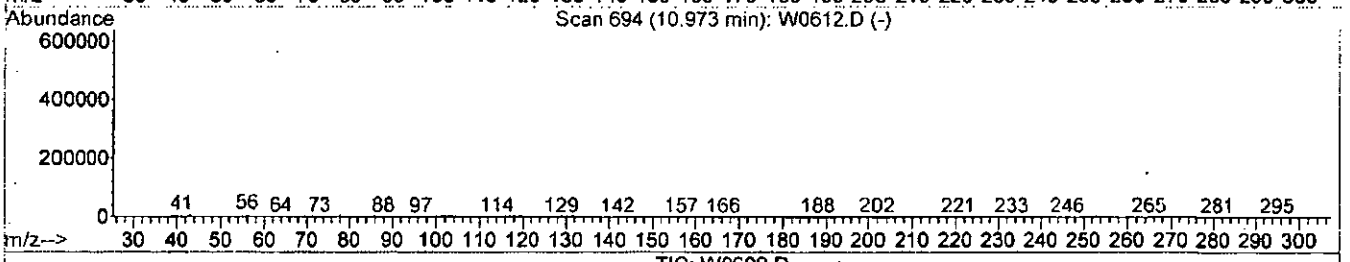
W0609.D W032315.M Tue Mar 24 10:48:52 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:48 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration







TIC: W0609.D

(53) 1-Butanol

10.92min 254.98ppb

response 55754

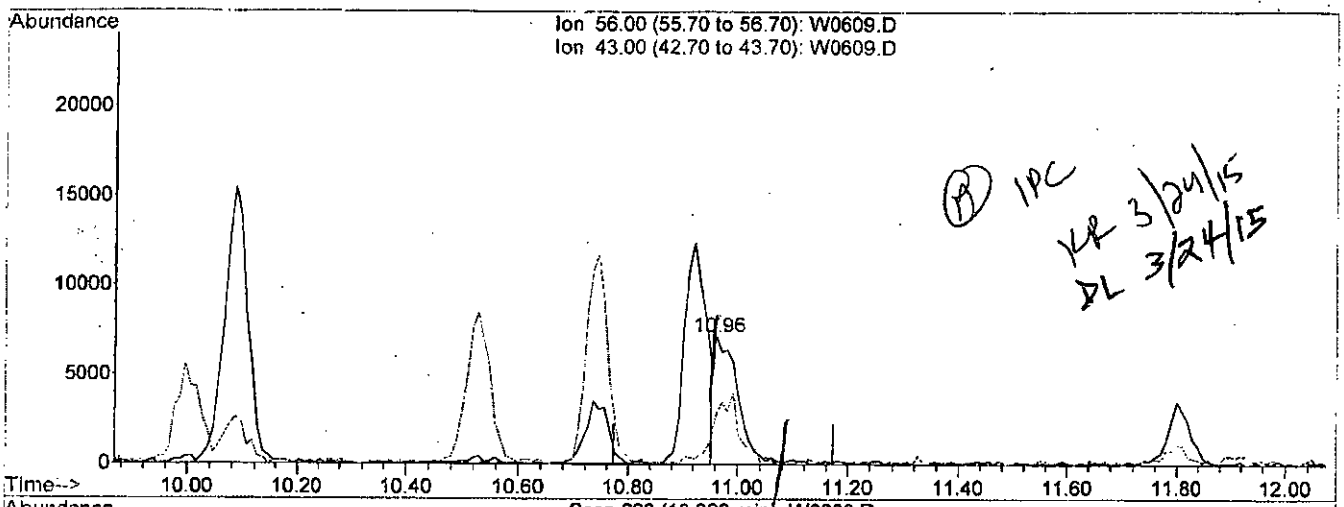
Ion	Exp%	Act%
56.00	100	100
43.00	55.30	1.23#
0.00	0.00	0.00
0.00	0.00	0.00

W0609.D W032315.M Tue Mar 24 10:49:41 2015

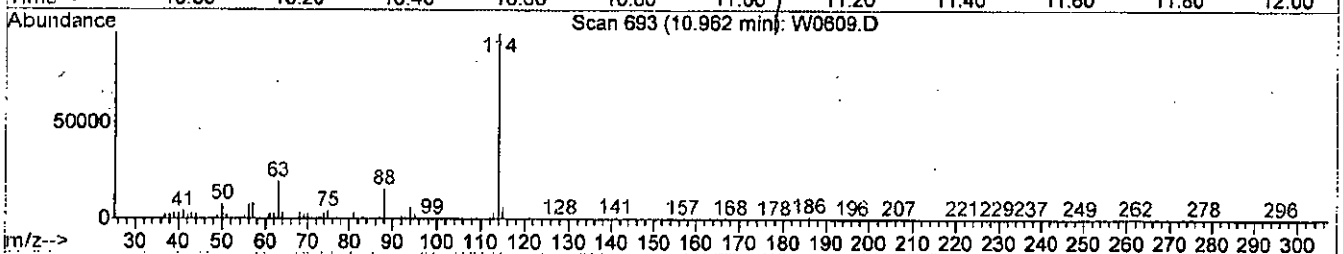
Quantitation Report (Qedit)

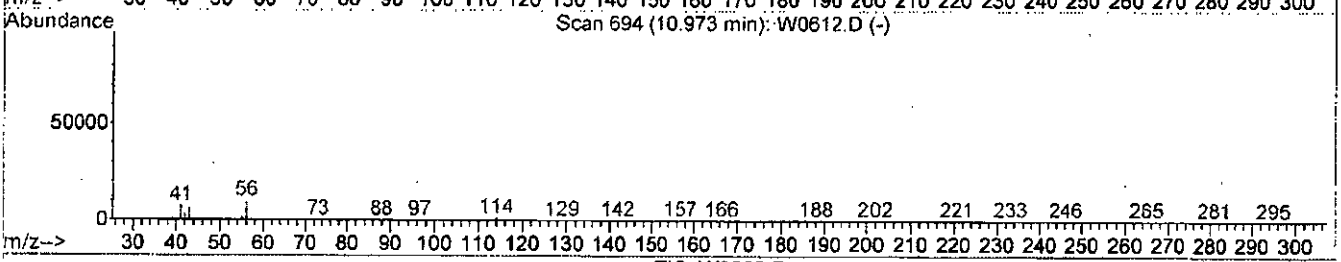
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:49 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



IPC KR 3/24/15 DL 3/24/15





TIC: W0609.D

(53) 1-Butanol

10.96min 94.07ppb m

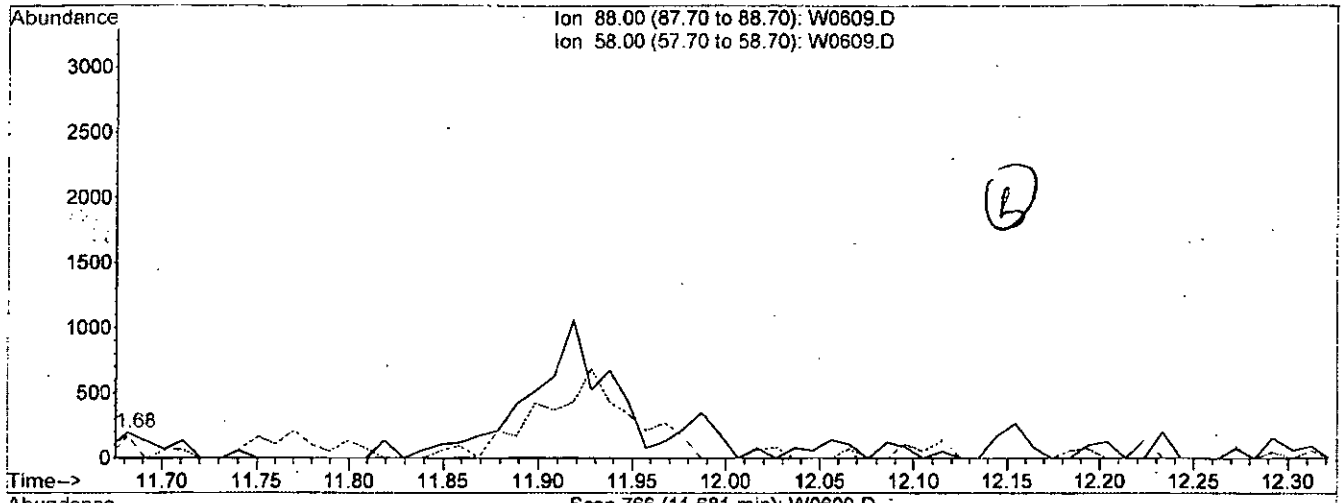
response 20569

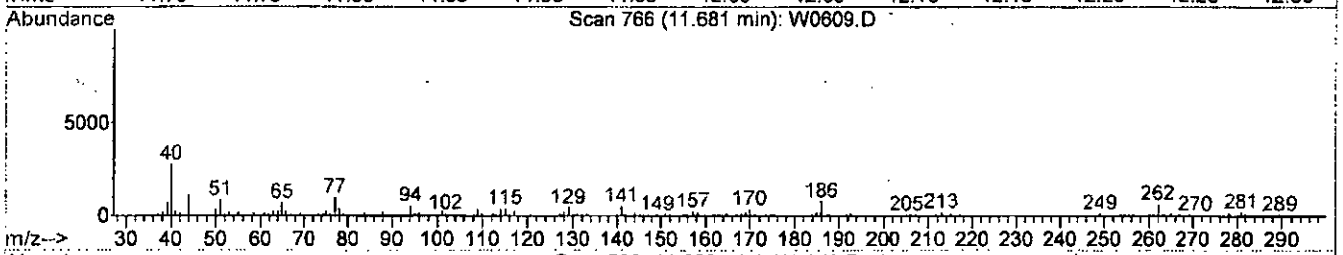
Ion	Exp%	Act%
56.00	100	100
43.00	55.30	3.33#
0.00	0.00	0.00
0.00	0.00	0.00

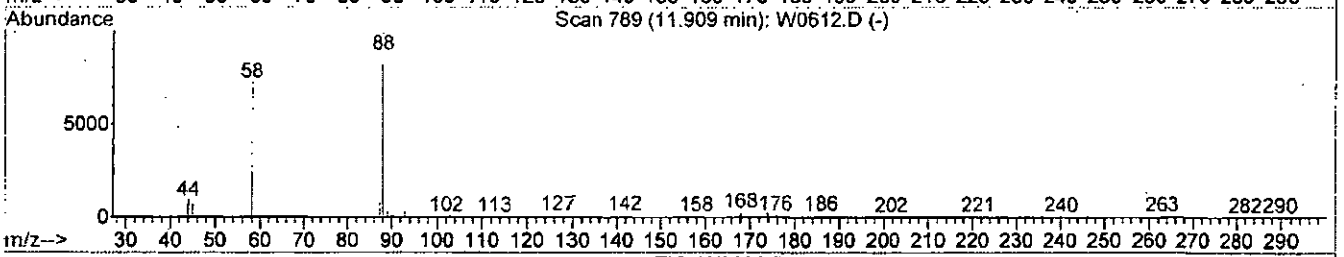
W0609.D W032315.M Tue Mar 24 10:49:55 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:49 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Single Level Calibration







TIC: W0609.D

(58) 1,4-Dioxane

11.68min 6.32ppb

response 494

Ion	Exp%	Act%
88.00	100	100
58.00	73.00	85.79
0.00	0.00	0.00
0.00	0.00	0.00

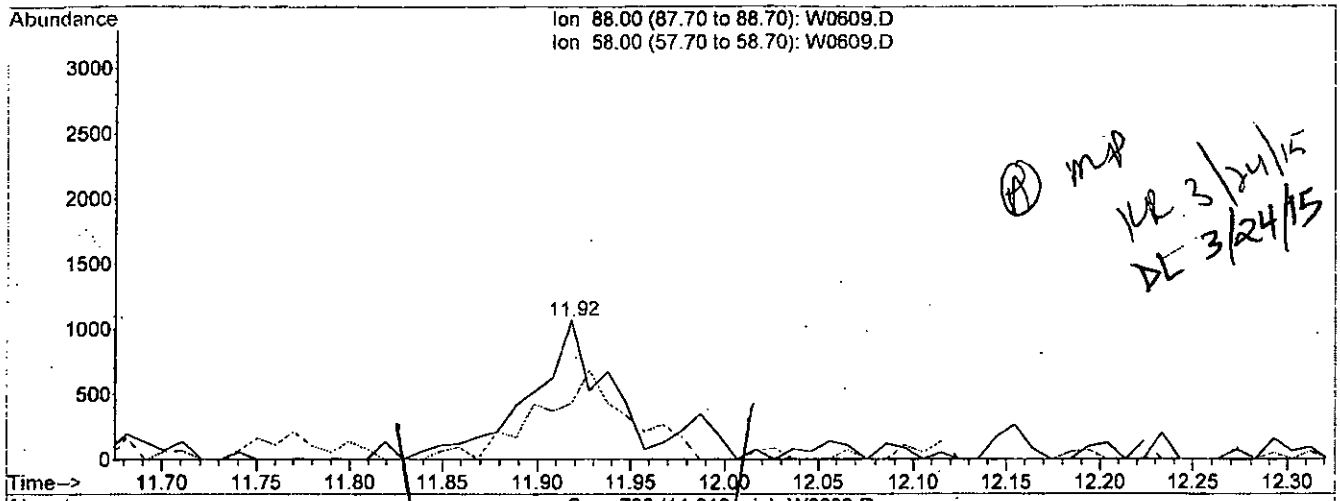
W0609.D W032315.M Tue Mar 24 10:50:16 2015

00397

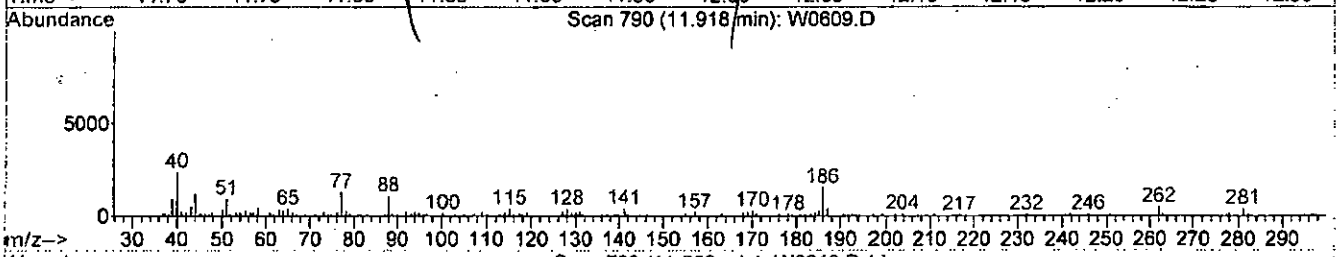
Quantitation Report (Qedit)

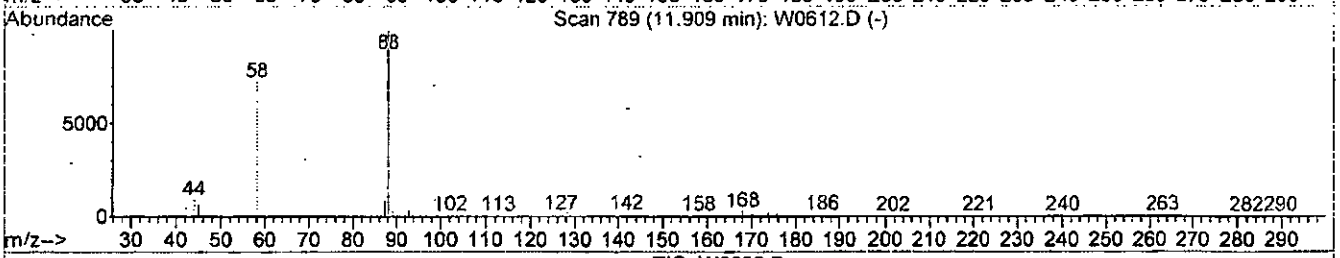
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:50 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Single Level Calibration



MP KL 3/24/15 DL 3/24/15





TIC: W0609.D

(58) 1,4-Dioxane

11.92min 44.47ppb m

response 3474

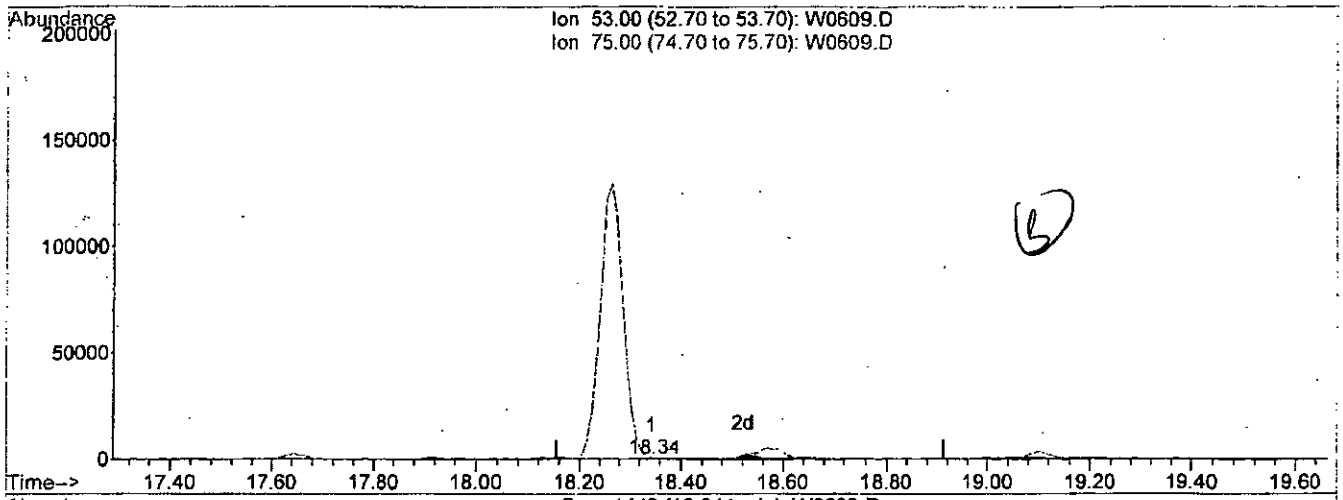
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	40.38#
0.00	0.00	0.00
0.00	0.00	0.00

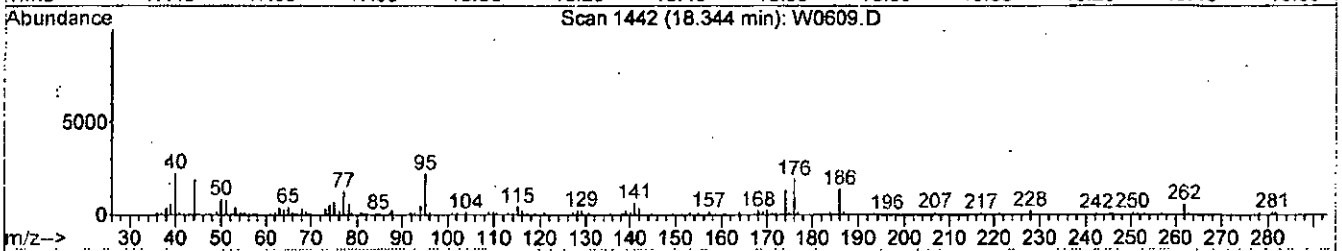
W0609.D W032315.M Tue Mar 24 10:50:24 2015

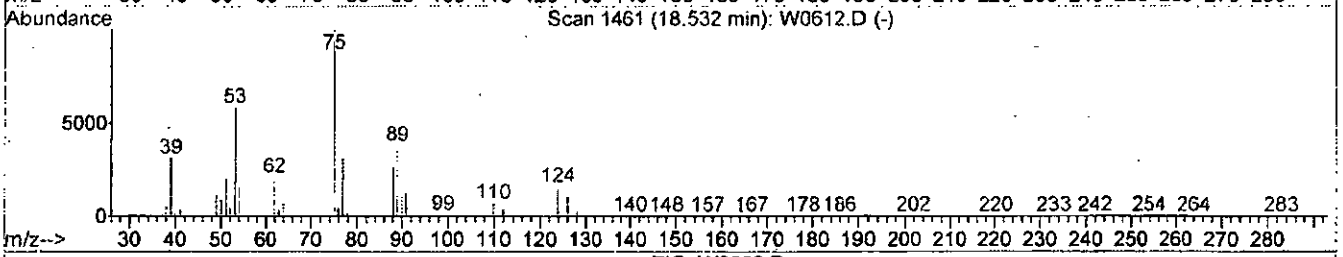
00398

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:50 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration







TIC: W0609.D

(92) Trans-1,4-Dichloro-2-butene

18.34min 0.45ppb

response 1158

Ion	Exp%	Act%
53.00	100	100
75.00	171.60	174.69
0.00	0.00	0.00
0.00	0.00	0.00

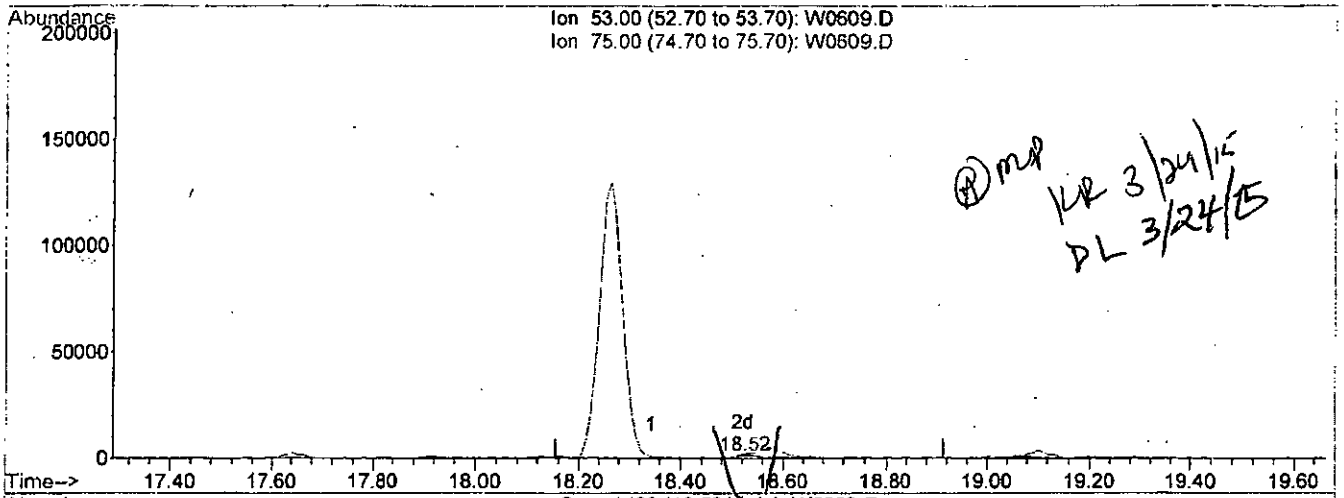
W0609.D W032315.M Tue Mar 24 10:51:00 2015

00399

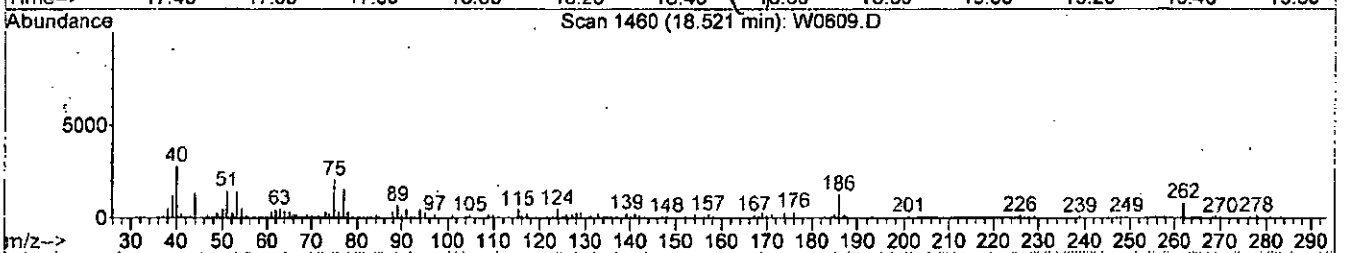
Quantitation Report (Qedit)

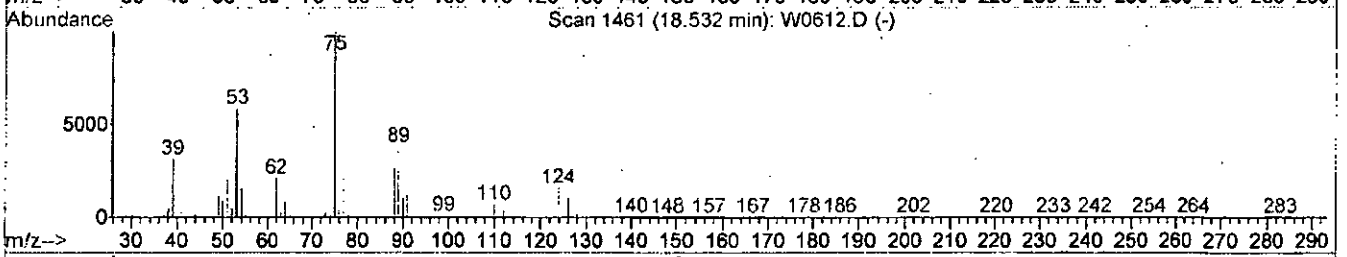
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



@mp KR 3/24/15 DL 3/24/15





TIC: W0609.D

(92) Trans-1,4-Dichloro-2-butene

18.52min 1.69ppb m

response 4320

Ion	Exp%	Act%
53.00	100	100
75.00	171.60	147.31#
0.00	0.00	0.00
0.00	0.00	0.00

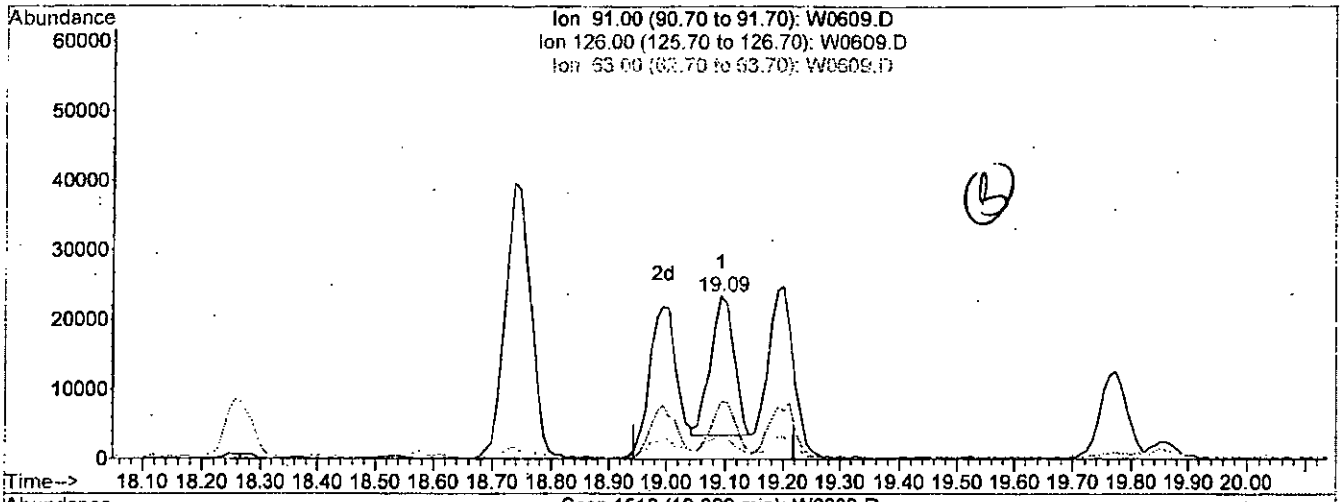
W0609.D W032315.M Tue Mar 24 10:51:07 2015

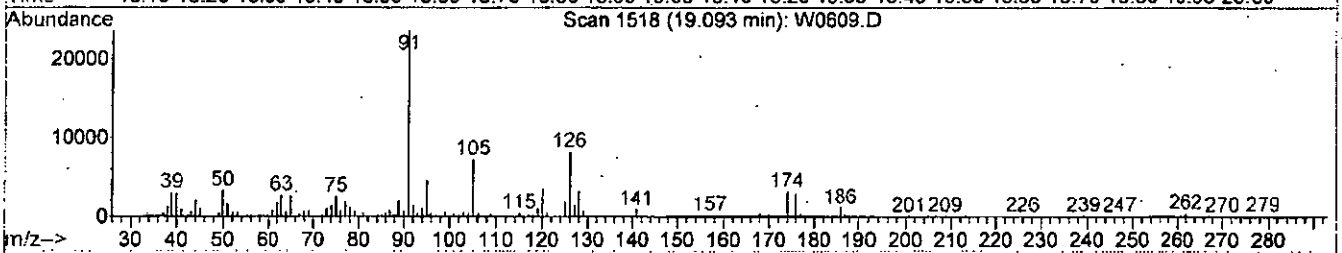
00400

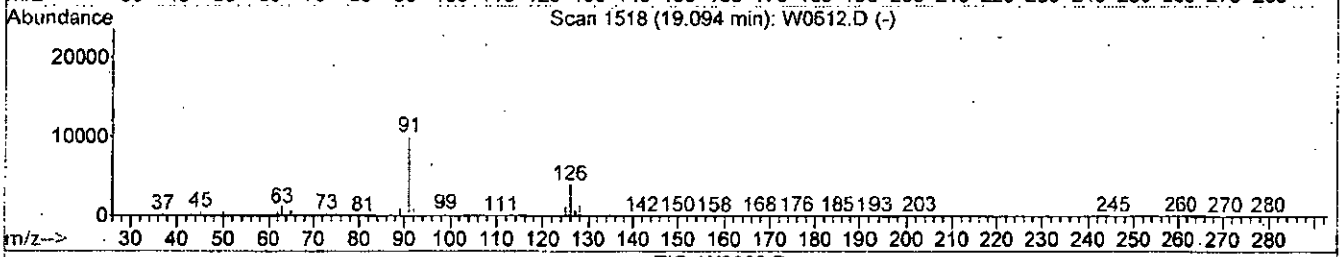
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration







TIC: W0609.D

(98) 3-Chlorotoluene

19.09min 1.56ppb

response 55525

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	36.42#
63.00	12.50	16.26#
0.00	0.00	0.00

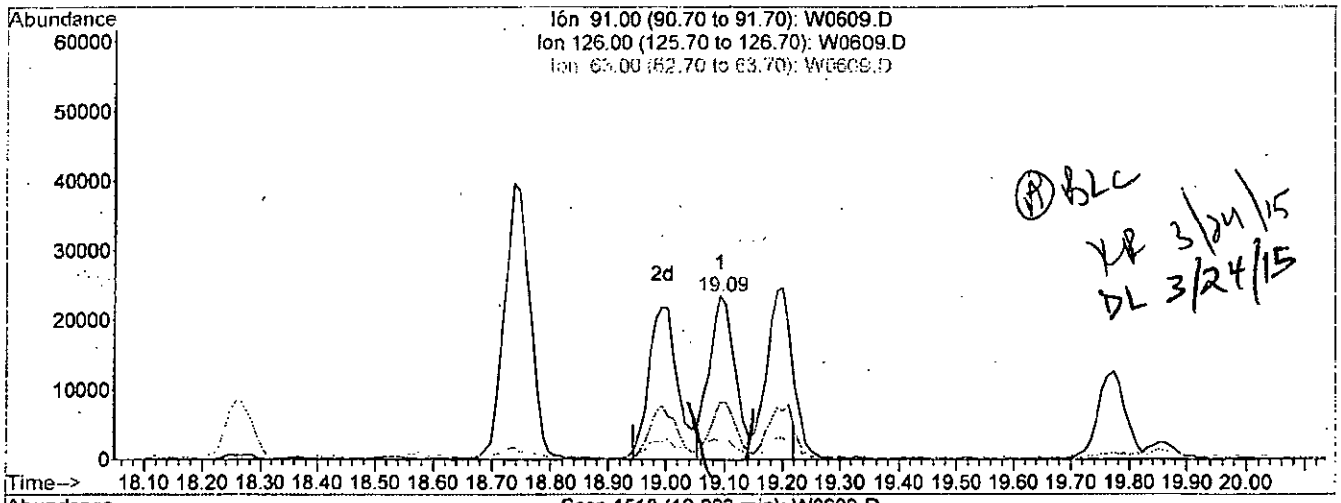
W0609.D W032315.M Tue Mar 24 10:51:17 2015

00401

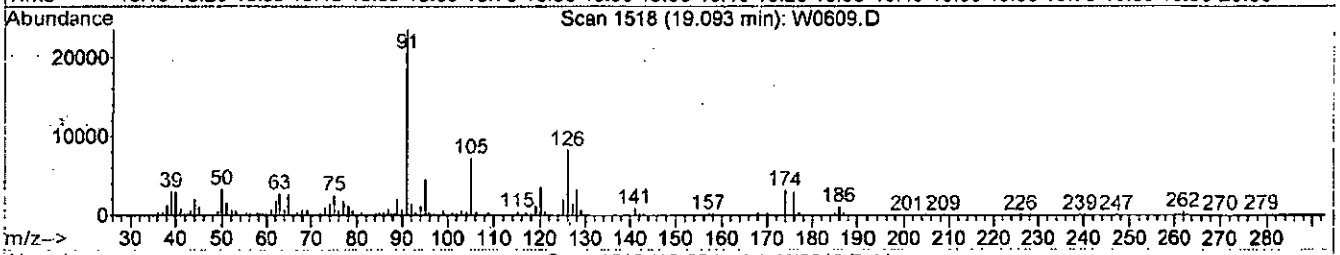
Quantitation Report (Qedit)

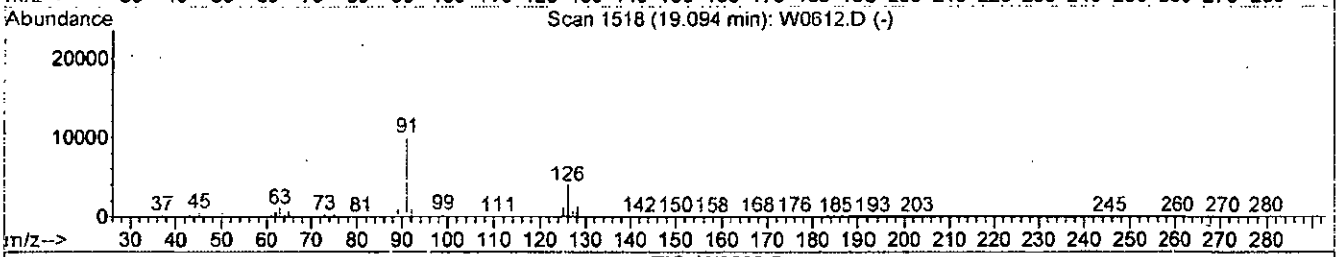
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



BLC 3/24/15
KR 3/24/15
DL 3/24/15





TIC: W0609.D

(98) 3-Chlorotoluene

19.09min 2.04ppb m

response 72677

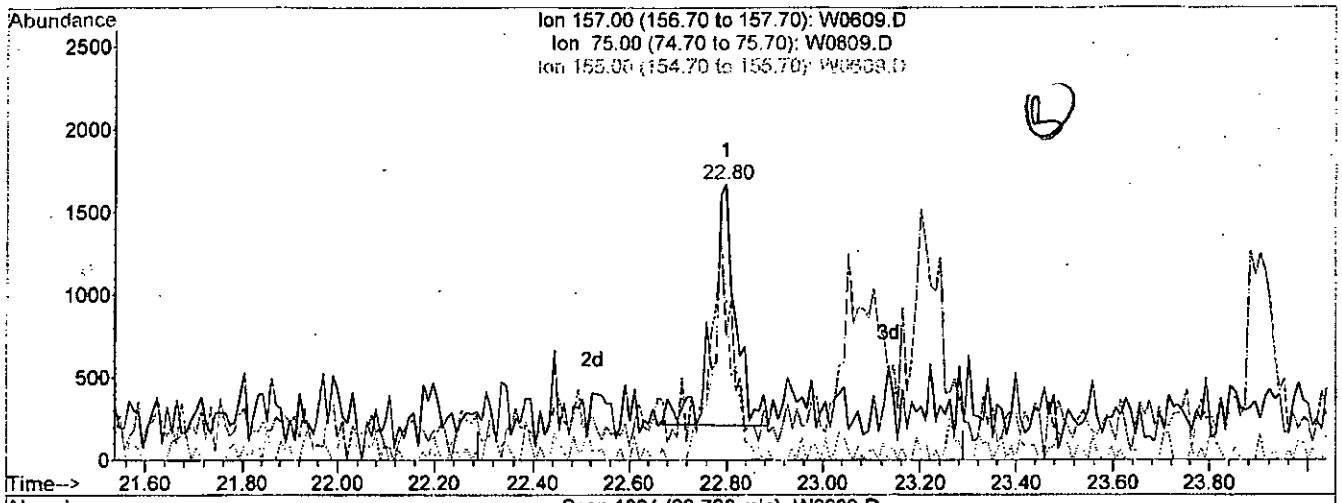
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	27.82
63.00	12.50	12.43
0.00	0.00	0.00

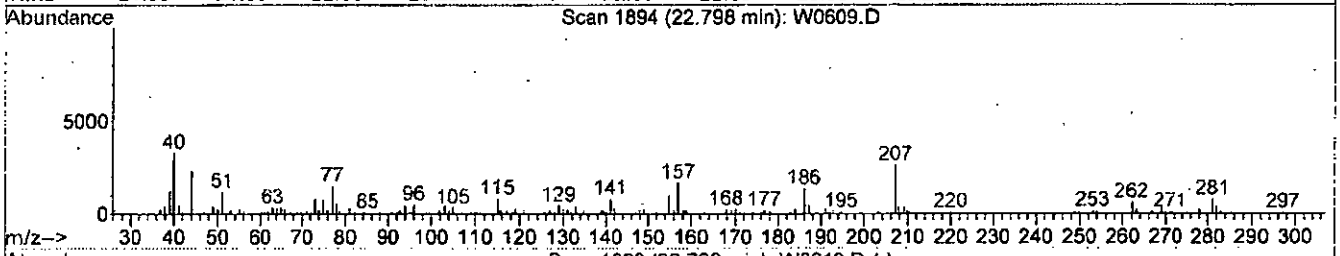
W0609.D W032315.M Tue Mar 24 10:51:24 2015

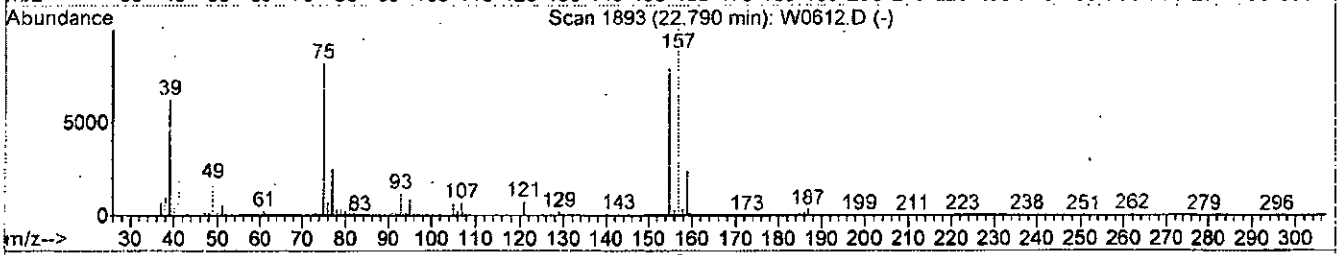
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration







TIC: W0609.D

(111) 1,2-Dibromo-3-chloropropane (P)

22.80min 2.00ppb

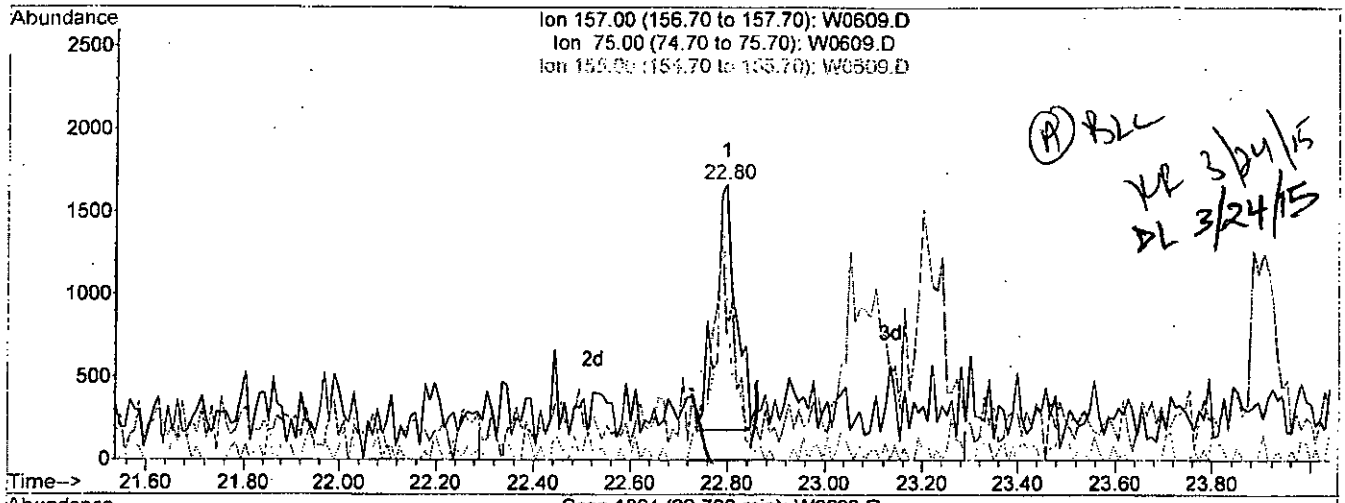
response 4559

Ion	Exp%	Act%
157.00	100	100
75.00	82.60	44.95#
155.00	79.20	59.59
0.00	0.00	0.00

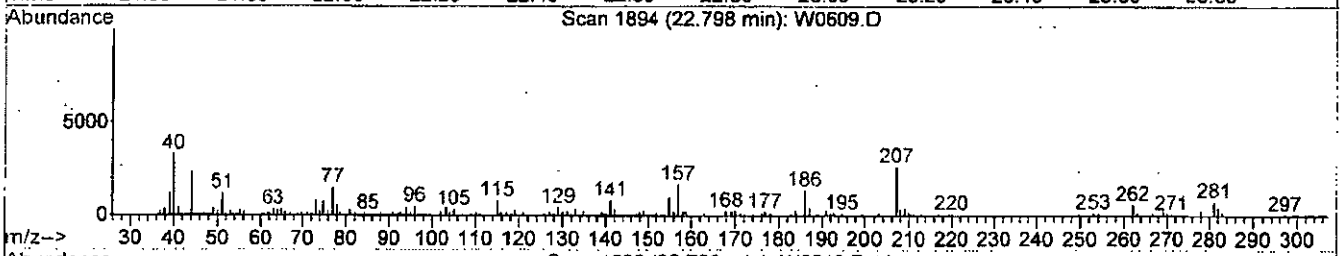
W0609.D W032315.M Tue Mar 24 10:51:40 2015

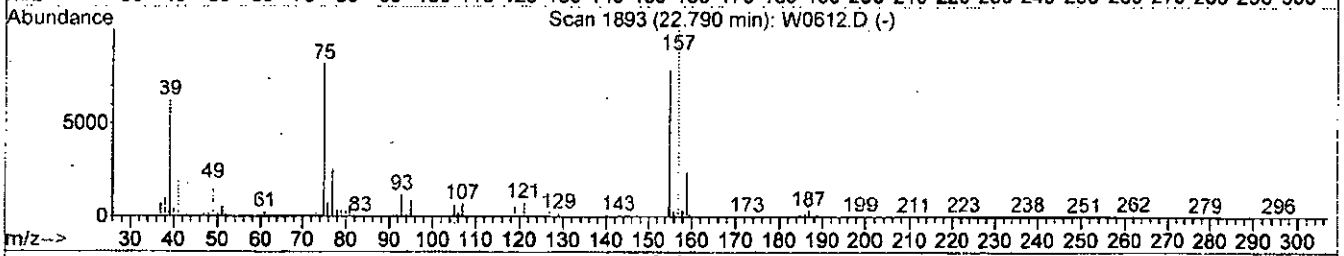
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Multiple Level Calibration



(A) BLC
KR 3/24/15
DL 3/24/15





TIC: W0609.D

(111) 1,2-Dibromo-3-chloropropane (P)

22.80min 1.81ppb m

response 4120

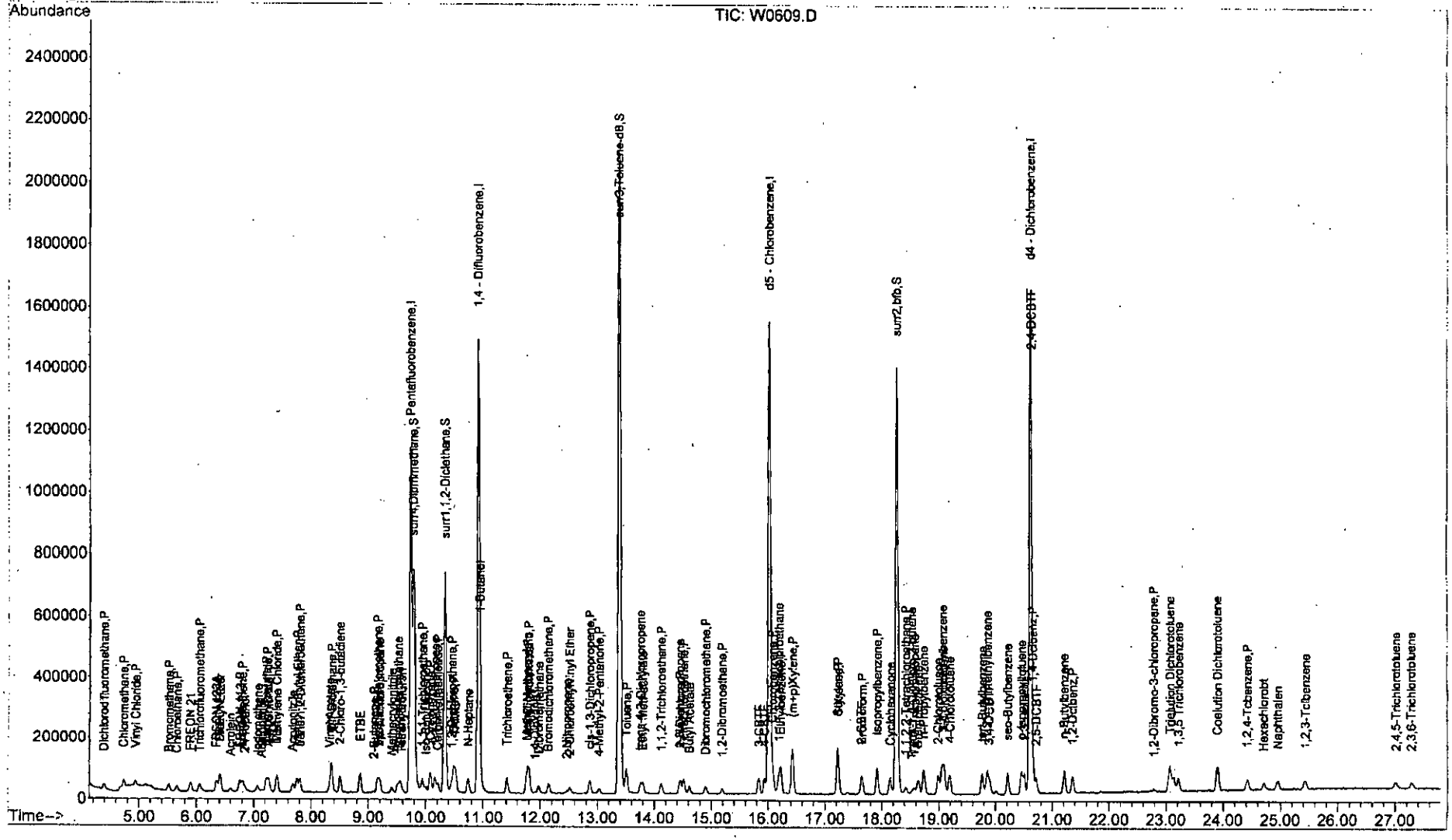
Ion	Exp%	Act%
157.00	100	100
75.00	82.60	44.95#
155.00	79.20	59.59
0.00	0.00	0.00

W0609.D W032315.M Tue Mar 24 10:51:50 2015

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0609.D Vial: 13
Acq On : 23 Mar 2015 5:35 pm Operator: K.Ruest
Sample : 2.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:51 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:36:58 2015
Response via : Initial Calibration



W0609.D W032315.M Tue Mar 24 10:52:14 2015 Page 4

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:57 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	1082297	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1763020	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.02	117	1652330	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.61	152	810713	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	809408	71.23	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	142.46%#			
48) surr1,1,2-Diclethane	10.34	65	836052	72.97	ppb		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery =	145.94%#			
70) surr3,Toluene-d8	13.39	98	2540366	70.81	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	141.62%#			
71) surr2,bfb	18.27	95	1115804	71.65	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	143.30%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.40	85	65441	4.78	ppb		95
3) Chloromethane	4.75	50	72279	4.87	ppb		95
4) Vinyl Chloride	4.94	62	69939	5.20	ppb		95
5) Bromomethane	5.51	96	47954	5.12	ppb		93
6) Chloroethane	5.66	64	48839	4.87	ppb		97
7) FREON 21	5.90	67	128331	5.21	ppb		97
8) Trichlorofluoromethane	6.06	101	83954	5.26	ppb		99
9) Diethyl Ether	6.40	59	51020	5.31	ppb		98
10) FREON 123A	6.35	67	79556	5.57	ppb		95
11) FREON 123	6.41	83	82860	5.49	ppb		99
12) Acrolein	6.59	56	44499	25.82	ppb		95
13) FREON 113	6.76	101	57764	5.27	ppb		96
14) 1,1-Diclethene	6.81	96	50285	5.19	ppb	#	86
15) Acetone	6.79	43	25940m	6.40	ppb		
16) 2-Propanol	6.85	45	57078	105.47	ppb		94
17) Iodomethane	7.07	142	90956	5.08	ppb		93
18) Carbon Disulfide	7.23	76	234504	5.25	ppb		99
19) Acetonitrile	7.14	41	31117	30.15	ppb	#	74
20) Allyl Chloride	7.26	41	114942	5.41	ppb		95
21) Methyl Acetate	7.21	43	41259	5.34	ppb		99
22) Methylene Chloride	7.42	84	65575	5.28	ppb		96
23) TBA	7.40	59	82415	101.74	ppb		97
24) Acrylonitrile	7.68	53	89647	25.96	ppb		95
25) Methyl-t-Butyl Ether	7.76	73	158565	5.38	ppb		97
26) trans-1,2-Dichloroethene	7.81	96	62547	5.43	ppb		94
28) 1,1-Diclethane	8.37	63	107417	5.23	ppb		97
29) Vinyl Acetate	8.32	86	8231	5.07	ppb	#	92
30) DIPE	8.36	45	263608	5.52	ppb		97
31) 2-Chloro-1,3-butadiene	8.51	53	117792	5.21	ppb		99
32) ETBE	8.85	59	218203	5.49	ppb		97
33) 2,2-Dichloropropane	9.20	77	81516	4.84	ppb		96
34) 2-Butanone	9.09	43	26486	5.02	ppb		87
35) cis-1,2-Dichloroethene	9.16	96	64711	5.31	ppb		95
36) Propionitrile	9.18	54	32169	26.45	ppb		85
37) Methacrylonitrile	9.42	67	21013	5.24	ppb		91

(#) = qualifier out of range (m) = manual integration
W0610.D W032315.M Tue Mar 24 10:58:14 2015

KR 3/24/15

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:57 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.51	128	31458	4.95	ppb		91
39)	Chloroform	9.56	83	107509	5.35	ppb		99
40)	Tetrahydrofuran	9.59	42	14291	5.04	ppb		88
41)	1,1,1-Trichloroethane	9.95	97	82231	5.10	ppb		94
43)	Cyclohexane	10.09	56	117532	5.50	ppb		94
45)	Carbontetrachloride	10.21	117	71957	5.17	ppb		96
46)	1,1-Dichloropropene	10.17	75	88082	5.54	ppb		95
47)	Iso-Butyl Alcohol	10.00	43	42890	105.36	ppb		98
49)	Benzene	10.49	78	244531	5.34	ppb		94
50)	1,2-Dichloroethane	10.45	62	79601	5.44	ppb		96
51)	TAME	10.53	73	170393	5.46	ppb		97
52)	N-Heptane	10.75	43	81831	5.01	ppb		98
53)	1-Butanol	10.98	56	51548	238.18	ppb		86
54)	Trichloroethene	11.42	95	63201	5.42	ppb		96
55)	Methylcyclohexane	11.80	55	92856	5.50	ppb		90
56)	1,2-Diclpropane	11.77	63	67914	5.33	ppb		95
57)	Methyl Methacrylate	11.76	100	12400	4.75	ppb		88
58)	1,4-Dioxane	11.93	88	7817	101.10	ppb		82
59)	Dibromomethane	11.97	93	35543	5.45	ppb		97
60)	Bromodichloromethane	12.15	83	80301	5.22	ppb		96
61)	2-Nitropropane	12.45	43	21847	9.13	ppb		83
62)	2-Chloroethylvinyl Ether	12.52	63	32886	4.84	ppb		86
63)	cis-1,3-Dichloropropene	12.88	75	96698	5.12	ppb		95
65)	4-Methyl-2-Pentanone	13.04	43	50964	5.06	ppb		97
66)	Toluene	13.51	91	247015	5.54	ppb		95
67)	trans-1,3-Dichloropropene	13.76	75	81015	5.07	ppb		97
68)	Ethyl Methacrylate	13.80	69	67889	5.26	ppb		96
69)	1,1,2-Trichloroethane	14.13	83	46097	5.56	ppb		94
72)	Tetrachloroethene	14.52	166	66388	5.41	ppb		97
73)	2-Hexanone	14.46	43	32920	4.90	ppb		93
74)	1,3-Dichloropropane	14.45	76	90209	5.18	ppb		96
75)	Butyl Acetate	14.62	43	88349	5.29	ppb		95
76)	Dibromochloromethane	14.91	129	60888	5.12	ppb		95
77)	1,2-Dibromoethane	15.19	107	47721	5.12	ppb		98
78)	Chlorobenzene	16.08	112	162313	5.51	ppb		98
79)	3-CBTF	15.84	180	87391	5.26	ppb		97
80)	4-CBTF	15.94	180	79371	5.28	ppb		97
81)	1,1,1,2-Tetrachloroethane	16.19	131	59045	5.36	ppb		94
82)	Ethylbenzene	16.22	91	272558	5.47	ppb		97
83)	(m+p)Xylene	16.43	106	200752	10.87	ppb		90
84)	o-Xylene	17.22	106	100280	5.48	ppb		92
85)	Styrene	17.23	104	178261	5.61	ppb		100
86)	Bromoform	17.67	173	31023	4.87	ppb		93
87)	2-CBTF	17.65	180	81604	5.15	ppb		97
88)	Isopropylbenzene	17.92	105	239799	5.20	ppb		97
89)	Cyclohexanone	18.15	55	121810	111.39	ppb		100
91)	1,1,2,2-Tetrachloroethane	18.42	83	52455	4.95	ppb		91
92)	Trans-1,4-Dichloro-2-buten	18.52	53	10421	4.06	ppb	#	83
93)	1,2,3-Trichloropropane	18.57	110	17036	5.13	ppb		96
94)	n-Propylbenzene	18.74	91	299470	5.32	ppb		99

(#) = qualifier out of range (m) = manual integration
W0610.D W032315.M Tue Mar 24 10:58:15 2015 Page 2

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:57 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

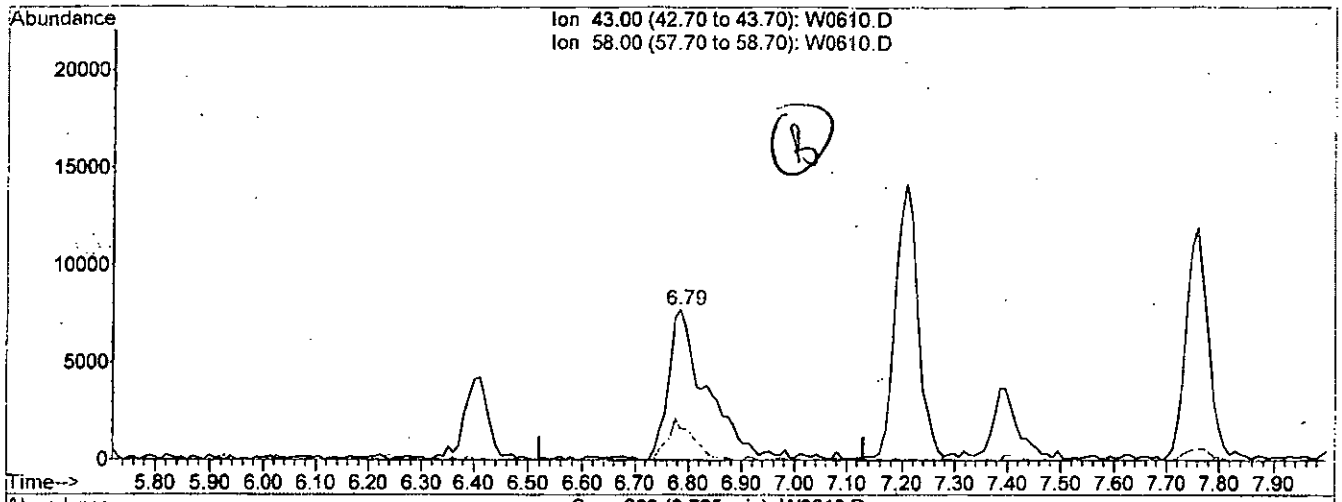
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Bromobenzene	18.64	156	67082	5.45 ppb	97
96)	1,3,5-Trimethylbenzene	19.06	105	194850	5.32 ppb	99
97)	2-Chlorotoluene	19.00	91	187896	5.26 ppb	95
98)	3-Chlorotoluene	19.09	91	190963m	5.33 ppb	
99)	4-Chlorotoluene	19.19	91	192635	5.33 ppb	99
100)	tert-Butylbenzene	19.77	119	166454	5.14 ppb	95
101)	1,2,4-Trimethylbenzene	19.85	105	197237	5.29 ppb	93
102)	3,4-DCBTF	19.90	214	61206	5.26 ppb	96
103)	sec-Butylbenzene	20.22	105	241564	5.29 ppb	100
104)	p-Isopropyltoluene	20.46	119	201528	5.33 ppb	97
105)	1,3-Dclbenz	20.51	146	121742	5.36 ppb	97
106)	1,4-Dclbenz	20.66	146	119145	5.23 ppb	97
107)	2,4-DCBTF	20.64	214	50632	5.11 ppb	99
108)	2,5-DCBTF	20.72	214	59404	5.15 ppb	93
109)	n-Butylbenzene	21.21	91	184496	5.19 ppb	97
110)	1,2-Dclbenz	21.36	146	112435	5.21 ppb	99
111)	1,2-Dibromo-3-chloropropan	22.79	157	10918	4.77 ppb	84
112)	Trielution Dichlorotoluene	23.08	125	267368	15.13 ppb	99
114)	1,3,5 Trichlorobenzene	23.22	180	75135	5.13 ppb	99
115)	Coelution Dichlorotoluene	23.90	125	183981	10.06 ppb	99
116)	1,2,4-Tcbenzene	24.42	180	65372	5.06 ppb	84
117)	Hexachlorobt	24.72	225	24810	4.75 ppb	96
118)	Naphthalen	24.95	128	137509	4.97 ppb	100
119)	1,2,3-Tclbenzene	25.43	180	52871	4.86 ppb	95
120)	2,4,5-Trichlorotoluene	27.01	159	32853	4.63 ppb	94
121)	2,3,6-Trichlorotoluene	27.29	159	29183	4.89 ppb	96

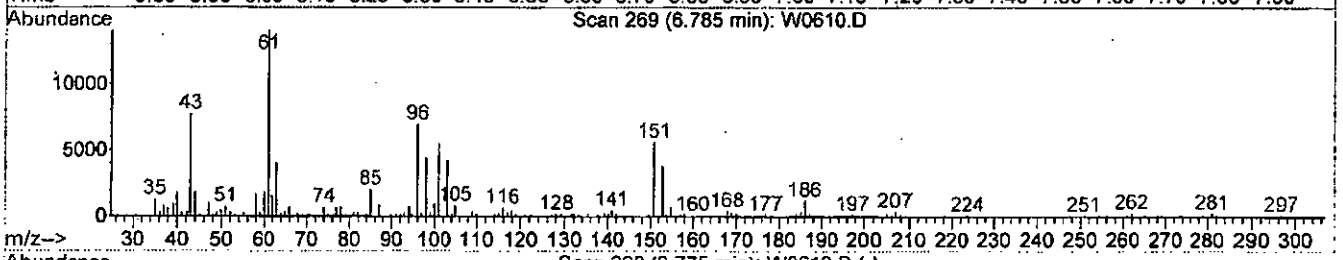
(#) = qualifier out of range (m) = manual integration
W0610.D W032315.M Tue Mar 24 10:58:15 2015

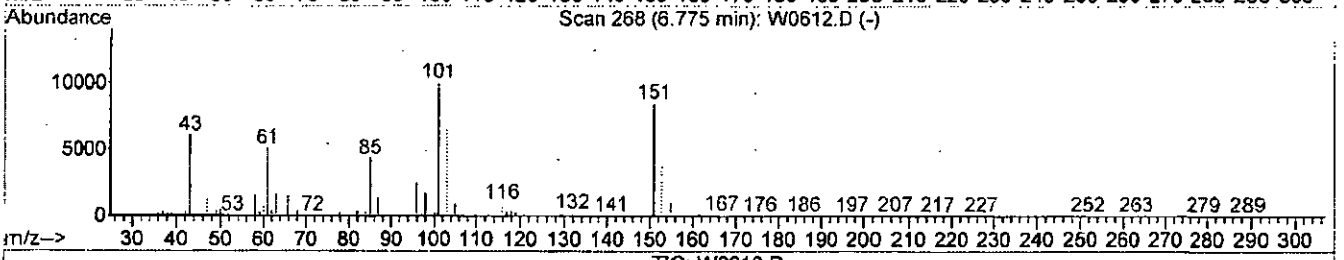
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:06 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:52:22 2015
Response via : Single Level Calibration







TIC: W0610.D

(15) Acetone (P)

6.79min 9.67ppb

response 39154

Ion	Exp%	Act%
43.00	100	100
58.00	27.20	21.19
0.00	0.00	0.00
0.00	0.00	0.00

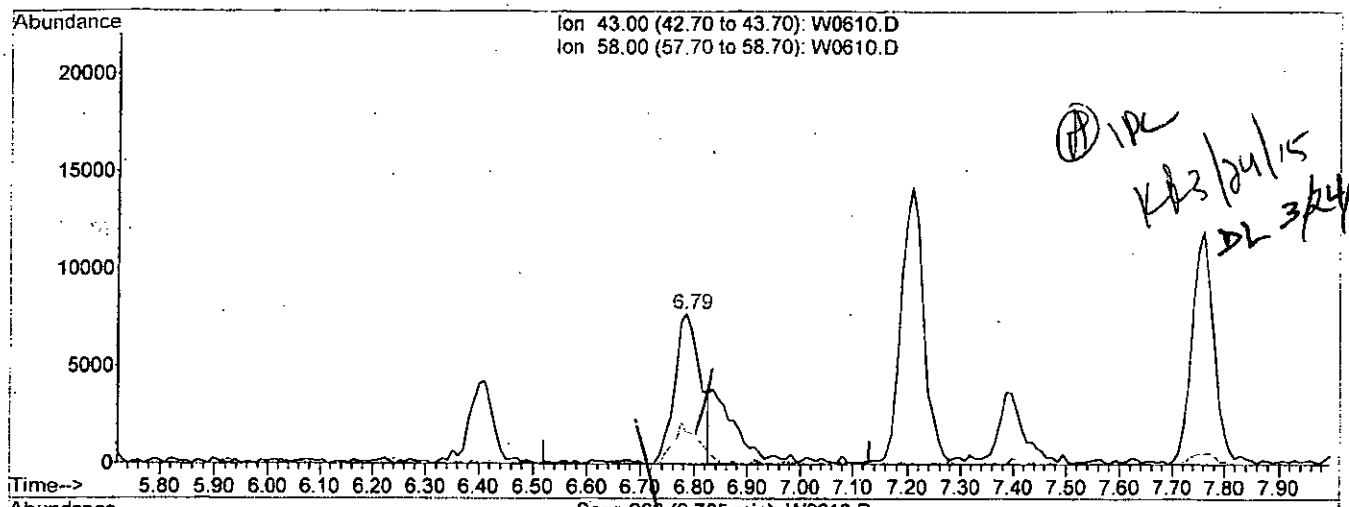
W0610.D W032315.M Tue Mar 24 10:55:47 2015

00409

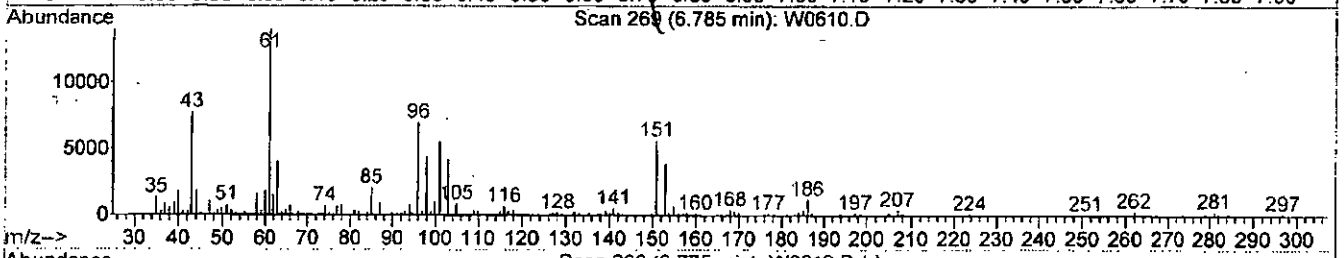
Quantitation Report (Qedit)

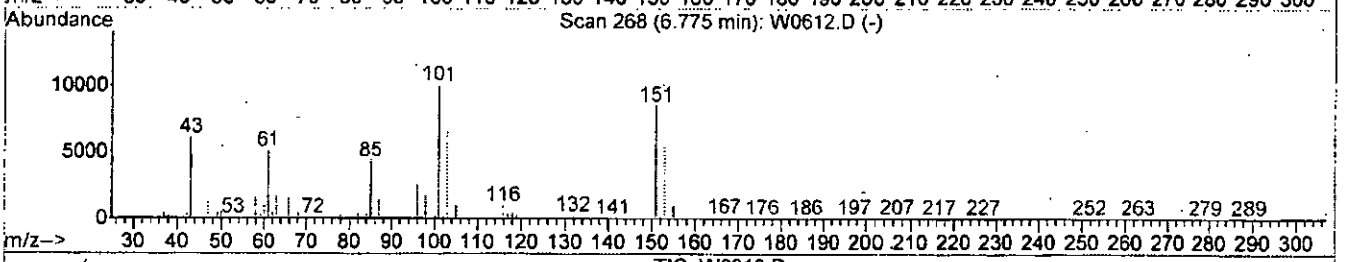
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:55 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:52:22 2015
Response via : Single Level Calibration



IPC KB 3/24/15 DL 3/24/15





TIC: W0610.D

(15) Acetone (P)

6.79min 6.40ppb m

response 25940

Ion	Exp%	Act%
43.00	100	100
58.00	27.20	21.19
0.00	0.00	0.00
0.00	0.00	0.00

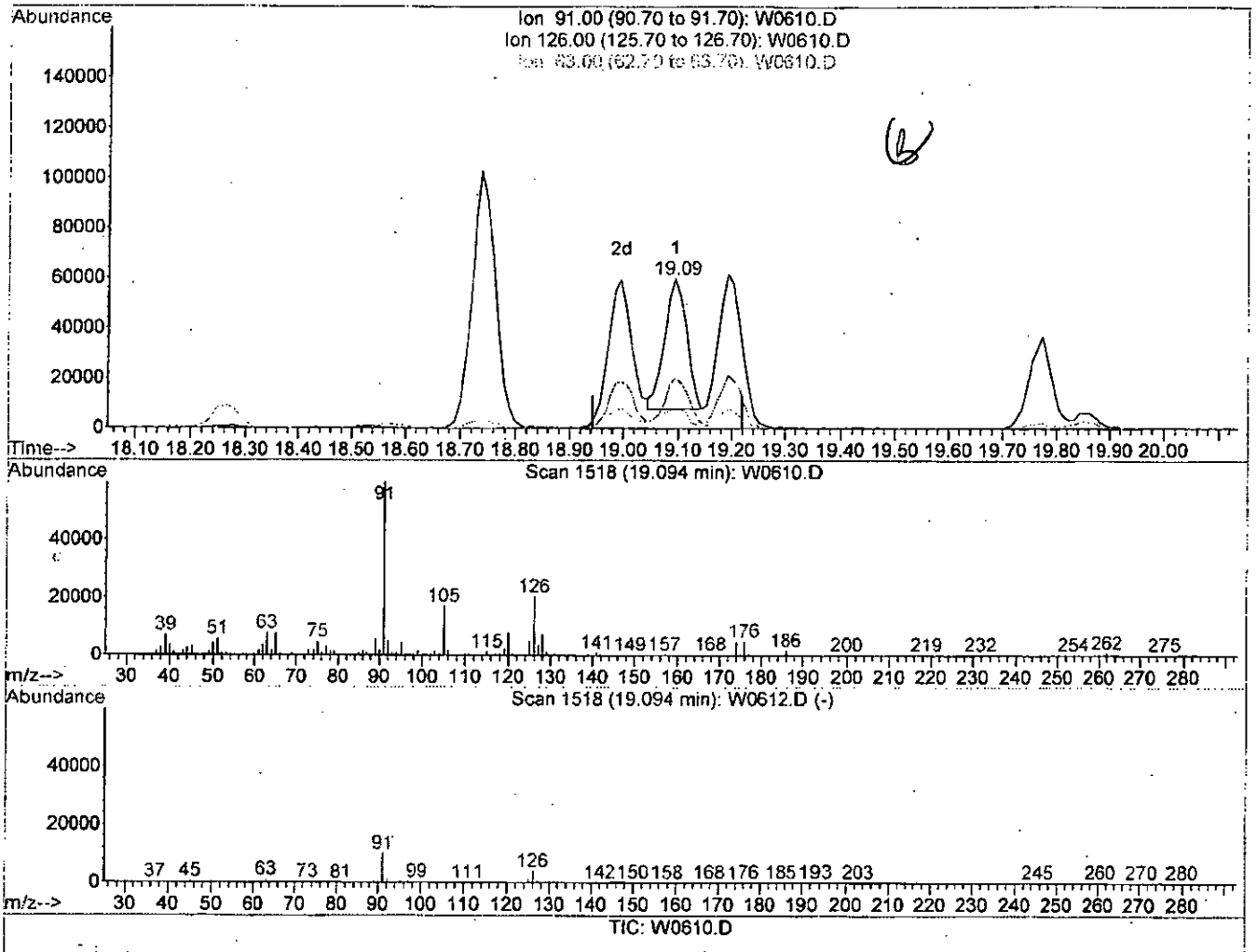
W0610.D W032315.M Tue Mar 24 10:56:13 2015

00410

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:55 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:52:22 2015
Response via : Multiple Level Calibration



TIC: W0610.D

(98) 3-Chlorotoluene

19.09min 4.05ppb

response 145043

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	34.60#
63.00	12.50	15.55#
0.00	0.00	0.00

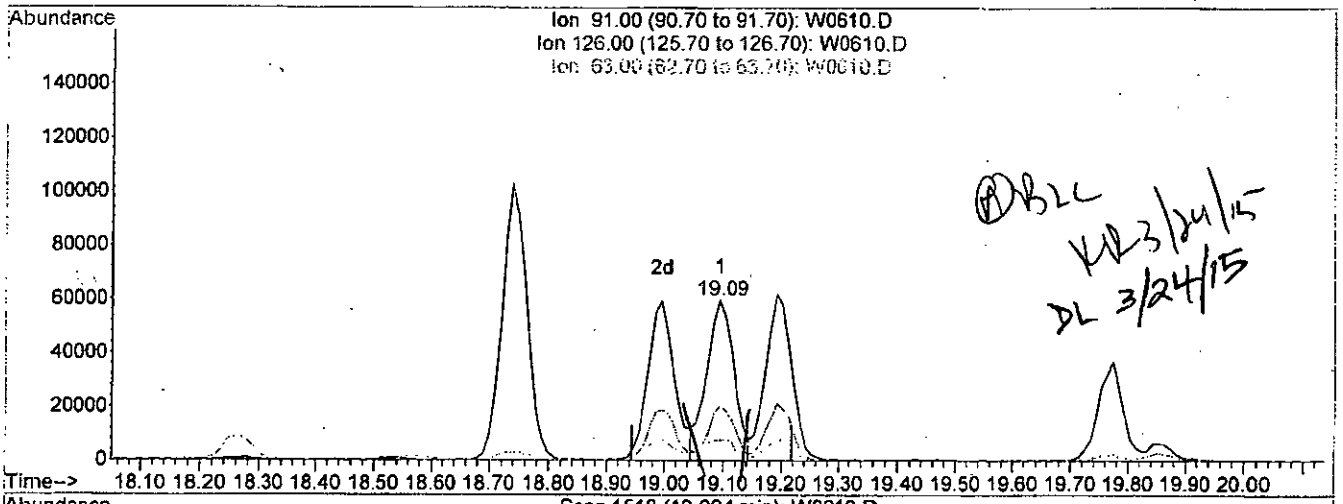
W0610.D W032315.M Tue Mar 24 10:57:38 2015

00411

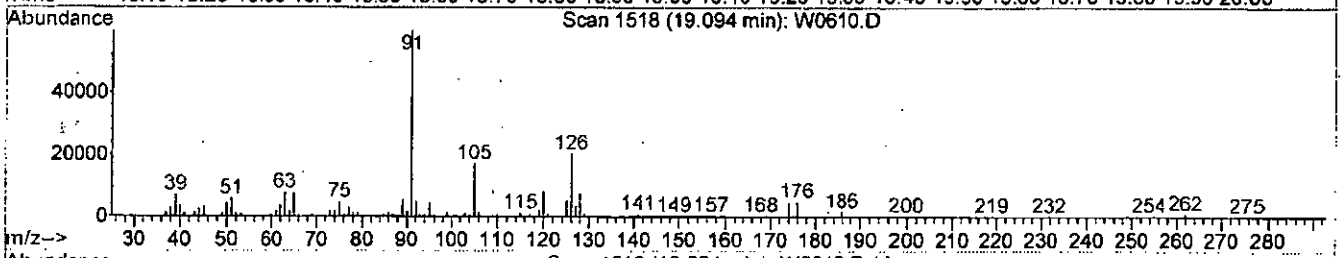
Quantitation Report (Qedit)

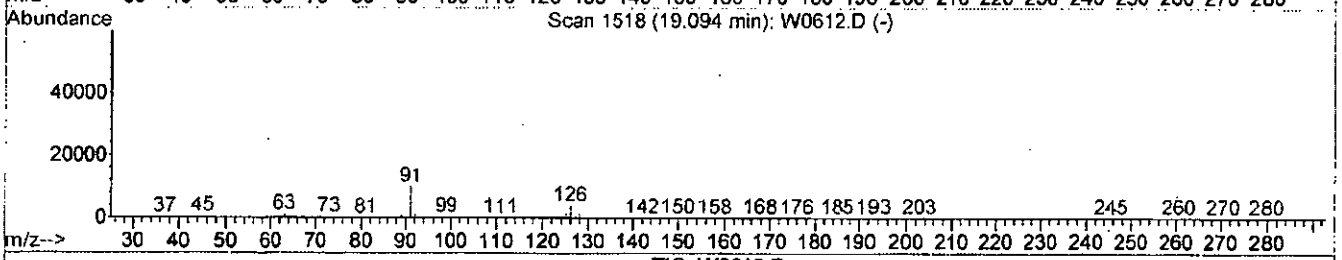
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:57 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:52:22 2015
Response via : Multiple Level Calibration



BBZC KL 3/24/15 DL 3/24/15





TIC: W0610.D

(98) 3-Chlorotoluene

19.09min 5.33ppb m

response 190963

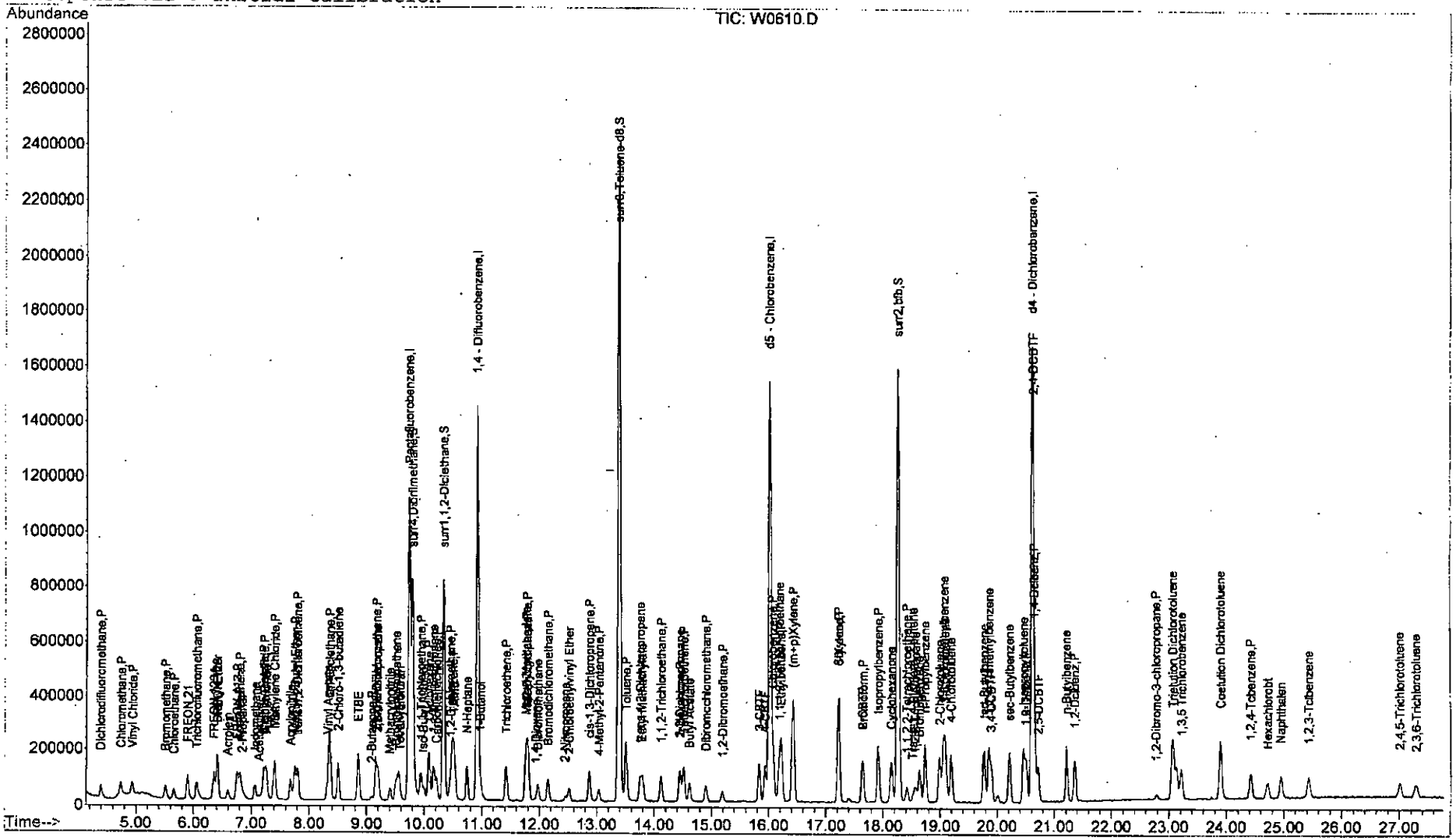
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	26.28
63.00	12.50	11.81
0.00	0.00	0.00

W0610.D W032315.M Tue Mar 24 10:57:45 2015

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0610.D Vial: 14
Acq On : 23 Mar 2015 6:10 pm Operator: K.Ruest
Sample : 5.0ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:57 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:52:22 2015
Response via : Initial Calibration



W0610.D W032315.M Tue Mar 24 10:58:19 2015 Page 4

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:02 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	1091304	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1781730	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.02	117	1677676	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.62	152	821995	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	1139483	99.23	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	198.46%#			
48) surr1,1,2-Diclethane	10.33	65	1150818	99.39	ppb		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	198.78%#			
70) surr3,Toluene-d8	13.39	98	3541068	97.21	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	194.42%#			
71) surr2,bfb	18.27	95	1542343	97.54	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	195.08%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.40	85	258298	18.72	ppb		99
3) Chloromethane	4.74	50	253253	16.92	ppb		100
4) Vinyl Chloride	4.94	62	237984	17.54	ppb		99
5) Bromomethane	5.51	96	172631	18.27	ppb		92
6) Chloroethane	5.66	64	175540	17.36	ppb		97
7) FREON 21	5.90	67	472665	19.04	ppb		99
8) Trichlorofluoromethane	6.05	101	289697	18.01	ppb		96
9) Diethyl Ether	6.41	59	186845	19.30	ppb		99
10) FREON 123A	6.35	67	279939m	19.44	ppb		
11) FREON 123	6.42	83	289994m	19.07	ppb		
12) Acrolein	6.60	56	171477	98.68	ppb		99
13) FREON 113	6.75	101	200222	18.11	ppb		96
14) 1,1-Diclethene	6.80	96	174899	17.89	ppb		98
15) Acetone	6.78	43	89945	22.02	ppb		98
16) 2-Propanol	6.84	45	220647	404.34	ppb		99
17) Iodomethane	7.07	142	359652	19.90	ppb		98
18) Carbon Disulfide	7.22	76	905425	20.11	ppb		98
19) Acetonitrile	7.14	41	103614	99.56	ppb		97
20) Allyl Chloride	7.27	41	390182	18.22	ppb		80
21) Methyl Acetate	7.21	43	148263	19.02	ppb		96
22) Methylene Chloride	7.40	84	220712	17.62	ppb		94
23) TBA	7.39	59	320169	391.97	ppb		98
24) Acrylonitrile	7.68	53	344741	99.00	ppb		96
25) Methyl-t-Butyl Ether	7.76	73	571763	19.26	ppb		98
26) trans-1,2-Dichloroethene	7.81	96	205516	17.71	ppb		97
28) 1,1-Diclethane	8.37	63	374926	18.09	ppb		98
29) Vinyl Acetate	8.32	86	34712	21.18	ppb	#	84
30) DIPE	8.35	45	875054	18.19	ppb		96
31) 2-Chloro-1,3-butadiene	8.51	53	454696	19.93	ppb		99
32) ETBE	8.85	59	739385	18.46	ppb		99
33) 2,2-Dichloropropane	9.21	77	279341	16.45	ppb		97
34) 2-Butanone	9.09	43	104772	19.68	ppb		90
35) cis-1,2-Dichloroethene	9.16	96	223610	18.18	ppb		99
36) Propionitrile	9.17	54	113541	92.59	ppb		98
37) Methacrylonitrile	9.42	67	76862	19.01	ppb		99

(#) = qualifier out of range (m) = manual integration
W0611.D W032315.M Tue Mar 24 11:03:24 2015

KB 3/24/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:02 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Bromochloromethane	9.51	128	120623	18.81	ppb	98
39)	Chloroform	9.56	83	365794	18.07	ppb	95
40)	Tetrahydrofuran	9.59	42	53010	18.54	ppb	97
41)	1,1,1-Trichloroethane	9.95	97	295006	18.14	ppb	99
43)	Cyclohexane	10.09	56	412258	19.11	ppb	97
45)	Carbontetrachloride	10.21	117	250877	17.83	ppb	95
46)	1,1-Dichloropropene	10.16	75	287706	17.91	ppb	97
47)	Iso-Butyl Alcohol	10.00	43	158756	385.89	ppb	94
49)	Benzene	10.49	78	827171	17.86	ppb	98
50)	1,2-Dichloroethane	10.45	62	278362	18.83	ppb	99
51)	TAME	10.53	73	586492	18.60	ppb	98
52)	N-Heptane	10.74	43	310965	18.83	ppb	98
53)	1-Butanol	10.97	56	225222m	1029.71	ppb	
54)	Trichloroethene	11.42	95	215209	18.26	ppb	95
55)	Methylcyclohexane	11.80	55	317790	18.62	ppb	98
56)	1,2-Diclpropane	11.77	63	240560	18.70	ppb	99
57)	Methyl Methacrylate	11.75	100	51400	19.47	ppb	88
58)	1,4-Dioxane	11.91	88	33555	429.42	ppb	99
59)	Dibromomethane	11.98	93	129633	19.67	ppb	95
60)	Bromodichloromethane	12.15	83	295353	19.02	ppb	96
61)	2-Nitropropane	12.46	43	86752	35.89	ppb	94
62)	2-Chloroethylvinyl Ether	12.52	63	128780	18.77	ppb	99
63)	cis-1,3-Dichloropropene	12.87	75	360756	18.89	ppb	100
65)	4-Methyl-2-Pentanone	13.03	43	209699	20.49	ppb	98
66)	Toluene	13.51	91	822561	18.17	ppb	97
67)	trans-1,3-Dichloropropene	13.76	75	295072	18.19	ppb	98
68)	Ethyl Methacrylate	13.80	69	256107	19.53	ppb	98
69)	1,1,2-Trichloroethane	14.13	83	160637	19.09	ppb	91
72)	Tetrachloroethene	14.52	166	222218	17.85	ppb	94
73)	2-Hexanone	14.46	43	144088	21.13	ppb	99
74)	1,3-Dichloropropane	14.45	76	339571	19.19	ppb	97
75)	Butyl Acetate	14.62	43	332835	19.64	ppb	97
76)	Dibromochloromethane	14.90	129	228313	18.93	ppb	97
77)	1,2-Dibromoethane	15.19	107	180298	19.04	ppb	95
78)	Chlorobenzene	16.08	112	547966	18.31	ppb	99
79)	3-CBTF	15.83	180	318161	18.85	ppb	98
80)	4-CBTF	15.94	180	283680	18.58	ppb	99
81)	1,1,1,2-Tetrachloroethane	16.18	131	209966	18.77	ppb	98
82)	Ethylbenzene	16.23	91	934758	18.47	ppb	97
83)	(m+p)Xylene	16.43	106	687751	36.68	ppb	99
84)	o-Xylene	17.23	106	336543	18.11	ppb	98
85)	Styrene	17.23	104	605806	18.78	ppb	99
86)	Bromoform	17.65	173	125797	19.44	ppb	100
87)	2-CBTF	17.65	180	296140	18.40	ppb	98
88)	Isopropylbenzene	17.92	105	861276	18.39	ppb	100
89)	Cyclohexanone	18.15	55	464806	418.62	ppb	94
91)	1,1,2,2-Tetrachloroethane	18.42	83	208762	19.44	ppb	95
92)	Trans-1,4-Dichloro-2-buten	18.53	53	48574	18.69	ppb	96
93)	1,2,3-Trichloropropane	18.58	110	62787	18.65	ppb	94
94)	n-Propylbenzene	18.74	91	1040212	18.21	ppb	98

(#) = qualifier out of range (m) = manual integration
W0611.D W032315.M Tue Mar 24 11:03:25 2015 Page 2

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:02 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

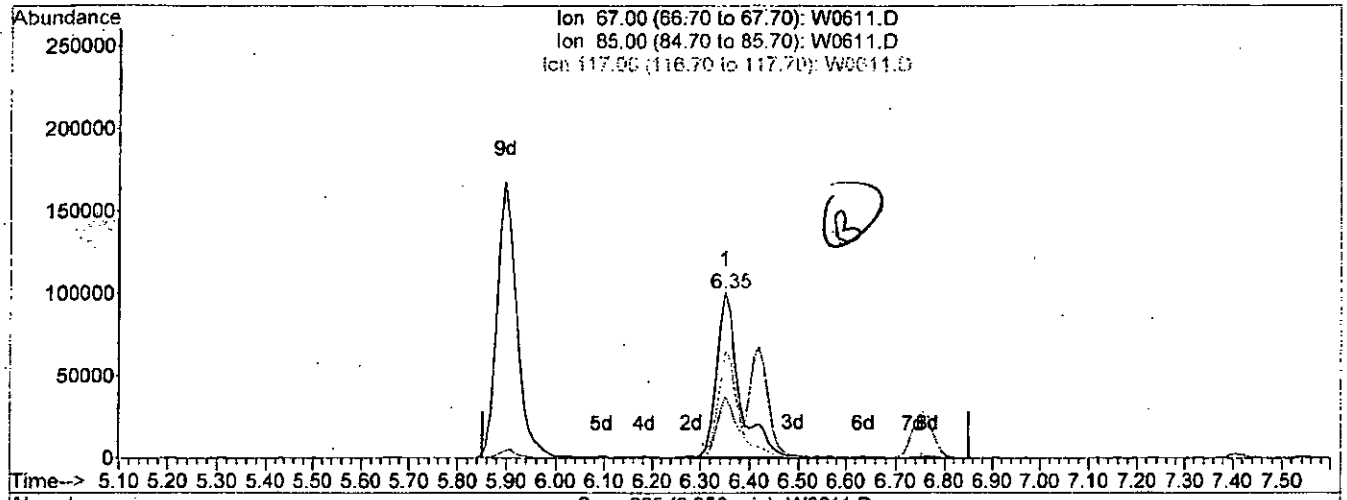
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Bromobenzene	18.65	156	234237	18.77	ppb	98
96)	1,3,5-Trimethylbenzene	19.05	105	675097	18.18	ppb	97
97)	2-Chlorotoluene	18.99	91	649486	17.93	ppb	100
98)	3-Chlorotoluene	19.09	91	680208m	18.73	ppb	
99)	4-Chlorotoluene	19.19	91	672241	18.35	ppb	98
100)	tert-Butylbenzene	19.77	119	586130	17.87	ppb	100
101)	1,2,4-Trimethylbenzene	19.85	105	702063	18.56	ppb	97
102)	3,4-DCBTF	19.90	214	213500	18.11	ppb	100
103)	sec-Butylbenzene	20.22	105	851795	18.41	ppb	98
104)	p-Isopropyltoluene	20.46	119	714252	18.63	ppb	99
105)	1,3-Dclbenz	20.51	146	420951	18.29	ppb	95
106)	1,4-Dclbenz	20.66	146	425319	18.41	ppb	98
107)	2,4-DCBTF	20.64	214	187596	18.67	ppb	99
108)	2,5-DCBTF	20.72	214	216115	18.49	ppb	99
109)	n-Butylbenzene	21.21	91	675508	18.75	ppb	98
110)	1,2-Dclbenz	21.36	146	412443	18.86	ppb	99
111)	1,2-Dibromo-3-chloropropan	22.79	157	38766	16.71	ppb	90
112)	Trielution Dichlorotoluene	23.06	125	998987	55.75	ppb	98
114)	1,3,5 Trichlorobenzene	23.22	180	275293	18.54	ppb	98
115)	Coelution Dichlorotoluene	23.90	125	703801	37.97	ppb	99
116)	1,2,4-Tcbenzene	24.42	180	244814	18.70	ppb	97
117)	Hexachlorobt	24.71	225	97877	18.49	ppb	95
118)	Naphthalen	24.96	128	525383	18.74	ppb	98
119)	1,2,3-Tclbenzene	25.43	180	199794	18.12	ppb	95
120)	2,4,5-Trichlorotoluene	27.01	159	125668	17.46	ppb	99
121)	2,3,6-Trichlorotoluene	27.28	159	108595	17.93	ppb	97

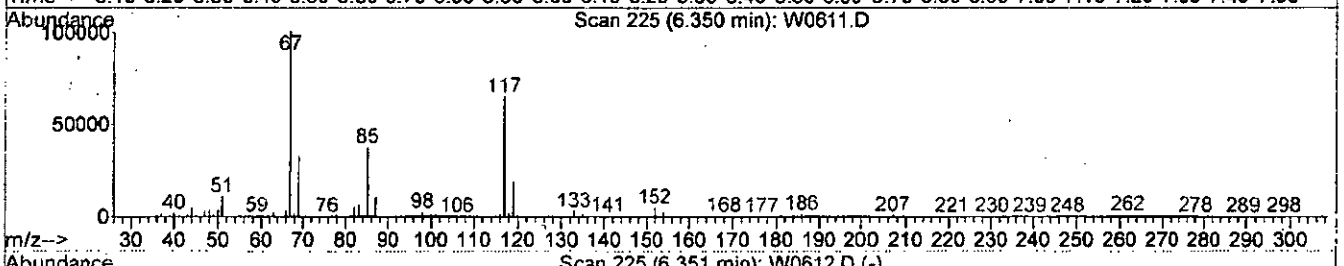
(#) = qualifier out of range (m) = manual integration
W0611.D W032315.M Tue Mar 24 11:03:25 2015

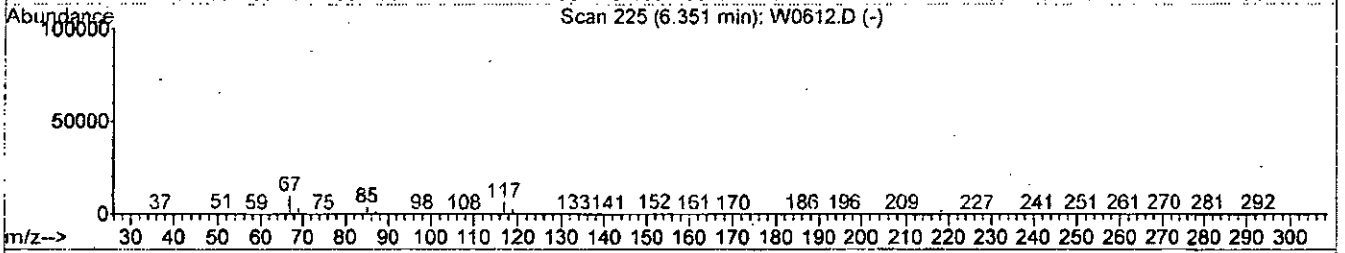
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:06 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration







TIC: W0611.D

(10) FREON 123A

6.35min 22.29ppb

response 320931

Ion	Exp%	Act%
67.00	100	100
85.00	36.30	37.28
117.00	65.00	64.74
0.00	0.00	0.00

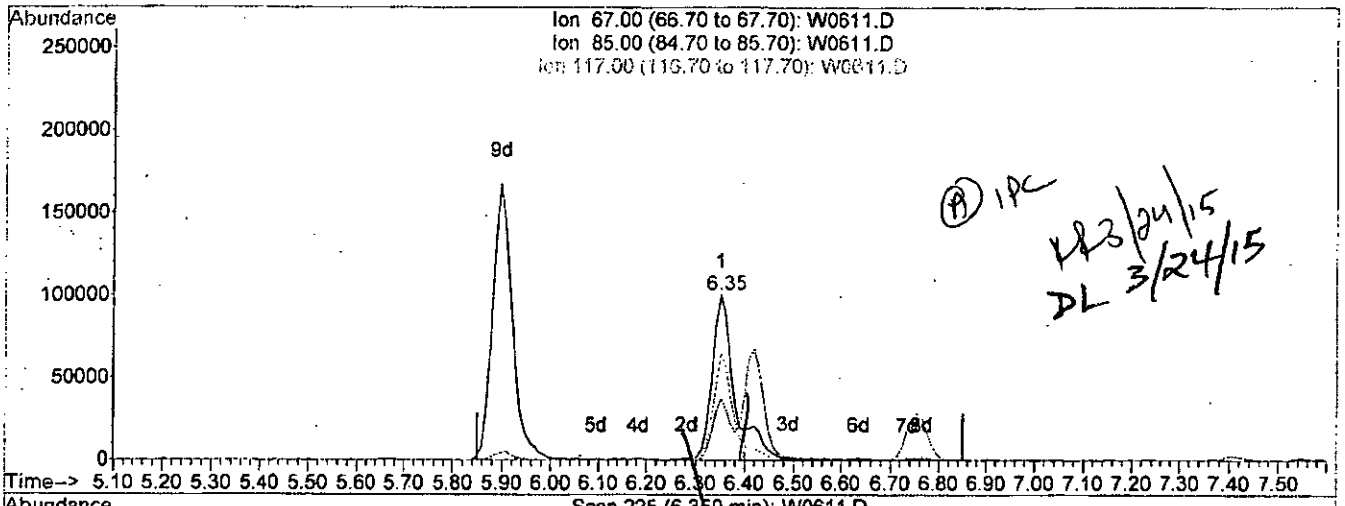
W0611.D W032315.M Tue Mar 24 11:00:32 2015

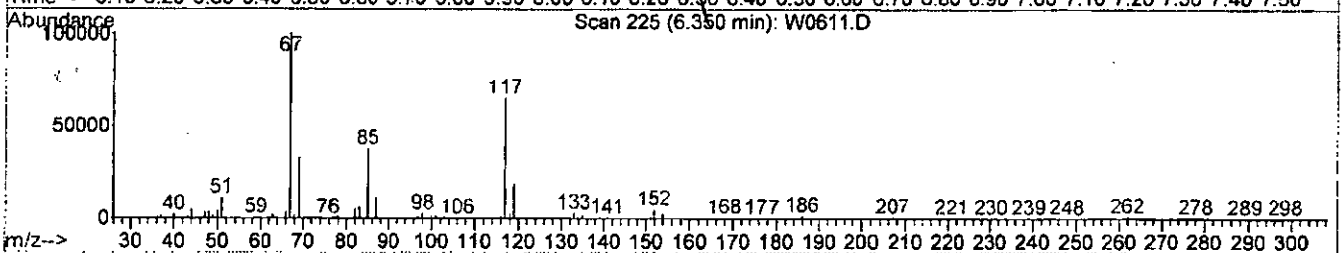
00417

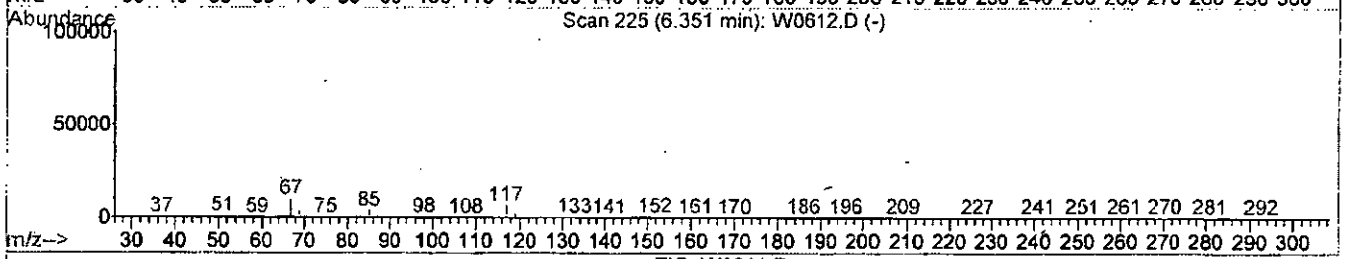
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:00 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration







TIC: W0611.D

(10) FREON 123A

6.35min 19.44ppb m

response 279939

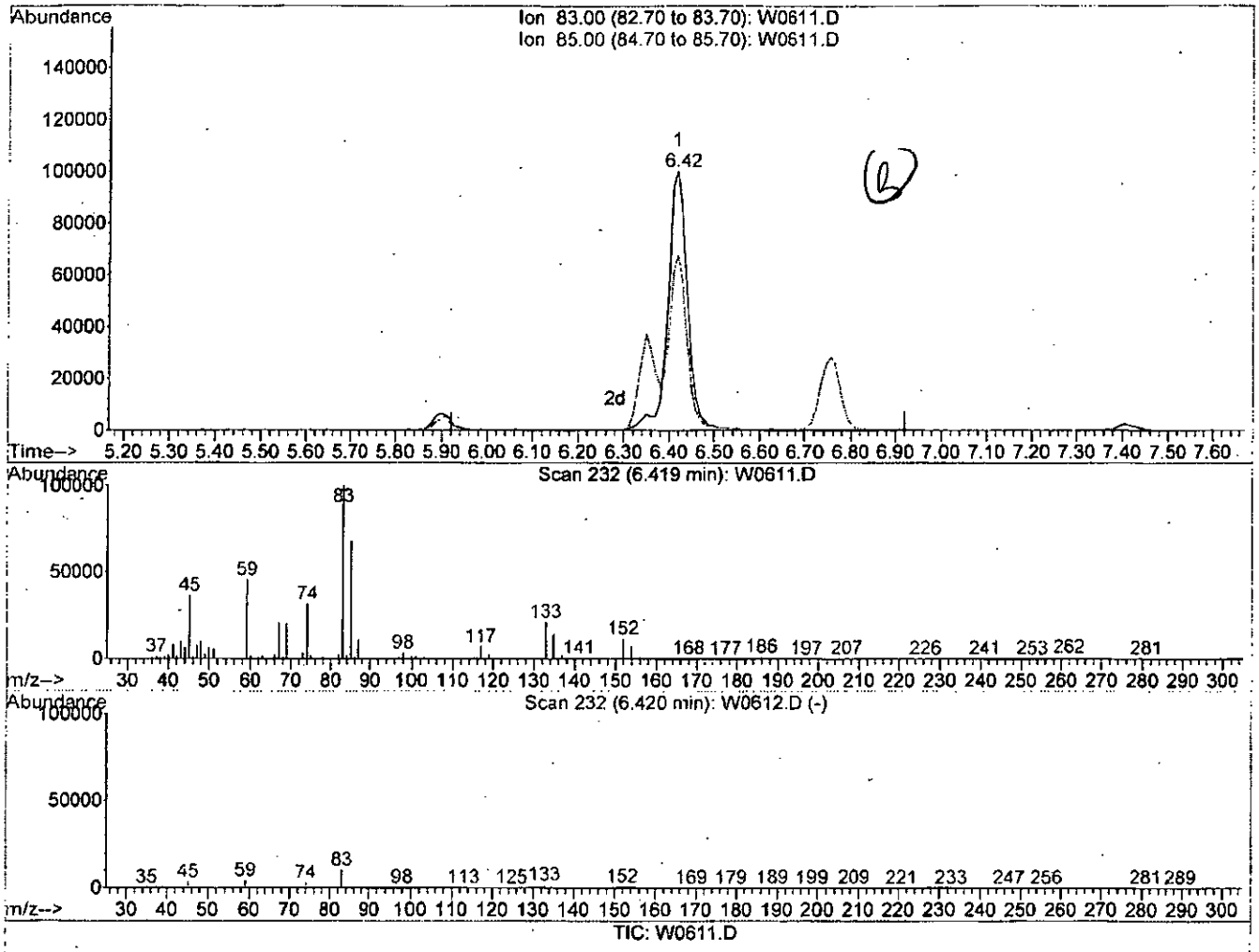
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	37.28
117.00	65.00	64.74
0.00	0.00	0.00

W0611.D W032315.M Tue Mar 24 11:00:44 2015

00418

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:00 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration



(11) FREON 123

6.42min 19.87ppb

response 302196

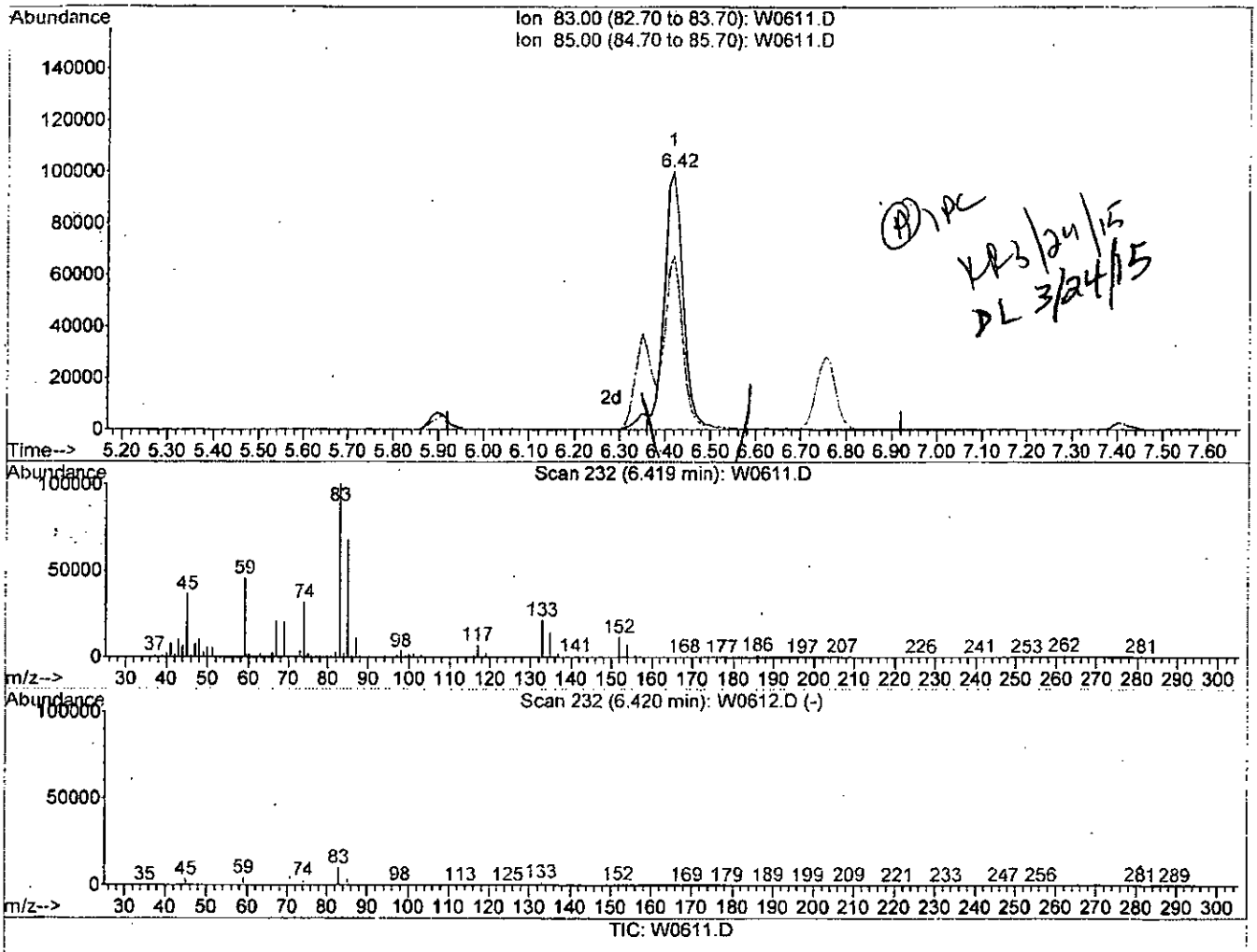
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.57
0.00	0.00	0.00
0.00	0.00	0.00

W0611.D W032315.M Tue Mar 24 11:00:50 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:00 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration



TIC: W0611.D

(11) FREON 123

6.42min 19.07ppb m

response 289994

Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.57
0.00	0.00	0.00
0.00	0.00	0.00

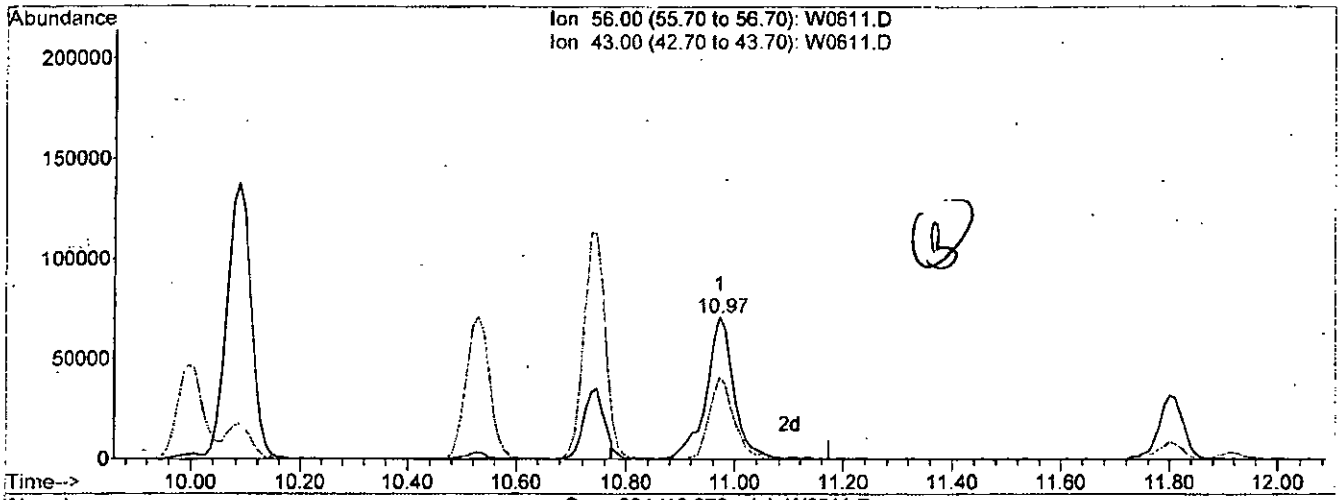
KR 3/24/15
DL 3/24/15

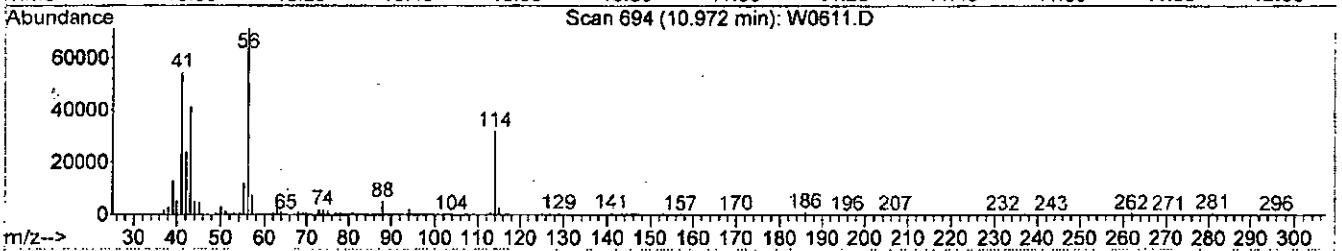
W0611.D W032315.M Tue Mar 24 11:00:58 2015

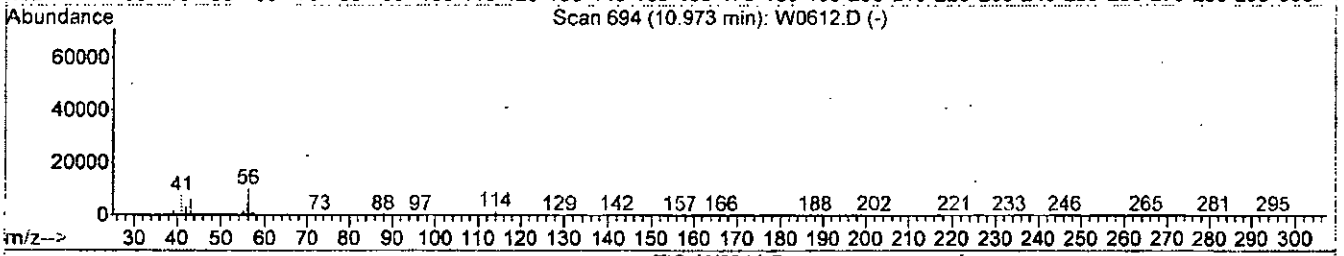
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:00 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration







TIC: W0611.D

(53) 1-Butanol

10.97min 1143.36ppb

response 250081

Ion	Exp%	Act%
56.00	100	100
43.00	55.30	52.21
0.00	0.00	0.00
0.00	0.00	0.00

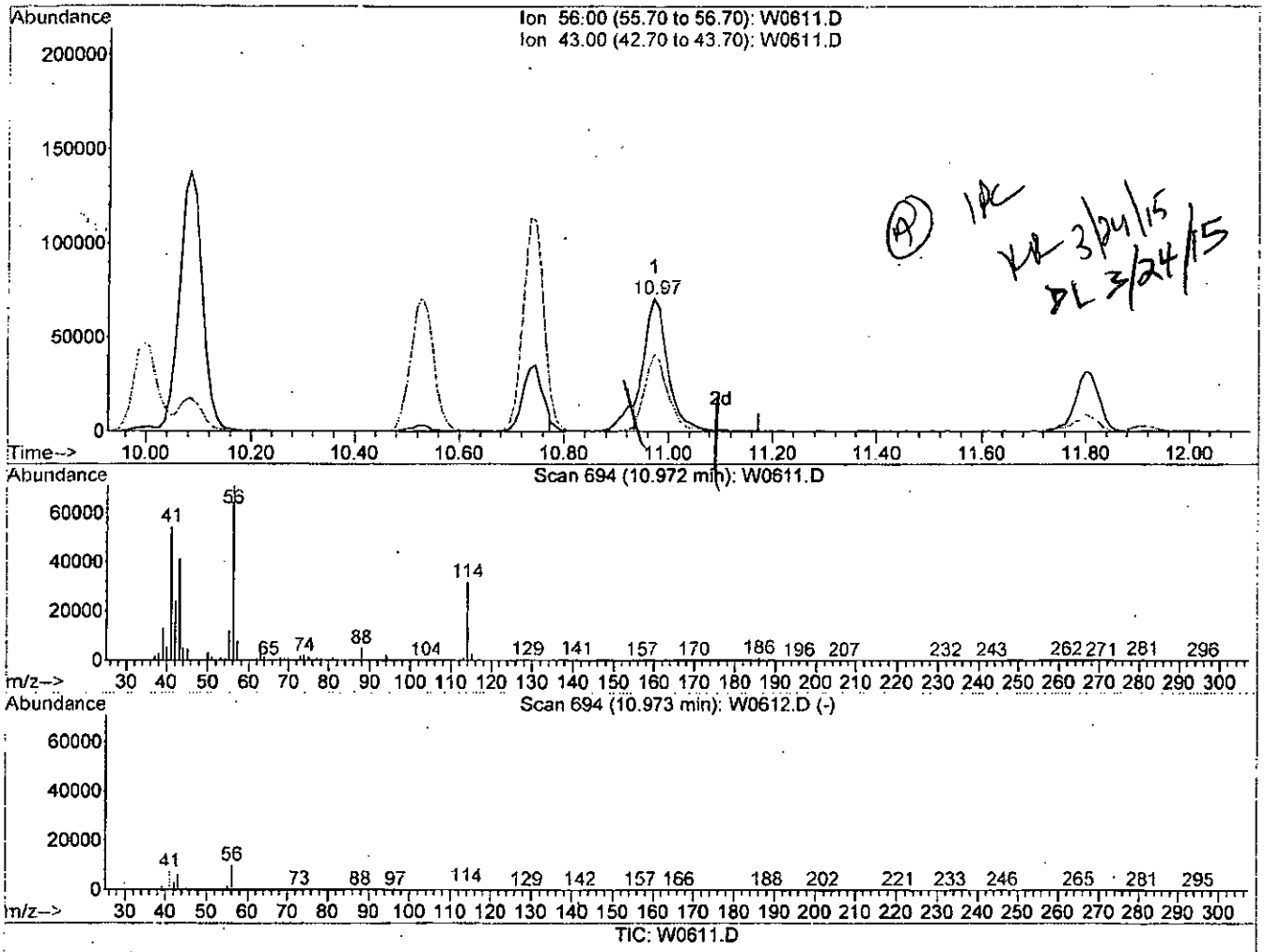
W0611.D W032315.M Tue Mar 24 11:01:43 2015

00421

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:02 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration



(A) IAC KK 3/24/15 DL 3/24/15

(53) 1-Butanol

10.97min 1029.71ppb m

response 225222

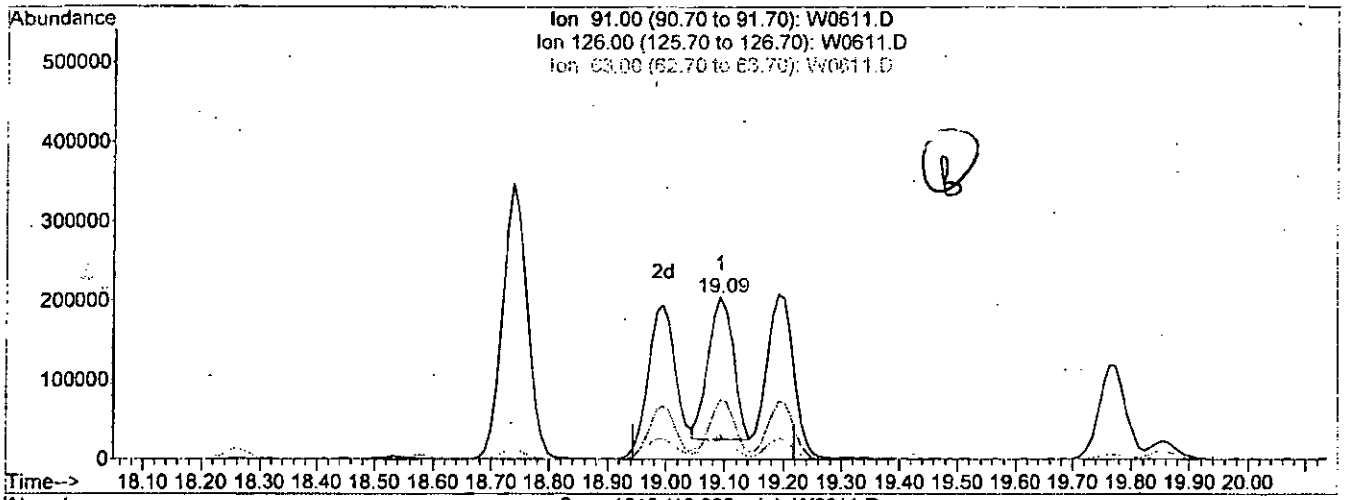
Ion	Exp%	Act%
56.00	100	100
43.00	55.30	57.97
0.00	0.00	0.00
0.00	0.00	0.00

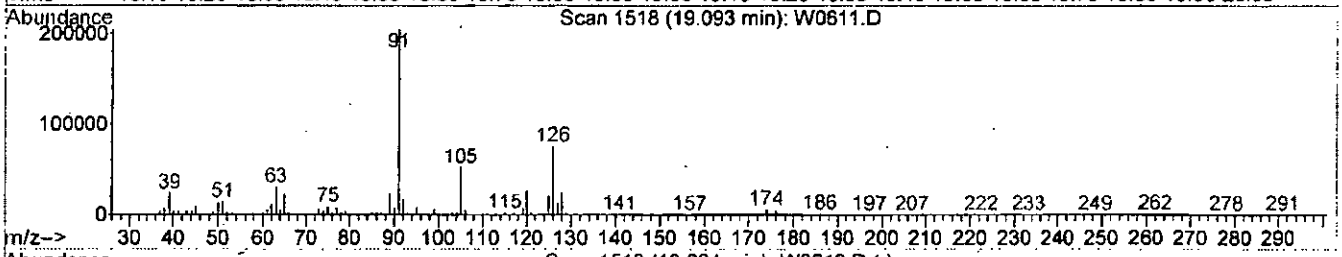
W0611.D W032315.M Tue Mar 24 11:02:08 2015

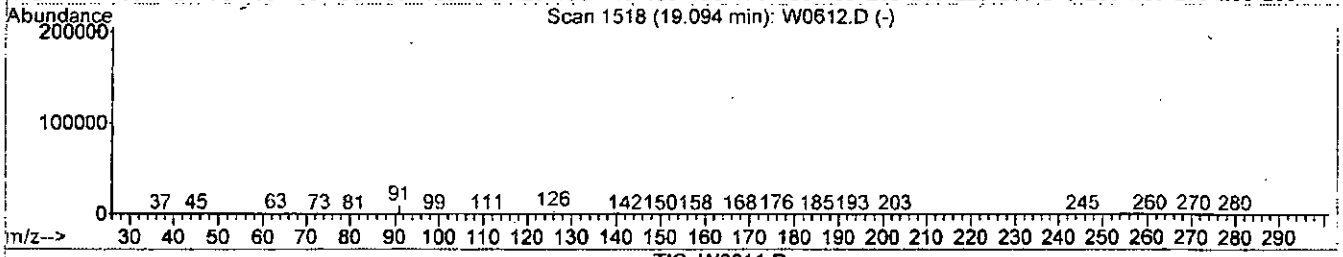
00422

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:02 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration







TIC: W0611.D

(98) 3-Chlorotoluene

19.09min 14.62ppb

response 530984

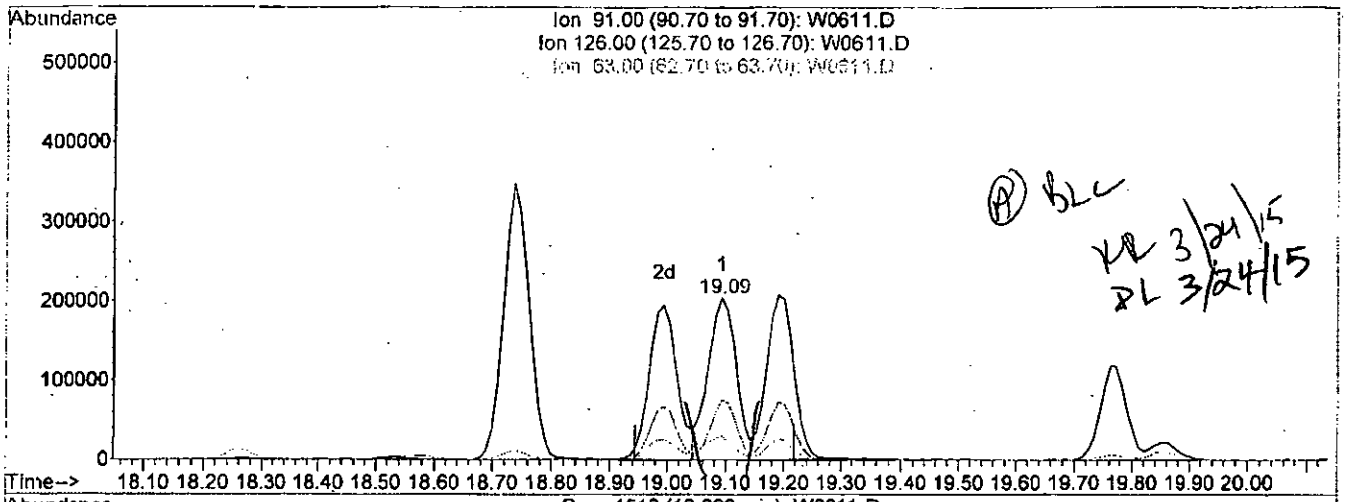
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	35.59#
63.00	12.50	16.51#
0.00	0.00	0.00

W0611.D W032315.M Tue Mar 24 11:02:42 2015

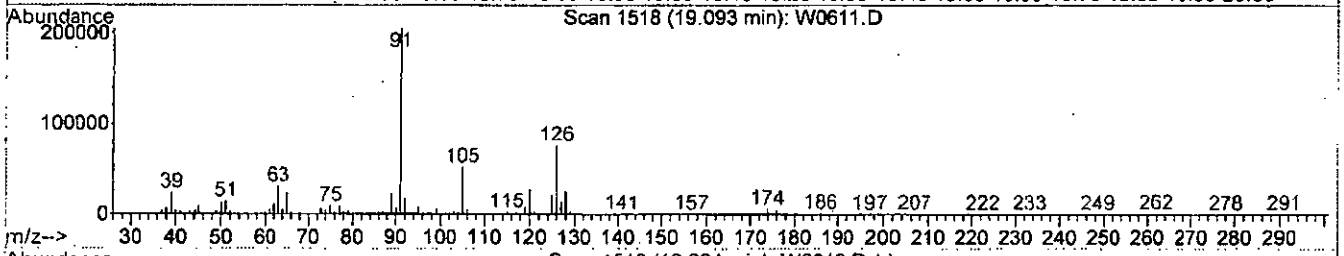
00423

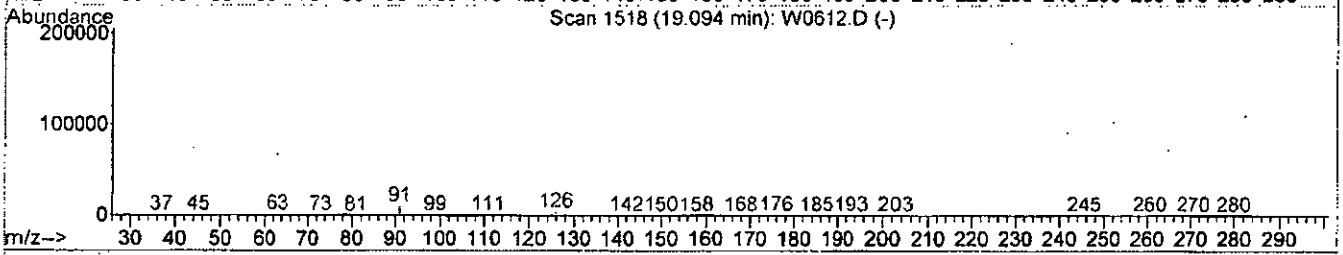
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:02 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Multiple Level Calibration



(R) BLC
KR 3/24/15
BL 3/24/15





TIC: W0611.D

(98) 3-Chlorotoluene

19.09min 18.73ppb m

response 680208

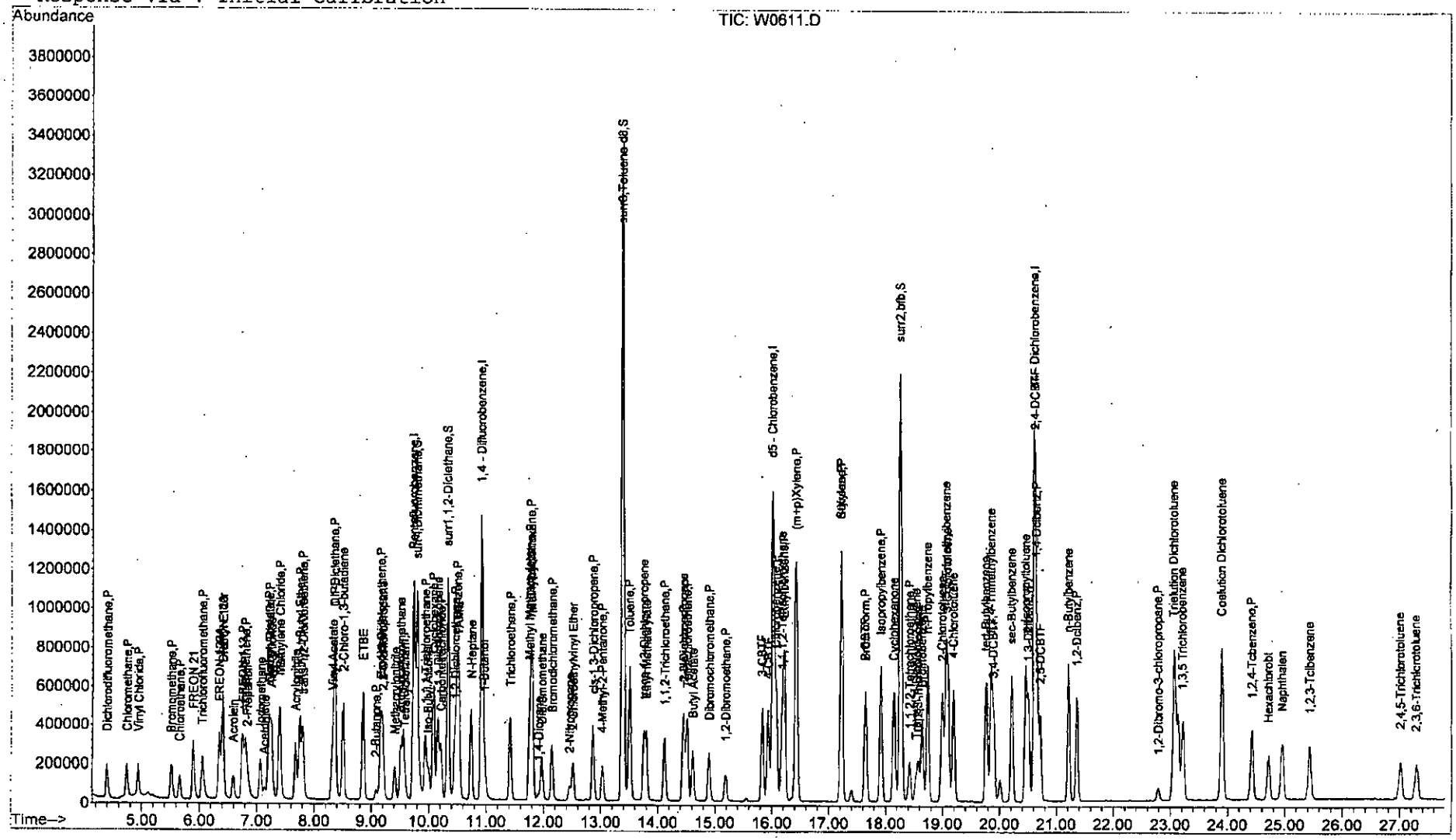
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	27.78
63.00	12.50	12.89
0.00	0.00	0.00

W0611.D W032315.M Tue Mar 24 11:02:52 2015

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0611.D Vial: 15
Acq On : 23 Mar 2015 6:45 pm Operator: K.Ruest
Sample : 20ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:02 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:58:28 2015
Response via : Initial Calibration



W0611.D W032315.M Tue Mar 24 11:03:29 2015 Page 4

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:05 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.74	168	1078672	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	10.92	114	1763697	50.00	ppb	0.00
64) d5 - Chlorobenzene	16.02	117	1662584	50.00	ppb	0.00
90) d4 - Dichlorobenzene	20.61	152	820886	50.00	ppb	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.80	113	589634	51.87	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.74%			
48) surr1,1,2-Diclethane	10.33	65	591175	51.58	ppb	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.16%			
70) surr3,Toluene-d8	13.39	98	1953952	54.13	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.26%			
71) surr2,bfb	18.27	95	848999	54.18	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.40	85	740528	54.29	ppb	100
3) Chloromethane	4.74	50	727176	49.17	ppb	100
4) Vinyl Chloride	4.94	62	699959	52.19	ppb	100
5) Bromomethane	5.51	96	506985	54.29	ppb	100
6) Chloroethane	5.66	64	499404	49.96	ppb	100
7) FREON 21	5.90	67	1262233	51.43	ppb	100
8) Trichlorofluoromethane	6.06	101	818055	51.46	ppb	100
9) Diethyl Ether	6.40	59	483704	50.55	ppb	100
10) FREON 123A	6.35	67	704694m	49.52	ppb	
11) FREON 123	6.42	83	761704m	50.67	ppb	
12) Acrolein	6.60	56	419800	244.41	ppb	100
13) FREON 113	6.76	101	561287	51.37	ppb	100
14) 1,1-Diclethene	6.80	96	491654	50.88	ppb	100
15) Acetone	6.77	43	204673	50.70	ppb	100
16) 2-Propanol	6.84	45	551096	1021.73	ppb	100
17) Iodomethane	7.07	142	920935	51.56	ppb	100
18) Carbon Disulfide	7.22	76	2304788	51.78	ppb	100
19) Acetonitrile	7.14	41	281549	273.71	ppb	100
20) Allyl Chloride	7.26	41	1077104	50.88	ppb	100
21) Methyl Acetate	7.20	43	378770	49.15	ppb	100
22) Methylene Chloride	7.41	84	597408	48.26	ppb	100
23) TBA	7.40	59	814508	1008.85	ppb	100
24) Acrylonitrile	7.68	53	876876	254.77	ppb	100
25) Methyl-t-Butyl Ether	7.76	73	1487220	50.67	ppb	100
26) trans-1,2-Dichloroethene	7.81	96	570007	49.69	ppb	100
28) 1,1-Diclethane	8.37	63	1035123	50.54	ppb	100
29) Vinyl Acetate	8.31	86	80136	49.48	ppb	100
30) DIPE	8.35	45	2296512	48.29	ppb	100
31) 2-Chloro-1,3-butadiene	8.51	53	1131431	50.17	ppb	100
32) ETBE	8.85	59	1971444	49.80	ppb	100
33) 2,2-Dichloropropane	9.20	77	803016	47.85	ppb	100
34) 2-Butanone	9.09	43	264325	50.23	ppb	100
35) cis-1,2-Dichloroethene	9.16	96	632357	52.02	ppb	100
36) Propionitrile	9.17	54	296501	244.61	ppb	100
37) Methacrylonitrile	9.41	67	205810	51.50	ppb	100

(#) = qualifier out of range (m) = manual integration
W0612.D W032315.M Tue Mar 24 11:06:14 2015

KR 3/24/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:05 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Bromochloromethane	9.51	128	315678	49.82	ppb	100
39)	Chloroform	9.56	83	1019627	50.95	ppb	100
40)	Tetrahydrofuran	9.59	42	135201	47.84	ppb	100
41)	1,1,1-Trichloroethane	9.95	97	848125	52.76	ppb	100
43)	Cyclohexane	10.09	56	1109348	51.94	ppb	100
45)	Carbontetrachloride	10.21	117	711096	51.05	ppb	100
46)	1,1-Dichloropropene	10.17	75	808128	50.81	ppb	100
47)	Iso-Butyl Alcohol	10.00	43	397347	975.70	ppb	100
49)	Benzene	10.49	78	2294176	50.04	ppb	100
50)	1,2-Dichloroethane	10.45	62	747808	51.09	ppb	100
51)	TAME	10.53	73	1549793	49.66	ppb	100
52)	N-Heptane	10.74	43	825949	50.53	ppb	100
53)	1-Butanol	10.97	56	588052	2716.05	ppb	100
54)	Trichloroethene	11.42	95	607020	52.03	ppb	100
55)	Methylcyclohexane	11.80	55	837329	49.57	ppb	100
56)	1,2-Diclpropane	11.78	63	636470	49.98	ppb	100
57)	Methyl Methacrylate	11.76	100	135762	51.96	ppb	100
58)	1,4-Dioxane	11.91	88	74415m	962.06	ppb	
59)	Dibromomethane	11.97	93	340143	52.13	ppb	100
60)	Bromodichloromethane	12.15	83	807140	52.50	ppb	100
61)	2-Nitropropane	12.46	43	251739	105.20	ppb	100
62)	2-Chloroethylvinyl Ether	12.52	63	333175	49.05	ppb	100
63)	cis-1,3-Dichloropropene	12.87	75	985015	52.10	ppb	100
65)	4-Methyl-2-Pentanone	13.03	43	522829	51.55	ppb	100
66)	Toluene	13.51	91	2291693	51.07	ppb	100
67)	trans-1,3-Dichloropropene	13.76	75	829737	51.63	ppb	100
68)	Ethyl Methacrylate	13.80	69	663402	51.05	ppb	100
69)	1,1,2-Trichloroethane	14.13	83	416146	49.91	ppb	100
72)	Tetrachloroethene	14.52	166	627954	50.90	ppb	100
73)	2-Hexanone	14.46	43	349299	51.69	ppb	100
74)	1,3-Dichloropropane	14.45	76	879879	50.18	ppb	100
75)	Butyl Acetate	14.62	43	857582	51.07	ppb	100
76)	Dibromochloromethane	14.91	129	607647	50.83	ppb	100
77)	1,2-Dibromoethane	15.19	107	491372	52.37	ppb	100
78)	Chlorobenzene	16.08	112	1549445	52.24	ppb	100
79)	3-CBTF	15.84	180	851655	50.90	ppb	100
80)	4-CBTF	15.94	180	746840	49.37	ppb	100
81)	1,1,1,2-Tetrachloroethane	16.19	131	576702	52.02	ppb	100
82)	Ethylbenzene	16.23	91	2551404	50.88	ppb	100
83)	(m+p)Xylene	16.43	106	1860516	100.13	ppb	100
84)	o-Xylene	17.22	106	922349	50.10	ppb	100
85)	Styrene	17.23	104	1638968	51.26	ppb	100
86)	Bromoform	17.66	173	347623	54.20	ppb	100
87)	2-CBTF	17.65	180	789904	49.52	ppb	100
88)	Isopropylbenzene	17.92	105	2366666	50.98	ppb	100
89)	Cyclohexanone	18.15	55	1094771	994.93	ppb	100
91)	1,1,2,2-Tetrachloroethane	18.42	83	556115	51.86	ppb	100
92)	Trans-1,4-Dichloro-2-buten	18.53	53	140264	54.04	ppb	100
93)	1,2,3-Trichloropropane	18.57	110	155915	46.36	ppb	100
94)	n-Propylbenzene	18.74	91	2901672	50.87	ppb	100

(#) = qualifier out of range (m) = manual integration
W0612.D W032315.M Tue Mar 24 11:06:15 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:05 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

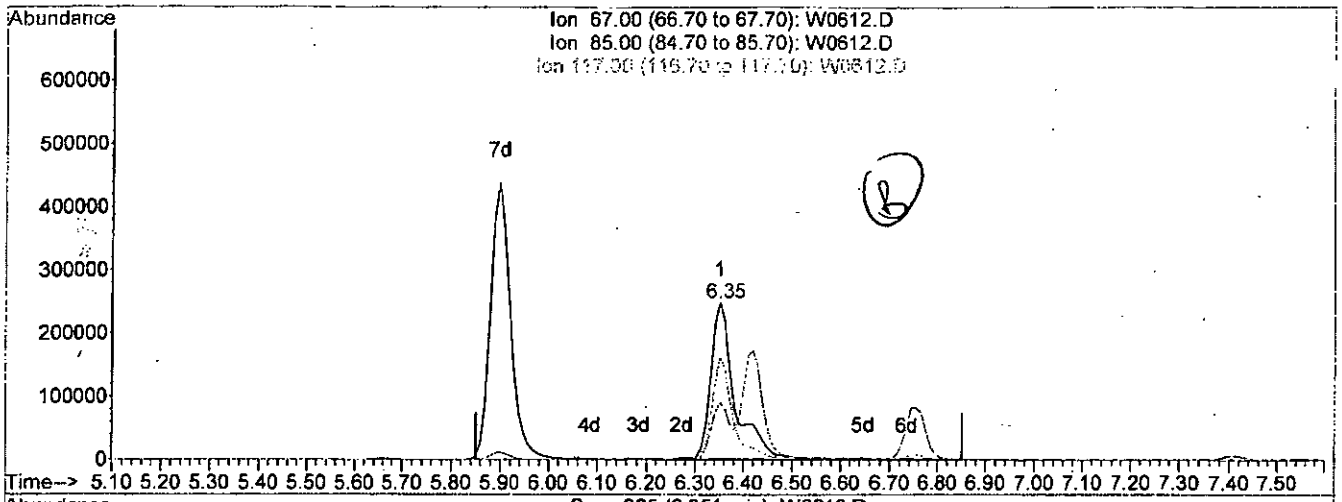
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Bromobenzene	18.65	156	626163	50.25	ppb	100
96)	1,3,5-Trimethylbenzene	19.05	105	1846195	49.78	ppb	100
97)	2-Chlorotoluene	19.00	91	1820857	50.35	ppb	100
98)	3-Chlorotoluene	19.09	91	1771981m	48.86	ppb	
99)	4-Chlorotoluene	19.19	91	1827789	49.96	ppb	100
100)	tert-Butylbenzene	19.77	119	1615238	49.30	ppb	100
101)	1,2,4-Trimethylbenzene	19.85	105	1899503	50.28	ppb	100
102)	3,4-DCBTF	19.90	214	564320	47.93	ppb	100
103)	sec-Butylbenzene	20.22	105	2319014	50.19	ppb	100
104)	p-Isopropyltoluene	20.46	119	1924951	50.27	ppb	100
105)	1,3-Dclbenz	20.51	146	1147274	49.92	ppb	100
106)	1,4-Dclbenz	20.66	146	1137123	49.28	ppb	100
107)	2,4-DCBTF	20.63	214	514956	51.32	ppb	100
108)	2,5-DCBTF	20.72	214	575834	49.34	ppb	100
109)	n-Butylbenzene	21.21	91	1835282	51.01	ppb	100
110)	1,2-Dclbenz	21.36	146	1102299	50.46	ppb	100
111)	1,2-Dibromo-3-chloropropan	22.79	157	108206	46.71	ppb	100
112)	Trielution Dichlorotoluene	23.08	125	2656720	148.46	ppb	100
114)	1,3,5 Trichlorobenzene	23.22	180	741618	50.01	ppb	100
115)	Coelution Dichlorotoluene	23.90	125	1886861	101.92	ppb	100
116)	1,2,4-Tcbenzene	24.43	180	691336	52.89	ppb	100
117)	Hexachlorobt	24.72	225	267171	50.53	ppb	100
118)	Naphthalen	24.95	128	1453333	51.92	ppb	100
119)	1,2,3-Tclbenzene	25.43	180	576208	52.32	ppb	100
120)	2,4,5-Trichlorotoluene	27.01	159	361269	50.26	ppb	100
121)	2,3,6-Trichlorotoluene	27.29	159	306424	50.67	ppb	100

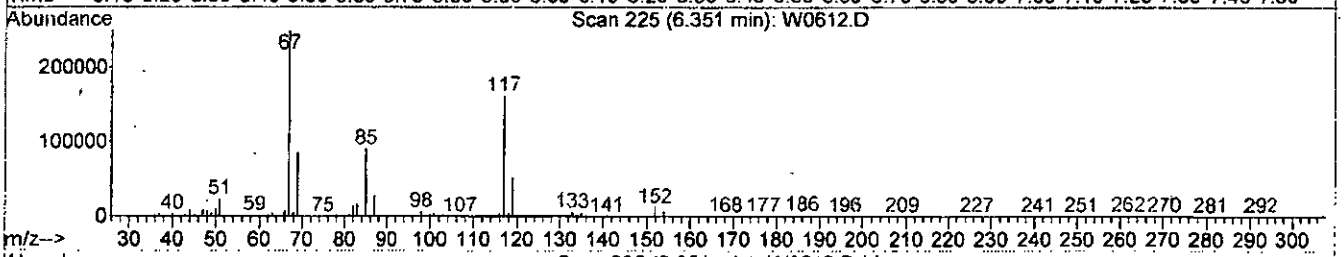
(#) = qualifier out of range (m) = manual integration
W0612.D W032315.M Tue Mar 24 11:06:16 2015 Page 3

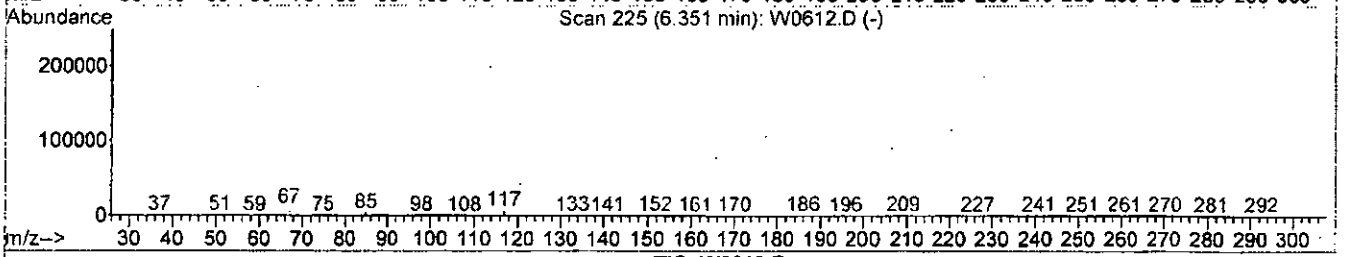
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:07 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Multiple Level Calibration







TIC: W0612.D

(10) FREON 123A

6.35min 61.91ppb

response 881062

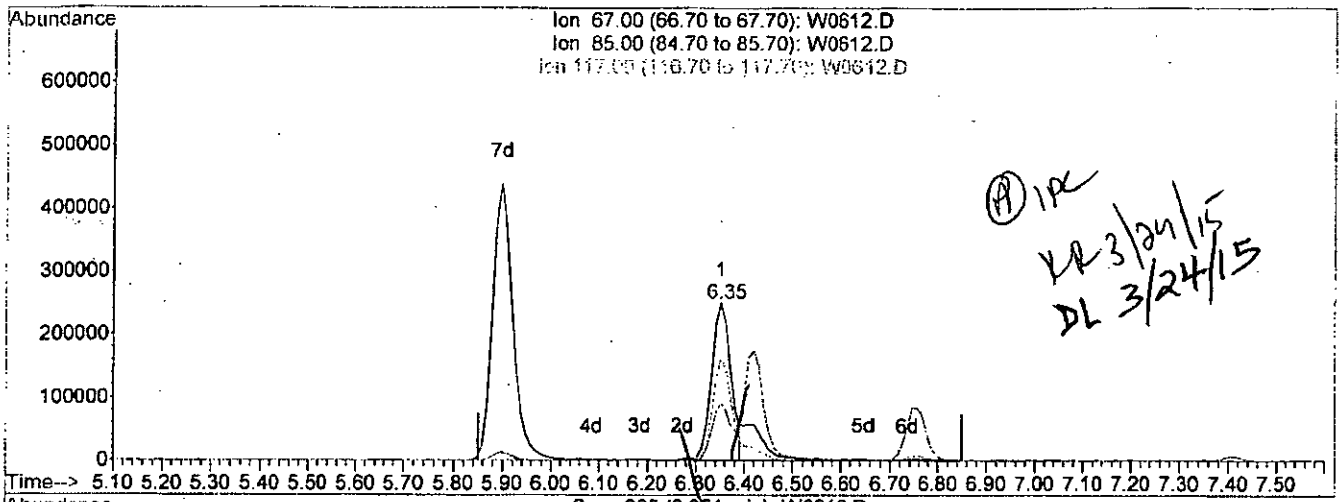
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	36.30
117.00	65.00	64.97
0.00	0.00	0.00

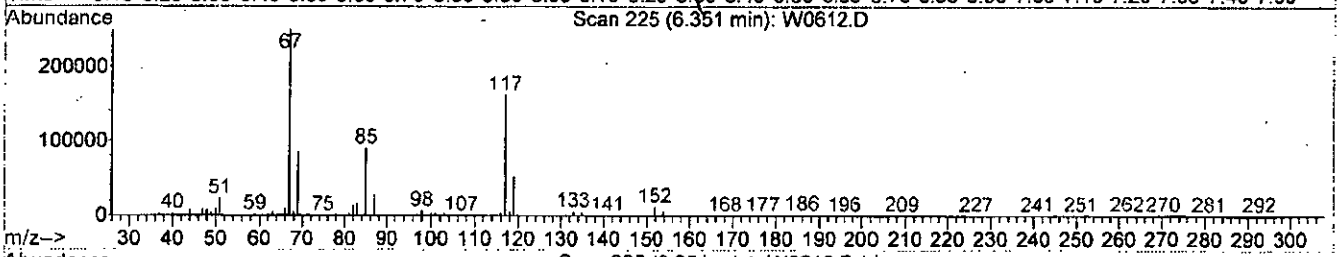
W0612.D W032315.M Tue Mar 24 11:04:09 2015

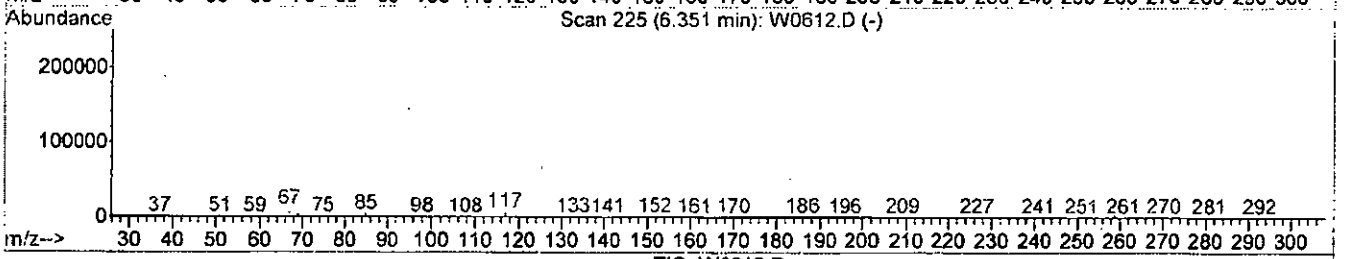
00429

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:04 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Multiple Level Calibration







TIC: W0612.D

(10) FREON 123A

6.35min 49.52ppb m

response 704694

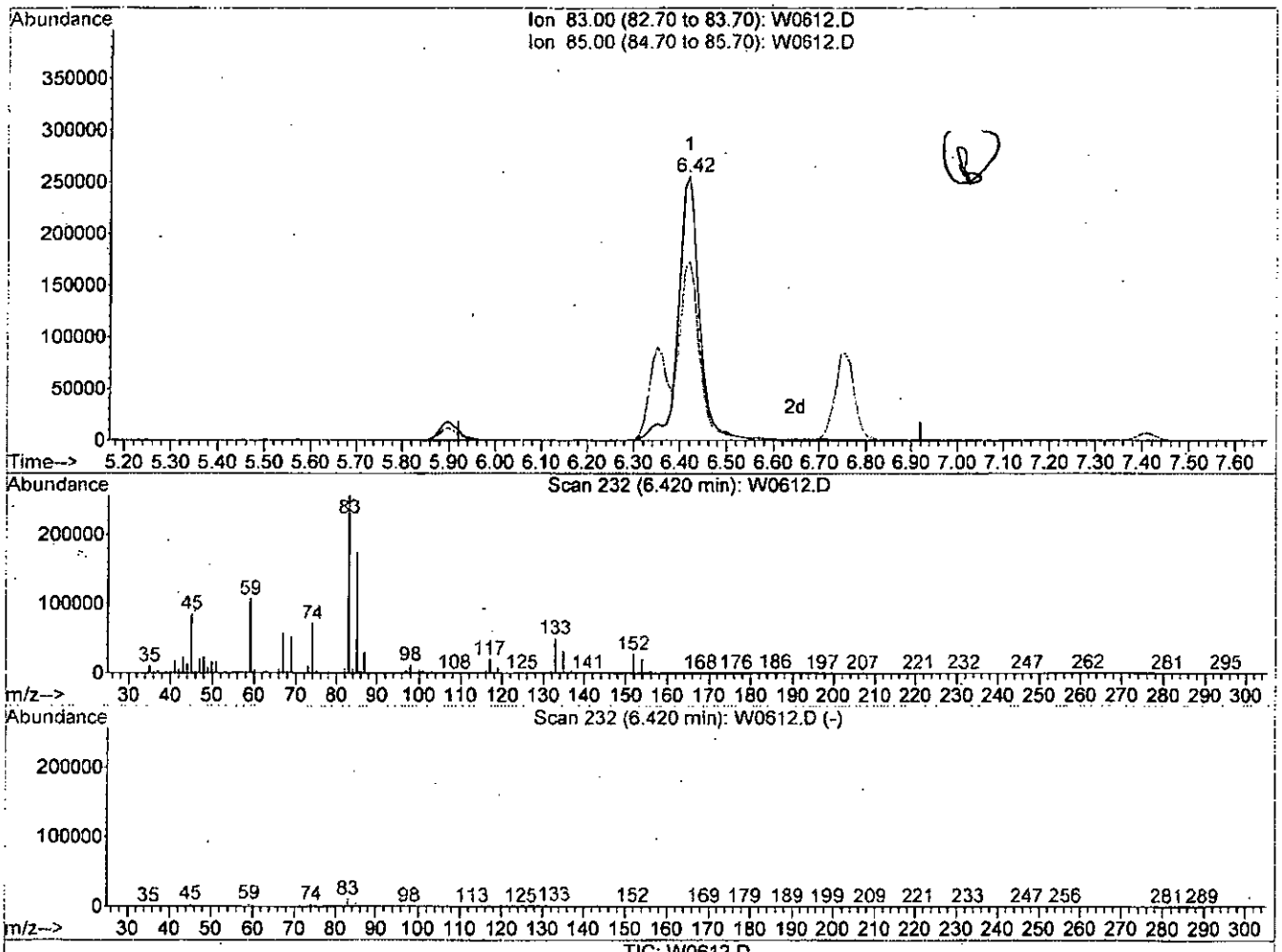
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	36.30
117.00	65.00	64.97
0.00	0.00	0.00

W0612.D W032315.M Tue Mar 24 11:04:17 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:04 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Multiple Level Calibration



TIC: W0612.D

(11) FREON 123

6.42min 53.03ppb

response 797209

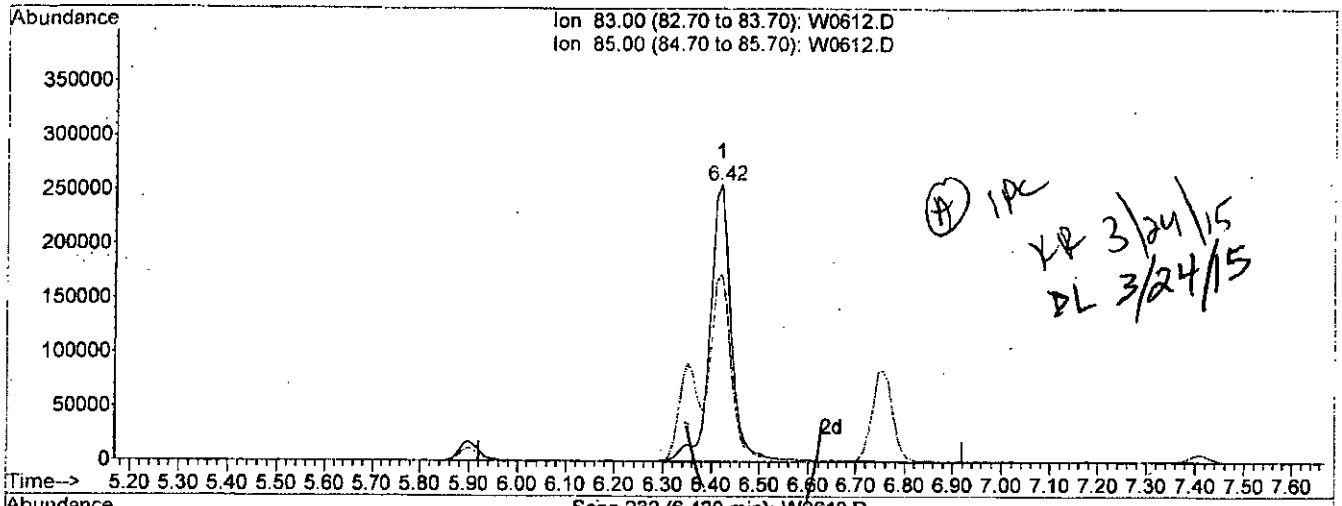
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.75
0.00	0.00	0.00
0.00	0.00	0.00

W0612.D W032315.M Tue Mar 24 11:04:22 2015

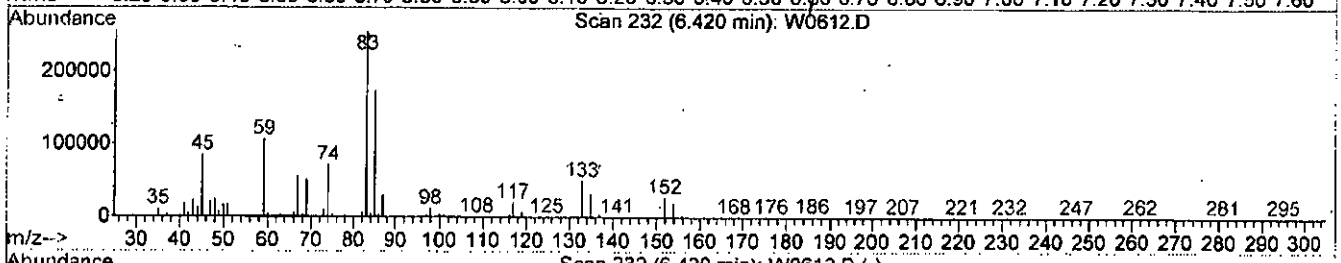
Quantitation Report (Qedit)

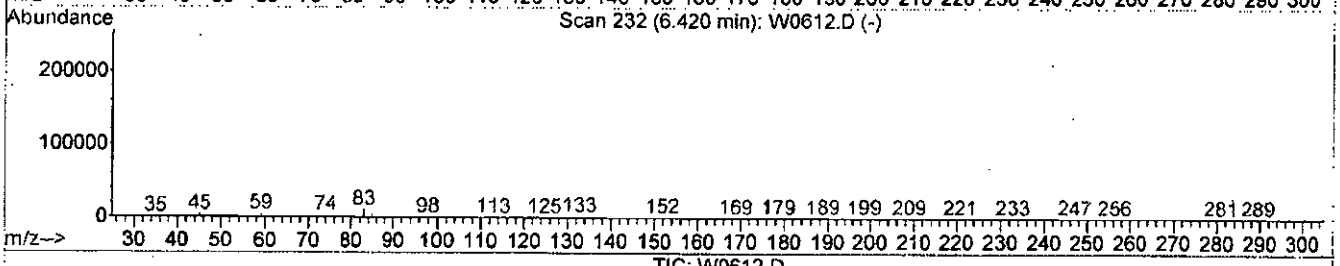
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:04 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Multiple Level Calibration



(A) IPC
KP 3/24/15
DL 3/24/15





TIC: W0612.D

(11) FREON 123

6.42min 50.67ppb m

response 761704

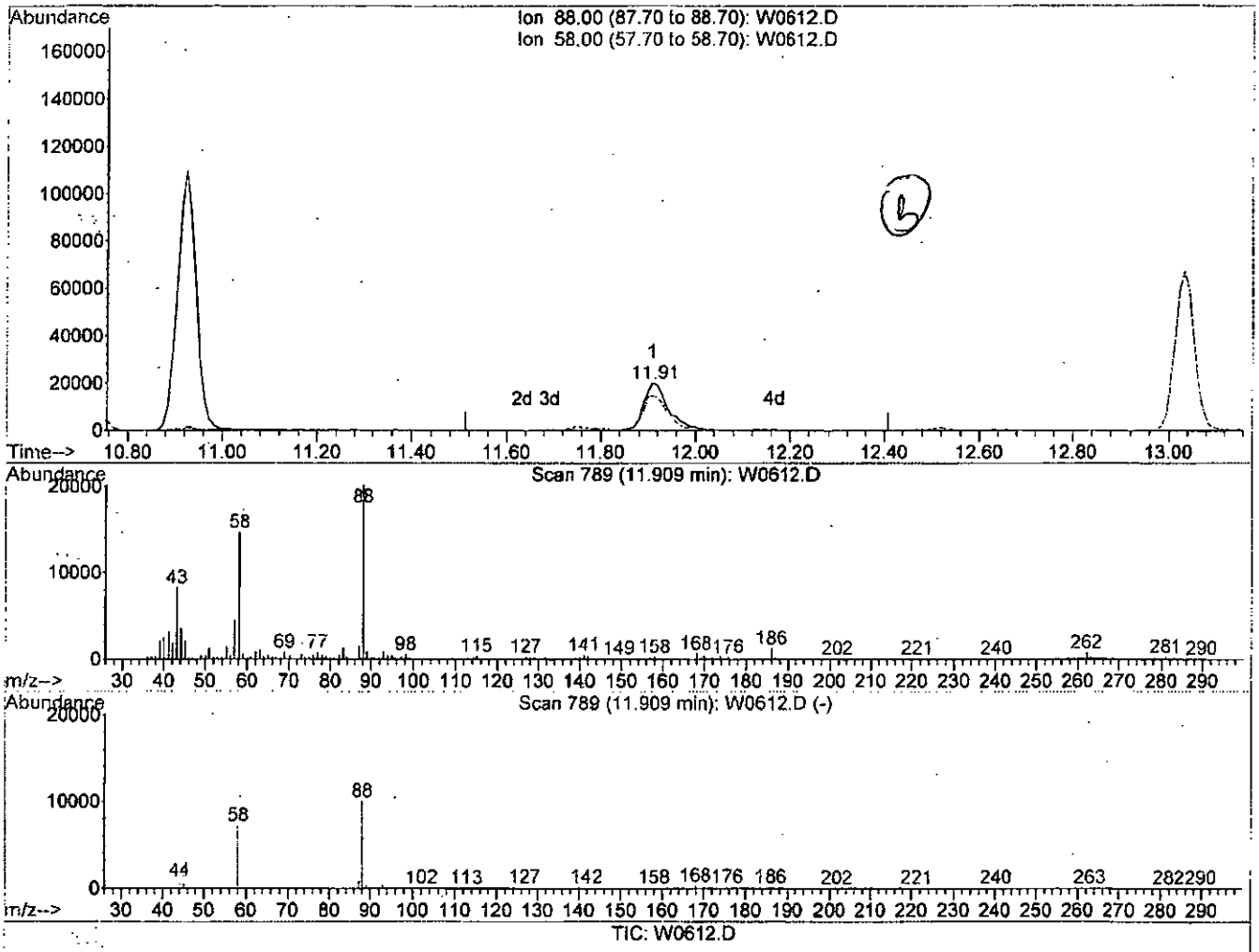
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.75
0.00	0.00	0.00
0.00	0.00	0.00

W0612.D W032315.M Tue Mar 24 11:04:31 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:04 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Single Level Calibration



(58) 1,4-Dioxane

11.91min 967.01ppb

response 74798

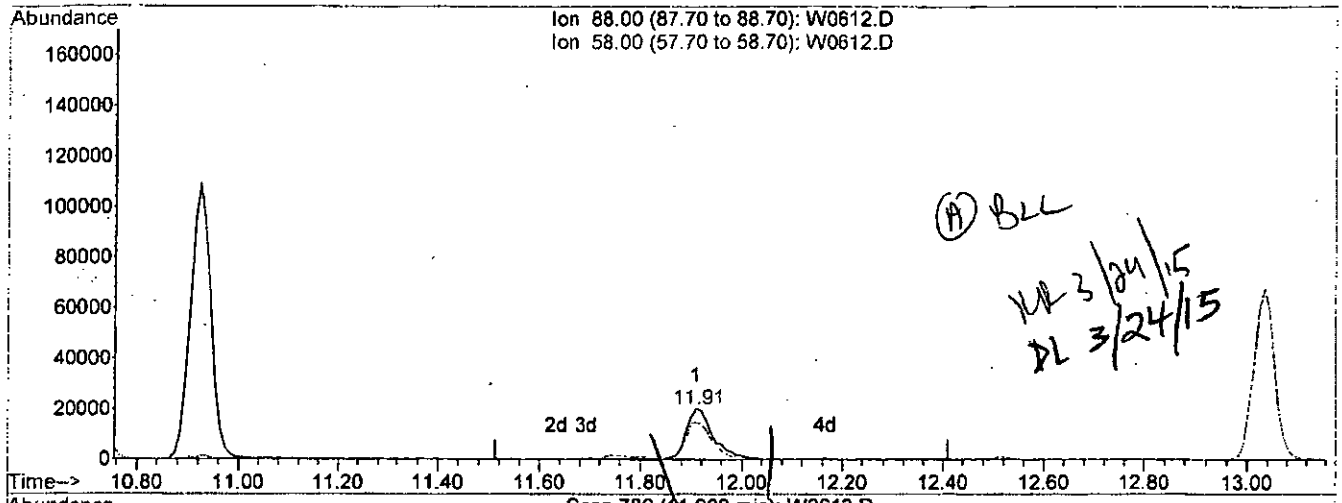
Ion	Exp%	Act%
88.00	100	100
58.00	73.00	72.97
0.00	0.00	0.00
0.00	0.00	0.00

W0612.D W032315.M Tue Mar 24 11:05:05 2015

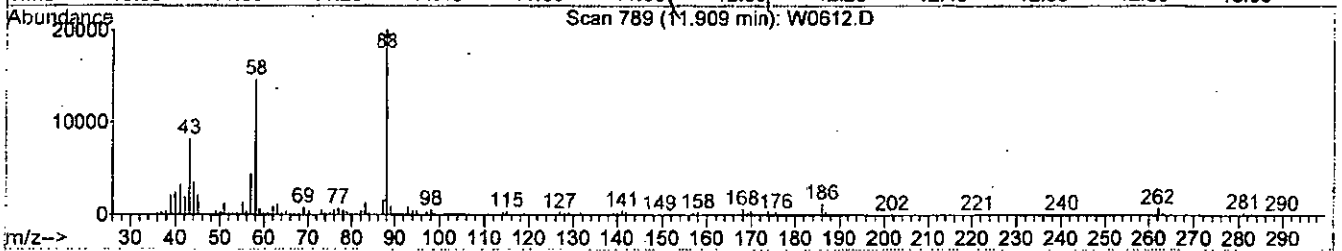
Quantitation Report (Qedit)

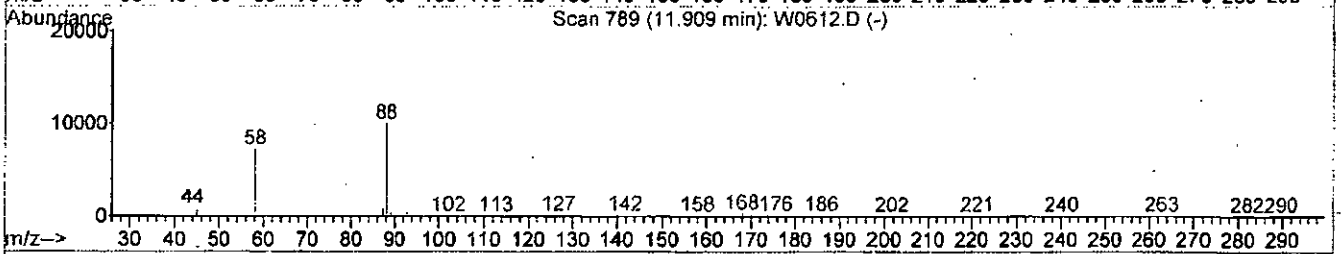
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:05 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Single Level Calibration



(A) BLL
MA 3/24/15
DL 3/24/15





TIC: W0612.D

(58) 1,4-Dioxane

11.91min 962.06ppb m

response 74415

Ion	Exp%	Act%
88.00	100	100
58.00	73.00	72.97
0.00	0.00	0.00
0.00	0.00	0.00

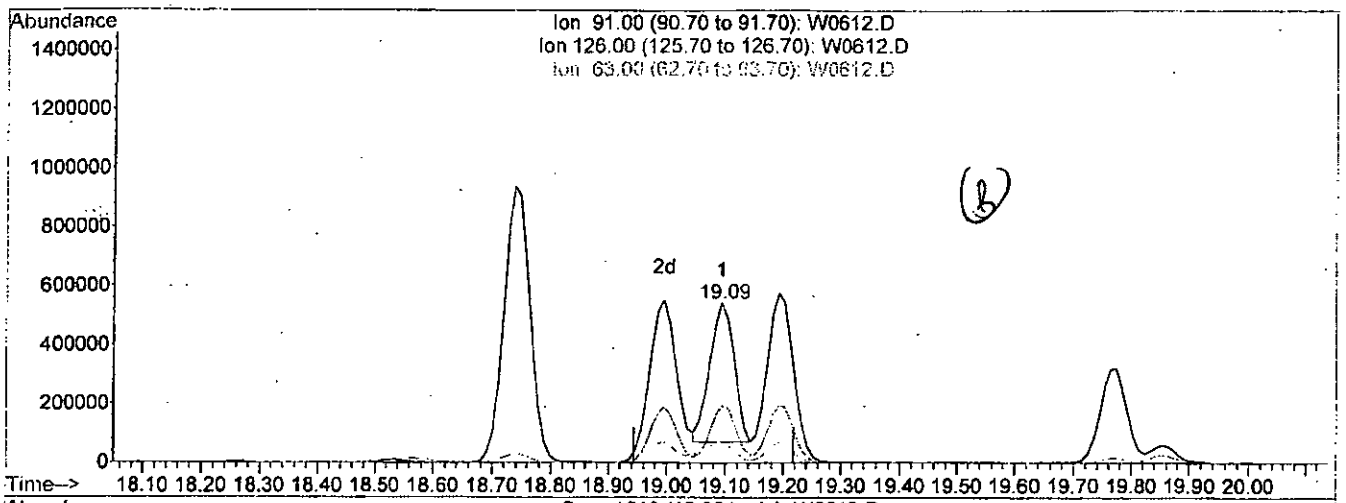
W0612.D W032315.M Tue Mar 24 11:05:13 2015

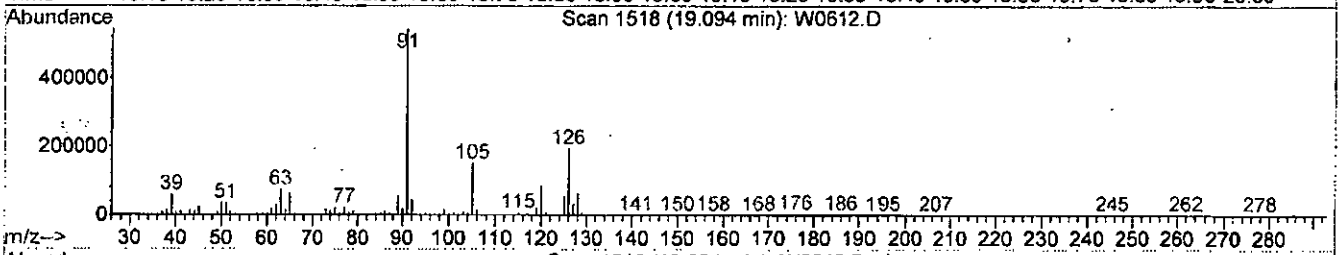
00434

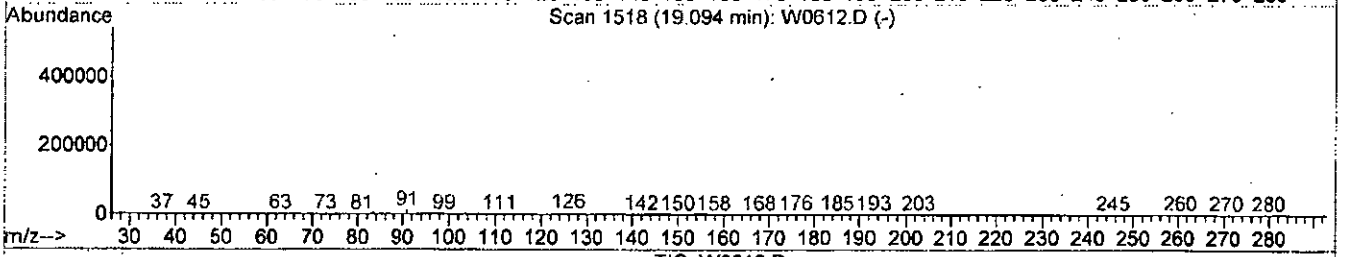
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:05 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Multiple Level Calibration







TIC: W0612.D

(98) 3-Chlorotoluene

19.09min 37.31ppb

response 1353081

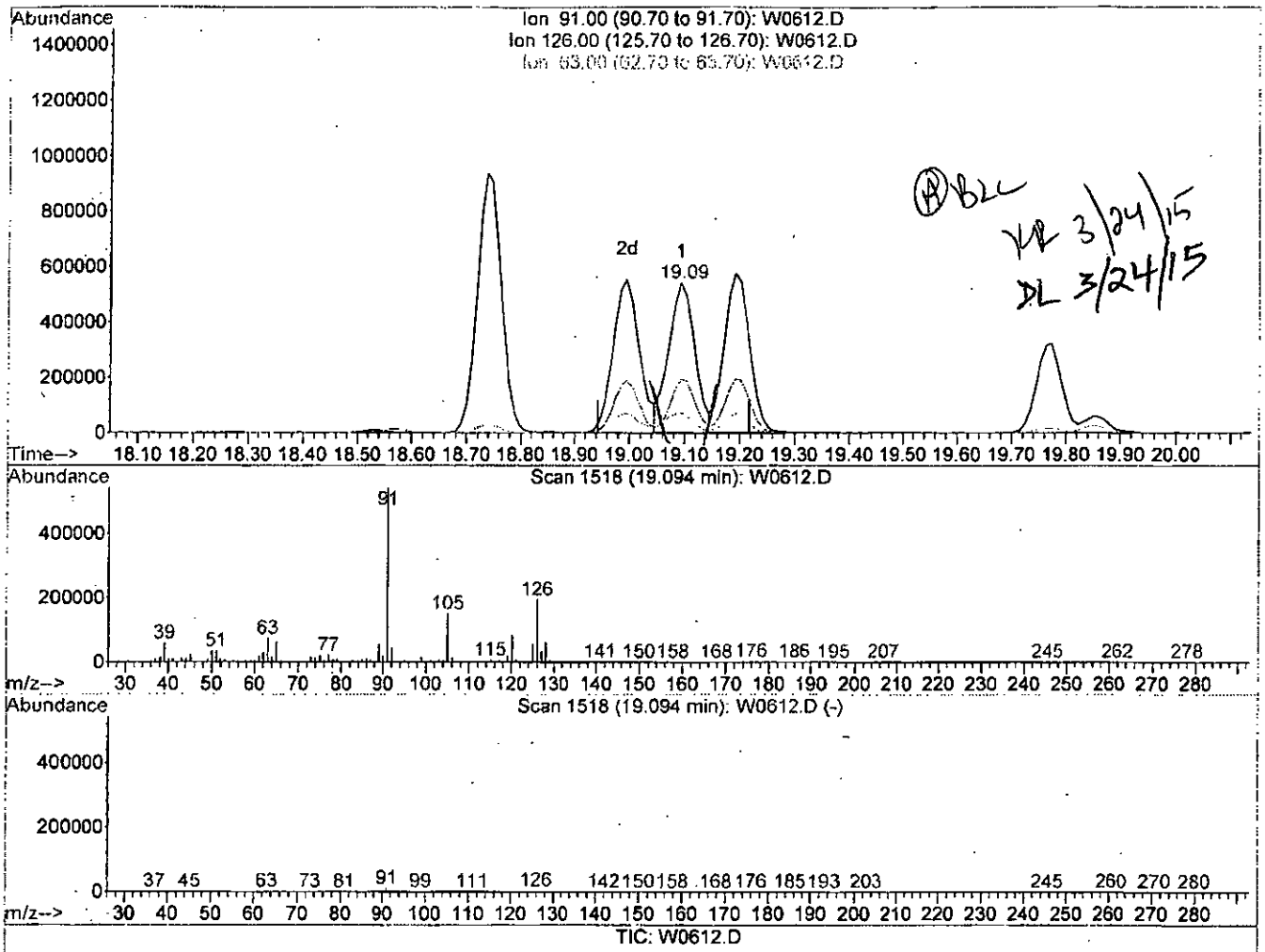
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	35.95#
63.00	12.50	16.41#
0.00	0.00	0.00

W0612.D W032315.M Tue Mar 24 11:05:40 2015

00435

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:05 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Multiple Level Calibration



TIC: W0612.D

(98) 3-Chlorotoluene

19.09min 48.86ppb m

response 1771981

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	27.45
63.00	12.50	12.53
0.00	0.00	0.00

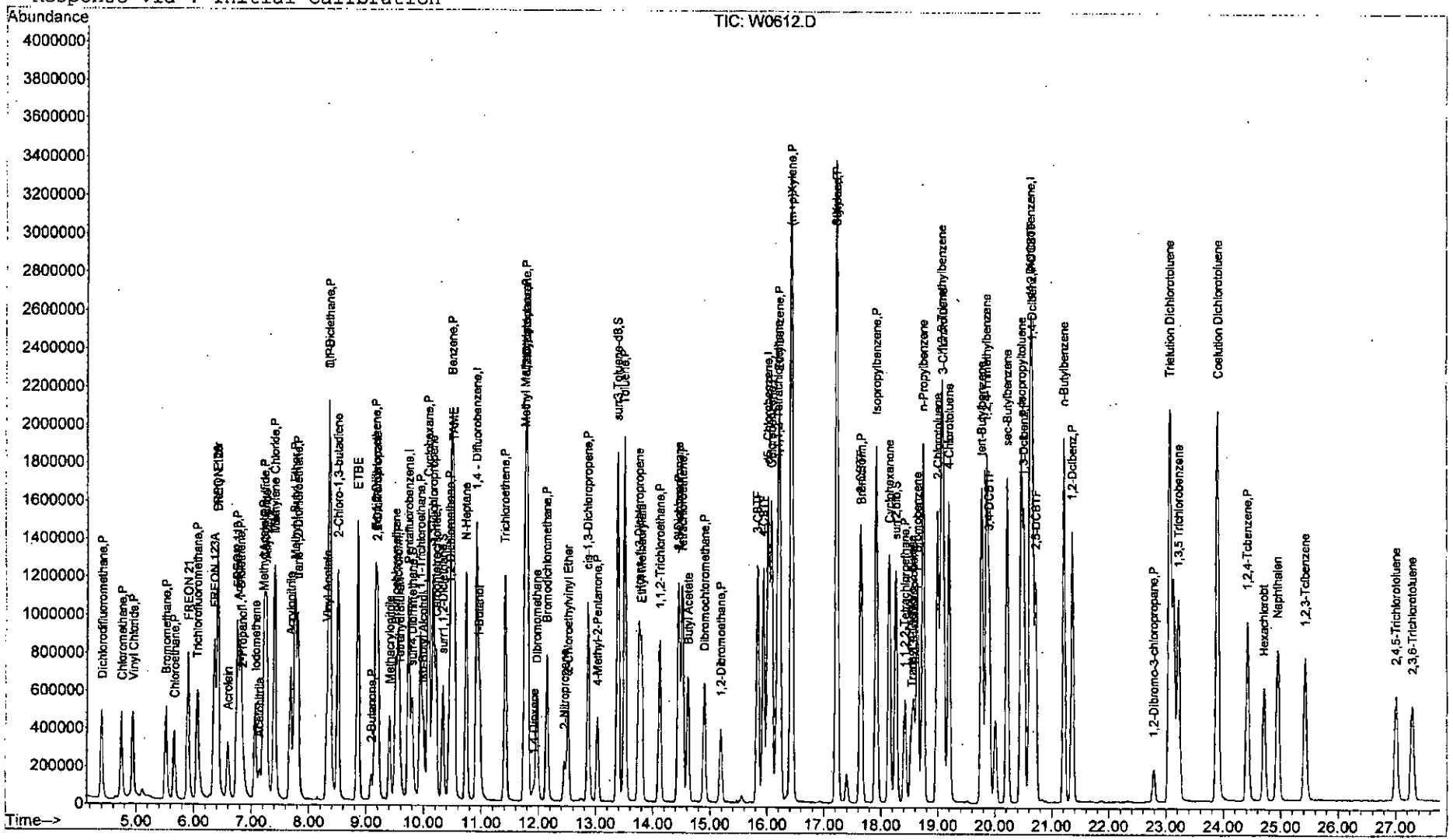
W0612.D W032315.M Tue Mar 24 11:05:47 2015

00436

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0612.D Vial: 16
Acq On : 23 Mar 2015 7:20 pm Operator: K.Ruest
Sample : 50ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:05 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:03:36 2015
Response via : Initial Calibration



W0612.D W032315.M Tue Mar 24 11:06:19 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:27 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	1078868	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1780577	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.02	117	1665715	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.61	152	789706	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	1373784	119.71	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	239.42%#			
48) surr1,1,2-Diclethane	10.34	65	1376241	118.94	ppb		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	237.88%#			
70) surr3,Toluene-d8	13.39	98	4299498	118.88	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	237.76%#			
71) surr2,bfb	18.27	95	1867514	118.95	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	237.90%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.40	85	1418792	104.00	ppb		100
3) Chloromethane	4.73	50	1347034	91.06	ppb		99
4) Vinyl Chloride	4.94	62	1293072	96.39	ppb		97
5) Bromomethane	5.51	96	941506	100.80	ppb		98
6) Chloroethane	5.66	64	936190	93.65	ppb		97
7) FREON 21	5.90	67	2326644	94.78	ppb		98
8) Trichlorofluoromethane	6.05	101	1543551	97.08	ppb		95
9) Diethyl Ether	6.40	59	888969	92.89	ppb		96
10) FREON 123A	6.35	67	1290355m	90.65	ppb		
11) FREON 123	6.42	83	1386081m	92.19	ppb		
12) Acrolein	6.59	56	829944	483.11	ppb		99
13) FREON 113	6.75	101	1061124	97.09	ppb		99
14) 1,1-Diclethene	6.80	96	950501	98.35	ppb		93
15) Acetone	6.77	43	379038	93.87	ppb		99
16) 2-Propanol	6.85	45	1032557	1914.02	ppb		98
17) Iodomethane	7.07	142	1887610	105.66	ppb		98
18) Carbon Disulfide	7.22	76	4540707	101.99	ppb		100
19) Acetonitrile	7.14	41	532485	517.57	ppb		95
20) Allyl Chloride	7.26	41	2064240	97.49	ppb		97
21) Methyl Acetate	7.20	43	707567	91.80	ppb		95
22) Methylene Chloride	7.40	84	1104437	89.21	ppb		99
23) TBA	7.39	59	1551141	1920.89	ppb		99
24) Acrylonitrile	7.68	53	1644506	477.71	ppb		99
25) Methyl-t-Butyl Ether	7.76	73	2798556	95.34	ppb		99
26) trans-1,2-Dichloroethene	7.81	96	1059591	92.35	ppb		98
28) 1,1-Diclethane	8.37	63	1927084	94.07	ppb		98
29) Vinyl Acetate	8.31	86	180666	111.53	ppb	#	95
30) DIPE	8.35	45	4508247	94.77	ppb		99
31) 2-Chloro-1,3-butadiene	8.51	53	2253158	99.89	ppb		100
32) ETBE	8.85	59	3913829	98.86	ppb		99
33) 2,2-Dichloropropane	9.20	77	1522440	90.70	ppb		98
34) 2-Butanone	9.09	43	508061	96.54	ppb		92
35) cis-1,2-Dichloroethene	9.16	96	1149477	94.54	ppb		97
36) Propionitrile	9.17	54	544717	449.31	ppb		95
37) Methacrylonitrile	9.41	67	370505	92.70	ppb	#	85

(#) = qualifier out of range (m) = manual integration
W0613.D W032315.M Tue Mar 24 11:27:16 2015

KL 3/24/15

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:27 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Bromochloromethane	9.51	128	579191	91.38	ppb	98
39)	Chloroform	9.56	83	1860423	92.95	ppb	96
40)	Tetrahydrofuran	9.59	42	256809	90.86	ppb	97
41)	1,1,1-Trichloroethane	9.95	97	1580375	98.29	ppb	97
43)	Cyclohexane	10.09	56	2041872	94.69	ppb	96
45)	Carbontetrachloride	10.21	117	1341736	95.41	ppb	97
46)	1,1-Dichloropropene	10.16	75	1507887	93.92	ppb	100
47)	Iso-Butyl Alcohol	10.00	43	759505	1847.31	ppb	99
49)	Benzene	10.49	78	4237338	91.54	ppb	99
50)	1,2-Dichloroethane	10.45	62	1392295	94.23	ppb	99
51)	TAME	10.53	73	3075936	97.63	ppb	99
52)	N-Heptane	10.74	43	1545168	93.63	ppb	99
53)	1-Butanol	10.97	56	1169139	5348.74	ppb	98
54)	Trichloroethene	11.42	95	1128584	95.82	ppb	98
55)	Methylcyclohexane	11.80	55	1544052	90.54	ppb	97
56)	1,2-Diclpropane	11.78	63	1165895	90.68	ppb	99
57)	Methyl Methacrylate	11.76	100	258630	98.05	ppb	100
58)	1,4-Dioxane	11.91	88	150171	1923.06	ppb	97
59)	Dibromomethane	11.98	93	626330	95.08	ppb	90
60)	Bromodichloromethane	12.15	83	1535715	98.93	ppb	98
61)	2-Nitropropane	12.46	43	504955	209.02	ppb	99
62)	2-Chloroethylvinyl Ether	12.52	63	702823	102.48	ppb	99
63)	cis-1,3-Dichloropropene	12.86	75	1869226	97.94	ppb	99
65)	4-Methyl-2-Pentanone	13.03	43	1048485	103.18	ppb	99
66)	Toluene	13.51	91	4210055	93.65	ppb	98
67)	trans-1,3-Dichloropropene	13.76	75	1597381	99.21	ppb	99
68)	Ethyl Methacrylate	13.80	69	1263313	97.03	ppb	97
69)	1,1,2-Trichloroethane	14.13	83	782061	93.63	ppb	98
72)	Tetrachloroethene	14.52	166	1177718	95.29	ppb	98
73)	2-Hexanone	14.46	43	680903	100.58	ppb	93
74)	1,3-Dichloropropane	14.45	76	1646149	93.70	ppb	96
75)	Butyl Acetate	14.62	43	1622902	96.47	ppb	99
76)	Dibromochloromethane	14.90	129	1173197	97.95	ppb	96
77)	1,2-Dibromoethane	15.19	107	924196	98.31	ppb	95
78)	Chlorobenzene	16.08	112	2891305	97.30	ppb	98
79)	3-CBTF	15.84	180	1692039	100.95	ppb	99
80)	4-CBTF	15.94	180	1532027	101.08	ppb	99
81)	1,1,1,2-Tetrachloroethane	16.19	131	1082048	97.43	ppb	95
82)	Ethylbenzene	16.23	91	4692999	93.42	ppb	99
83)	(m+p)Xylene	16.43	106	3438863	184.72	ppb	95
84)	o-Xylene	17.22	106	1707405	92.56	ppb	98
85)	Styrene	17.23	104	3003866	93.76	ppb	97
86)	Bromoform	17.65	173	671065	104.44	ppb	99
87)	2-CBTF	17.64	180	1609753	100.73	ppb	99
88)	Isopropylbenzene	17.92	105	4407127	94.76	ppb	99
89)	Cyclohexanone	18.15	55	1934591	1754.85	ppb	99
91)	1,1,2,2-Tetrachloroethane	18.42	83	1051942	101.97	ppb	100
92)	Trans-1,4-Dichloro-2-buten	18.53	53	281827	112.86	ppb	98
93)	1,2,3-Trichloropropane	18.58	110	297323	91.90	ppb	95
94)	n-Propylbenzene	18.74	91	5256585	95.78	ppb	99

(#) = qualifier out of range (m) = manual integration
W0613.D W032315.M Tue Mar 24 11:27:17 2015 Page 2

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:27 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

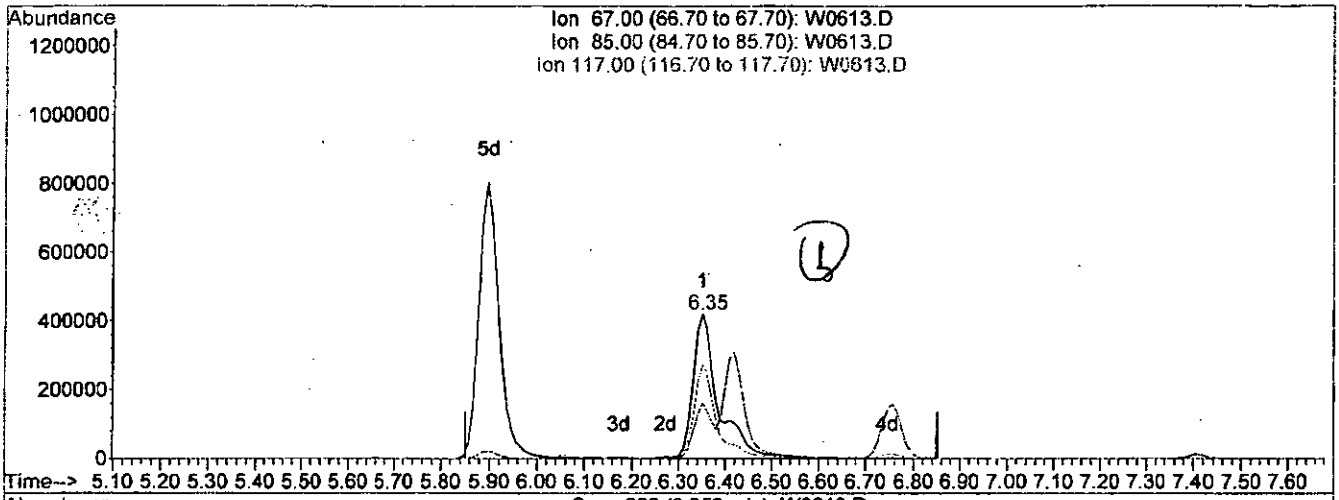
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Bromobenzene	18.65	156	1166966	97.34	ppb	98
96)	1,3,5-Trimethylbenzene	19.06	105	3384097	94.86	ppb	98
97)	2-Chlorotoluene	18.99	91	3334685	95.85	ppb	100
98)	3-Chlorotoluene	19.09	91	3509919m	100.61	ppb	
99)	4-Chlorotoluene	19.19	91	3432614	97.52	ppb	100
100)	tert-Butylbenzene	19.77	119	2991236	94.91	ppb	99
101)	1,2,4-Trimethylbenzene	19.85	105	3475680	95.64	ppb	100
102)	3,4-DCBTF	19.90	214	1162990	102.68	ppb	98
103)	sec-Butylbenzene	20.22	105	4282036	96.33	ppb	99
104)	p-Isopropyltoluene	20.46	119	3548212	96.31	ppb	98
105)	1,3-Dclbenz	20.51	146	2122162	95.99	ppb	98
106)	1,4-Dclbenz	20.66	146	2099269	94.58	ppb	98
107)	2,4-DCBTF	20.64	214	1019843	105.65	ppb	97
108)	2,5-DCBTF	20.72	214	1162691	103.56	ppb	99
109)	n-Butylbenzene	21.21	91	3344794	96.64	ppb	96
110)	1,2-Dclbenz	21.36	146	2042917	97.21	ppb	98
111)	1,2-Dibromo-3-chloropropan	22.79	157	208745	93.66	ppb	95
112)	Trielution Dichlorotoluene	23.07	125	5349090	310.72	ppb	100
114)	1,3,5 Trichlorobenzene	23.22	180	1466970	102.83	ppb	98
115)	Coelution Dichlorotoluene	23.90	125	3727219	209.29	ppb	99
116)	1,2,4-Tcbenzene	24.42	180	1263300	100.46	ppb	98
117)	Hexachlorobt	24.72	225	507582	99.78	ppb	97
118)	Naphthalen	24.95	128	2717216	100.90	ppb	100
119)	1,2,3-Tclbenzene	25.43	180	1078393	101.79	ppb	97
120)	2,4,5-Trichlorotoluene	27.01	159	722271	104.45	ppb	100
121)	2,3,6-Trichlorotoluene	27.29	159	620579	106.67	ppb	99

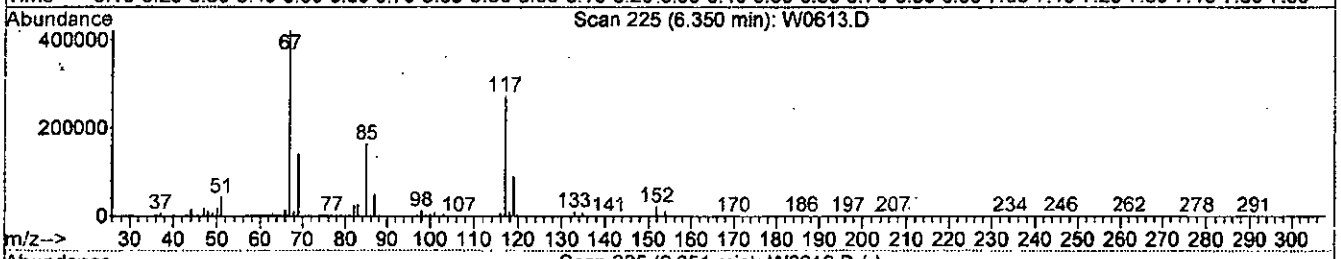
(#) = qualifier out of range (m) = manual integration
W0613.D W032315.M Tue Mar 24 11:27:17 2015 Page 3

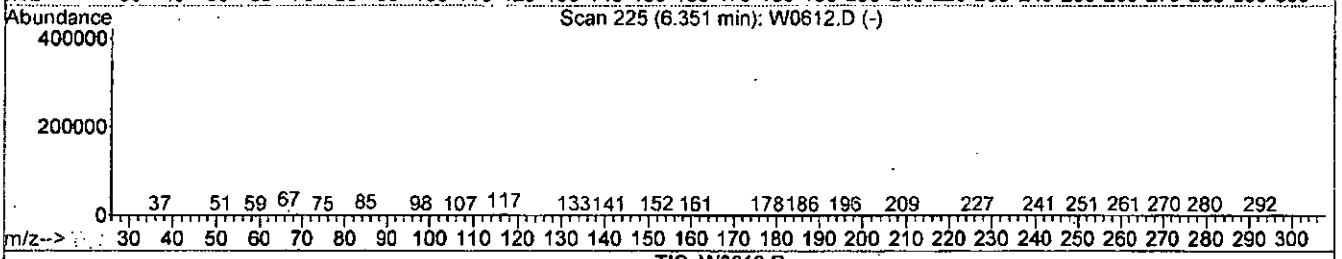
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:07 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:06:40 2015
Response via : Multiple Level Calibration







TIC: W0613.D

(10) FREON 123A

6.35min 114.08ppb

response 1623823

Ion	Exp%	Act%
67.00	100	100
85.00	36.30	38.81
117.00	65.00	64.70
0.00	0.00	0.00

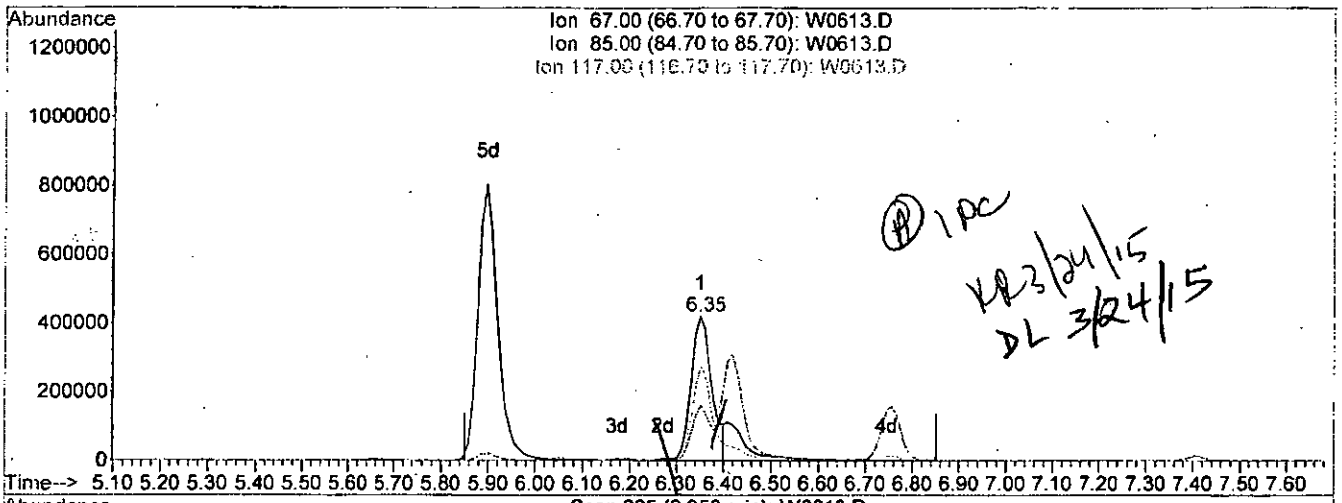
W0613.D W032315.M Tue Mar 24 11:25:24 2015

00441

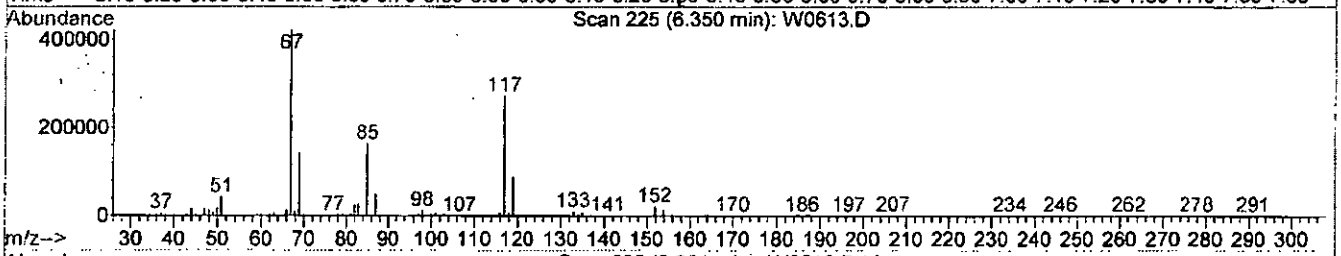
Quantitation Report (Qedit)

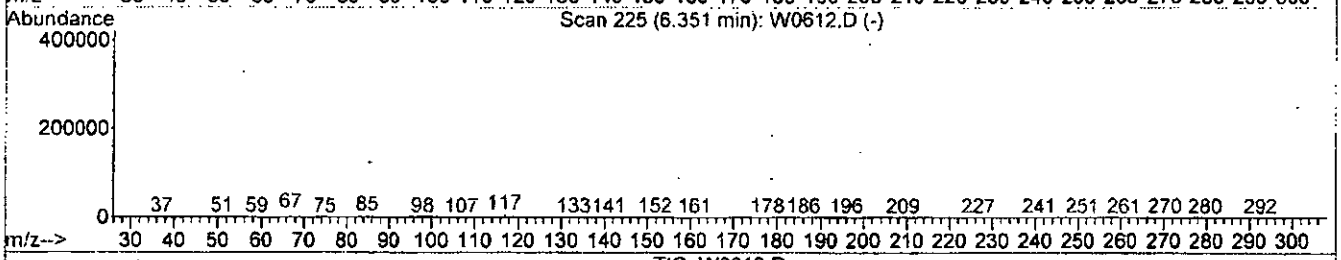
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:25 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:06:40 2015
Response via : Multiple Level Calibration



1pc
KR 3/24/15
DL 3/24/15





TIC: W0613.D

(10) FREON 123A

6.35min 90.65ppb m

response 1290355

Ion	Exp%	Act%
67.00	100	100
85.00	36.30	38.81
117.00	65.00	64.70
0.00	0.00	0.00

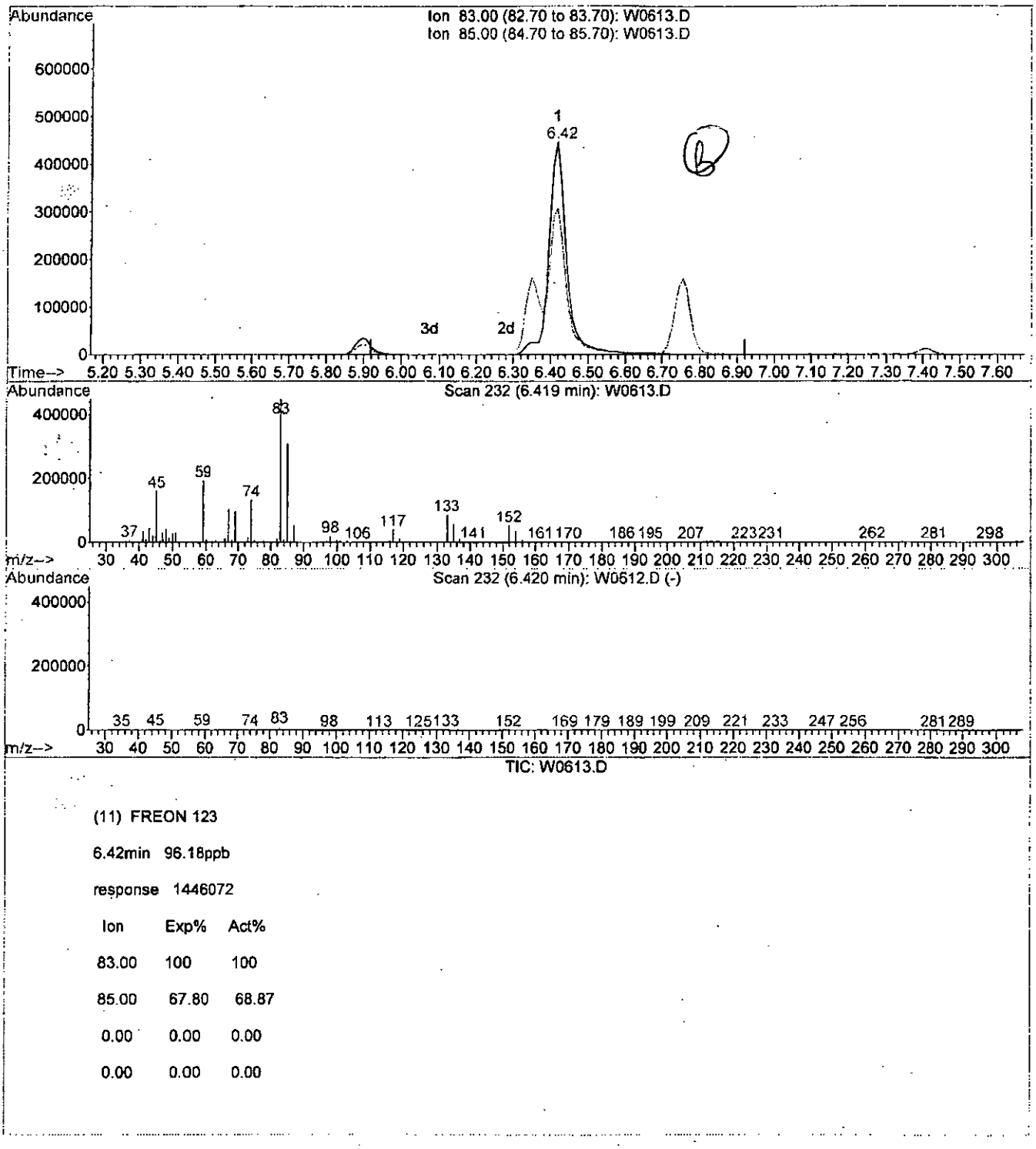
W0613.D W032315.M Tue Mar 24 11:25:32 2015

00442

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:25 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:06:40 2015
Response via : Multiple Level Calibration



(11) FREON 123

6.42min 96.18ppb

response 1446072

Ion	Exp%	Act%
83.00	100	100
85.00	67.80	68.87
0.00	0.00	0.00
0.00	0.00	0.00

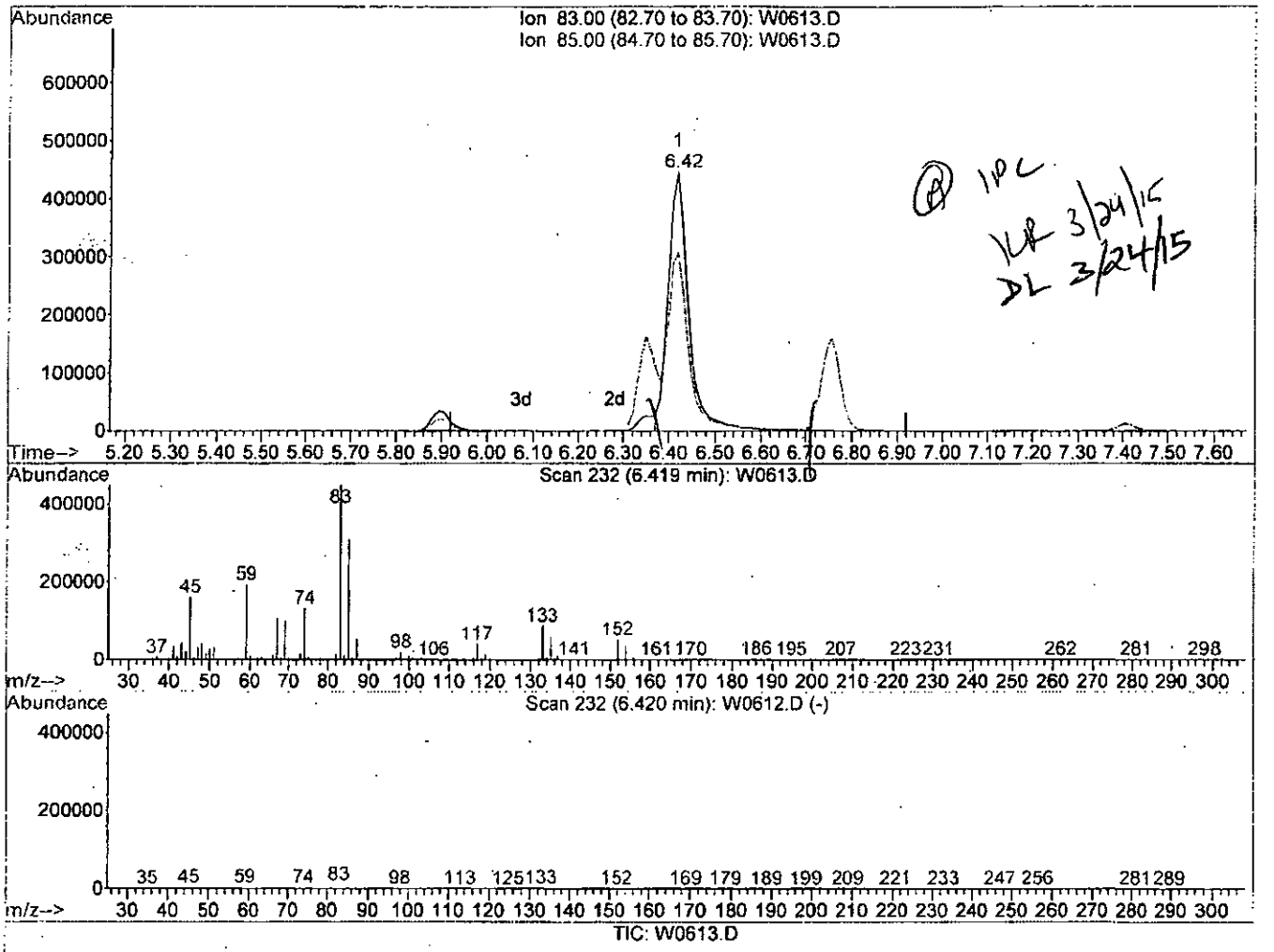
W0613.D W032315.M Tue Mar 24 11:25:38 2015

00443

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:25 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:06:40 2015
Response via : Multiple Level Calibration



TIC: W0613.D

(11) FREON 123

6.42min 92.19ppb m

response 1386081

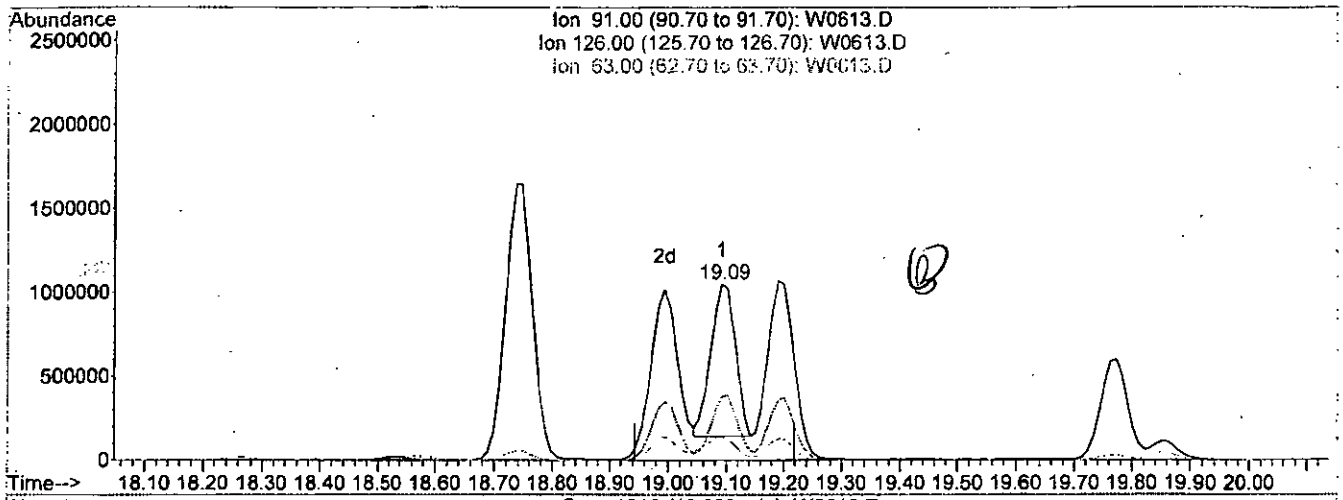
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	68.87
0.00	0.00	0.00
0.00	0.00	0.00

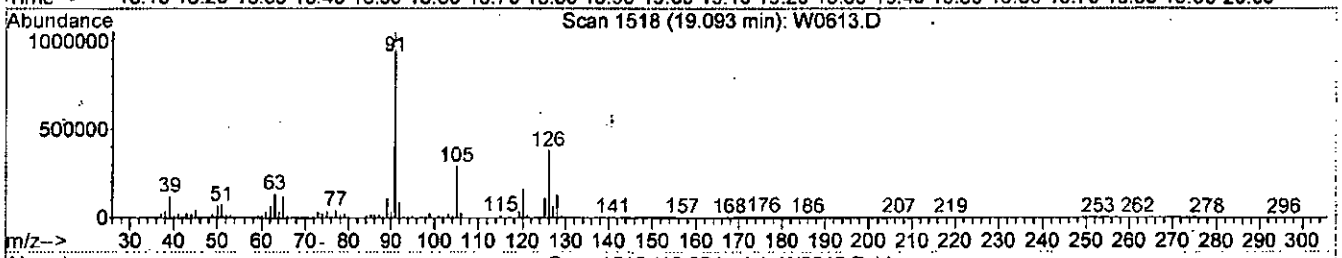
W0613.D W032315.M Tue Mar 24 11:25:46 2015

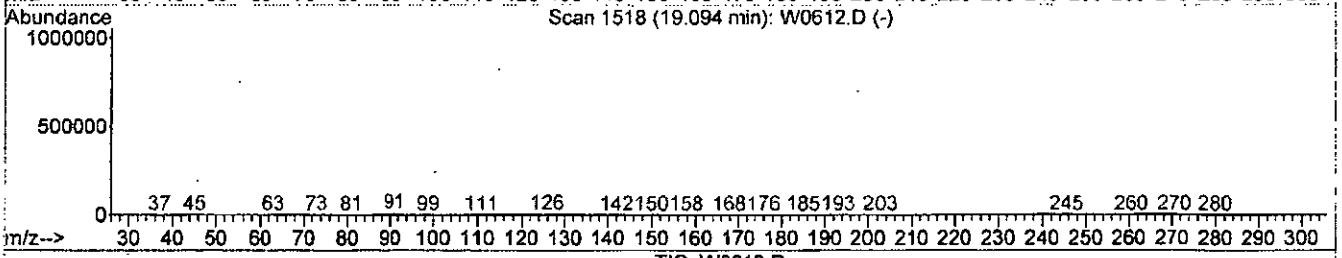
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:25 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:06:40 2015
Response via : Multiple Level Calibration







TIC: W0613.D

(98) 3-Chlorotoluene

19.09min 76.65ppb

response 2673963

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	38.21#
63.00	12.50	15.60#
0.00	0.00	0.00

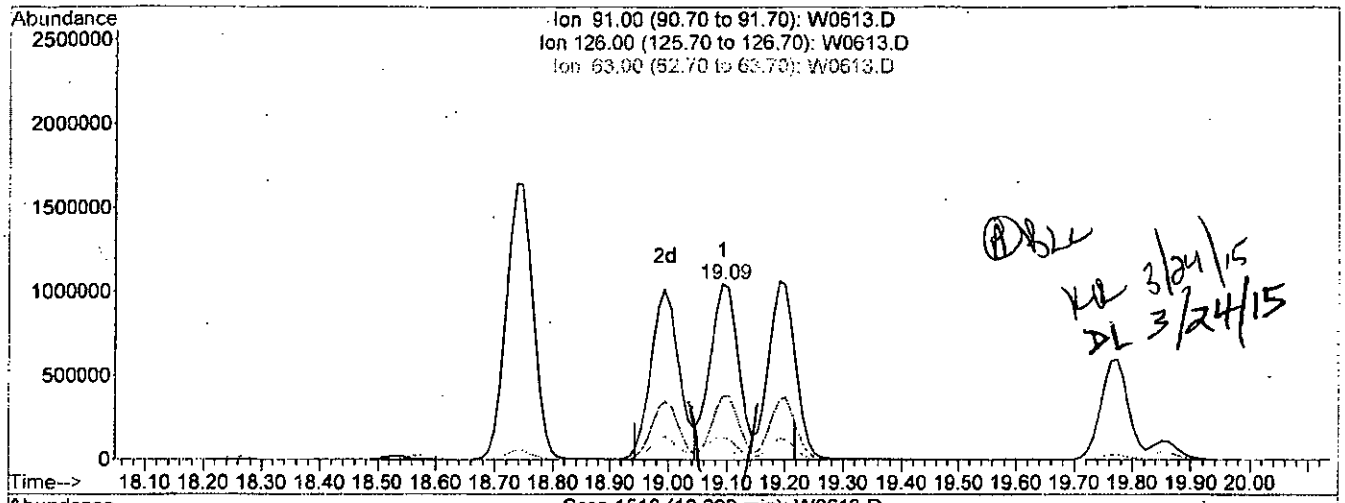
W0613.D W032315.M Tue Mar 24 11:26:41 2015

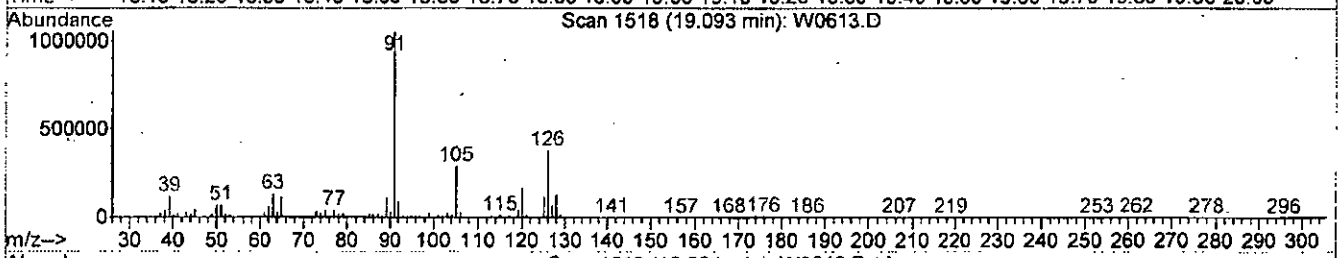
00445

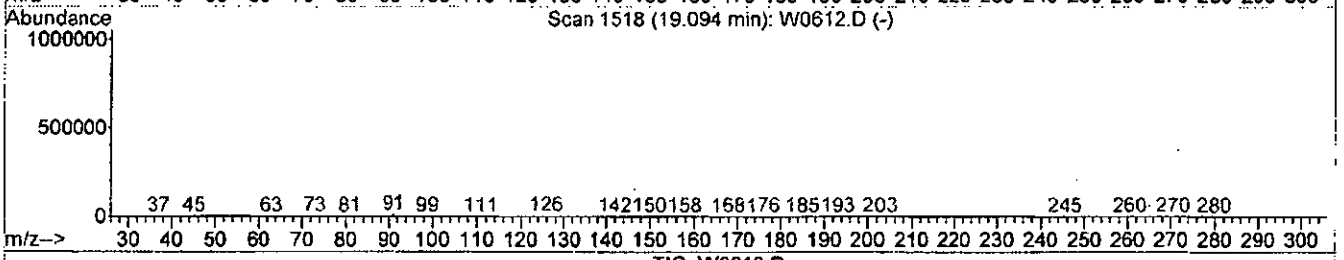
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:26 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:06:40 2015
Response via : Multiple Level Calibration







TIC: W0613.D

(98) 3-Chlorotoluene

19.09min 100.61ppb m

response 3509919

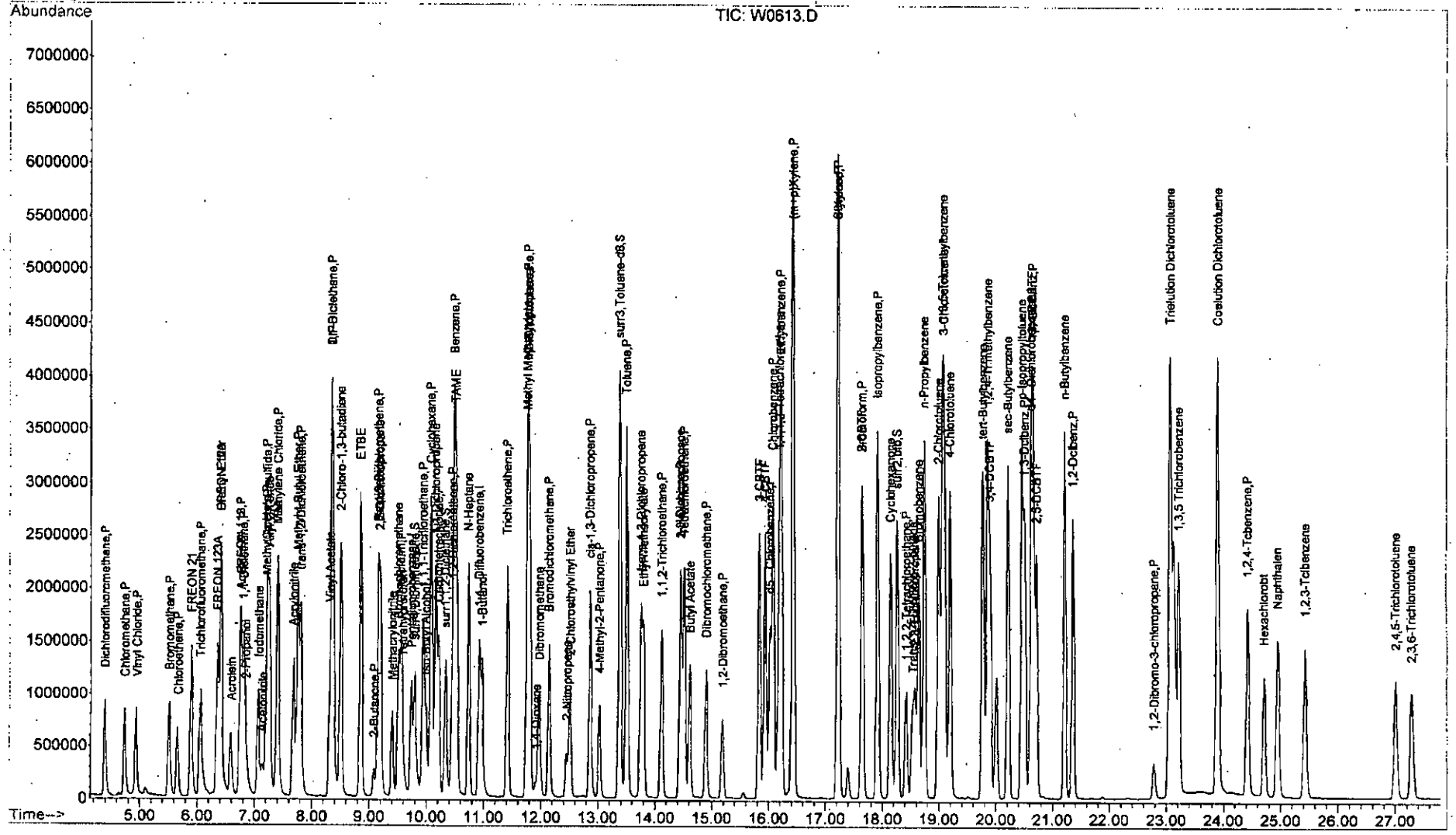
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	29.11
63.00	12.50	11.88
0.00	0.00	0.00

W0613.D W032315.M Tue Mar 24 11:26:49 2015

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0613.D Vial: 17
Acq On : 23 Mar 2015 7:55 pm Operator: K.Ruest
Sample : 100ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:27 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:06:40 2015
Response via : Initial Calibration



W0613.D W032315.M Tue Mar 24 11:27:21 2015 Page 4

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:30 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.74	168	1069759	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	10.93	114	1763189	50.00	ppb	0.00
64) d5 - Chlorobenzene	16.02	117	1658171	50.00	ppb	0.00
90) d4 - Dichlorobenzene	20.62	152	769050	50.00	ppb	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.80	113	1622126	142.74	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	285.48%#		
48) surr1,1,2-Diclethane	10.34	65	1598406	139.50	ppb	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	279.00%#		
70) surr3,Toluene-d8	13.39	98	5026911	139.63	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	279.26%#		
71) surr2,bfb	18.26	95	2171255	138.93	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	277.86%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.39	85	2135394	157.86	ppb	100
3) Chloromethane	4.74	50	2062522	140.61	ppb	99
4) Vinyl Chloride	4.94	62	1930081	145.10	ppb	99
5) Bromomethane	5.51	96	1417089	153.01	ppb	97
6) Chloroethane	5.66	64	1411422	142.39	ppb	96
7) FREON 21	5.89	67	3484745	143.17	ppb	97
8) Trichlorofluoromethane	6.06	101	2286347	145.02	ppb	96
9) Diethyl Ether	6.40	59	1304042	137.43	ppb	96
10) FREON 123A	6.35	67	1825473m	129.34	ppb	
11) FREON 123	6.41	83	2081958m	139.65	ppb	
12) Acrolein	6.59	56	1159004	680.40	ppb	98
13) FREON 113	6.75	101	1531000	141.27	ppb	97
14) 1,1-Diclethene	6.81	96	1364457	142.39	ppb	93
15) Acetone	6.78	43	510921	127.61	ppb	100
16) 2-Propanol	6.85	45	1495781	2796.29	ppb	99
17) Iodomethane	7.07	142	2673632	150.93	ppb	98
18) Carbon Disulfide	7.22	76	6311142	142.96	ppb	99
19) Acetonitrile	7.14	41	763077	748.02	ppb	95
20) Allyl Chloride	7.26	41	2846367	135.57	ppb	89
21) Methyl Acetate	7.20	43	1030063	134.78	ppb	94
22) Methylene Chloride	7.41	84	1653422	134.69	ppb	98
23) TBA	7.39	59	2281007	2848.79	ppb	100
24) Acrylonitrile	7.68	53	2447906	717.14	ppb	99
25) Methyl-t-Butyl Ether	7.76	73	4135903	142.10	ppb	99
26) trans-1,2-Dichloroethene	7.80	96	1605604	141.13	ppb	99
28) 1,1-Diclethane	8.38	63	2858767	140.74	ppb	97
29) Vinyl Acetate	8.32	86	250095	155.70	ppb #	89
30) DIPE	8.36	45	6425459	136.22	ppb	98
31) 2-Chloro-1,3-butadiene	8.50	53	3214341	143.71	ppb	98
32) ETBE	8.86	59	5616398	143.07	ppb	98
33) 2,2-Dichloropropane	9.20	77	2239788	134.57	ppb	98
34) 2-Butanone	9.09	43	738821	141.58	ppb	94
35) cis-1,2-Dichloroethene	9.16	96	1753416	145.45	ppb	98
36) Propionitrile	9.16	54	802580	667.64	ppb	96
37) Methacrylonitrile	9.41	67	557973	140.79	ppb	88

(#) = qualifier out of range (m) = manual integration
W0614.D W032315.M Tue Mar 24 11:30:32 2015 Page 1

KR 3/24/15

00448

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:30 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Bromochloromethane	9.52	128	873572	139.00	ppb	97
39) Chloroform	9.56	83	2770148	139.58	ppb	97
40) Tetrahydrofuran	9.59	42	385137	137.43	ppb	99
41) 1,1,1-Trichloroethane	9.94	97	2350486	147.43	ppb	96
43) Cyclohexane	10.08	56	3060320	143.32	ppb	96
45) Carbontetrachloride	10.22	117	1998290	143.50	ppb	100
46) 1,1-Dichloropropene	10.16	75	2238873	140.82	ppb	98
47) Iso-Butyl Alcohol	10.00	43	1160421	2850.27	ppb	99
49) Benzene	10.49	78	6191683	135.08	ppb	99
50) 1,2-Dichloroethane	10.46	62	2056738	140.57	ppb	99
51) TAME	10.52	73	4431962	142.06	ppb	99
52) N-Heptane	10.74	43	2279777	139.50	ppb	99
53) 1-Butanol	10.98	56	1697369	7841.93	ppb	98
54) Trichloroethene	11.42	95	1687356	144.67	ppb	96
55) Methylcyclohexane	11.81	55	2271667	134.53	ppb	94
56) 1,2-Diclpropane	11.78	63	1712355	134.50	ppb	98
57) Methyl Methacrylate	11.76	100	390243	149.40	ppb	96
58) 1,4-Dioxane	11.91	88	214998	2780.37	ppb	93
59) Dibromomethane	11.97	93	932810	143.00	ppb	94
60) Bromodichloromethane	12.15	83	2308501	150.19	ppb	99
61) 2-Nitropropane	12.46	43	832329	347.94	ppb	99
62) 2-Chloroethylvinyl Ether	12.52	63	989349	145.69	ppb	98
63) cis-1,3-Dichloropropene	12.87	75	2797069	148.00	ppb	98
65) 4-Methyl-2-Pentanone	13.04	43	1497970	148.09	ppb	99
66) Toluene	13.51	91	6161029	137.67	ppb	94
67) trans-1,3-Dichloropropene	13.76	75	2359671	147.21	ppb	98
68) Ethyl Methacrylate	13.81	69	1849456	142.69	ppb	99
69) 1,1,2-Trichloroethane	14.12	83	1162299	139.78	ppb	99
72) Tetrachloroethene	14.52	166	1760986	143.13	ppb	98
73) 2-Hexanone	14.46	43	980362	145.48	ppb	95
74) 1,3-Dichloropropane	14.45	76	2467498	141.09	ppb	96
75) Butyl Acetate	14.61	43	2407034	143.73	ppb	99
76) Dibromochloromethane	14.90	129	1762557	147.83	ppb	99
77) 1,2-Dibromoethane	15.19	107	1400861	149.69	ppb	96
78) Chlorobenzene	16.08	112	4266842	144.24	ppb	98
79) 3-CBTF	15.84	180	2375361	142.36	ppb	98
80) 4-CBTF	15.94	180	2156227	142.91	ppb	99
81) 1,1,1,2-Tetrachloroethane	16.18	131	1624603	146.95	ppb	96
82) Ethylbenzene	16.22	91	6794441	135.87	ppb	97
83) (m+p)Xylene	16.43	106	5046687	272.32	ppb	93
84) o-Xylene	17.23	106	2522518	137.38	ppb	96
85) Styrene	17.23	104	4320899	135.49	ppb	92
86) Bromoform	17.66	173	988444	154.54	ppb	98
87) 2-CBTF	17.65	180	2257776	141.93	ppb	99
88) Isopropylbenzene	17.93	105	6393053	138.08	ppb	96
89) Cyclohexanone	18.15	55	2830504	2579.21	ppb	98
91) 1,1,2,2-Tetrachloroethane	18.42	83	1565508	155.83	ppb	98
92) Trans-1,4-Dichloro-2-buten	18.54	53	423304	174.07	ppb	87
93) 1,2,3-Trichloropropane	18.58	110	442828	140.55	ppb	96
94) n-Propylbenzene	18.74	91	7676772	143.64	ppb	97

(#) = qualifier out of range (m) = manual integration
W0614.D W032315.M Tue Mar 24 11:30:33 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:30 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

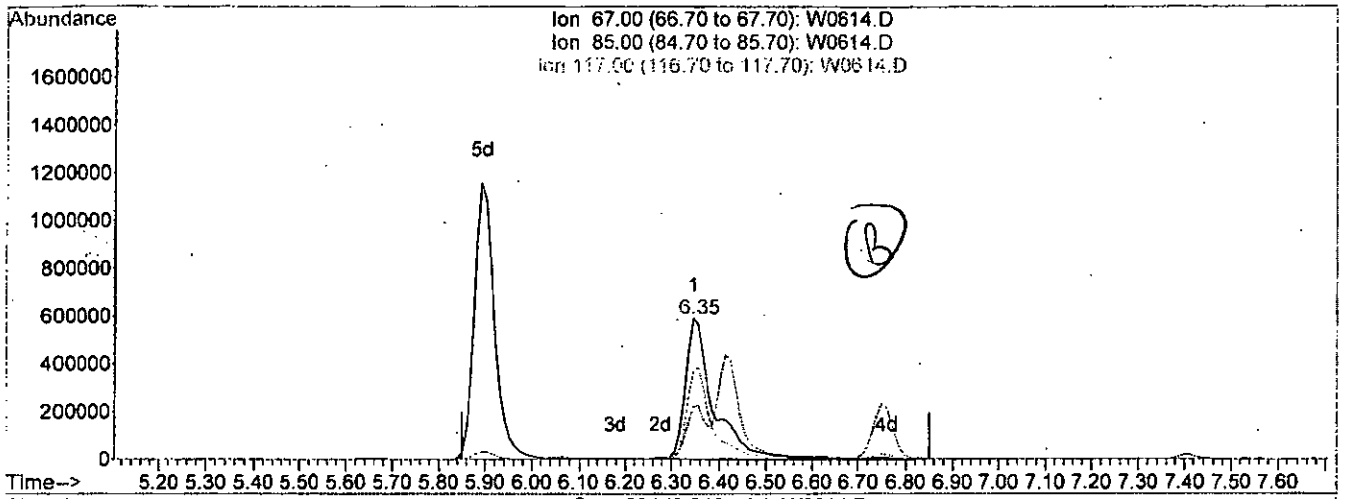
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Bromobenzene	18.64	156	1730230	148.21 ppb	94
96)	1,3,5-Trimethylbenzene	19.06	105	4873544	140.28 ppb	98
97)	2-Chlorotoluene	19.00	91	4801519	141.72 ppb	99
98)	3-Chlorotoluene	19.10	91	4875529m	143.51 ppb	
99)	4-Chlorotoluene	19.20	91	5000959	145.89 ppb	99
100)	tert-Butylbenzene	19.77	119	4458656	145.27 ppb	99
101)	1,2,4-Trimethylbenzene	19.86	105	5119149	144.65 ppb	98
102)	3,4-DCBTF	19.91	214	1633142	148.06 ppb	98
103)	sec-Butylbenzene	20.22	105	6268104	144.80 ppb	96
104)	p-Isopropyltoluene	20.46	119	5187061	144.58 ppb	98
105)	1,3-Dclbenz	20.51	146	3149442	146.28 ppb	97
106)	1,4-Dclbenz	20.67	146	3061339	141.63 ppb	96
107)	2,4-DCBTF	20.64	214	1413576	150.37 ppb	97
108)	2,5-DCBTF	20.72	214	1663404	152.14 ppb	99
109)	n-Butylbenzene	21.22	91	4794591	142.24 ppb	94
110)	1,2-Dclbenz	21.37	146	3052910	149.17 ppb	98
111)	1,2-Dibromo-3-chloropropan	22.79	157	317702	146.37 ppb	94
112)	Trielution Dichlorotoluene	23.07	125	7474080	445.82 ppb	99
114)	1,3,5 Trichlorobenzene	23.22	180	2087962	150.30 ppb	98
115)	Coelution Dichlorotoluene	23.90	125	5269280	303.82 ppb	98
116)	1,2,4-Tcbenzene	24.43	180	1918112	156.62 ppb	100
117)	Hexachlorobt	24.72	225	766829	154.80 ppb	99
118)	Naphthalen	24.95	128	4085560	155.78 ppb	99
119)	1,2,3-Tclbenzene	25.43	180	1633857	158.37 ppb	97
120)	2,4,5-Trichlorotoluene	27.00	159	1017940	151.16 ppb	100
121)	2,3,6-Trichlorotoluene	27.29	159	876166	154.65 ppb	99

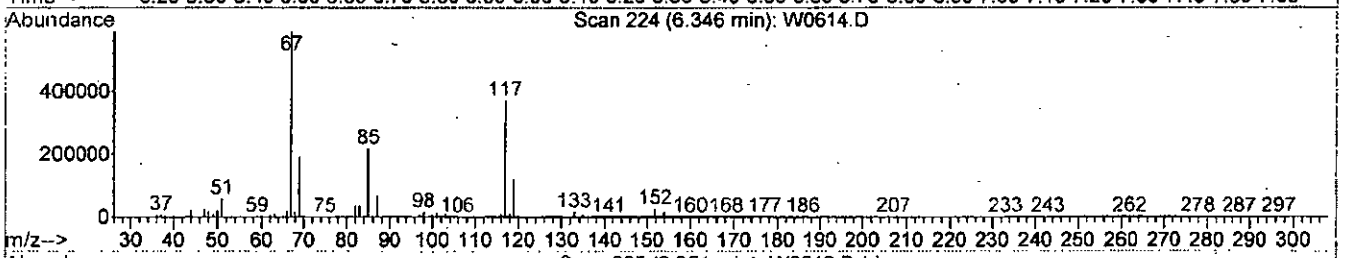
(#) = qualifier out of range (m) = manual integration
W0614.D W032315.M Tue Mar 24 11:30:34 2015

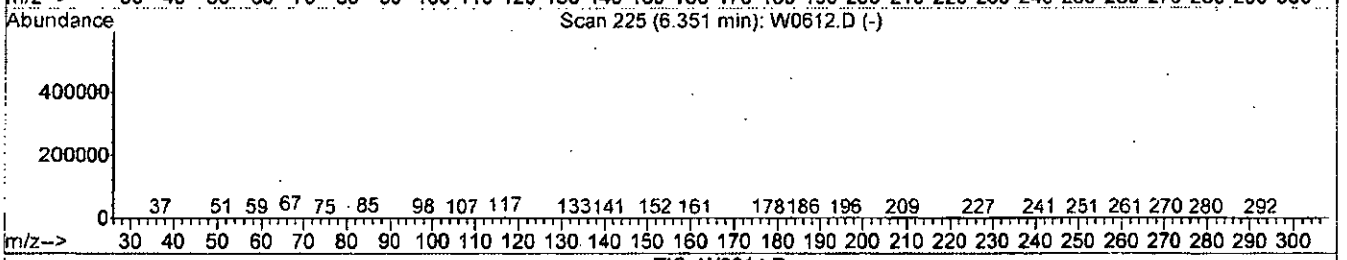
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:07 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:27:31 2015
Response via : Multiple Level Calibration







TIC: W0614.D

(10) FREON 123A

6.35min 169.58ppb

response 2393528

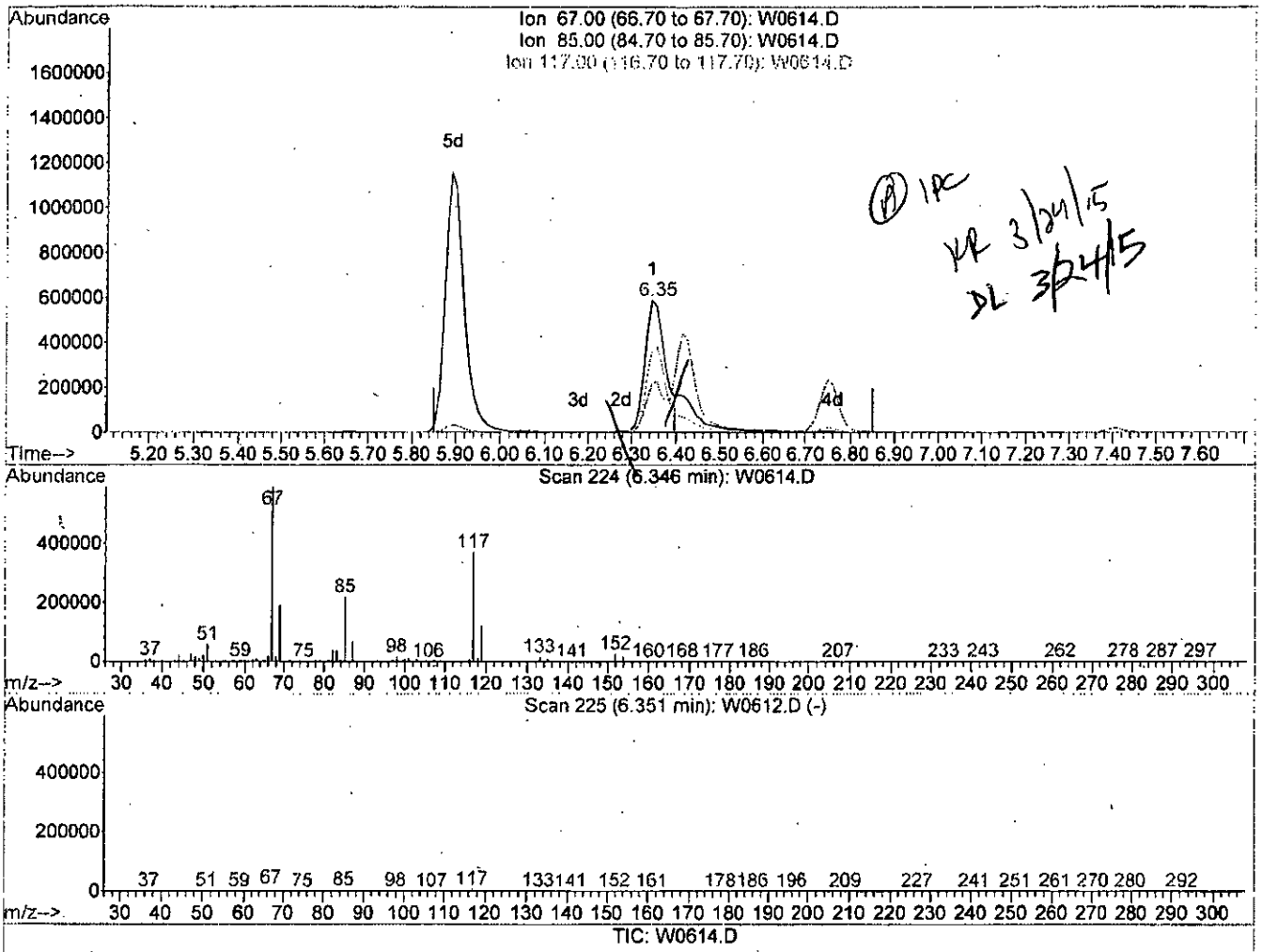
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	36.96
117.00	65.00	62.89
0.00	0.00	0.00

W0614.D W032315.M Tue Mar 24 11:28:39 2015

00451

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:28 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:27:31 2015
Response via : Multiple Level Calibration



(10) FREON 123A

6.35min 129.34ppb m

response 1825473

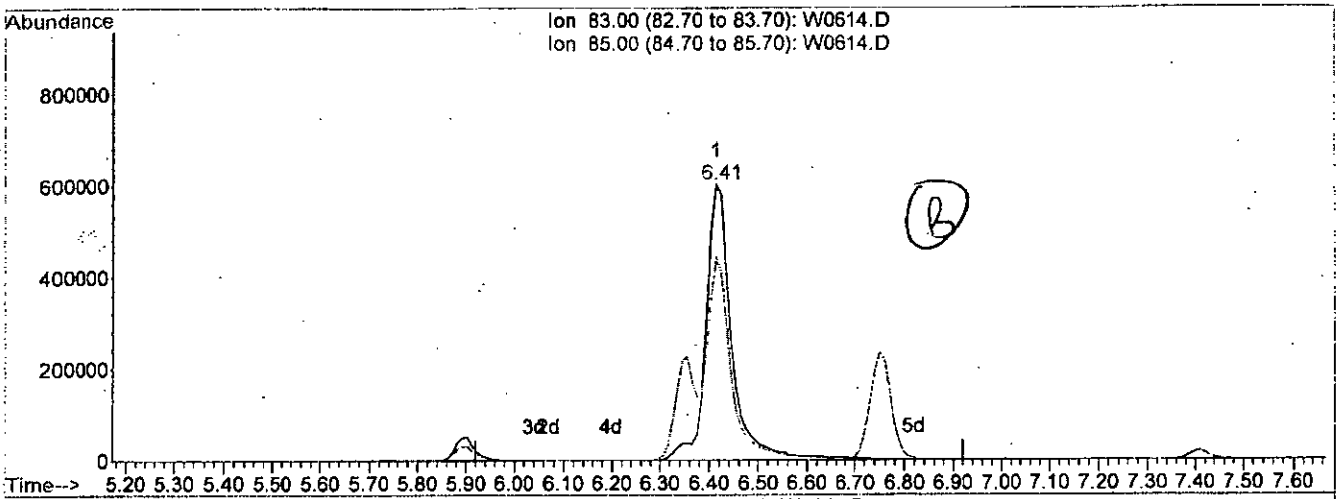
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	36.96
117.00	65.00	62.89
0.00	0.00	0.00

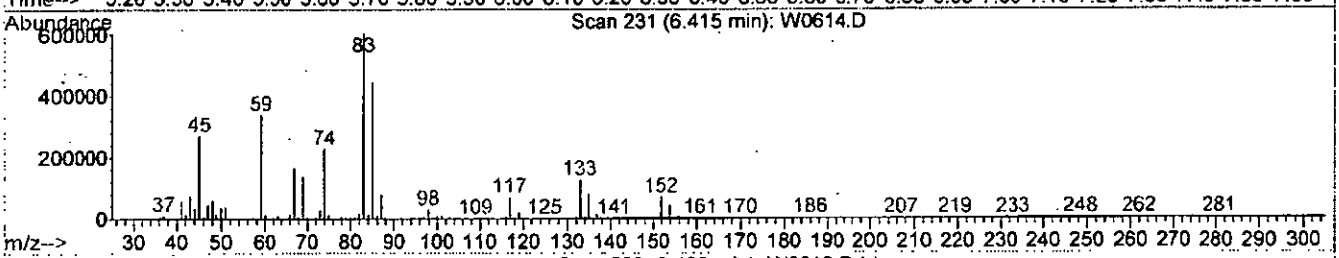
W0614.D W032315.M Tue Mar 24 11:28:49 2015

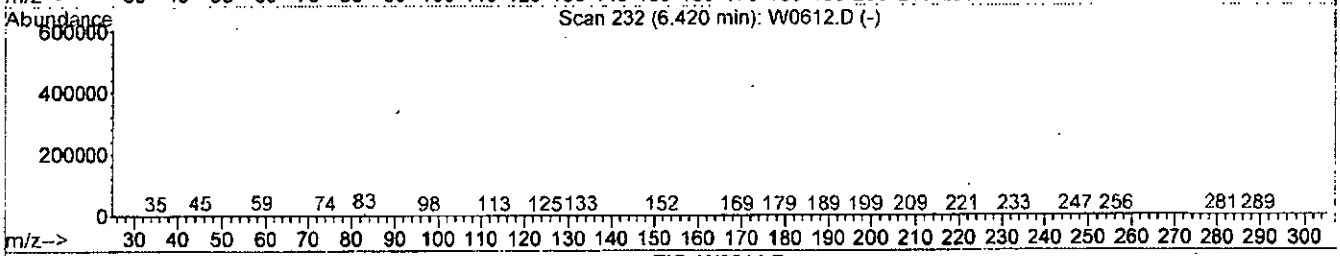
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:28 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:27:31 2015
Response via : Multiple Level Calibration







TIC: W0614.D

(11) FREON 123

6.41min 145.23ppb

response 2165223

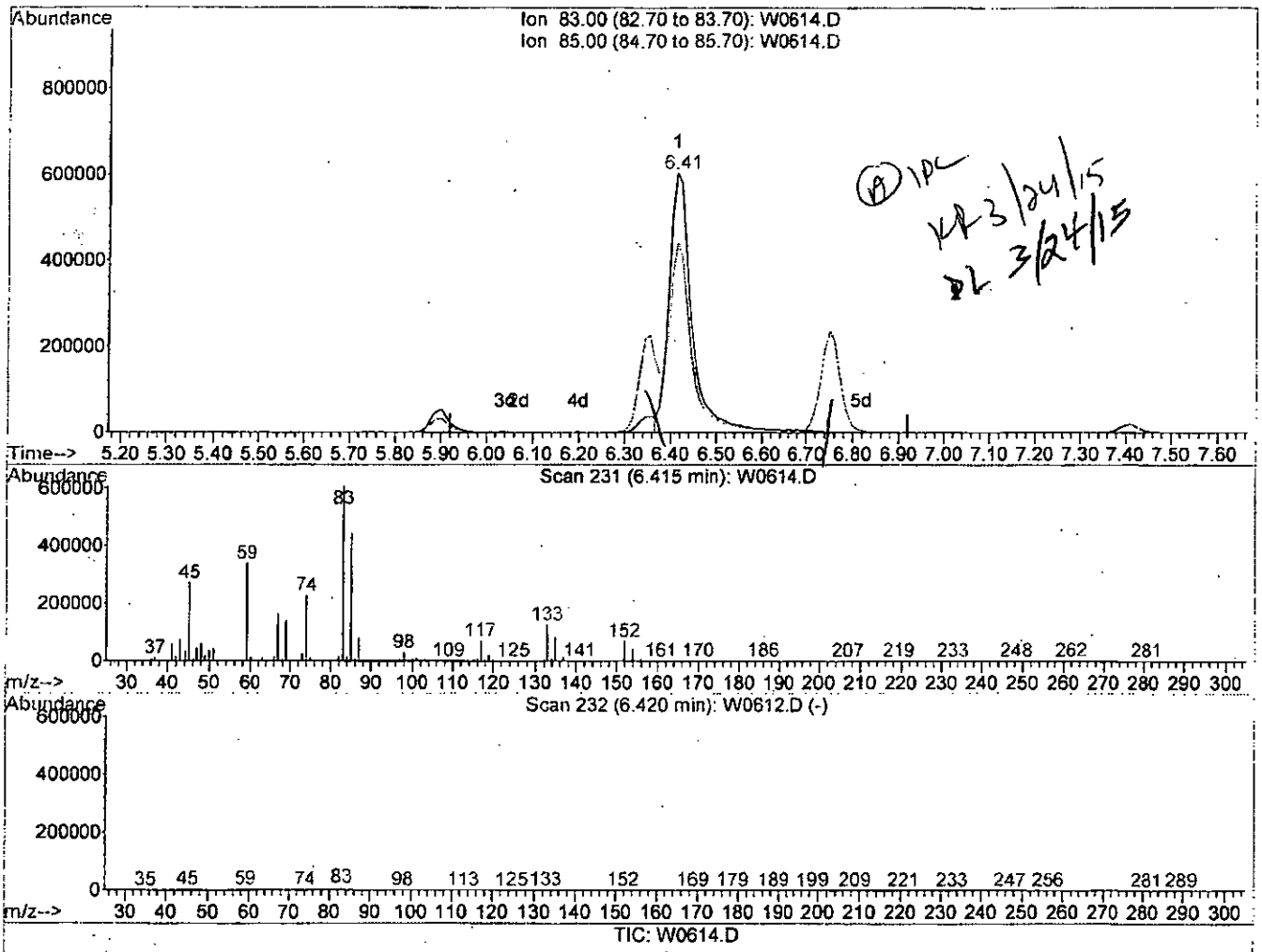
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	73.40
0.00	0.00	0.00
0.00	0.00	0.00

W0614.D W032315.M Tue Mar 24 11:28:54 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:28 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:27:31 2015
Response via : Multiple Level Calibration



TIC: W0614.D

(11) FREON 123

6.41min 139.65ppb m

response 2081958

Ion	Exp%	Act%
83.00	100	100
85.00	67.80	73.40
0.00	0.00	0.00
0.00	0.00	0.00

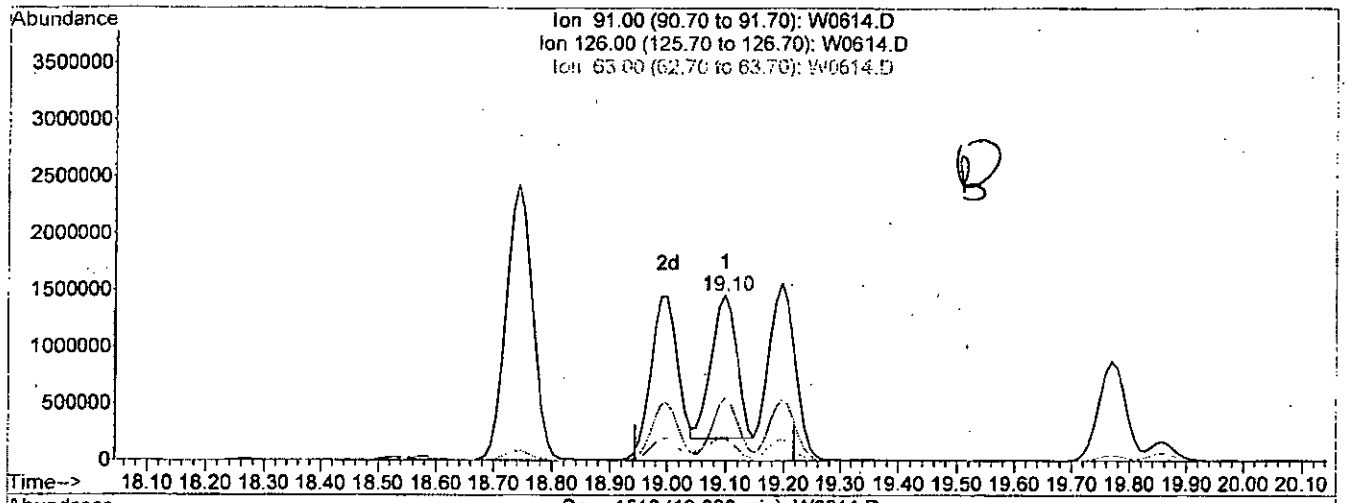
W0614.D W032315.M Tue Mar 24 11:29:02 2015

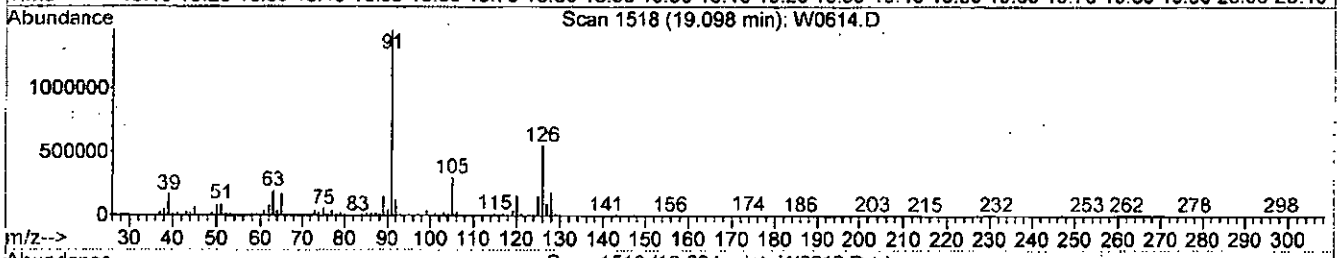
00454

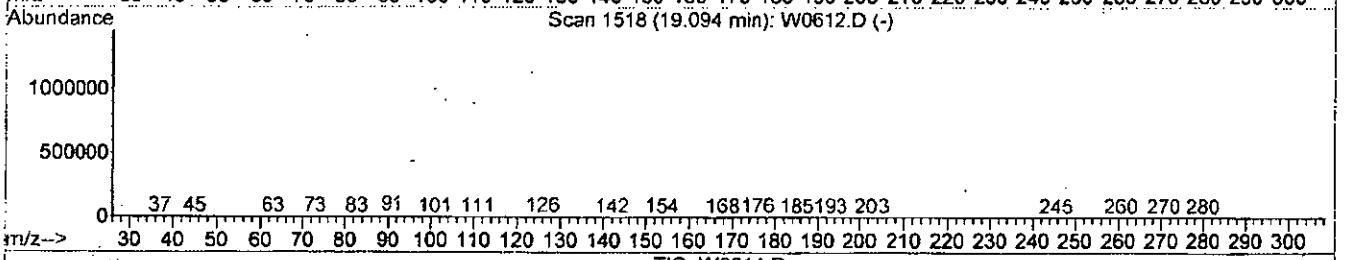
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:28 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:27:31 2015
Response via : Multiple Level Calibration







TIC: W0614.D

(98) 3-Chlorotoluene

19.10min 109.90ppb

response 3733596

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	37.70#
63.00	12.50	15.86#
0.00	0.00	0.00

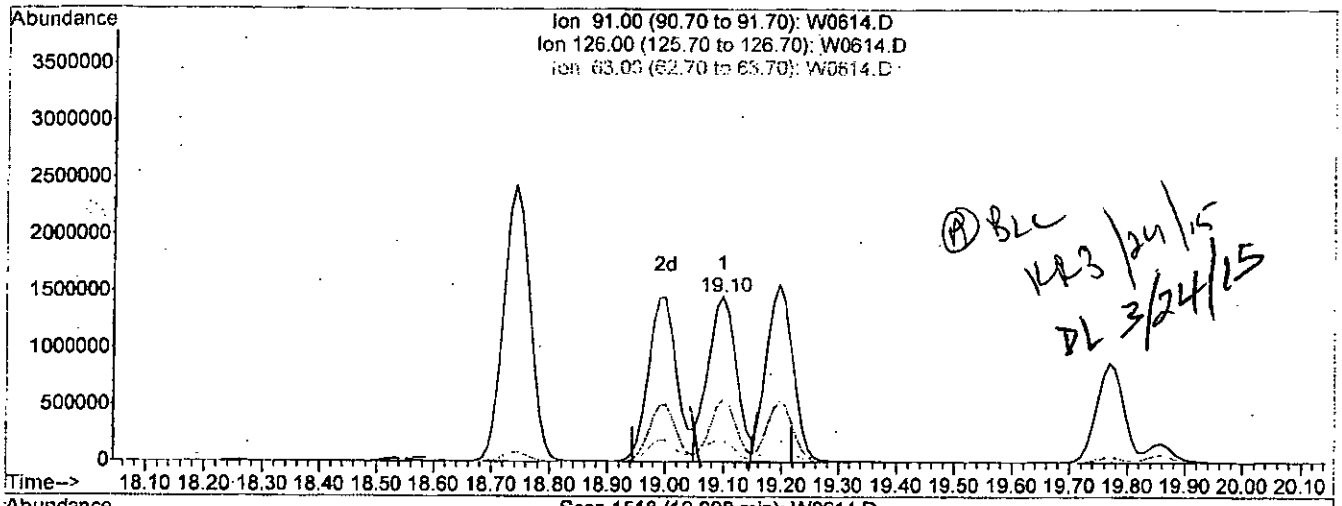
W0614.D W032315.M Tue Mar 24 11:29:55 2015

00455

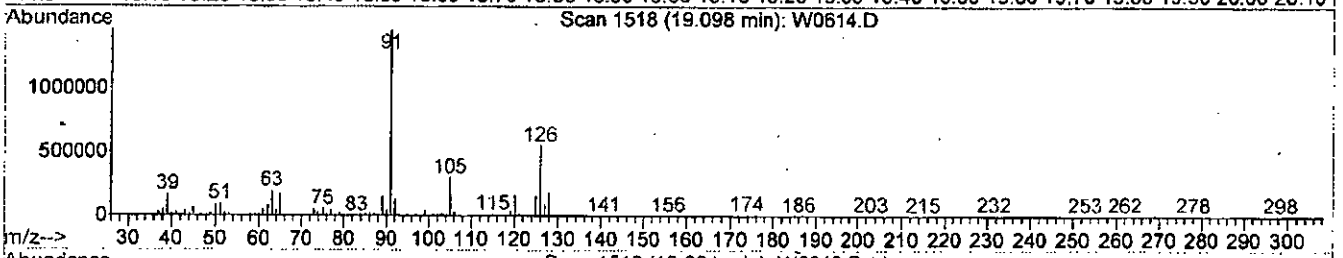
Quantitation Report (Qedit)

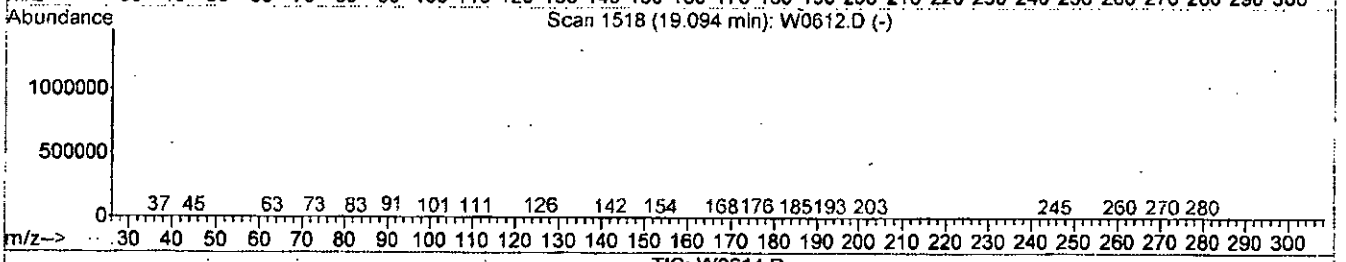
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D Vial: 18
Acq On : 23 Mar 2015 8:30 pm Operator: K.Ruest
Sample : 150ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:29 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:27:31 2015
Response via : Multiple Level Calibration



BLC KR3 3/24/15 DL 3/24/15





TIC: W0614.D

(98) 3-Chlorotoluene

19.10min 143.51ppb m

response 4875529

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	28.87
63.00	12.50	12.15
0.00	0.00	0.00

W0614.D W032315.M Tue Mar 24 11:30:02 2015

00456

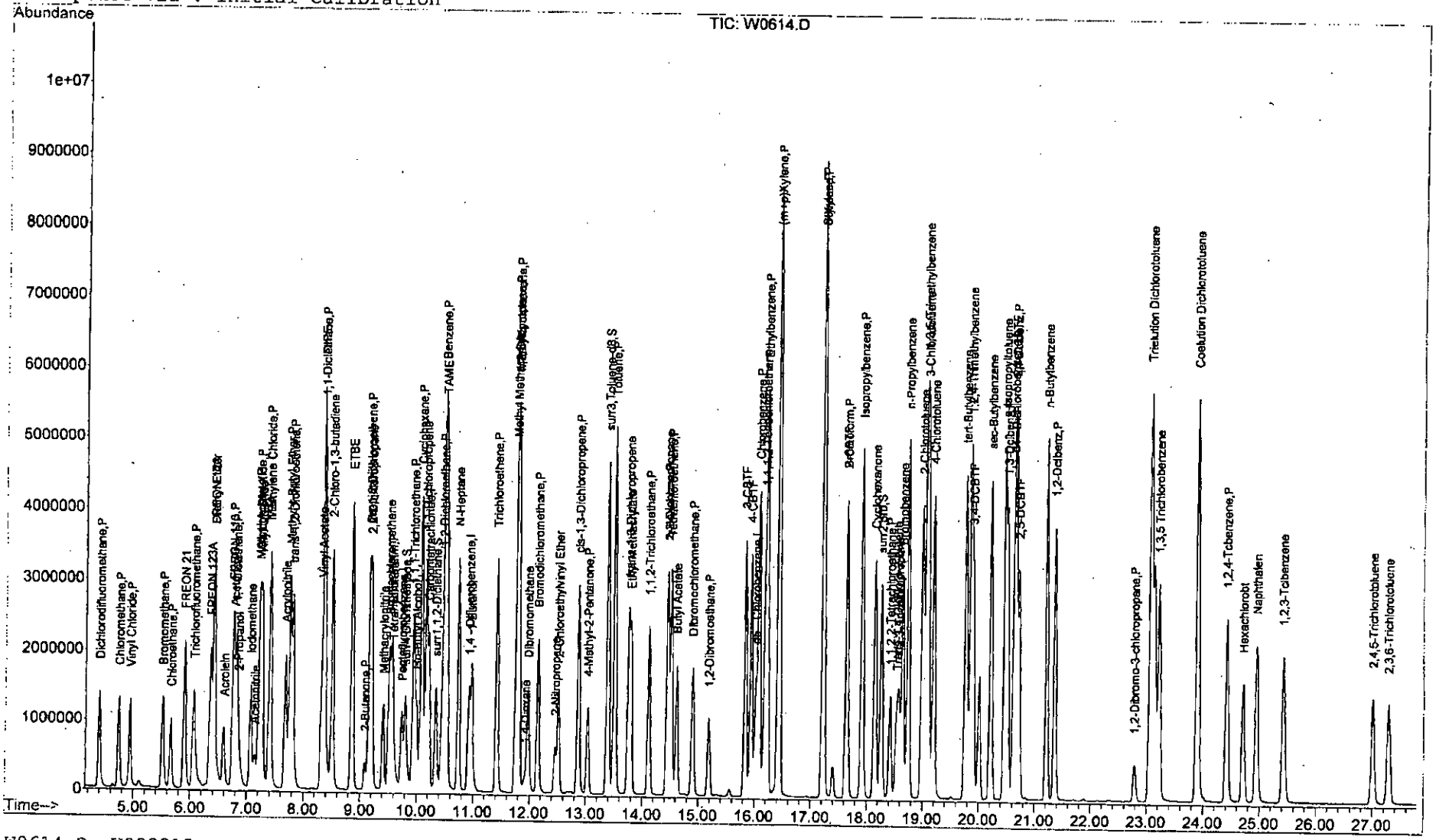
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0614.D
Acq On : 23 Mar 2015 8:30 pm
Sample : 150ppb
Misc : 8260 WATER ICAL
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:30 2015

Vial: 18
Operator: K.Ruest
Inst : MS #7
Multiplr: 1.00

Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:27:31 2015
Response via : Initial Calibration



W0614.D W032315.M Tue Mar 24 11:30:38 2015

Page 4

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:33 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	1046302	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.93	114	1715257	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.02	117	1635599	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.61	152	750354	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	565823	51.18	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.36%				
48) surr1,1,2-Diclethane	10.34	65	560771	50.31	ppb		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.62%				
70) surr3,Toluene-d8	13.39	98	1909547	53.77	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.54%				
71) surr2,bfb	18.27	95	832319	53.99	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.39	85	2708216	204.69	ppb		100
3) Chloromethane	4.74	50	2649396	184.67	ppb		100
4) Vinyl Chloride	4.93	62	2574878	197.92	ppb		97
5) Bromomethane	5.51	96	1868608	206.29	ppb		96
6) Chloroethane	5.65	64	1796130	185.26	ppb		95
7) FREON 21	5.90	67	4388078	184.33	ppb		96
8) Trichlorofluoromethane	6.06	101	3080482m	199.77	ppb		
9) Diethyl Ether	6.40	59	1673126	180.27	ppb		95
10) FREON 123A	6.35	67	2339870m	169.50	ppb		
11) FREON 123	6.42	83	2628249m	180.24	ppb		
12) Acrolein	6.59	56	1451640	871.30	ppb		100
13) FREON 113	6.75	101	1944403	183.44	ppb		96
14) 1,1-Diclethene	6.81	96	1783580	190.30	ppb		91
15) Acetone	6.78	43	647992	165.47	ppb		96
16) 2-Propanol	6.86	45	1989623	3802.89	ppb		99
17) Iodomethane	7.06	142	3418820	197.32	ppb		98
18) Carbon Disulfide	7.22	76	7852772	181.87	ppb		98
19) Acetonitrile	7.14	41	1038232	1040.56	ppb		95
20) Allyl Chloride	7.26	41	3585738	174.62	ppb		94
21) Methyl Acetate	7.20	43	1336095	178.75	ppb		96
22) Methylene Chloride	7.41	84	2131836	177.55	ppb		96
23) TBA	7.39	59	3086322	3940.98	ppb		100
24) Acrylonitrile	7.67	53	3190377	955.60	ppb		98
25) Methyl-t-Butyl Ether	7.75	73	5394174	189.49	ppb		98
26) trans-1,2-Dichloroethene	7.81	96	2046131	183.88	ppb		96
28) 1,1-Diclethane	8.37	63	3663464	184.40	ppb		97
29) Vinyl Acetate	8.31	86	332095	211.39	ppb	#	77
30) DIPE	8.35	45	7891249	171.05	ppb		98
31) 2-Chloro-1,3-butadiene	8.50	53	3996718	182.70	ppb		99
32) ETBE	8.86	59	7023664	182.93	ppb		97
33) 2,2-Dichloropropane	9.20	77	2849390	175.03	ppb		99
34) 2-Butanone	9.08	43	982304	192.46	ppb		96
35) cis-1,2-Dichloroethene	9.16	96	2217113	188.03	ppb		98
36) Propionitrile	9.16	54	1062569	903.73	ppb		95
37) Methacrylonitrile	9.41	67	740631	191.07	ppb		90

(#) = qualifier out of range (m) = manual integration
W0615.D W032315.M Tue Mar 24 11:33:35 2015

KP 3/24/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:33 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
38)	Bromochloromethane	9.52	128	1122558	182.62 ppb	96
39)	Chloroform	9.57	83	3574463	184.14 ppb	95
40)	Tetrahydrofuran	9.60	42	497251	181.41 ppb	97
41)	1,1,1-Trichloroethane	9.94	97	3007725	192.89 ppb	96
43)	Cyclohexane	10.09	56	3770565	181.52 ppb	93
45)	Carbontetrachloride	10.22	117	2565810	189.40 ppb	100
46)	1,1-Dichloropropene	10.17	75	2858848	184.84 ppb	100
47)	Iso-Butyl Alcohol	10.00	43	1576702	3980.98 ppb	96
49)	Benzene	10.49	78	7793771	174.79 ppb	100
50)	1,2-Dichloroethane	10.45	62	2606296	183.11 ppb	98
51)	TAME	10.53	73	5460754	179.93 ppb	98
52)	N-Heptane	10.74	43	2840730	178.68 ppb	98
53)	1-Butanol	10.98	56	2205468	10474.11 ppb	97
54)	Trichloroethene	11.42	95	2118262	186.69 ppb	98
55)	Methylcyclohexane	11.80	55	2784265	169.49 ppb	94
56)	1,2-Diclpropane	11.77	63	2145991	173.27 ppb	99
57)	Methyl Methacrylate	11.75	100	503514	198.15 ppb	97
58)	1,4-Dioxane	11.91	88	292003	3881.73 ppb	99
59)	Dibromomethane	11.97	93	1188753	187.32 ppb	96
60)	Bromodichloromethane	12.15	83	2954202	197.56 ppb	99
61)	2-Nitropropane	12.45	43	1069281	459.48 ppb	98
62)	2-Chloroethylvinyl Ether	12.51	63	1269961	192.23 ppb	95
63)	cis-1,3-Dichloropropene	12.87	75	3578122	194.62 ppb	98
65)	4-Methyl-2-Pentanone	13.03	43	1929636	193.39 ppb	97
66)	Toluene	13.51	91	7679894	173.98 ppb	93
67)	trans-1,3-Dichloropropene	13.75	75	3069624	194.15 ppb	100
68)	Ethyl Methacrylate	13.80	69	2415914	188.97 ppb	97
69)	1,1,2-Trichloroethane	14.12	83	1470348	179.27 ppb	98
72)	Tetrachloroethene	14.52	166	2234825	184.14 ppb	98
73)	2-Hexanone	14.46	43	1232452	185.41 ppb	98
74)	1,3-Dichloropropane	14.45	76	3150097	182.61 ppb	94
75)	Butyl Acetate	14.62	43	3108256	188.16 ppb	99
76)	Dibromochloromethane	14.91	129	2265146	192.60 ppb	99
77)	1,2-Dibromoethane	15.19	107	1820400	197.21 ppb	94
78)	Chlorobenzene	16.08	112	5430394	186.11 ppb	98
79)	3-CBTF	15.84	180	3038576	184.62 ppb	98
80)	4-CBTF	15.94	180	2720821	182.82 ppb	99
81)	1,1,1,2-Tetrachloroethane	16.19	131	2058885	188.80 ppb	95
82)	Ethylbenzene	16.23	91	8530028	172.93 ppb	98
83)	(m+p)Xylene	16.43	106	6315810	345.51 ppb	91
84)	o-Xylene	17.22	106	3133036	172.98 ppb	94
85)	Styrene	17.23	104	5372121	170.78 ppb	93
86)	Bromoform	17.66	173	1280701	202.99 ppb	99
87)	2-CBTF	17.65	180	2826789	180.15 ppb	99
88)	Isopropylbenzene	17.92	105	7983993	174.83 ppb	97
89)	Cyclohexanone	18.15	55	3794050	3504.92 ppb	99
91)	1,1,2,2-Tetrachloroethane	18.43	83	2011405	205.20 ppb	95
92)	Trans-1,4-Dichloro-2-buten	18.53	53	560206	236.10 ppb	99
93)	1,2,3-Trichloropropane	18.57	110	569468	185.25 ppb	99
94)	n-Propylbenzene	18.74	91	9542294	183.00 ppb	96

(#) = qualifier out of range (m) = manual integration
W0615.D W032315.M Tue Mar 24 11:33:37 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:33 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 10:01:37 2015
Response via : Initial Calibration
DataAcq Meth : W032315

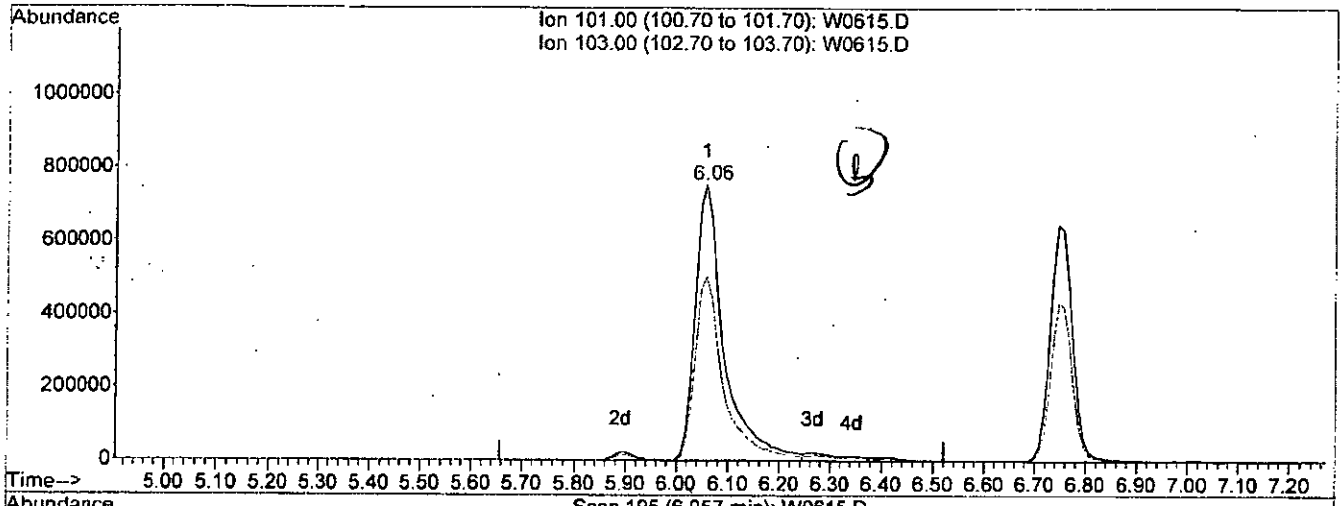
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Bromobenzene	18.64	156	2214725	194.43	ppb	90
96)	1,3,5-Trimethylbenzene	19.07	105	6111156	180.28	ppb	97
97)	2-Chlorotoluene	19.00	91	6184172	187.07	ppb	99
98)	3-Chlorotoluene	19.10	91	6161062m	185.87	ppb	
99)	4-Chlorotoluene	19.19	91	6329685	189.26	ppb	98
100)	tert-Butylbenzene	19.78	119	5560970	185.70	ppb	98
101)	1,2,4-Trimethylbenzene	19.85	105	6307288	182.66	ppb	98
102)	3,4-DCBTF	19.90	214	2039574	189.51	ppb	99
103)	sec-Butylbenzene	20.22	105	7784206	184.31	ppb	95
104)	p-Isopropyltoluene	20.47	119	6503679	185.79	ppb	97
105)	1,3-Dclbenz	20.51	146	3954805	188.27	ppb	96
106)	1,4-Dclbenz	20.67	146	3834216	181.80	ppb	97
107)	2,4-DCBTF	20.63	214	1797962	196.03	ppb	98
108)	2,5-DCBTF	20.72	214	2027954	190.10	ppb	98
109)	n-Butylbenzene	21.21	91	6023990	183.17	ppb	94
110)	1,2-Dclbenz	21.36	146	3856850	193.15	ppb	94
111)	1,2-Dibromo-3-chloropropan	22.79	157	423386	199.92	ppb	94
112)	Trielution Dichlorotoluene	23.08	125	9460576	578.37	ppb	99
114)	1,3,5 Trichlorobenzene	23.23	180	2633763	194.31	ppb	98
115)	Coelution Dichlorotoluene	23.91	125	6648176	392.88	ppb	98
116)	1,2,4-Tcbenzene	24.43	180	2472904	206.95	ppb	97
117)	Hexachlorobt	24.71	225	1006436	208.23	ppb	96
118)	Naphthalen	24.95	128	5333017	208.42	ppb	100
119)	1,2,3-Tclbenzene	25.43	180	2083902	207.02	ppb	98
120)	2,4,5-Trichlorotoluene	27.01	159	1293448	196.86	ppb	99
121)	2,3,6-Trichlorotoluene	27.29	159	1088914	196.99	ppb	98

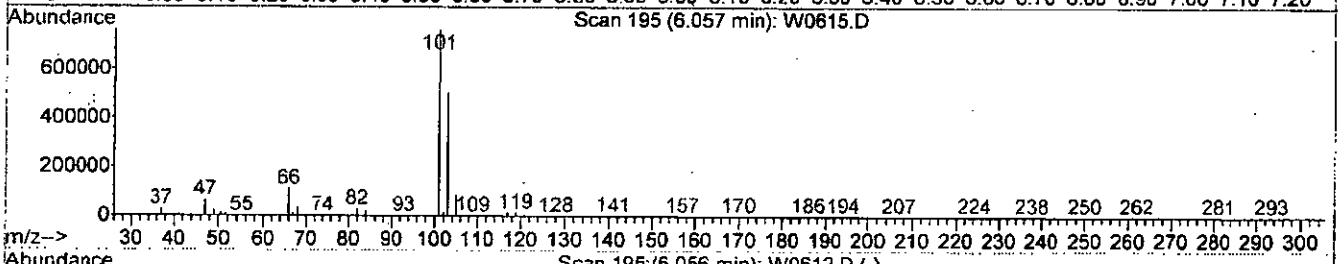
(#) = qualifier out of range (m) = manual integration
W0615.D W032315.M Tue Mar 24 11:33:37 2015 Page 3

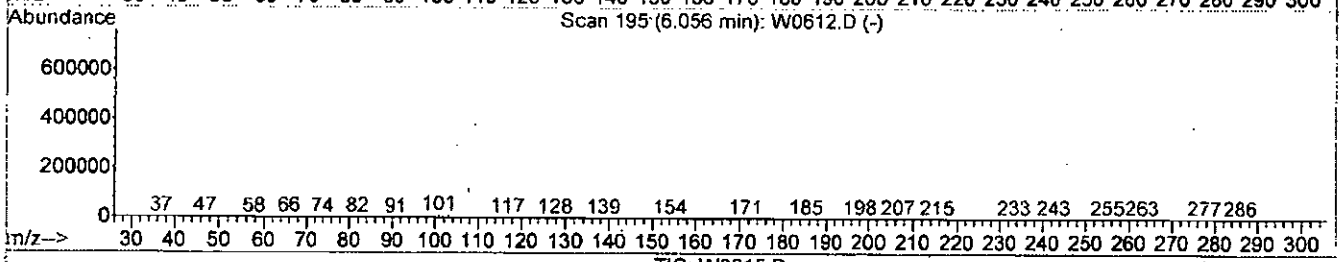
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 10:07 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration







TIC: W0615.D

(8) Trichlorofluoromethane (P)

6.06min 188.47ppb

response 2906341

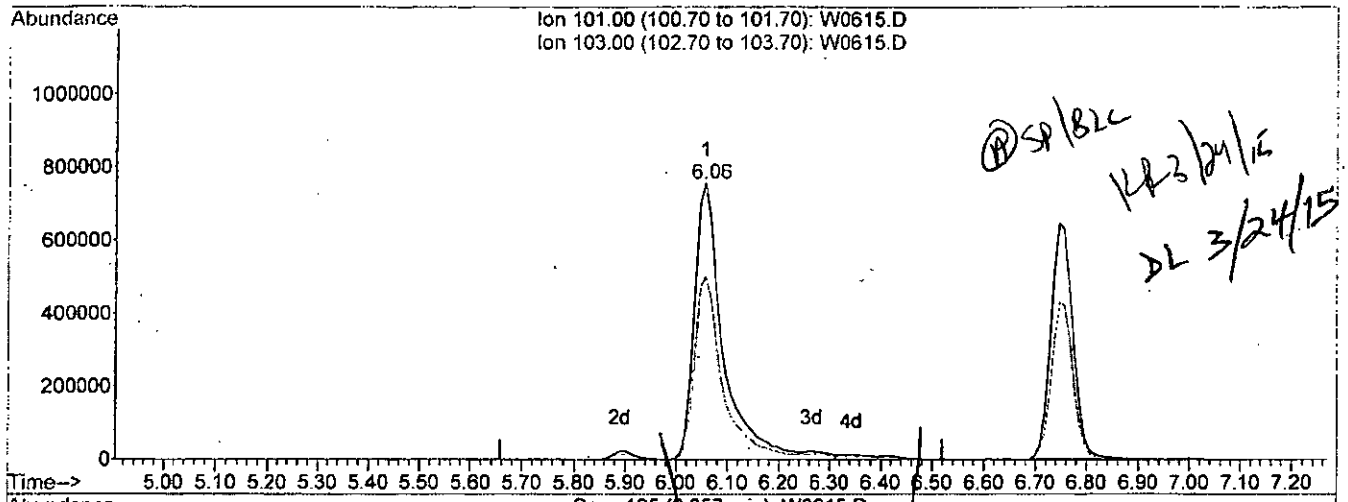
Ion	Exp%	Act%
101.00	100	100
103.00	63.40	66.48
0.00	0.00	0.00
0.00	0.00	0.00

W0615.D W032315.M Tue Mar 24 11:31:32 2015

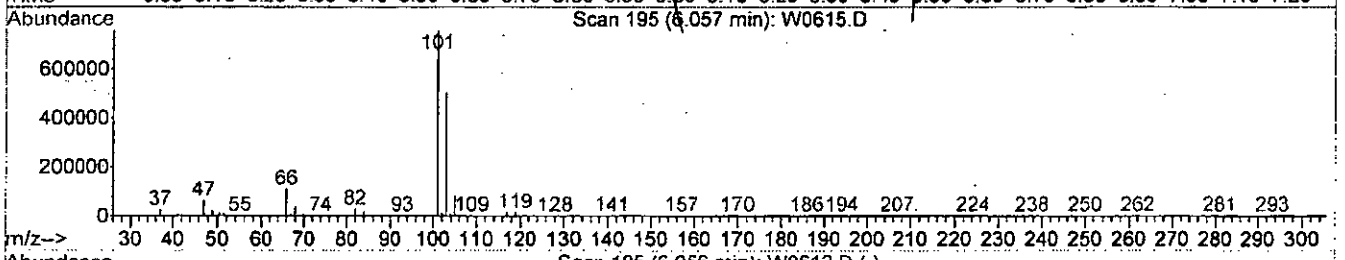
Quantitation Report (Qedit)

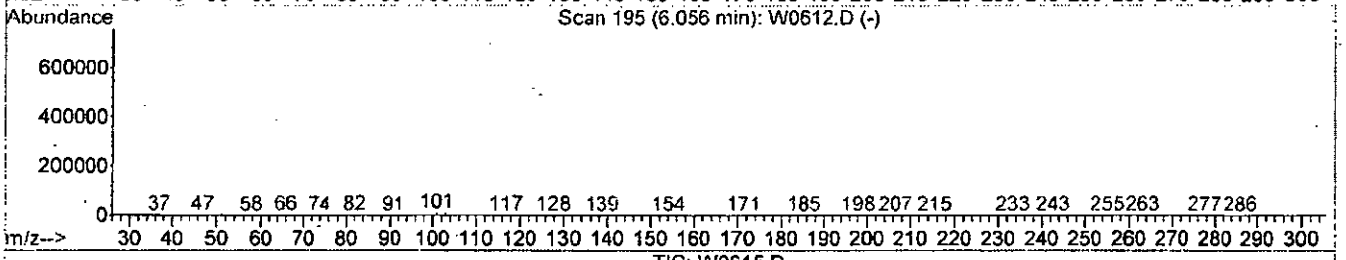
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:31 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration



@SP/B2C
KR 3/24/15
DL 3/24/15





TIC: W0615.D

(8) Trichlorofluoromethane (P)

6.06min 199.77ppb m

response 3080482

Ion	Exp%	Act%
101.00	100	100
103.00	63.40	66.48
0.00	0.00	0.00
0.00	0.00	0.00

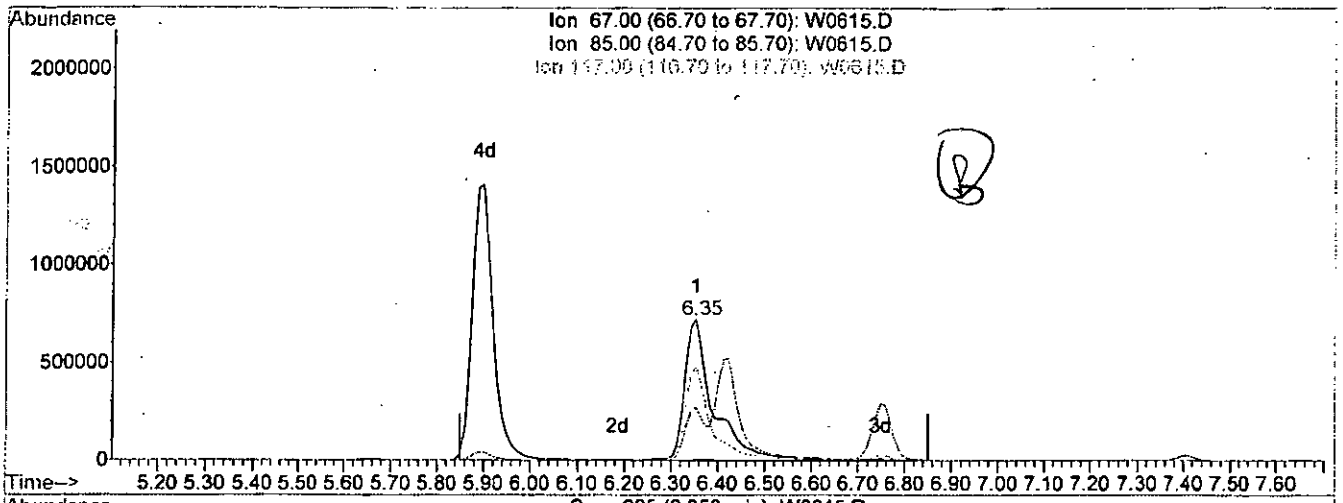
W0615.D W032315.M Tue Mar 24 11:31:38 2015

00462

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:31 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration



TIC: W0615.D

(10) FREON 123A

6.35min 220.55ppb

response 3044601

Ion	Exp%	Act%
67.00	100	100
85.00	36.30	37.51
117.00	65.00	66.44
0.00	0.00	0.00

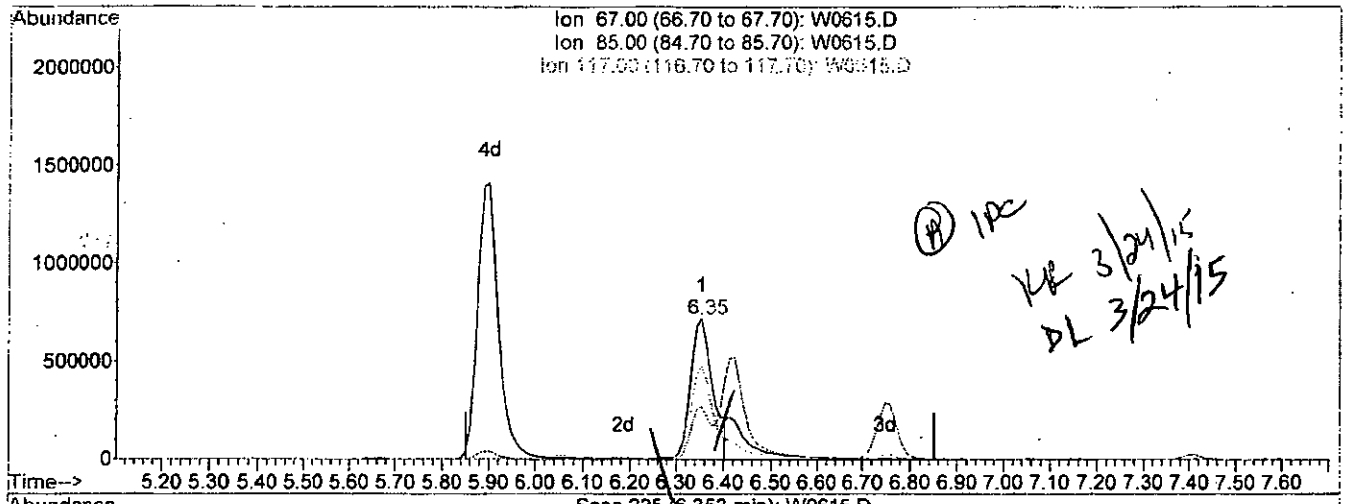
W0615.D W032315.M Tue Mar 24 11:31:45 2015

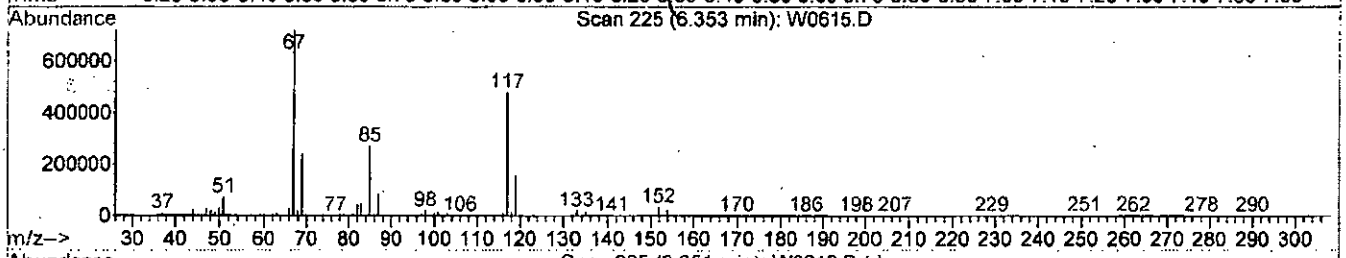
00463

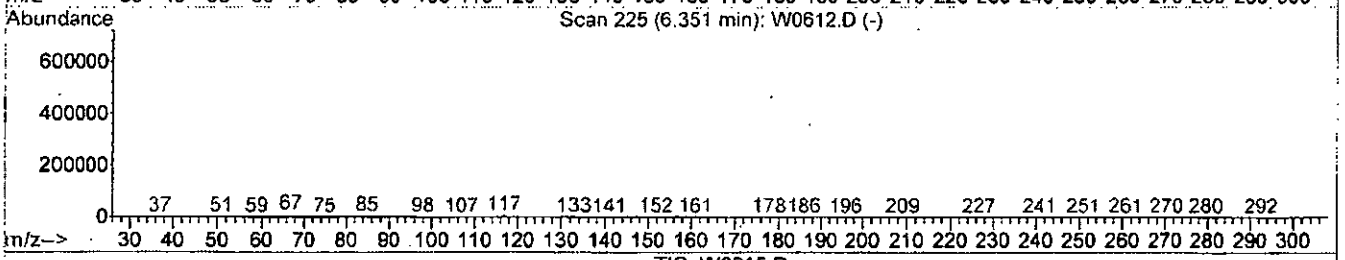
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:31 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration







TIC: W0615.D

(10) FREON 123A

6.35min 169.50ppb m

response 2339870

Ion	Exp%	Act%
67.00	100	100
85.00	36.30	37.51
117.00	65.00	66.44
0.00	0.00	0.00

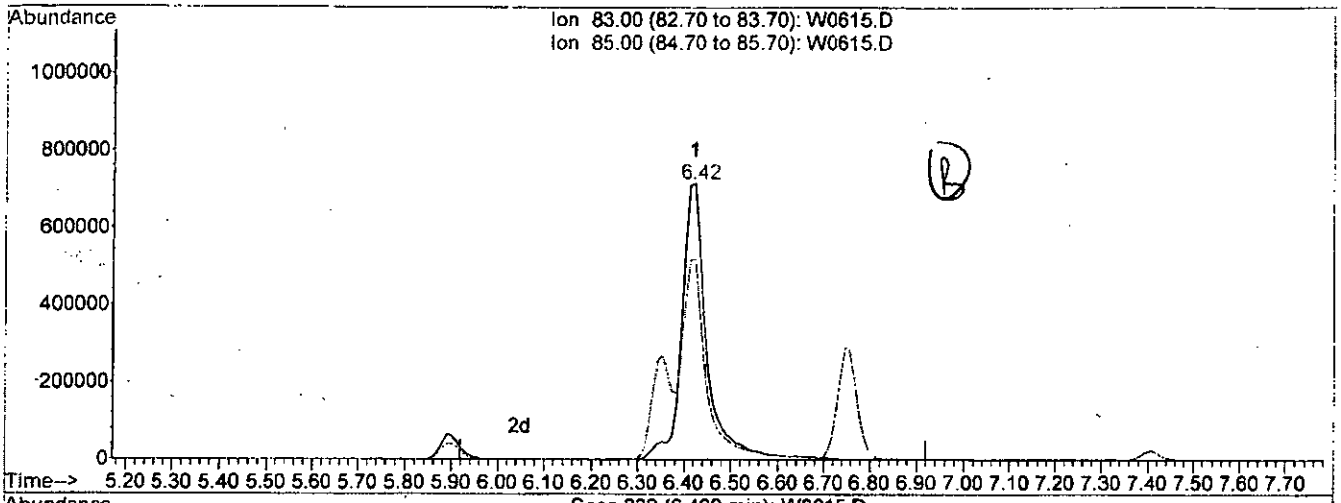
W0615.D W032315.M Tue Mar 24 11:31:52 2015

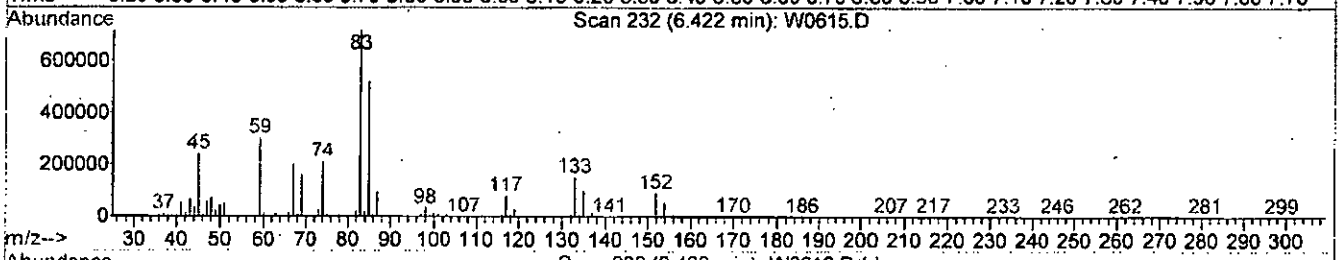
00464

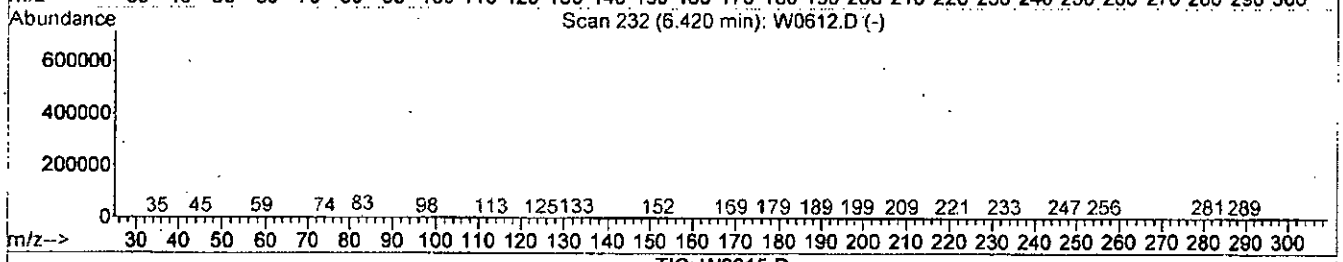
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:31 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration







TIC: W0615.D

(11) FREON 123

6.42min 187.62ppb

response 2735898

Ion	Exp%	Act%
83.00	100	100
85.00	67.80	72.61
0.00	0.00	0.00
0.00	0.00	0.00

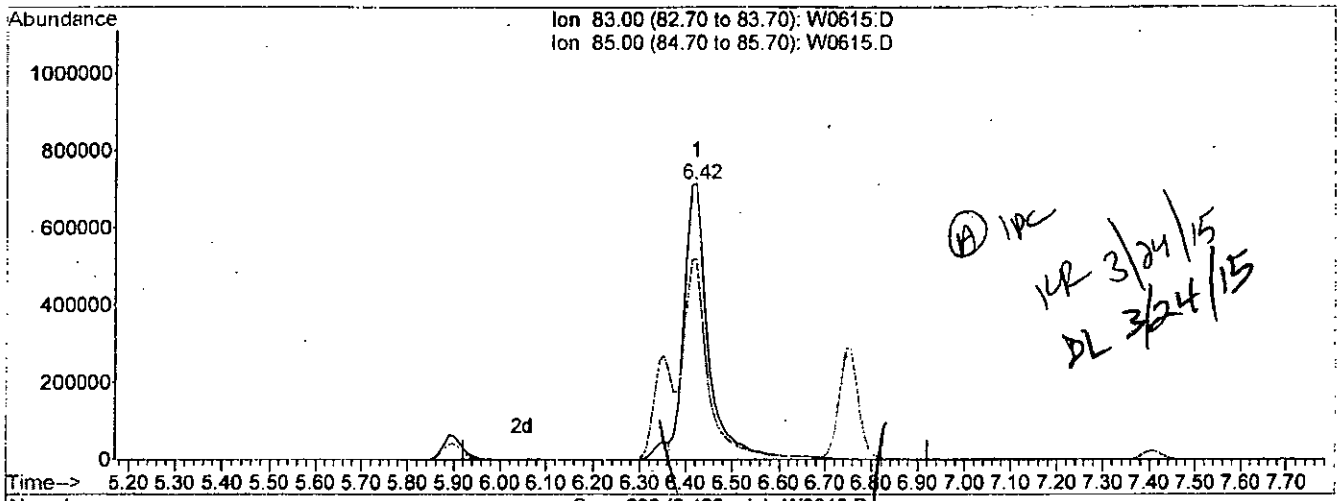
W0615.D W032315.M Tue Mar 24 11:31:59 2015

00465

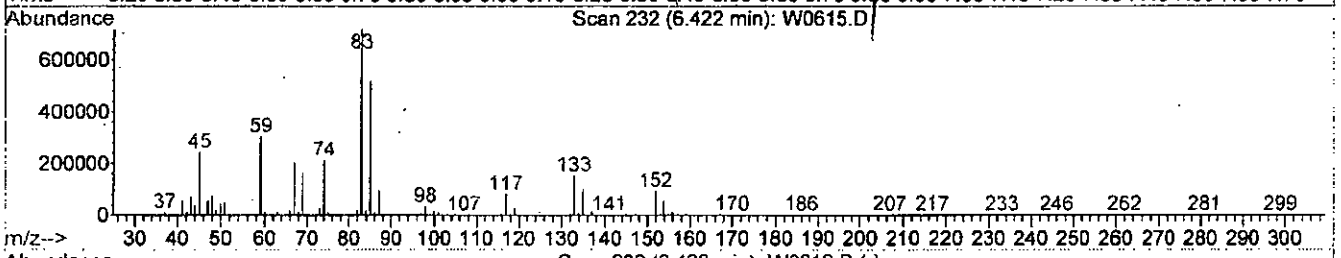
Quantitation Report (Qedit)

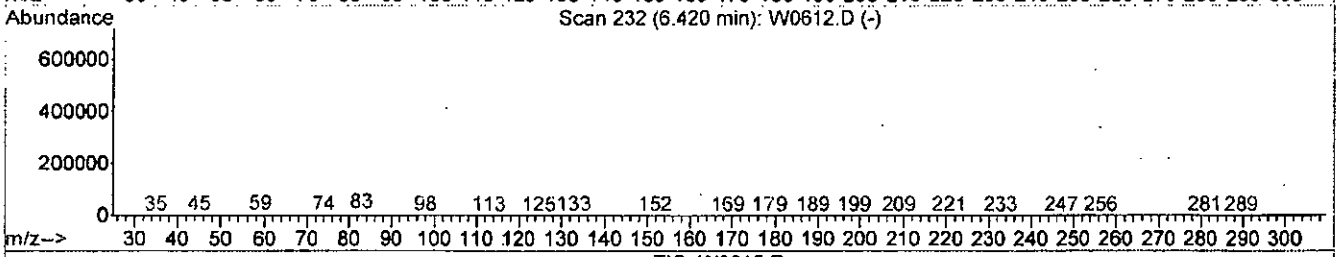
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:32 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration



(A) IPC
KR 3/24/15
DL 3/24/15





TIC: W0615.D

(11) FREON 123

6.42min 180.24ppb m

response 2628249

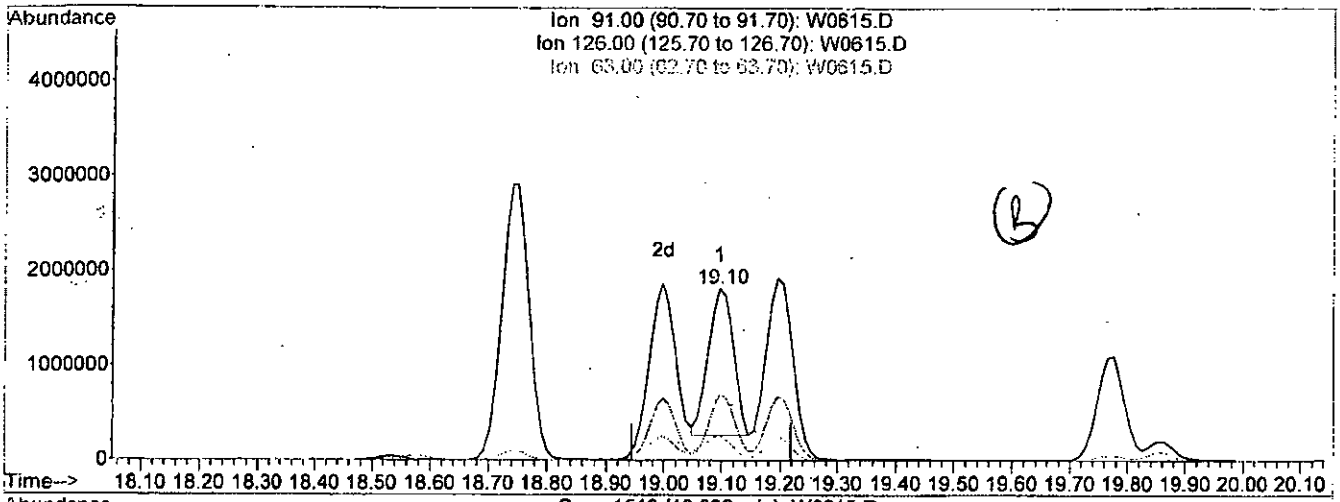
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	72.61
0.00	0.00	0.00
0.00	0.00	0.00

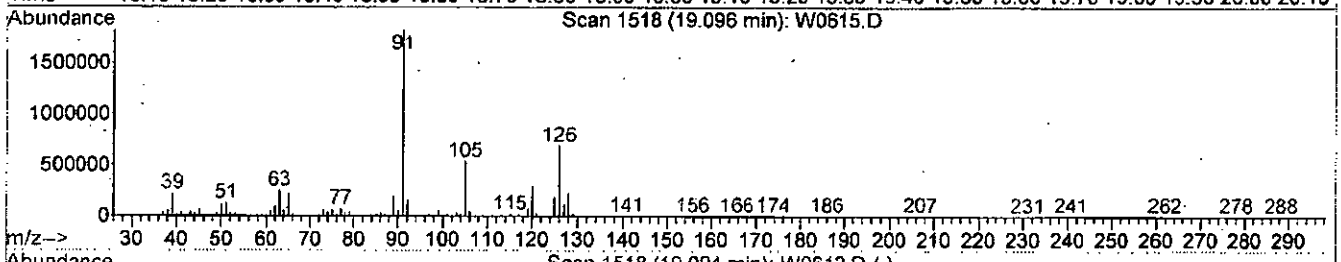
W0615.D W032315.M Tue Mar 24 11:32:06 2015

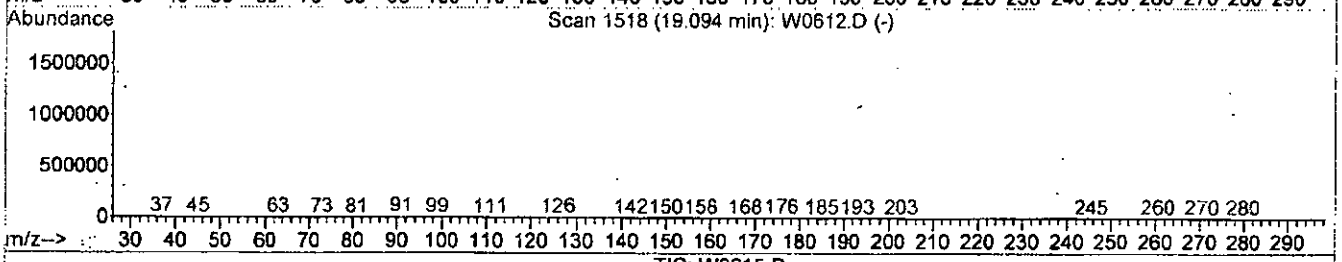
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:32 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration







TIC: W0615.D

(98) 3-Chlorotoluene

19.10min 138.10ppb

response 4577703

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	39.60#
63.00	12.50	16.43#
0.00	0.00	0.00

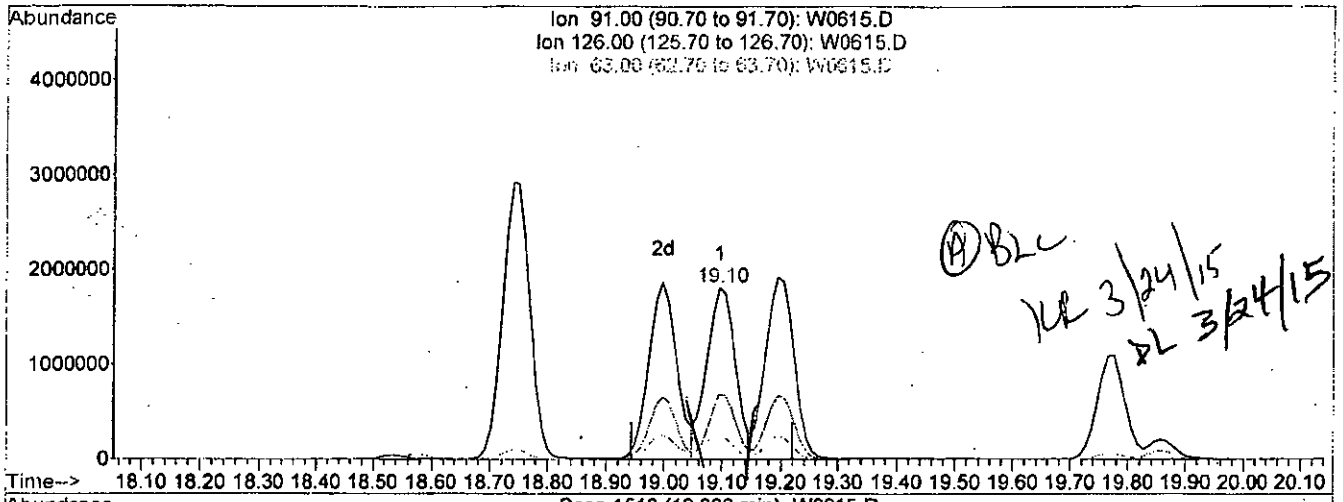
W0615.D W032315.M Tue Mar 24 11:32:57 2015

00467

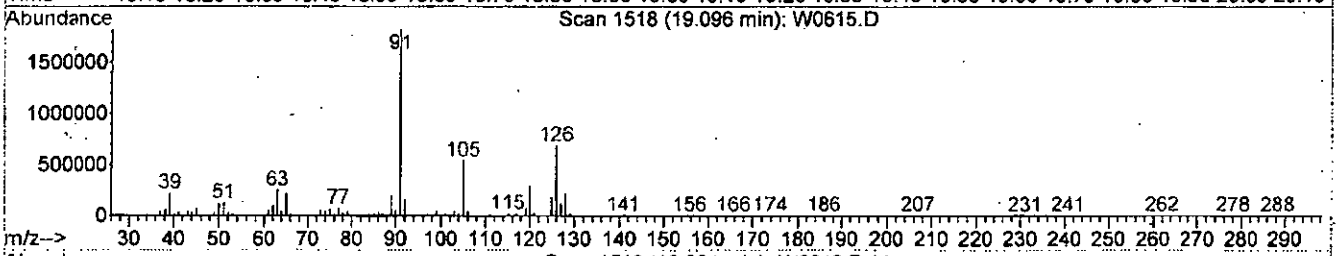
Quantitation Report (Qedit)

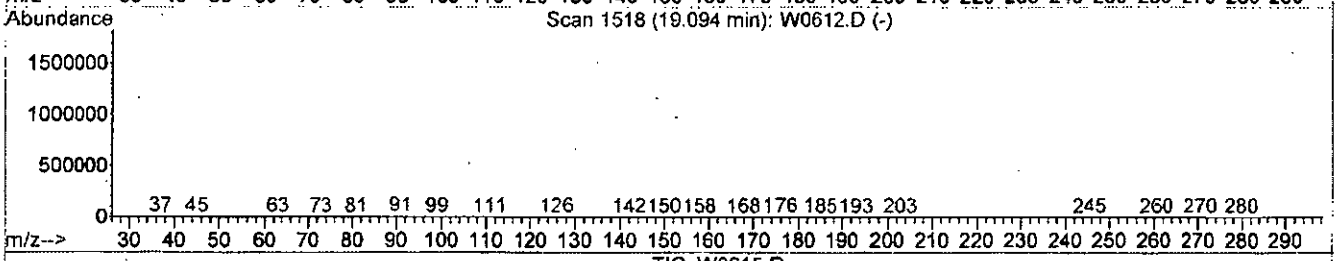
Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:33 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Multiple Level Calibration



B2C JL 3/24/15 DL 3/24/15





TIC: W0615.D

(98) 3-Chlorotoluene

19.10min 185.87ppb m

response 6161062

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	29.43
63.00	12.50	12.21
0.00	0.00	0.00

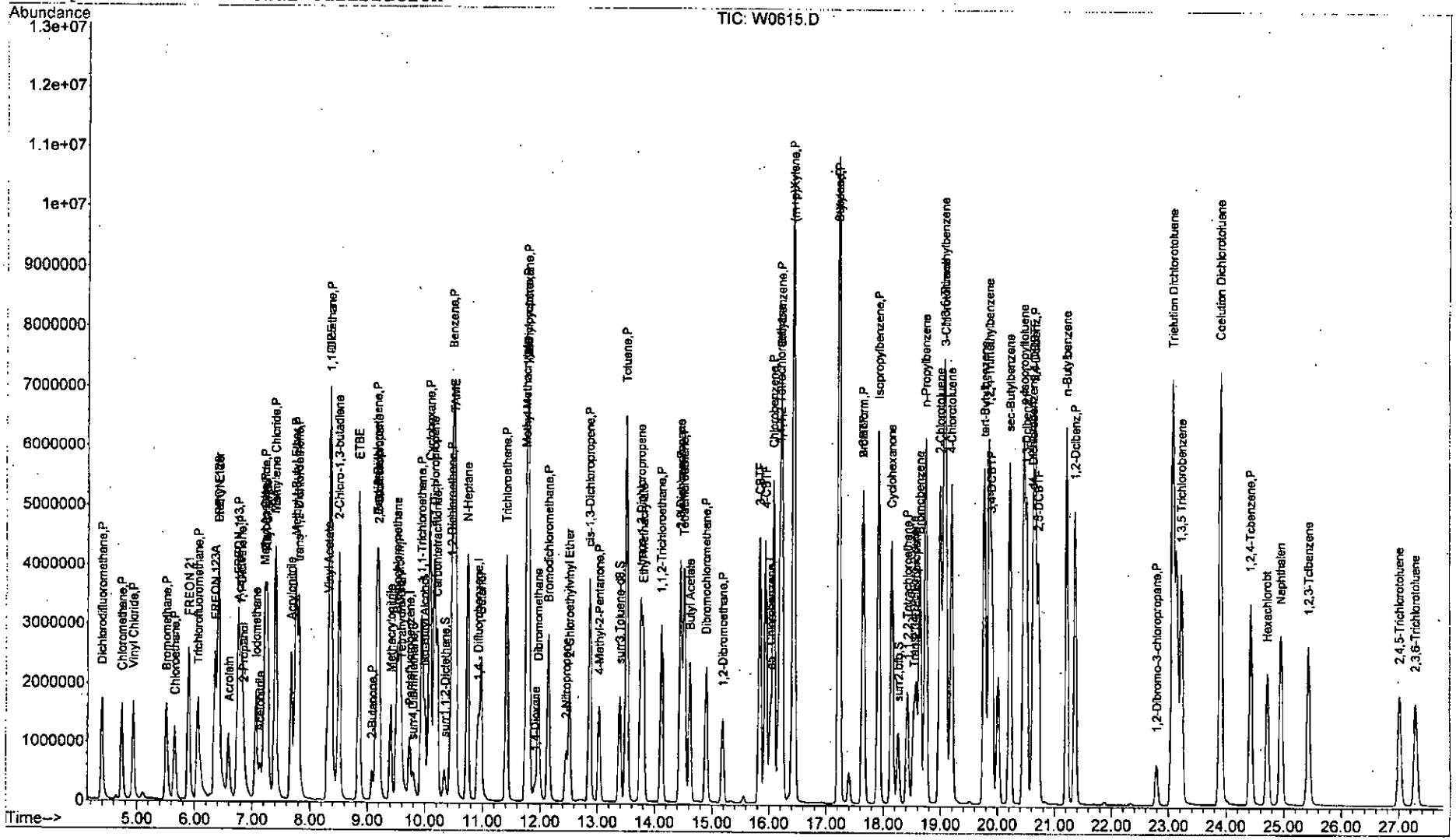
W0615.D W032315.M Tue Mar 24 11:33:05 2015

00468

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0615.D Vial: 19
Acq On : 23 Mar 2015 9:04 pm Operator: K.Ruest
Sample : 200ppb Inst : MS #7
Misc : 8260 WATER ICAL Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 11:33 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:30:45 2015
Response via : Initial Calibration



W0615.D W032315.M Tue Mar 24 11:33:41 2015 Page 4

Initial Calibration Verification Summary Report

KRuest 3/24/15

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
8260 Waters - W032315 **Column Name:** 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500031-10	T	Average RF	50	49.38	ppm	-1.2	<=30
1,1,1-Trichloroethane (TCA)	RC1500031-10	T	Average RF	50	57.85	ppm	15.7	<=30
1,1,2,2-Tetrachloroethane	RC1500031-10	T	Average RF	50	47.48	ppm	-5.0	<=30
1,1,2-Trichloroethane	RC1500031-10	T	Average RF	50	46.02	ppm	-8.0	<=30
1,1,2-Trichlorotrifluoroethane	RC1500031-10	T	Average RF	50	54.33	ppm	8.7	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500031-10	T	Average RF	50	55.86	ppm	11.7	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500031-10	T	Average RF	50	52.62	ppm	5.2	<=30
1,1-Dichloropropene	RC1500031-10	T	Average RF	50	48.69	ppm	-2.6	<=30
1,2,3-Trichlorobenzene	RC1500031-10	T	Average RF	50	46.85	ppm	-6.3	<=30
1,2,3-Trichloropropane	RC1500031-10	T	Average RF	50	44.12	ppm	-11.8	<=30
1,2,4-Trichlorobenzene	RC1500031-10	T	Average RF	50	48.64	ppm	-2.7	<=30
1,2,4-Trimethylbenzene	RC1500031-10	T	Average RF	50	45.96	ppm	-8.1	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500031-10	T	Average RF	50	44.67	ppm	-10.7	<=30
1,2-Dibromoethane	RC1500031-10	T	Average RF	50	48.73	ppm	-2.5	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500031-10	T	Average RF	50	60.36	ppm	20.7	<=30
1,2-Dichlorobenzene	RC1500031-10	T	Average RF	50	46.47	ppm	-7.1	<=30
1,2-Dichloroethane	RC1500031-10	T	Average RF	50	53.31	ppm	6.6	<=30
1,2-Dichloropropane	RC1500031-10	T	Average RF	50	51.63	ppm	3.3	<=30
1,3,5-Trichlorobenzene	RC1500031-10	T	Average RF	50	47.15	ppm	-5.7	<=30
1,3,5-Trimethylbenzene	RC1500031-10	T	Average RF	50	45.49	ppm	-9.0	<=30
1,3-Dichlorobenzene	RC1500031-10	T	Average RF	50	46.07	ppm	-7.9	<=30
1,3-Dichloropropane	RC1500031-10	T	Average RF	50	47.69	ppm	-4.6	<=30
1,4-Dichlorobenzene	RC1500031-10	T	Average RF	50	45.89	ppm	-8.2	<=30
1,4-Dioxane	RC1500031-10	T	Average RF	1000	992.8	ppm	-0.7	<=30
1-Butanol	RC1500031-10	T	Average RF	2500	2638	ppm	5.5	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500031-10	T	Average RF	50	48.91	ppm	-2.2	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500031-10	T	Average RF	50	56.46	ppm	12.9	<=30
2,2-Dichloropropane	RC1500031-10	T	Average RF	50	57.50	ppm	15.0	<=30
2,3,6-Trichlorotoluene	RC1500031-10	T	Average RF	50	51.65	ppm	3.3	<=30
2,4,5-Trichlorotoluene	RC1500031-10	T	Average RF	50	49.09	ppm	-1.8	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500031-10	T	Average RF	150	141.3	ppm	-5.8	<=30
2,4-Dichlorobenzotrifluoride	RC1500031-10	T	Average RF	50	49.78	ppm	-0.4	<=30
2,5-Dichlorobenzotrifluoride	RC1500031-10	T	Average RF	50	46.39	ppm	-7.2	<=30
2-Butanone (MEK)	RC1500031-10	T	Average RF	50	54.36	ppm	8.7	<=30
2-Chloro-1,3-butadiene	RC1500031-10	T	Average RF	50	48.27	ppm	-3.5	<=30
2-Chlorobenzotrifluoride	RC1500031-10	T	Average RF	50	49.07	ppm	-1.9	<=30
2-Chloroethyl Vinyl Ether	RC1500031-10	T	Average RF	50	48.36	ppm	-3.3	<=30
2-Chlorotoluene	RC1500031-10	T	Average RF	50	46.24	ppm	-7.5	<=30
2-Hexanone	RC1500031-10	T	Average RF	50	48.11	ppm	-3.8	<=30
2-Methyl-1-propanol	RC1500031-10	T	Average RF	1000	977.5	ppm	-2.3	<=30
2-Methyl-2-propanol	RC1500031-10	T	Average RF	1000	1069	ppm	6.9	<=30
2-Nitropropane	RC1500031-10	T	Average RF	100	132.5	ppm	32.5	<=30
2-Propanol	RC1500031-10	T	Average RF	1000	1070	ppm	7.0	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500031-10	T	Average RF	100	95.74	ppm	-4.3	<=30
3,4-Dichlorobenzotrifluoride	RC1500031-10	T	Average RF	50	47.40	ppm	-5.2	<=30
3-Chloro-1-propene	RC1500031-10	T	Average RF	50	51.64	ppm	3.3	<=30
3-Chlorobenzotrifluoride	RC1500031-10	T	Average RF	50	49.38	ppm	-1.2	<=30
3-Chlorotoluene	RC1500031-10	T	Average RF	50	46.86	ppm	-6.3	<=30
4-Chlorotoluene	RC1500031-10	T	Average RF	50	45.77	ppm	-8.5	<=30
4-Isopropyltoluene	RC1500031-10	T	Average RF	50	47.10	ppm	-5.8	<=30
4-Methyl-2-pentanone	RC1500031-10	T	Average RF	50	48.41	ppm	-3.2	<=30

Initial Calibration Verification Summary Report

Calibration ID: RC1500031 **Instrument ID:** R-MS-07
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500031-10	T	Average RF	50	54.66	ppm	9.3	<=30
Acetonitrile	RC1500031-10	T	Average RF	250	287.4	ppm	15.0	<=30
Acrolein	RC1500031-10	T	Average RF	100	108.8	ppm	8.8	<=30
Acrylonitrile	RC1500031-10	T	Average RF	250	269.9	ppm	8.0	<=30
Benzene	RC1500031-10	T	Average RF	50	50.38	ppm	0.8	<=30
Bromobenzene	RC1500031-10	T	Average RF	50	45.95	ppm	-8.1	<=30
Bromochloromethane	RC1500031-10	T	Average RF	50	55.65	ppm	11.3	<=30
Bromodichloromethane	RC1500031-10	T	Average RF	50	55.11	ppm	10.2	<=30
Bromoform	RC1500031-10	T	Average RF	50	51.27	ppm	2.5	<=30
Bromomethane	RC1500031-10	T	Average RF	50	50.84	ppm	1.7	<=30
Carbon Disulfide	RC1500031-10	T	Average RF	50	52.84	ppm	5.7	<=30
Carbon Tetrachloride	RC1500031-10	T	Average RF	50	50.83	ppm	1.7	<=30
Chlorobenzene	RC1500031-10	T	Average RF	50	48.71	ppm	-2.6	<=30
Chloroethane	RC1500031-10	T	Average RF	50	52.53	ppm	5.1	<=30
Chloroform	RC1500031-10	T	Average RF	50	55.74	ppm	11.5	<=30
Chloromethane	RC1500031-10	T	Average RF	50	52.54	ppm	5.1	<=30
Cyclohexane	RC1500031-10	T	Average RF	50	52.54	ppm	5.1	<=30
Cyclohexanone	RC1500031-10	T	Average RF	1000	918.4	ppm	-8.2	<=30
Dibromochloromethane	RC1500031-10	T	Average RF	50	49.23	ppm	-1.5	<=30
Dibromomethane	RC1500031-10	T	Average RF	50	52.75	ppm	5.5	<=30
Dichlorodifluoromethane (CFC 12)	RC1500031-10	T	Average RF	50	60.48	ppm	21.0	<=30
Dichlorofluoromethane (CFC 21)	RC1500031-10	T	Average RF	50	61.88	ppm	23.8	<=30
Dichloromethane	RC1500031-10	T	Average RF	50	53.06	ppm	6.1	<=30
Diethyl Ether	RC1500031-10	T	Average RF	50	58.64	ppm	17.3	<=30
Diisopropyl Ether	RC1500031-10	T	Average RF	50	49.91	ppm	-0.2	<=30
Ethyl Methacrylate	RC1500031-10	T	Average RF	50	47.62	ppm	-4.8	<=30
Ethyl tert-Butyl Ether	RC1500031-10	T	Average RF	50	50.37	ppm	0.7	<=30
Ethylbenzene	RC1500031-10	T	Average RF	50	44.22	ppm	-11.6	<=30
Hexachlorobutadiene	RC1500031-10	T	Average RF	50	49.98	ppm	0.0	<=30
Iodomethane	RC1500031-10	T	Average RF	50	53.14	ppm	6.3	<=30
Isopropylbenzene (Cumene)	RC1500031-10	T	Average RF	50	47.52	ppm	-5.0	<=30
Methacrylonitrile	RC1500031-10	T	Average RF	50	53.09	ppm	6.2	<=30
Methyl Acetate	RC1500031-10	T	Average RF	50	53.95	ppm	7.9	<=30
Methyl Methacrylate	RC1500031-10	T	Average RF	50	53.83	ppm	7.7	<=30
Methyl tert-Butyl Ether	RC1500031-10	T	Average RF	50	58.11	ppm	16.2	<=30
Methylcyclohexane	RC1500031-10	T	Average RF	50	51.64	ppm	3.3	<=30
Naphthalene	RC1500031-10	T	Average RF	50	47.45	ppm	-5.1	<=30
Propionitrile	RC1500031-10	T	Average RF	250	272.2	ppm	8.9	<=30
Styrene	RC1500031-10	T	Average RF	50	47.82	ppm	-4.4	<=30
Tetrachloroethene (PCE)	RC1500031-10	T	Average RF	50	47.49	ppm	-5.0	<=30
Tetrahydrofuran (THF)	RC1500031-10	T	Average RF	50	54.71	ppm	9.4	<=30
Toluene	RC1500031-10	T	Average RF	50	47.70	ppm	-4.6	<=30
Trichloroethene (TCE)	RC1500031-10	T	Average RF	50	52.47	ppm	4.9	<=30
Trichlorofluoromethane (CFC 11)	RC1500031-10	T	Average RF	50	55.27	ppm	10.5	<=30
Vinyl Acetate	RC1500031-10	T	Average RF	50	60.81	ppm	21.6	<=30
Vinyl Chloride	RC1500031-10	T	Average RF	50	53.83	ppm	7.7	<=30
cis-1,2-Dichloroethene	RC1500031-10	T	Average RF	50	55.90	ppm	11.8	<=30
cis-1,3-Dichloropropene	RC1500031-10	T	Average RF	50	51.50	ppm	3.0	<=30
m,p-Xylenes	RC1500031-10	T	Average RF	100	93.92	ppm	-6.1	<=30
n-Butyl Acetate	RC1500031-10	T	Average RF	50	49.30	ppm	-1.4	<=30
n-Butylbenzene	RC1500031-10	T	Average RF	50	47.38	ppm	-5.2	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1500031	**Instrument ID:**	R-MS-07
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500031-10	T	Average RF	50	53.24	ppm	6.5	<=30
n-Propylbenzene	RC1500031-10	T	Average RF	50	45.96	ppm	-8.1	<=30
o-Xylene	RC1500031-10	T	Average RF	50	46.58	ppm	-6.8	<=30
sec-Butylbenzene	RC1500031-10	T	Average RF	50	45.87	ppm	-8.3	<=30
tert-Amyl Methyl Ether	RC1500031-10	T	Average RF	50	49.70	ppm	-0.6	<=30
tert-Butylbenzene	RC1500031-10	T	Average RF	50	45.40	ppm	-9.2	<=30
trans-1,2-Dichloroethene	RC1500031-10	T	Average RF	50	52.69	ppm	5.4	<=30
trans-1,3-Dichloropropene	RC1500031-10	T	Average RF	50	48.09	ppm	-3.8	<=30
trans-1,4-Dichloro-2-butene	RC1500031-10	T	Average RF	50	42.50	ppm	-15.0	<=30
1,2-Dichloroethane-d4	RC1500031-10	S	Average RF	50	50.90	ppm	1.8	<=30
4-Bromofluorobenzene	RC1500031-10	S	Average RF	50	54.91	ppm	9.8	<=30
Dibromofluoromethane	RC1500031-10	S	Average RF	50	51.27	ppm	2.5	<=30
Toluene-d8	RC1500031-10	S	Average RF	50	50.84	ppm	1.7	<=30

Exceptions

QAP	Method
CRA-OXY	8260C

Compound	Type	Criteria	Result
2-Nitropropane	Percent Difference	<= 30	32.52

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:41 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	909914	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1612281	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.01	117	1653554	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.61	152	835251	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	532116	51.27	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.54%				
48) surr1,1,2-Diclethane	10.33	65	532642	50.90	ppb		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.80%				
70) surr3,Toluene-d8	13.38	98	1825354	50.84	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.68%				
71) surr2,bfb	18.25	95	857278	54.91	ppb		-0.01
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.40	85	698248	60.48	ppb		99
3) Chloromethane	4.74	50	649999	52.54	ppb		97
4) Vinyl Chloride	4.94	62	599820	53.83	ppb		98
5) Bromomethane	5.51	96	414717	50.84	ppb		100
6) Chloroethane	5.66	64	443819	52.53	ppb		99
7) FREON 21	5.89	67	1283921	61.88	ppb		99
8) Trichlorofluoromethane	6.05	101	742562	55.27	ppb		97
9) Diethyl Ether	6.40	59	474405	58.64	ppb		100
10) FREON 123A	6.35	67	730201m	60.36	ppb		
11) FREON 123	6.42	83	718196m	56.46	ppb		
12) Acrolein	6.59	56	157913	108.75	ppb		95
13) FREON 113	6.75	101	501939	54.33	ppb		100
14) 1,1-Diclethene	6.80	96	429595	52.62	ppb		95
15) Acetone	6.78	43	186540	54.66	ppb		92
16) 2-Propanol	6.85	45	496325	1069.66	ppb		98
17) Iodomethane	7.07	142	802536	53.14	ppb		100
18) Carbon Disulfide	7.21	76	1988304	52.84	ppb		99
19) Acetonitrile	7.14	41	250608	287.45	ppb		98
20) Allyl Chloride	7.25	41	903120	51.64	ppb		99
21) Methyl Acetate	7.19	43	345622	53.95	ppb		95
22) Methylene Chloride	7.40	84	554426	53.06	ppb		98
23) TBA	7.39	59	729465	1068.67	ppb		100
24) Acrylonitrile	7.68	53	785360	269.88	ppb		96
25) Methyl-t-Butyl Ether	7.76	73	1441849	58.11	ppb		99
26) trans-1,2-Dichloroethene	7.81	96	510988	52.69	ppb		97
28) 1,1-Diclethane	8.37	63	962771m	55.86	ppb		
29) Vinyl Acetate	8.31	86	83244	60.81	ppb	#	86
30) DIPE	8.35	45	2009278	49.91	ppb		96
31) 2-Chloro-1,3-butadiene	8.51	53	920354	48.27	ppb		97
32) ETBE	8.85	59	1682366	50.37	ppb		99
33) 2,2-Dichloropropane	9.19	77	774840	57.50	ppb		98
34) 2-Butanone	9.09	43	241796	54.36	ppb		98
35) cis-1,2-Dichloroethene	9.16	96	581076	55.90	ppb		97
36) Propionitrile	9.17	54	276927	272.23	ppb		100
37) Methacrylonitrile	9.40	67	181062	53.09	ppb	#	85

(#) = qualifier out of range (m) = manual integration
W0623.D W032315.M Tue Mar 24 13:41:58 2015

KP 3/24/15

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:41 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.51	128	294229	55.65	ppb		98
39)	Chloroform	9.56	83	943055	55.74	ppb		93
40)	Tetrahydrofuran	9.59	42	130808	54.71	ppb		100
41)	1,1,1-Trichloroethane	9.94	97	786178	57.85	ppb		98
43)	Cyclohexane	10.08	56	1027640	52.54	ppb		98
45)	Carbontetrachloride	10.21	117	645636	50.83	ppb		100
46)	1,1-Dichloropropene	10.16	75	706113	48.69	ppb		98
47)	Iso-Butyl Alcohol	9.99	43	359680	977.47	ppb		99
49)	Benzene	10.49	78	2105850	50.38	ppb		99
50)	1,2-Dichloroethane	10.45	62	706624	53.31	ppb		98
51)	TAME	10.53	73	1414201	49.70	ppb		98
52)	N-Heptane	10.73	43	795811	53.24	ppb		96
53)	1-Butanol	10.97	56	511992	2637.97	ppb		98
54)	Trichloroethene	11.41	95	558221	52.47	ppb		97
55)	Methylcyclohexane	11.80	55	795275	51.64	ppb		98
56)	1,2-Diclpropane	11.77	63	599510	51.63	ppb		97
57)	Methyl Methacrylate	11.75	100	128463	53.83	ppb		97
58)	1,4-Dioxane	11.91	88	70370	992.78	ppb		93
59)	Dibromomethane	11.96	93	313879	52.75	ppb		98
60)	Bromodichloromethane	12.14	83	772774	55.11	ppb		96
61)	2-Nitropropane	12.46	43	289190	132.52	ppb		100
62)	2-Chloroethylvinyl Ether	12.52	63	299549	48.36	ppb		94
63)	cis-1,3-Dichloropropene	12.86	75	901955	51.50	ppb		99
65)	4-Methyl-2-Pentanone	13.03	43	488327	48.41	ppb		99
66)	Toluene	13.50	91	2128815	47.70	ppb		100
67)	trans-1,3-Dichloropropene	13.76	75	768629	48.09	ppb		99
68)	Ethyl Methacrylate	13.80	69	615458	47.62	ppb		98
69)	1,1,2-Trichloroethane	14.11	83	383046	46.02	ppb		96
72)	Tetrachloroethene	14.52	166	582672	47.49	ppb		97
73)	2-Hexanone	14.46	43	323306	48.11	ppb		95
74)	1,3-Dichloropropane	14.45	76	831721	47.69	ppb		98
75)	Butyl Acetate	14.62	43	823336	49.30	ppb		98
76)	Dibromochloromethane	14.90	129	577750	49.23	ppb		96
77)	1,2-Dibromoethane	15.19	107	456681	48.73	ppb		96
78)	Chlorobenzene	16.07	112	1437013	48.71	ppb		98
79)	3-CBTF	15.84	180	821669	49.38	ppb		99
80)	4-CBTF	15.94	180	735961	48.91	ppb		99
81)	1,1,1,2-Tetrachloroethane	16.17	131	540565	49.38	ppb		96
82)	Ethylbenzene	16.22	91	2204985	44.22	ppb		96
83)	(m+p)Xylene	16.42	106	1735603	93.92	ppb		96
84)	o-Xylene	17.22	106	852882	46.58	ppb		93
85)	Styrene	17.22	104	1520742	47.82	ppb		96
86)	Bromoform	17.65	173	328291	51.27	ppb		100
87)	2-CBTF	17.64	180	778485	49.07	ppb		99
88)	Isopropylbenzene	17.92	105	2190820	47.52	ppb		99
89)	Cyclohexanone	18.14	55	1005165	918.40	ppb		98
91)	1,1,2,2-Tetrachloroethane	18.42	83	519509	47.48	ppb		98
92)	Trans-1,4-Dichloro-2-buten	18.52	53	114059	42.50	ppb	#	82
93)	1,2,3-Trichloropropane	18.57	110	151016	44.12	ppb		97
94)	n-Propylbenzene	18.73	91	2668864	45.96	ppb		99

(#) = qualifier out of range (m) = manual integration
W0623.D W032315.M Tue Mar 24 13:41:59 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:41 2015 Quant Results File: W032315.RES

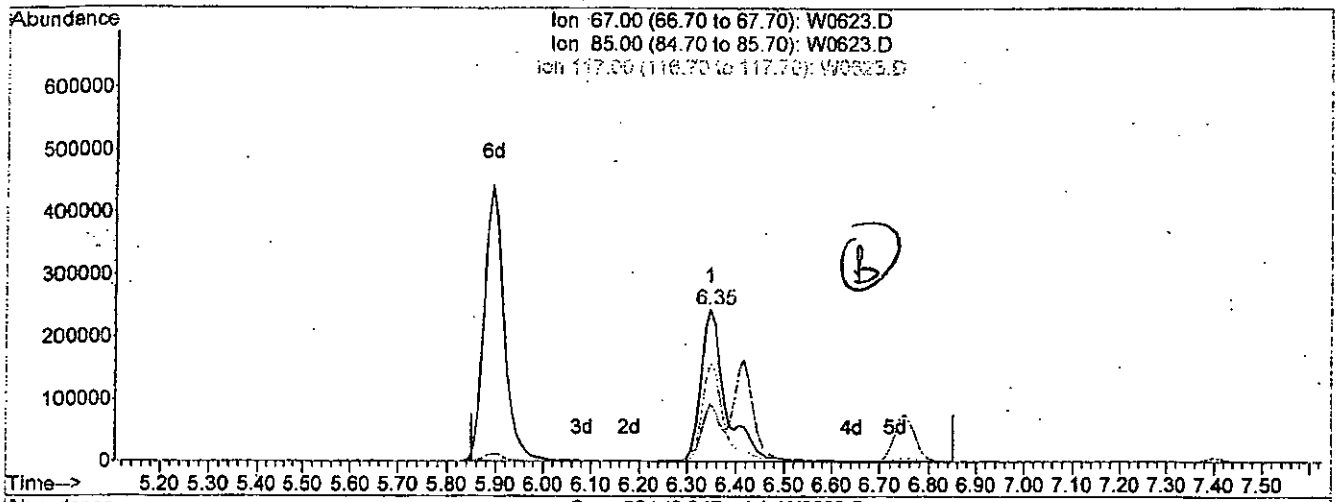
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Bromobenzene	18.64	156	583656	45.95	ppb	92
96)	1,3,5-Trimethylbenzene	19.05	105	1717248	45.49	ppb	99
97)	2-Chlorotoluene	18.99	91	1702184	46.24	ppb	99
98)	3-Chlorotoluene	19.09	91	1722043m	46.86	ppb	
99)	4-Chlorotoluene	19.19	91	1704707	45.77	ppb	100
100)	tert-Butylbenzene	19.76	119	1506761	45.40	ppb	96
101)	1,2,4-Trimethylbenzene	19.85	105	1767146	45.96	ppb	99
102)	3,4-DCBTF	19.90	214	568135	47.40	ppb	98
103)	sec-Butylbenzene	20.21	105	2157219	45.87	ppb	99
104)	p-Isopropyltoluene	20.46	119	1845487	47.10	ppb	99
105)	1,3-Dclbenz	20.50	146	1077830	46.07	ppb	97
106)	1,4-Dclbenz	20.66	146	1077737	45.89	ppb	99
107)	2,4-DCBTF	20.64	214	508460	49.78	ppb	99
108)	2,5-DCBTF	20.72	214	551071	46.39	ppb	99
109)	n-Butylbenzene	21.21	91	1735106	47.38	ppb	98
110)	1,2-Dclbenz	21.36	146	1033234	46.47	ppb	98
111)	1,2-Dibromo-3-chloropropan	22.79	157	102615	44.67	ppb	91
112)	Trielution Dichlorotoluene	23.06	125	2573047	141.29	ppb	100
114)	1,3,5 Trichlorobenzene	23.22	180	711702	47.15	ppb	99
115)	Coelution Dichlorotoluene	23.90	125	1804158	95.74	ppb	99
116)	1,2,4-Tcbenzene	24.42	180	647234	48.64	ppb	97
117)	Hexachlorobt	24.71	225	269916	49.98	ppb	94
118)	Naphthalen	24.94	128	1351948	47.45	ppb	99
119)	1,2,3-Tclbenzene	25.43	180	525125	46.85	ppb	100
120)	2,4,5-Trichlorotoluene	27.00	159	359132	49.09	ppb	98
121)	2,3,6-Trichlorotoluene	27.28	159	317942	51.65	ppb	99

(#) = qualifier out of range (m) = manual integration
W0623.D W032315.M Tue Mar 24 13:42:00 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 12:43 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0623.D

(10) FREON 123A

6.35min 72.45ppb

response 876515

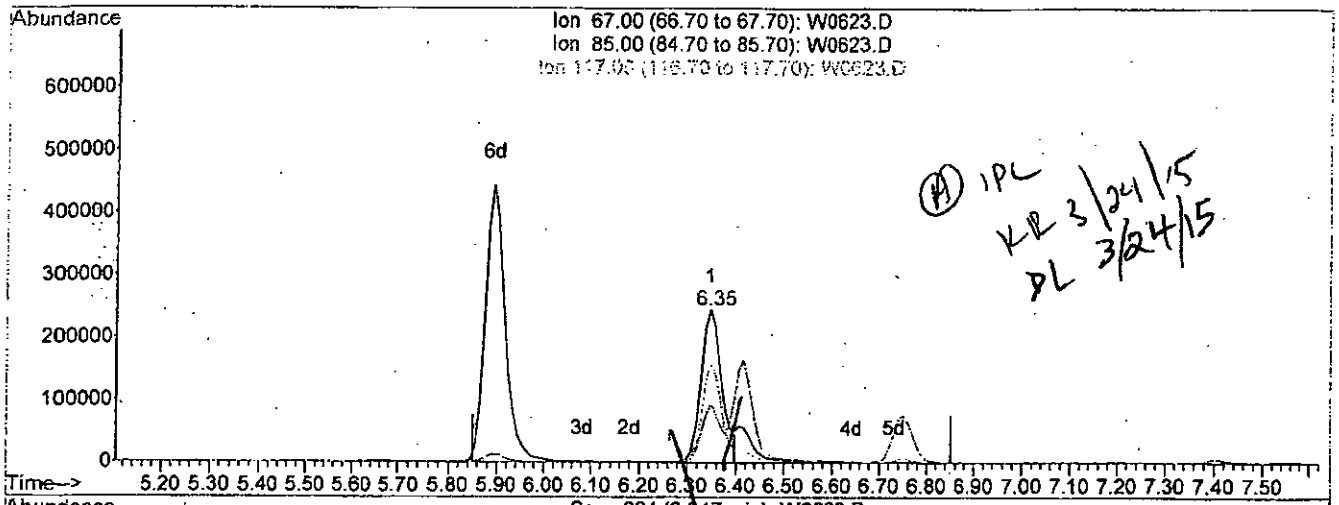
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	38.28
117.00	65.00	64.20
0.00	0.00	0.00

W0623.D W032315.M Tue Mar 24 13:39:56 2015

00476

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:40 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0623.D

(10) FREON 123A

6.35min 60.36ppb m

response 730201

Ion	Exp%	Act%
67.00	100	100
85.00	36.30	38.28
117.00	65.00	64.20
0.00	0.00	0.00

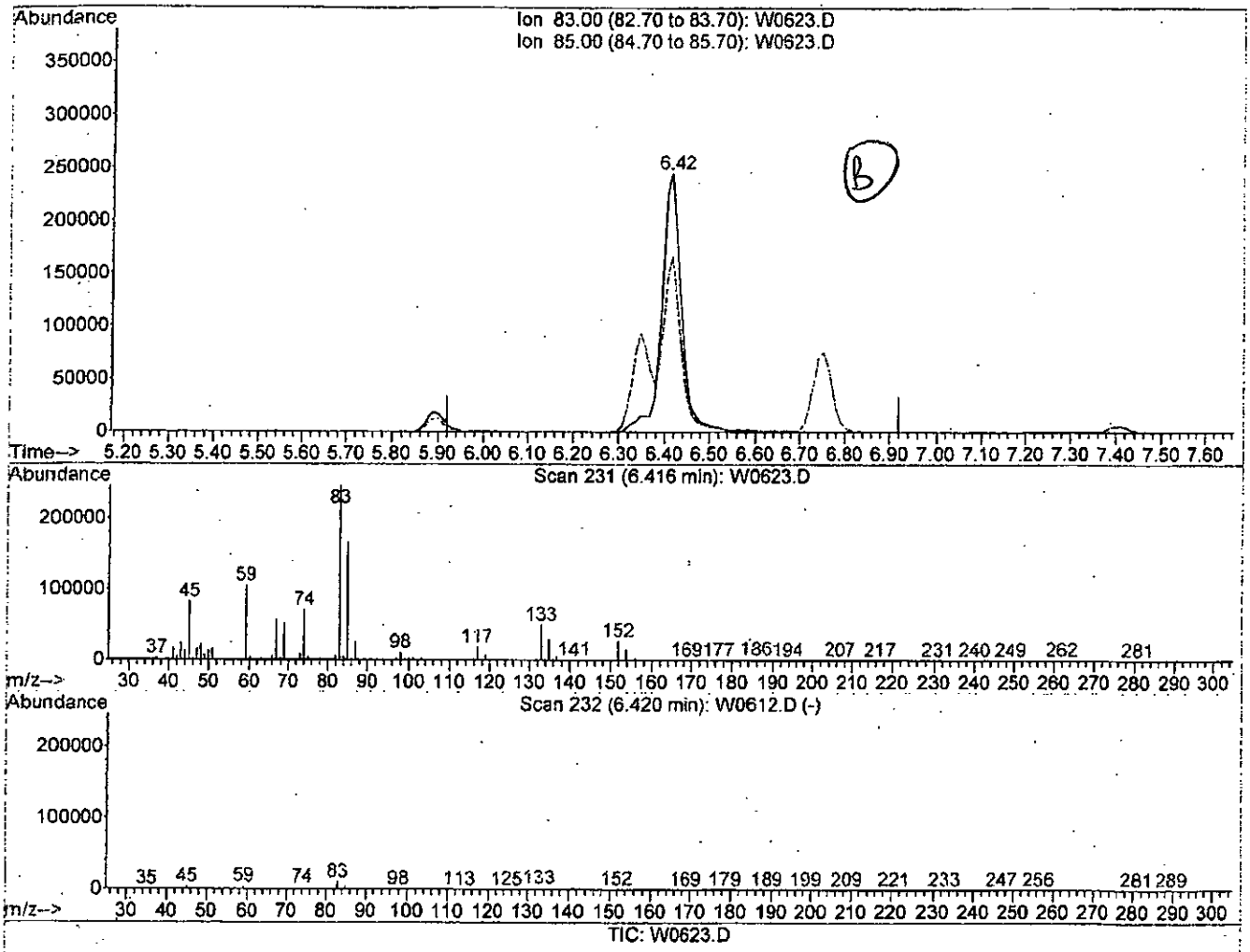
W0623.D W032315.M Tue Mar 24 13:40:04 2015

00477

Data Path : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D
Acq On : 24 Mar 2015 12:17 pm
Sample : ICV/LCS
Misc : 50ppb
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:40 2015

Vial: 6
Operator: K.Ruest
Inst : MS #7
Multiplr: 1.00
Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



(11) FREON 123

6.42min 59.31ppb

response 754490

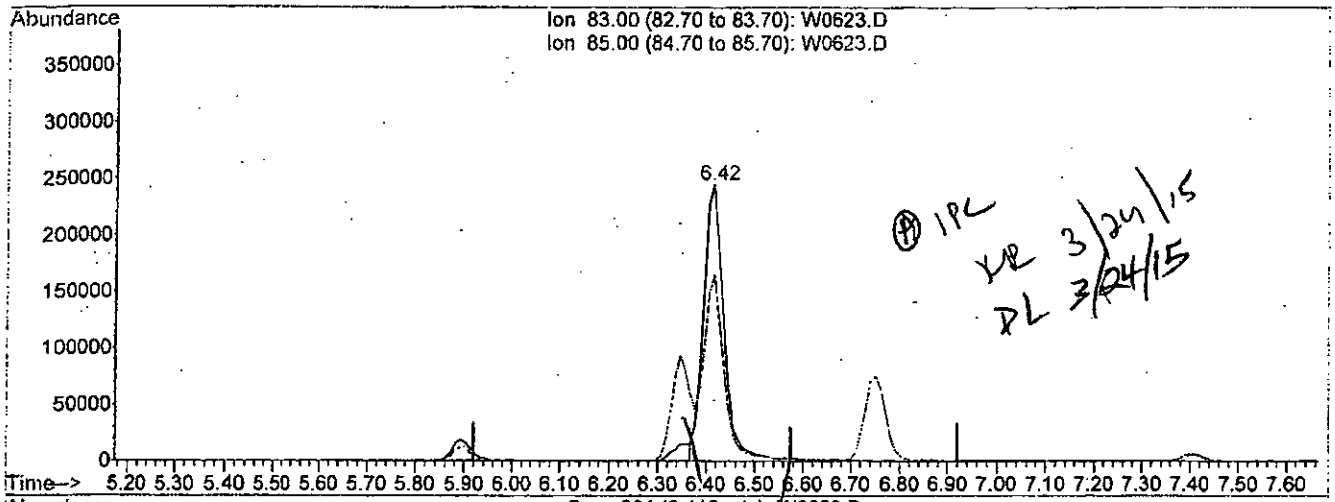
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.51
0.00	0.00	0.00
0.00	0.00	0.00

W0623.D W032315.M Tue Mar 24 13:40:09 2015

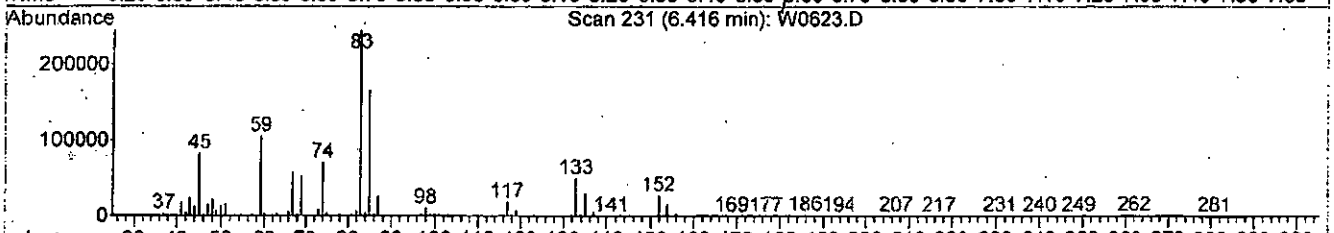
00478

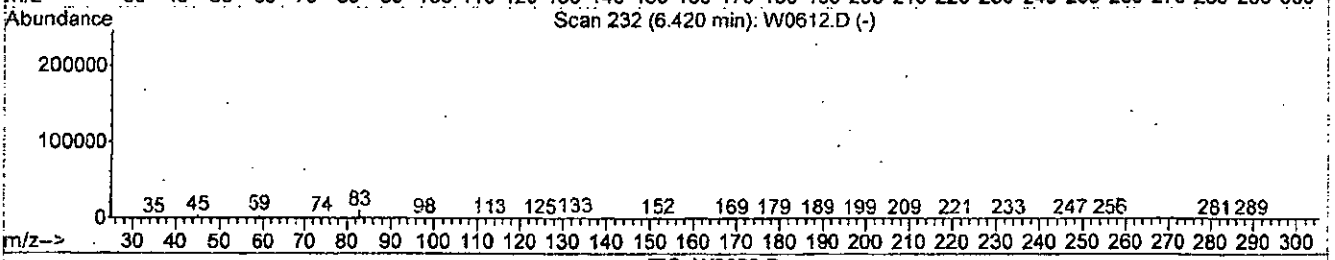
Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:40 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



IPC VR 3/24/15 DL 3/24/15





TIC: W0623.D

(11) FREON 123

6.42min 56.46ppb m

response 718196

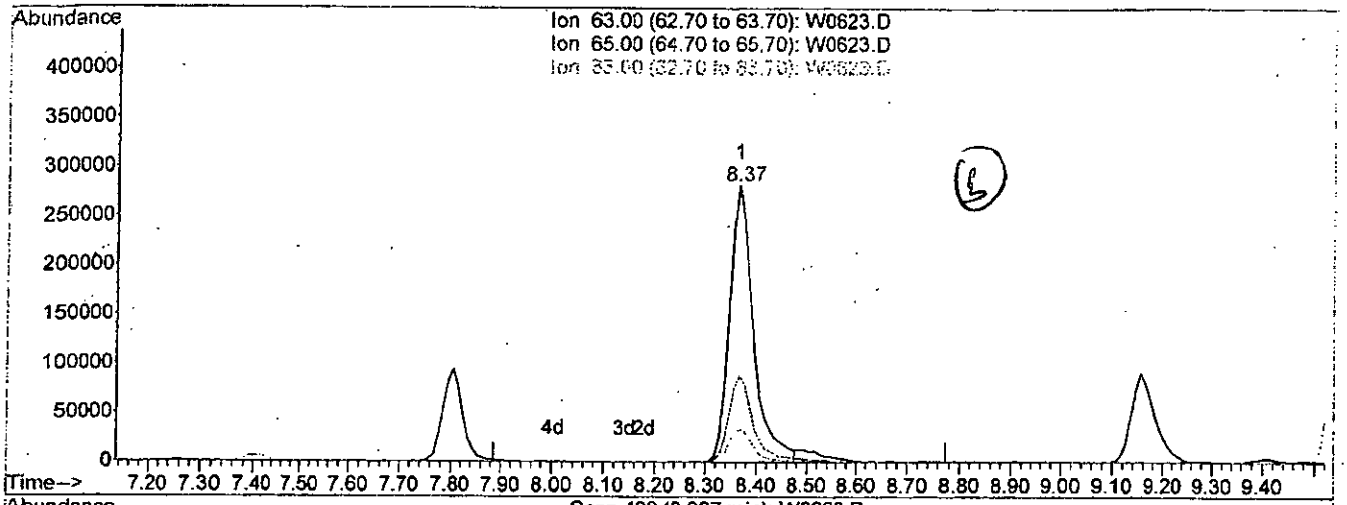
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.51
0.00	0.00	0.00
0.00	0.00	0.00

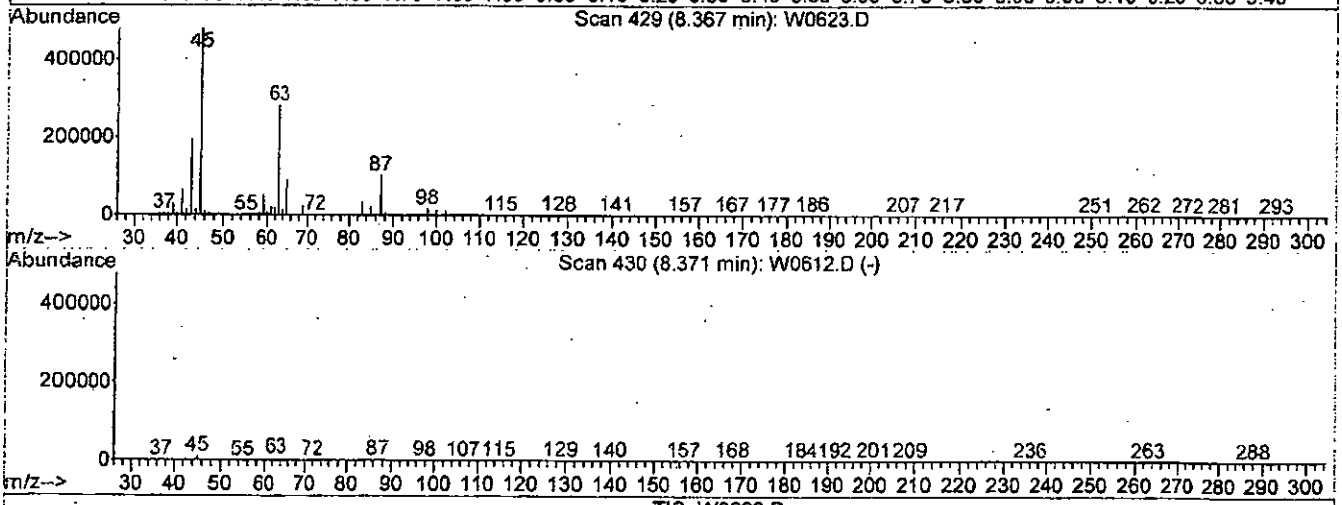
W0623.D W032315.M Tue Mar 24 13:40:15 2015

00479

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:40 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration





TIC: W0623.D

(28) 1,1-Diclethane (P)

8.37min 52.65ppb

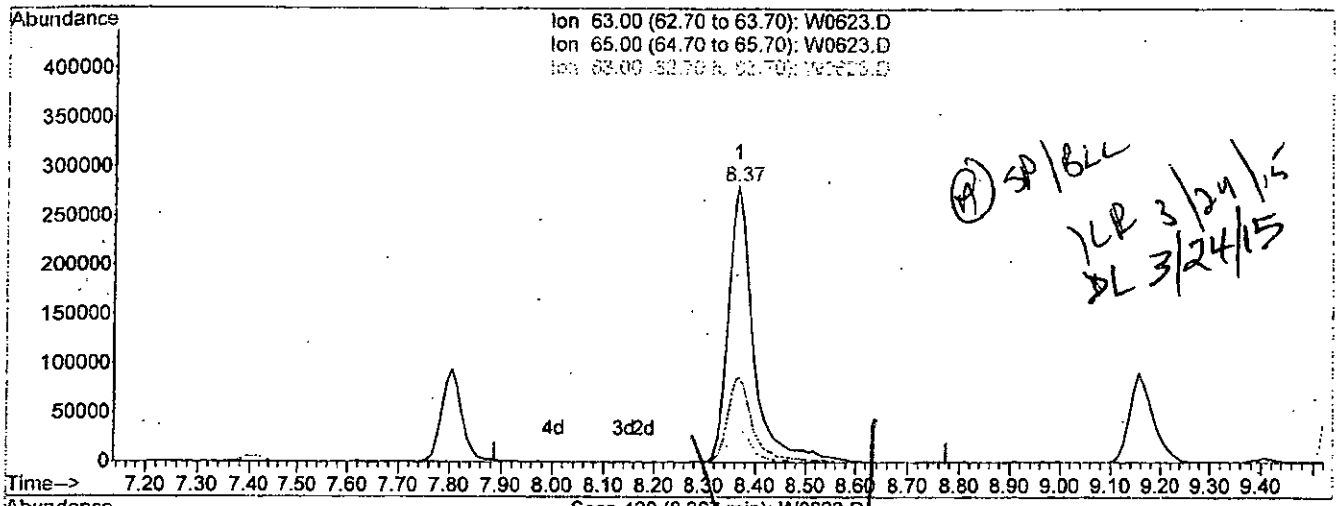
response 907571

Ion	Exp%	Act%
63.00	100	100
65.00	30.70	31.21
83.00	13.20	11.89
0.00	0.00	0.00

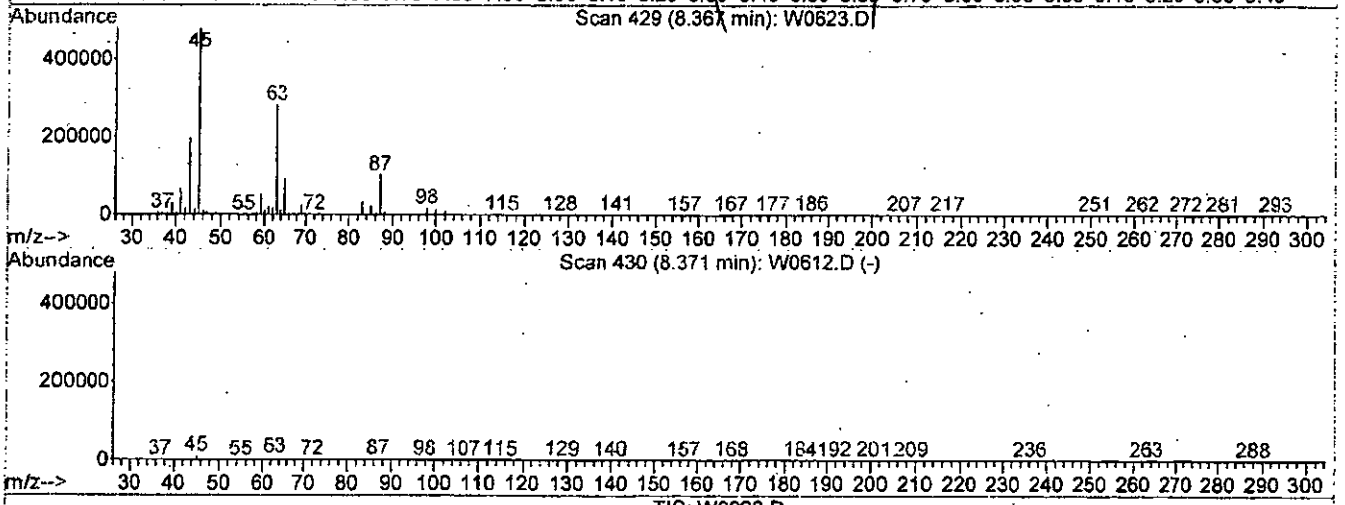
W0623.D W032315.M Tue Mar 24 13:40:36 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:40 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



SP/BLL 3/24/15
JLP 3/24/15
DL 3/24/15



TIC: W0623.D

(28) 1,1-Diclethane (P)

8.37min 55.86ppb m

response 962771

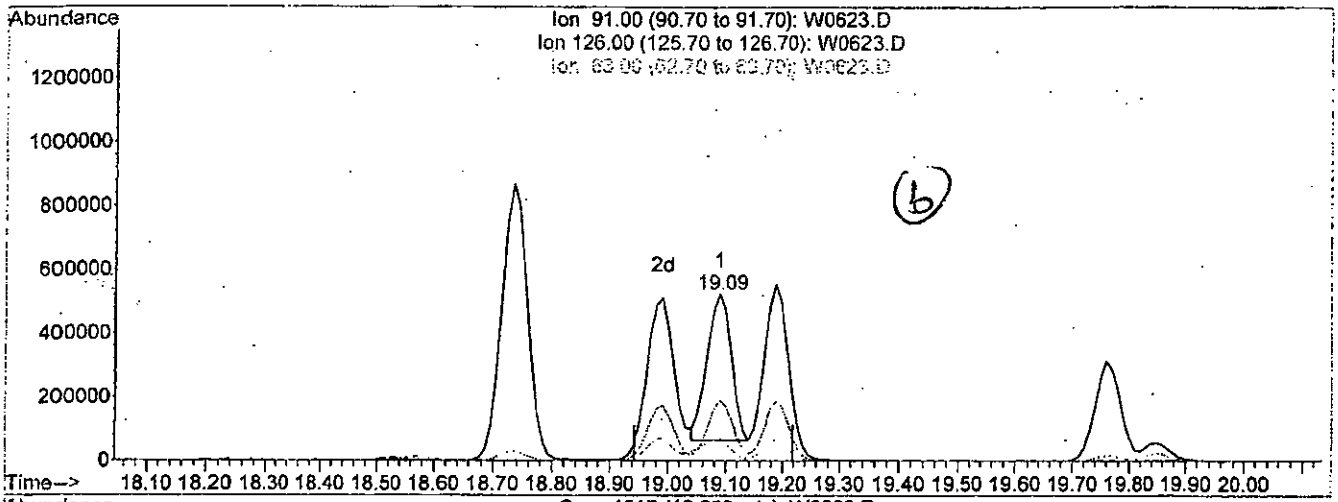
Ion	Exp%	Act%
63.00	100	100
65.00	30.70	31.21
83.00	13.20	11.89
0.00	0.00	0.00

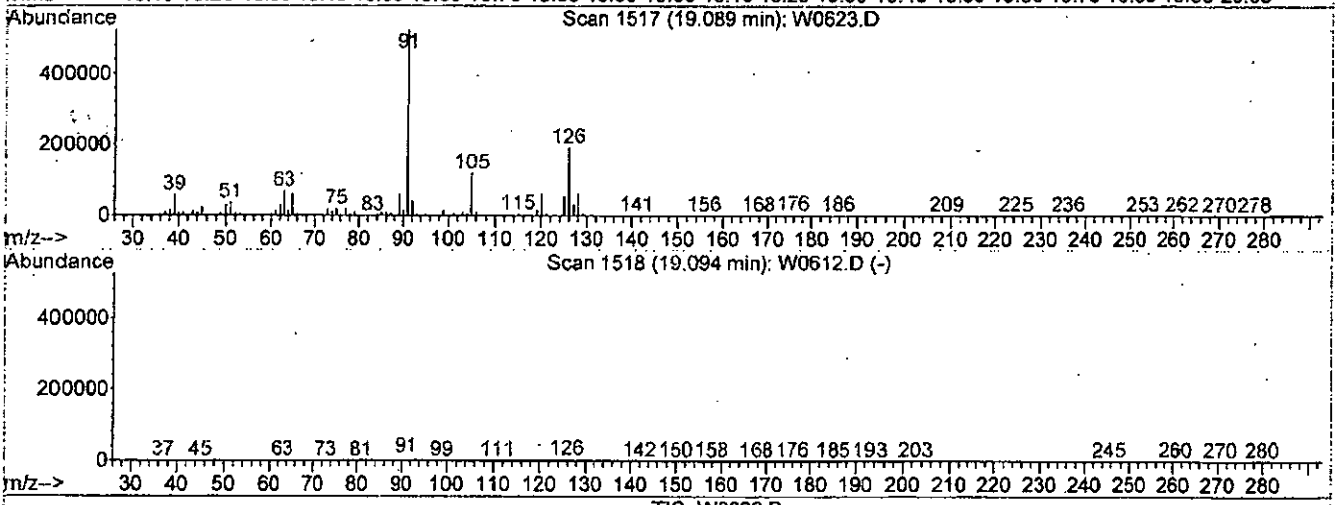
W0623.D W032315.M Tue Mar 24 13:40:41 2015

00481

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:40 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration





TIC: W0623.D

(98) 3-Chlorotoluene

19.09min 36.43ppb

response 1338721

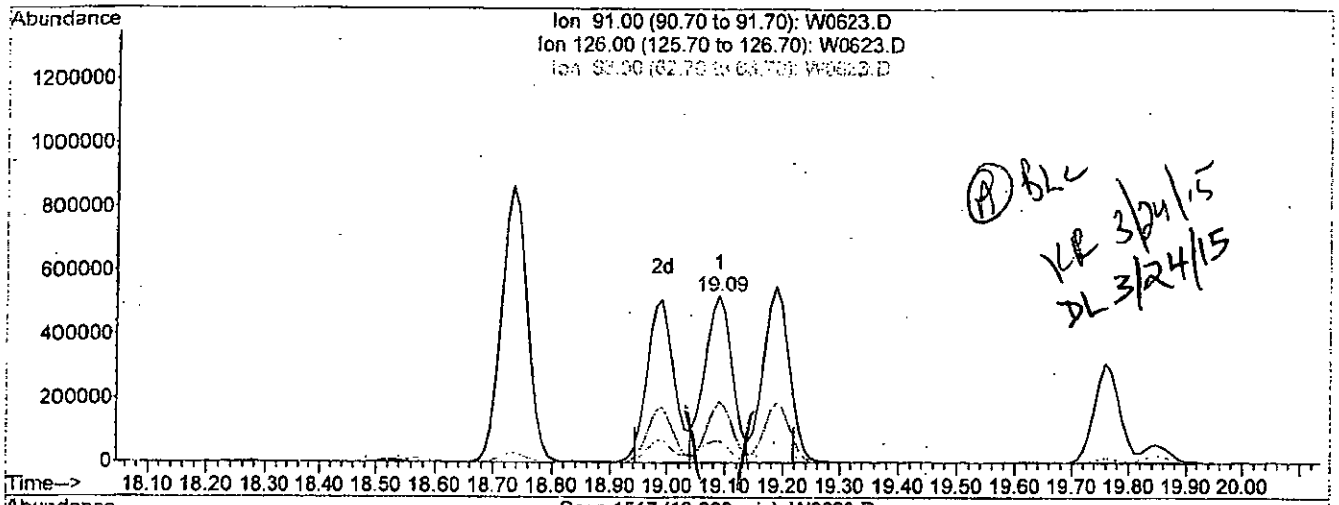
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	36.69#
63.00	12.50	15.45#
0.00	0.00	0.00

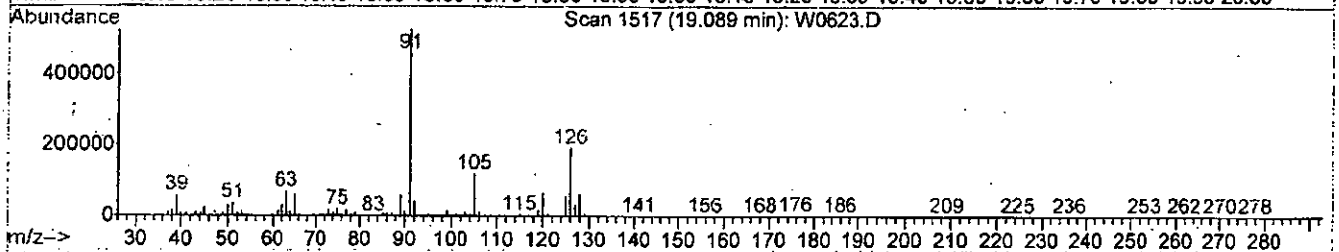
W0623.D W032315.M Tue Mar 24 13:41:23 2015

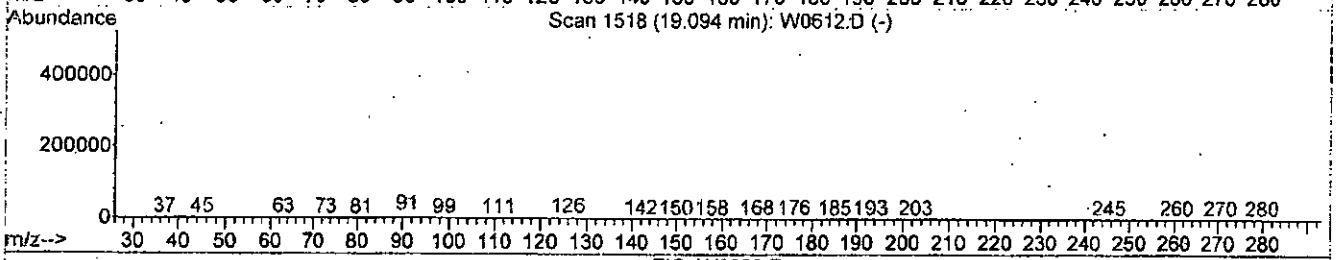
00482

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:41 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0623.D

(98) 3-Chlorotoluene

19.09min 46.86ppb m

response 1722043

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	28.52
63.00	12.50	12.01
0.00	0.00	0.00

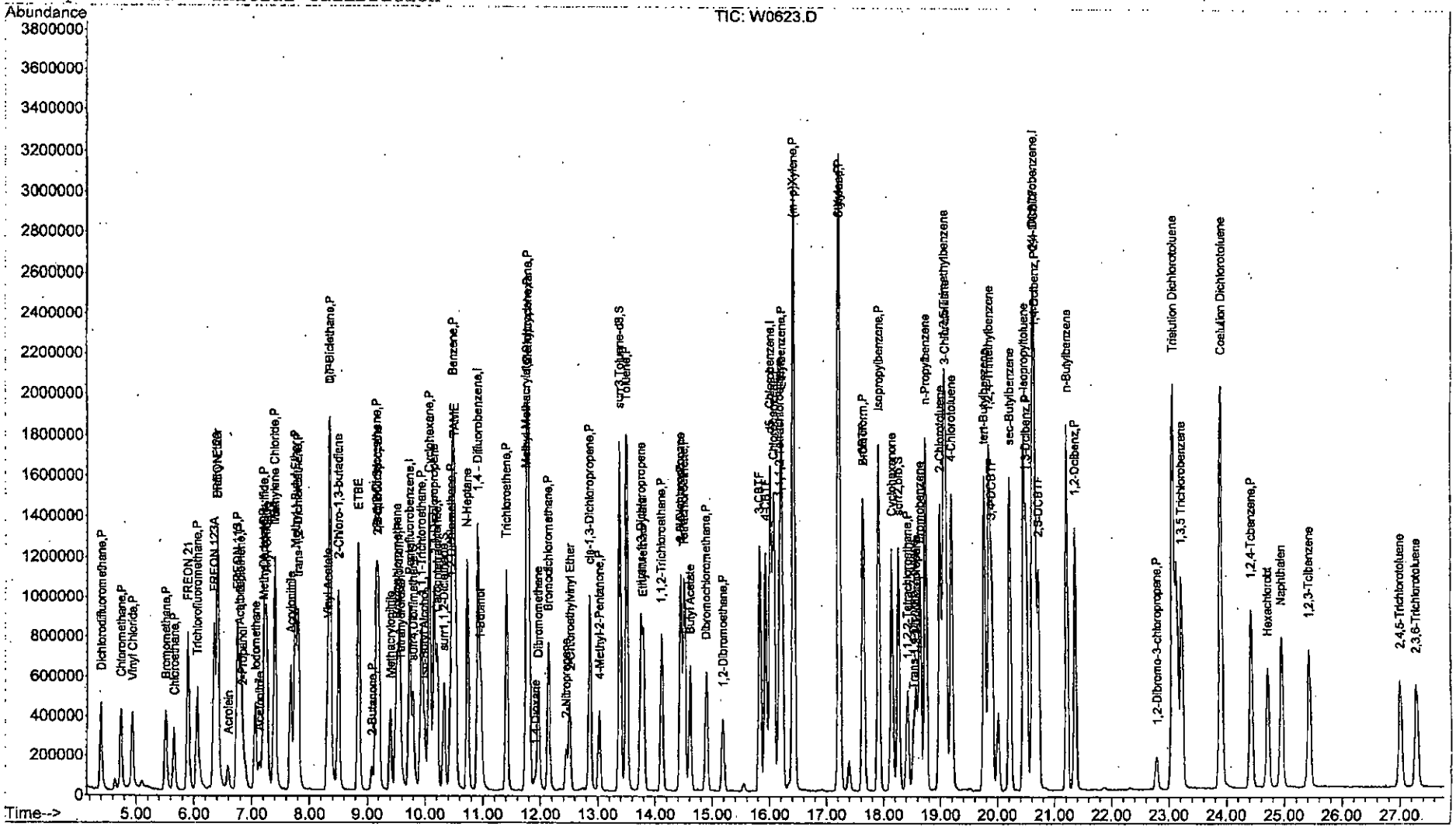
W0623.D W032315.M Tue Mar 24 13:41:28 2015

00483

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\032415\W0623.D Vial: 6
Acq On : 24 Mar 2015 12:17 pm Operator: K.Ruest
Sample : ICV/LCS Inst : MS #7
Misc : 50ppb Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Mar 24 13:41 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0623.D W032315.M Tue Mar 24 13:42:04 2015 Page 4

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/ 2/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D\

Calibration Date: 3/23/15
Calibration ID: RC1500031
Analysis Lot: 438870
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	54.3	0.3310	0.3597	8.7	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	52.5	0.7468	0.7836	4.9	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	48.8	0.6550	0.6387	-2.5	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	48.0	0.2517	0.2419	-3.9	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	44.9	0.9472	0.8512	-10.1	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	43.2	0.4486	0.3874	-13.7	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	50.8	0.4497	0.4571	1.6	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	51.2	0.6710	0.6866	2.3	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	48.5	0.2049	0.1987	-3.0	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	52.2	0.7965	0.8316	4.4	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	51.9	2.302	2.391	3.9	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	50.5	0.1375	0.1388	0.9	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	51.4	0.2834	0.2910	2.7	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	49.5	1.331	1.318	-1.0	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	57.8	0.4110	0.4749	15.5	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	46.2	0.3601	0.3327	-7.6	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	51.1	2.260	2.309	2.2	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	49.4	1.400	1.383	-1.3	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	50.2	0.5273	0.5294	0.4	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	49.3	1.406	1.385	-1.5	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	50.6	0.7405	0.7493	1.2	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	42.5	0.2444	0.2077	-15.0	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	50.9	2.204	2.242	1.7	NA	± 20 %	Average RF
2-Hexanone	50.0	51.3	0.2032	0.2085	2.6	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	937	0.03751	0.03515	-6.3	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	51.3	2.230	2.289	2.7	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	50.4	2.345	2.362	0.7	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	49.3	0.3050	0.3004	-1.5	NA	± 20 %	Average RF
Acetone	50.0	45.4	0.1875	0.1703	-9.2	NA	± 20 %	Average RF
Benzene	50.0	45.4	1.296	1.177	-9.2	NA	± 20 %	Average RF
Bromobenzene	50.0	50.2	0.7603	0.7640	0.5	NA	± 20 %	Average RF
Bromochloromethane	50.0	43.7	0.2905	0.2540	-12.6	NA	± 20 %	Average RF
Bromodichloromethane	50.0	53.8	0.4349	0.4674	7.5	NA	± 20 %	Average RF
Bromoform	50.0	59.1	0.1936	0.2287	18.1	NA	± 20 %	Average RF
Bromomethane	50.0	39.3	0.4482	0.3526	-21.3 *	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	54.9	0.3939	0.4322	9.7	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.0	0.8920	0.8916	0.0	NA	± 20 %	Average RF
Chloroethane	50.0	38.6	0.4643	0.3585	-22.8 *	NA	± 20 %	Average RF
Chloroform	50.0	48.8	0.9297	0.9073	-2.4	NA	± 20 %	Average RF
Chloromethane	50.0	42.9	0.6798	0.5839	-14.1	NA	± 20 %	Average RF
Dibromochloromethane	50.0	53.4	0.3549	0.3790	6.8	NA	± 20 %	Average RF

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/ 2/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D\

Calibration Date: 3/23/15
Calibration ID: RC1500031
Analysis Lot: 438870
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	45.2	0.6344	0.5734	-9.6	NA	± 20 %	Average RF
Methylene Chloride	50.0	41.5	0.5742	0.4760	-17.1	NA	± 20 %	Average RF
Ethylbenzene	50.0	51.8	1.508	1.563	3.6	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	56.3	0.3233	0.3638	12.6	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	51.9	1.394	1.446	3.7	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	49.0	1.363	1.337	-1.9	NA	± 20 %	Average RF
Naphthalene	50.0	49.1	1.706	1.677	-1.7	NA	± 20 %	Average RF
Styrene	50.0	49.9	0.9616	0.9606	-0.1	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	50.7	0.3710	0.3761	1.4	NA	± 20 %	Average RF
Toluene	50.0	50.0	1.349	1.348	-0.1	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	48.3	0.3299	0.3189	-3.3	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	51.2	0.7383	0.7564	2.5	NA	± 20 %	Average RF
Vinyl Chloride	50.0	48.0	0.6123	0.5883	-3.9	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	43.0	0.5712	0.4915	-14.0	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	50.8	0.5432	0.5517	1.6	NA	± 20 %	Average RF
m,p-Xylenes	100	98.3	0.5588	0.5495	-1.7	NA	± 20 %	Average RF
n-Butylbenzene	50.0	49.8	2.192	2.183	-0.4	NA	± 20 %	Average RF
n-Propylbenzene	50.0	49.8	3.476	3.464	-0.4	NA	± 20 %	Average RF
o-Xylene	50.0	49.4	0.5537	0.5469	-1.2	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	48.7	2.815	2.742	-2.6	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	50.2	1.987	1.993	0.3	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	42.1	0.5329	0.4487	-15.8	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	55.8	0.4833	0.5398	11.7	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	56.9	0.4721	0.5373	13.8	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	54.8	0.3219	0.3529	9.6	NA	± 20 %	Average RF
Toluene-d8	50.0	56.1	1.086	1.217	12.1	NA	± 20 %	Average RF

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level 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)	
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	87	0.04	
2	P	Dichlorodifluoromethane	0.6344	0.5734	9.6	73	0.02	
3	P	Chloromethane	0.6798	0.5839	14.1	75	0.02	
4	P	Vinyl Chloride	0.6123	0.5883	3.9	79	0.02	
5	P	Bromomethane	0.4482	0.3526	21.3#	65	0.03	⊗
6	P	Chloroethane	0.4643	0.3585	22.8#	67	0.03	⊗
7		FREON 21	1.1401	0.9741	14.6	72	0.03	
8	P	Trichlorofluoromethane	0.7383	0.7564	-2.5	87	0.03	
9		Diethyl Ether	0.4445	0.3813	14.2	74	0.03	
10		FREON 123A	0.6648	0.5318	20.0#	71	0.03	
11		FREON 123	0.6990	0.5485	21.5#	68	0.03	
12		Acrolein	0.0798	0.0573	28.2#	64	0.03	
13	P	FREON 113	0.5077	0.4500	11.4	75	0.04	
14	P	1,1-Diclethene	0.4486	0.3874	13.6	74	0.04	
15	P	Acetone	0.1875	0.1703	9.2	78	0.03	
16		2-Propanol	0.0255	0.0213	16.5	73	0.04	
17		Iodomethane	0.8298	0.6616	20.3#	67	0.03	
18	P	Carbon Disulfide	2.0677	1.6405	20.7#	67	0.04	⊗
19		Acetonitrile	0.0479	0.0434	9.4	72	0.03	
20		Allyl Chloride	0.9611	0.7989	16.9	70	0.04	
21	P	Methyl Acetate	0.3520	0.3004	14.7	74	0.04	
22	P	Methylene Chloride	0.5742	0.4760	17.1	75	0.04	
23		TBA	0.0375	0.0352	6.1	81	0.03	
24		Acrylonitrile	0.1599	0.1337	16.4	72	0.03	
25	P	Methyl-t-Butyl Ether	1.3635	1.3370	1.9	84	0.03	
26	P	trans-1,2-Dichloroethene	0.5329	0.4487	15.8	74	0.04	
27		Halothane	0.0000	0.0000	0.0	134	-0.12	
28	P	1,1-Diclethane	0.9472	0.8512	10.1	77	0.04	
29		Vinyl Acetate	0.0752	0.0732	2.7	86	0.04	
30		DIPE	2.2121	1.8892	14.6	77	0.04	
31		2-Chloro-1,3-butadiene	1.0477	0.9441	9.9	78	0.04	
32		ETBE	1.8353	1.7199	6.3	82	0.04	
33		2,2-Dichloropropane	0.7405	0.7493	-1.2	88	0.04	
34	P	2-Butanone	0.2444	0.2077	15.0	74	0.03	
35	P	cis-1,2-Dichloroethene	0.5712	0.4915	14.0	73	0.04	
36		Propionitrile	0.0559	0.0465	16.8	74	0.04	
37		Methacrylonitrile	0.1874	0.1554	17.1	71	0.04	
38		Bromochloromethane	0.2905	0.2540	12.6	76	0.04	
39	P	Chloroform	0.9297	0.9073	2.4	84	0.04	
40		Tetrahydrofuran	0.1314	0.1085	17.4	75	0.04	
41	P	1,1,1-Trichloroethane	0.7468	0.7836	-4.9	87	0.04	
42	I	1,4 - Difluorobenzene	1.0000	1.0000	0.0	81	0.04	
43	P	Cyclohexane	0.6065	0.5153	15.0	67	0.04	
44	S	surr4,Dibrflmethane	0.3219	0.3529	-9.6	86	0.04	
45	P	Carbontetrachloride	0.3939	0.4322	-9.7	87	0.04	
46		1,1-Dichloropropene	0.4497	0.4571	-1.6	81	0.04	
47		Iso-Butyl Alcohol	0.0114	0.0101	11.4	73	0.04	
48	S	surr1,1,2-Diclethane	0.3245	0.3975	-22.5#	96	0.05	
49	P	Benzene	1.2964	1.1774	9.2	74	0.04	

(#) = Out of Range
W0845.D W032315.M Thu Apr 02 13:24:08 2015 00487 Page 1

Evaluate Continuing Calibration Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level 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)
50	P	1,2-Dichloroethane	0.4110	0.4749	-15.5	91	0.04
51		TAME	0.8825	0.8879	-0.6	82	0.04
52		N-Heptane	0.4636	0.4266	8.0	74	0.05
53		1-Butanol	0.0060	0.0060	0.0	73	0.04
54	P	Trichloroethene	0.3299	0.3189	3.3	75	0.05
55	P	Methylcyclohexane	0.4776	0.4129	13.5	71	0.05
56	P	1,2-Diclpropane	0.3601	0.3327	7.6	75	0.04
57		Methyl Methacrylate	0.0740	0.0733	0.9	77	0.04
58		1,4-Dioxane	0.0022	0.0018	18.2	71	0.05
59		Dibromomethane	0.1845	0.1843	0.1	78	0.05
60	P	Bromodichloromethane	0.4349	0.4674	-7.5	83	0.05
61		2-Nitropropane	0.0677	0.0878	-29.7#	100	0.04
62		2-Chloroethylvinyl Ether	0.1921	0.1374	28.5#	59	0.04
63	P	cis-1,3-Dichloropropene	0.5432	0.5517	-1.6	80	0.05
64	I	d5 - Chlorobenzene	1.0000	1.0000	0.0	78	0.05
65	P	4-Methyl-2-Pentanone	0.3050	0.3004	1.5	75	0.04
66	P	Toluene	1.3494	1.3482	0.1	77	0.05
67		trans-1,3-Dichloropropene	0.4833	0.5398	-11.7	85	0.04
68		Ethyl Methacrylate	0.3908	0.4077	-4.3	80	0.05
69	P	1,1,2-Trichloroethane	0.2517	0.2419	3.9	76	0.04
70	S	surr3,Toluene-d8	1.0856	1.2172	-12.1	81	0.05
71	S	surr2,bfb	0.4721	0.5373	-13.8	82	0.05
72	P	Tetrachloroethene	0.3710	0.3761	-1.4	78	0.05
73	P	2-Hexanone	0.2032	0.2085	-2.6	78	0.04
74		1,3-Dichloropropane	0.5273	0.5294	-0.4	78	0.05
75		Butyl Acetate	0.5050	0.5066	-0.3	77	0.04
76	P	Dibromochloromethane	0.3549	0.3790	-6.8	81	0.04
77	P	1,2-Dibromoethane	0.2834	0.2910	-2.7	77	0.05
78	P	Chlorobenzene	0.8920	0.8916	0.0	75	0.05
79		3-CBTF	0.5031	0.4887	2.9	75	0.04
80		4-CBTF	0.4550	0.4322	5.0	75	0.05
81		1,1,1,2-Tetrachloroethane	0.3310	0.3597	-8.7	81	0.04
82	P	Ethylbenzene	1.5079	1.5626	-3.6	80	0.04
83	P	(m+p)Xylene	0.5588	0.5495	1.7	77	0.04
84	P	o-Xylene	0.5537	0.5469	1.2	77	0.05
85	P	Styrene	0.9616	0.9606	0.1	76	0.05
86	P	Bromoform	0.1936	0.2287	-18.1	86	0.05
87		2-CBTF	0.4797	0.4603	4.0	76	0.05
88	P	Isopropylbenzene	1.3939	1.4455	-3.7	80	0.05
89		Cyclohexanone	0.0331	0.0386	-16.6	92	0.05
90	I	d4 - Dichlorobenzene	1.0000	1.0000	0.0	80	0.05
91	P	1,1,2,2-Tetrachloroethane	0.6550	0.6387	2.5	75	0.05
92		Trans-1,4-Dichloro-2-butene	0.1606	0.1811	-12.8	84	0.04
93		1,2,3-Trichloropropane	0.2049	0.1987	3.0	83	0.06
94		n-Propylbenzene	3.4761	3.4636	0.4	78	0.05
95		Bromobenzene	0.7603	0.7640	-0.5	80	0.04
96		1,3,5-Trimethylbenzene	2.2597	2.3091	-2.2	82	0.06
97		2-Chlorotoluene	2.2037	2.2418	-1.7	81	0.05

(#) = Out of Range
W0845.D W032315.M Thu Apr 02 13:24:11 2015

Data File: I:\ACQUDATA\MSVOA7\DATA\041015\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level 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)
98		3-Chlorotoluene	2.1999	2.1694	1.4	80	0.05
99		4-Chlorotoluene	2.2295	2.2893	-2.7	82	0.06
100		tert-Butylbenzene	1.9867	1.9932	-0.3	81	0.05
101		1,2,4-Trimethylbenzene	2.3019	2.3909	-3.9	82	0.05
102		3,4-DCBTF	0.7174	0.6880	4.1	80	0.05
103		sec-Butylbenzene	2.8155	2.7422	2.6	77	0.05
104		p-Isopropyltoluene	2.3455	2.3623	-0.7	80	0.04
105	P	1,3-Dclbenz	1.4004	1.3828	1.3	79	0.04
106	P	1,4-Dclbenz	1.4059	1.3854	1.5	80	0.05
107		2,4-DCBTF	0.6114	0.6090	0.4	77	0.05
108		2,5-DCBTF	0.7111	0.7037	1.0	80	0.04
109		n-Butylbenzene	2.1923	2.1829	0.4	78	0.05
110	P	1,2-Dclbenz	1.3311	1.3182	1.0	78	0.05
111	P	1,2-Dibromo-3-chloropropane	0.1375	0.1388	-0.9	84	0.06
112		Trielution Dichlorotoluene	1.0902	1.0577	3.0	78	0.04
113		Nitrobenzene	0.0000	0.0000	0.0	0#	-0.38
114		1,3,5 Trichlorobenzene	0.9036	0.8483	6.1	75	0.05
115		Coelution Dichlorotoluene	1.1280	1.1185	0.8	78	0.05
116	P	1,2,4-Tcbenzene	0.7965	0.8316	-4.4	79	0.05
117		Hexachlorobt	0.3233	0.3638	-12.5	89	0.05
118		Naphthalen	1.7057	1.6765	1.7	75	0.06
119		1,2,3-Tclbenzene	0.6710	0.6866	-2.3	78	0.06
120		2,4,5-Trichlorotoluene	0.4380	0.4244	3.1	77	0.06
121		2,3,6-Trichlorotoluene	0.3685	0.3691	-0.2	79	0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W0845.D W032315.M Thu Apr 02 13:24:13 2015 Page 3

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV RQ1503163-02 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:23 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.79	168	939227	50.00	ppb		0.04
42) 1,4 - Difluorobenzene	10.97	114	1432525	50.00	ppb		0.04
64) d5 - Chlorobenzene	16.07	117	1303277	50.00	ppb		0.05
90) d4 - Dichlorobenzene	20.67	152	654012	50.00	ppb		0.05
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.84	113	505472	54.81	ppb		0.04
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.62%				
48) surr1,1,2-Diclethane	10.39	65	569432	61.25	ppb		0.05
Spiked Amount 50.000	Range 80 - 120		Recovery = 122.50%# M				
70) surr3,Toluene-d8	13.44	98	1586405	56.06	ppb		0.05
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.12%				
71) surr2,bfb	18.32	95	700276	56.91	ppb		0.05
Spiked Amount 50.000	Range 85 - 122		Recovery = 113.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.42	85	538551	45.19	ppb		99
3) Chloromethane	4.77	50	548411	42.94	ppb		98
4) Vinyl Chloride	4.97	62	552563	48.04	ppb		100
5) Bromomethane	5.55	96	331157	39.33	ppb		98
6) Chloroethane	5.70	64	336750	38.61	ppb		92
7) FREON 21	5.93	67	914942	42.72	ppb		99
8) Trichlorofluoromethane	6.09	101	710447	51.23	ppb		99
9) Diethyl Ether	6.43	59	358099	42.89	ppb		98
10) FREON 123A	6.39	67	499447m	39.99	ppb		
11) FREON 123	6.45	83	515161m	39.24	ppb		
12) Acrolein	6.63	56	269309	179.68	ppb		99
13) FREON 113	6.80	101	422692	44.33	ppb		97
14) 1,1-Diclethene	6.85	96	363816	43.17	ppb		97
15) Acetone	6.81	43	159922	45.40	ppb		94
16) 2-Propanol	6.89	45	399562	834.24	ppb		97
17) Iodomethane	7.10	142	621410	39.87	ppb		94
18) Carbon Disulfide	7.26	76	1540782	39.67	ppb		100
19) Acetonitrile	7.17	41	203783	226.44	ppb		96
20) Allyl Chloride	7.30	41	750385	41.56	ppb		88
21) Methyl Acetate	7.24	43	282177	42.67	ppb		98
22) Methylene Chloride	7.45	84	447105	41.45	ppb		99
23) TBA	7.43	59	660330	937.19	ppb		95
24) Acrylonitrile	7.72	53	628025	209.08	ppb		92
25) Methyl-t-Butyl Ether	7.79	73	1255716	49.03	ppb		98
26) trans-1,2-Dichloroethene	7.85	96	421448	42.10	ppb		95
28) 1,1-Diclethane	8.42	63	799505	44.94	ppb		98
29) Vinyl Acetate	8.36	86	68785	48.68	ppb	#	73
30) DIPE	8.40	45	1774391	42.70	ppb		97
31) 2-Chloro-1,3-butadiene	8.55	53	886763	45.06	ppb		89
32) ETBE	8.90	59	1615355	46.85	ppb		99
33) 2,2-Dichloropropane	9.24	77	703788	50.60	ppb		98
34) 2-Butanone	9.13	43	195052	42.48	ppb		95
35) cis-1,2-Dichloroethene	9.20	96	461647	43.02	ppb		89
36) Propionitrile	9.21	54	218350	207.95	ppb		90
37) Methacrylonitrile	9.45	67	145915	41.45	ppb	#	81

(#) = qualifier out of range (m) = manual integration
W0845.D W032315.M Thu Apr 02 13:23:56 2015

4/2/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVQA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:23 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.56	128	238609	43.72	ppb		93
39)	Chloroform	9.61	83	852197	48.80	ppb		99
40)	Tetrahydrofuran	9.64	42	101932	41.31	ppb		88
41)	1,1,1-Trichloroethane	9.99	97	735944	52.46	ppb		99
43)	Cyclohexane	10.13	56	738199	42.48	ppb		99
45)	Carbontetrachloride	10.26	117	619156	54.87	ppb		99
46)	1,1-Dichloropropene	10.21	75	654806	50.82	ppb		94
47)	Iso-Butyl Alcohol	10.04	43	290342	888.04	ppb		94
49)	Benzene	10.53	78	1686667	45.41	ppb		99
50)	1,2-Dichloroethane	10.49	62	680273	57.76	ppb		97
51)	TAME	10.57	73	1271921	50.31	ppb		98
52)	N-Heptane	10.79	43	611176	46.02	ppb		99
53)	1-Butanol	11.02	56	428929	2487.31	ppb		99
54)	Trichloroethene	11.47	95	456835	48.33	ppb		97
55)	Methylcyclohexane	11.85	55	591470	43.23	ppb		99
56)	1,2-Diclpropane	11.83	63	476638	46.20	ppb		98
57)	Methyl Methacrylate	11.81	100	105069	49.55	ppb		94
58)	1,4-Dioxane	11.96	88	52572	834.75	ppb		86
59)	Dibromomethane	12.02	93	263956	49.92	ppb		88
60)	Bromodichloromethane	12.20	83	669615	53.75	ppb		98
61)	2-Nitropropane	12.51	43	251530	129.73	ppb		97
62)	2-Chloroethylvinyl Ether	12.56	63	196897	35.78	ppb		91
63)	cis-1,3-Dichloropropene	12.92	75	790364	50.79	ppb		100
65)	4-Methyl-2-Pentanone	13.08	43	391528	49.25	ppb		99
66)	Toluene	13.56	91	1757014	49.95	ppb		97
67)	trans-1,3-Dichloropropene	13.81	75	703475	55.84	ppb		96
68)	Ethyl Methacrylate	13.86	69	531283	52.15	ppb		95
69)	1,1,2-Trichloroethane	14.17	83	315208	48.04	ppb		94
72)	Tetrachloroethene	14.57	166	490224	50.69	ppb		96
73)	2-Hexanone	14.51	43	271762	51.31	ppb		89
74)	1,3-Dichloropropane	14.51	76	689984	50.20	ppb		99
75)	Butyl Acetate	14.66	43	660191	50.15	ppb		98
76)	Dibromochloromethane	14.95	129	493966	53.40	ppb		98
77)	1,2-Dibromoethane	15.25	107	379265	51.35	ppb		96
78)	Chlorobenzene	16.13	112	1161944	49.98	ppb		98
79)	3-CBTF	15.89	180	636941	48.57	ppb		93
80)	4-CBTF	15.99	180	563260	47.50	ppb		96
81)	1,1,1,2-Tetrachloroethane	16.23	131	468769	54.33	ppb		99
82)	Ethylbenzene	16.27	91	2036513	51.81	ppb		96
83)	(m+p)Xylene	16.48	106	1432239	98.33	ppb		87
84)	o-Xylene	17.28	106	712750	49.39	ppb		90
85)	Styrene	17.29	104	1251885	49.94	ppb		91
86)	Bromoform	17.72	173	298043	59.05	ppb		97
87)	2-CBTF	17.70	180	599906	47.98	ppb		94
88)	Isopropylbenzene	17.97	105	1883946	51.85	ppb		97
89)	Cyclohexanone	18.20	55	1006394	1166.66	ppb		99
91)	1,1,2,2-Tetrachloroethane	18.48	83	417717	48.75	ppb		98
92)	Trans-1,4-Dichloro-2-buten	18.58	53	118449	56.37	ppb	#	66
93)	1,2,3-Trichloropropane	18.64	110	129973	48.49	ppb		88
94)	n-Propylbenzene	18.79	91	2265215	49.82	ppb		97

(#) = qualifier out of range (m) = manual integration
W0845.D W032315.M Thu Apr 02 13:23:57 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:23 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

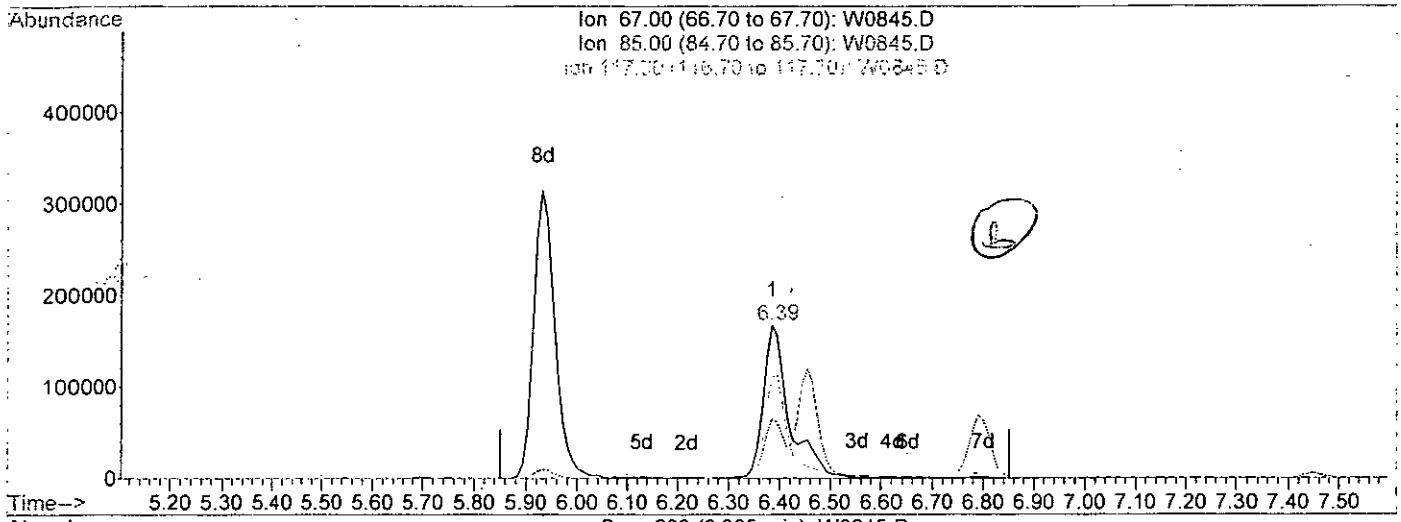
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
95)	Bromobenzene	18.69	156	499662	50.24	ppb		95
96)	1,3,5-Trimethylbenzene	19.12	105	1510203	51.09	ppb		95
97)	2-Chlorotoluene	19.05	91	1466146	50.86	ppb		98
98)	3-Chlorotoluene	19.15	91	1418817m	49.31	ppb		
99)	4-Chlorotoluene	19.26	91	1497206	51.34	ppb		97
100)	tert-Butylbenzene	19.83	119	1303581	50.16	ppb		96
101)	1,2,4-Trimethylbenzene	19.91	105	1563647	51.93	ppb		92
102)	3,4-DCBTF	19.96	214	449944	47.95	ppb		98
103)	sec-Butylbenzene	20.27	105	1793445	48.70	ppb		97
104)	p-Isopropyltoluene	20.51	119	1544976	50.36	ppb		97
105)	1,3-Dclbenz	20.56	146	904376	49.37	ppb		98
106)	1,4-Dclbenz	20.71	146	906090	49.27	ppb		99
107)	2,4-DCBTF	20.69	214	398308	49.80	ppb		96
108)	2,5-DCBTF	20.76	214	460204	49.47	ppb		99
109)	n-Butylbenzene	21.27	91	1427643	49.78	ppb		99
110)	1,2-Dclbenz	21.41	146	862116	49.52	ppb		97
111)	1,2-Dibromo-3-chloropropan	22.85	157	90755	50.46	ppb		92
112)	Trielution Dichlorotoluene	23.12	125	2075187	145.53	ppb	#	91
114)	1,3,5 Trichlorobenzene	23.28	180	554818	46.94	ppb		98
115)	Coelution Dichlorotoluene	23.96	125	1462966	99.15	ppb		97
116)	1,2,4-Tcbenzene	24.48	180	543858	52.20	ppb		98
117)	Hexachlorobt	24.78	225	237953	56.28	ppb		89
118)	Naphthalen	25.01	128	1096452	49.14	ppb		98
119)	1,2,3-Tclbenzene	25.49	180	449031	51.16	ppb		95
120)	2,4,5-Trichlorotoluene	27.07	159	277535	48.45	ppb		98
121)	2,3,6-Trichlorotoluene	27.36	159	241381	50.08	ppb		98

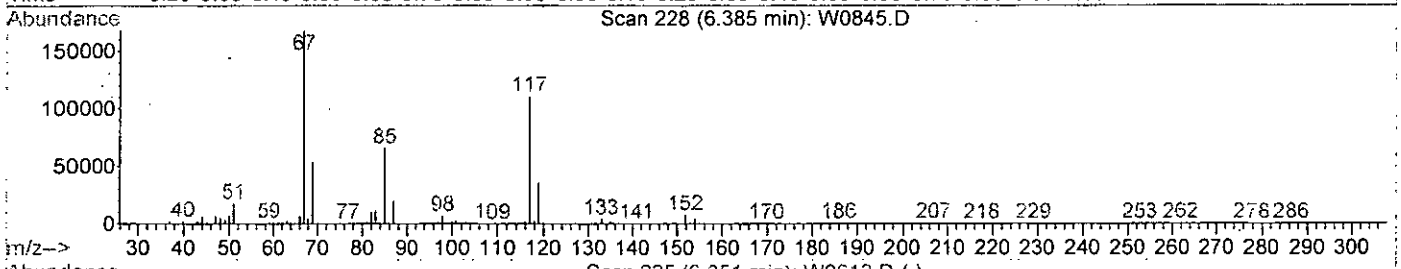
(#) = qualifier out of range (m) = manual integration
W0845.D W032315.M Thu Apr 02 13:23:58 2015

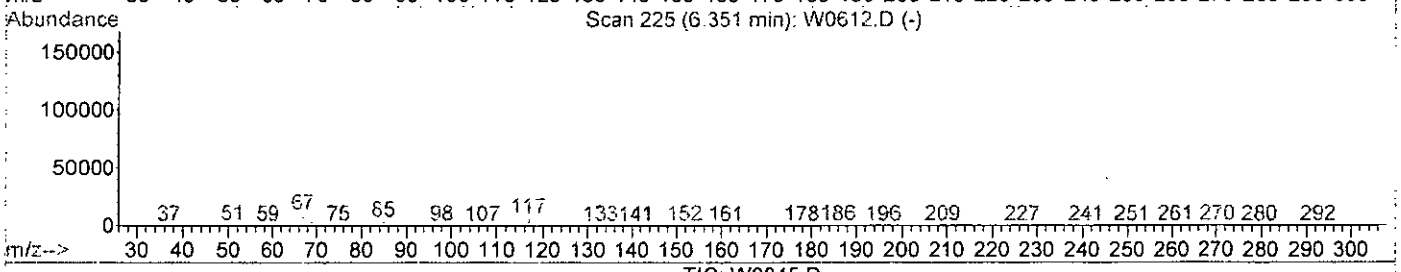
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 12:21 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0845.D

(10) FREON 123A

6.39min 48.17ppb

response 601555

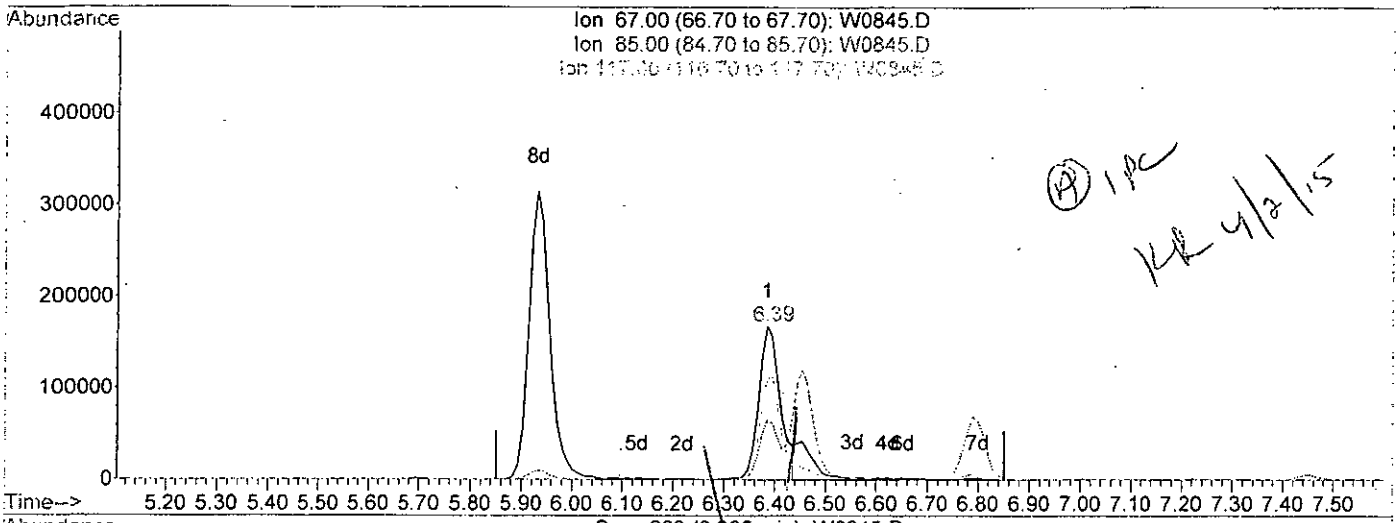
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	38.99
117.00	65.00	65.85
0.00	0.00	0.00

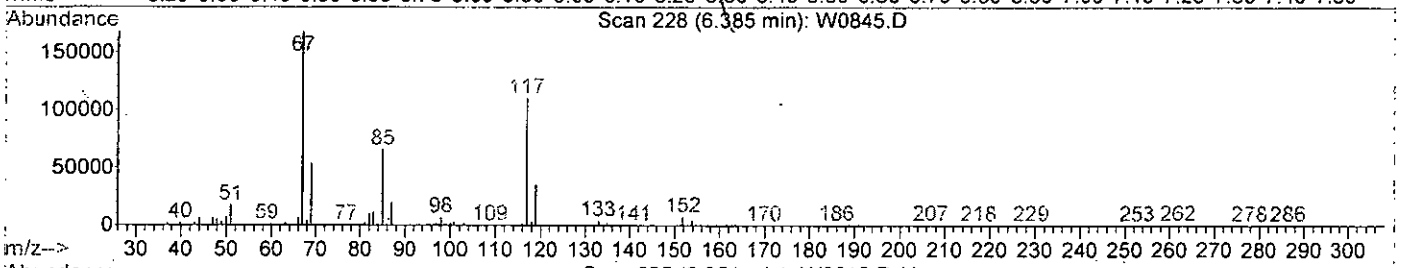
W0845.D W032315.M Thu Apr 02 13:21:57 2015 00493

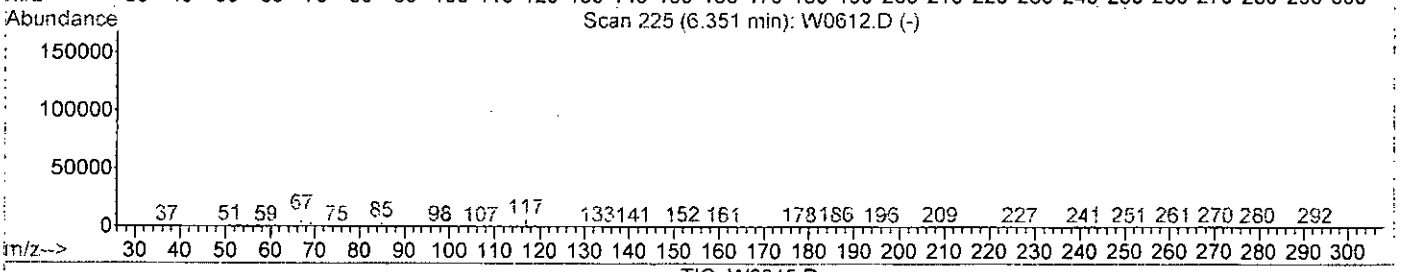
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:22 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0845.D

(10) FREON 123A

6.39min 39.99ppb m

response 499447

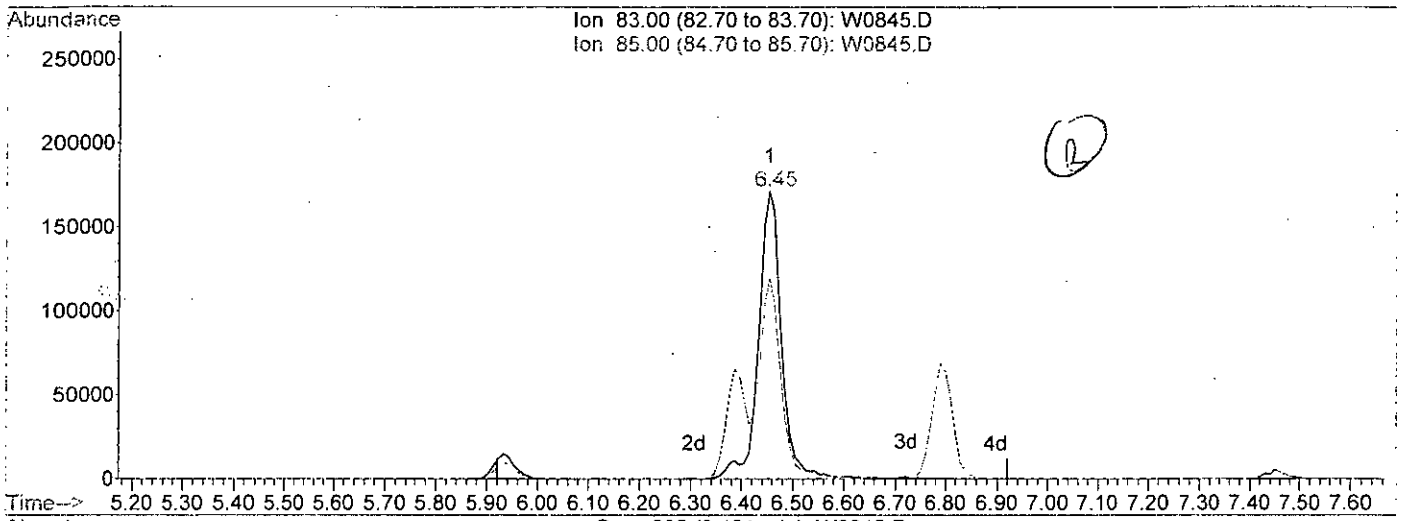
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	38.99
117.00	65.00	65.85
0.00	0.00	0.00

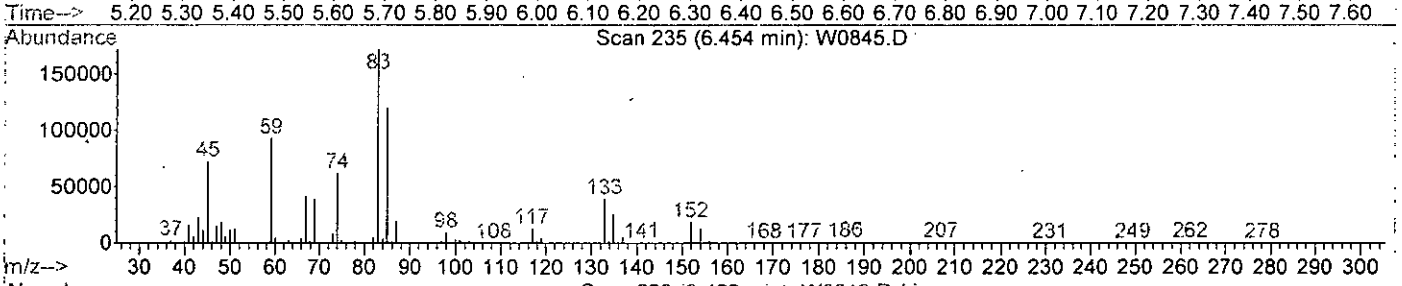
W0845.D W032315.M Thu Apr 02 13:22:16 2015

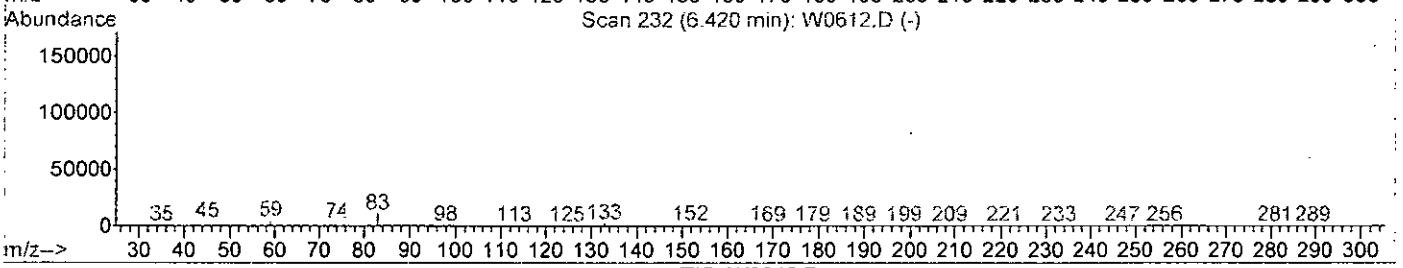
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:22 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0845.D

(11) FREON 123

6.45min 40.85ppb

response 536387

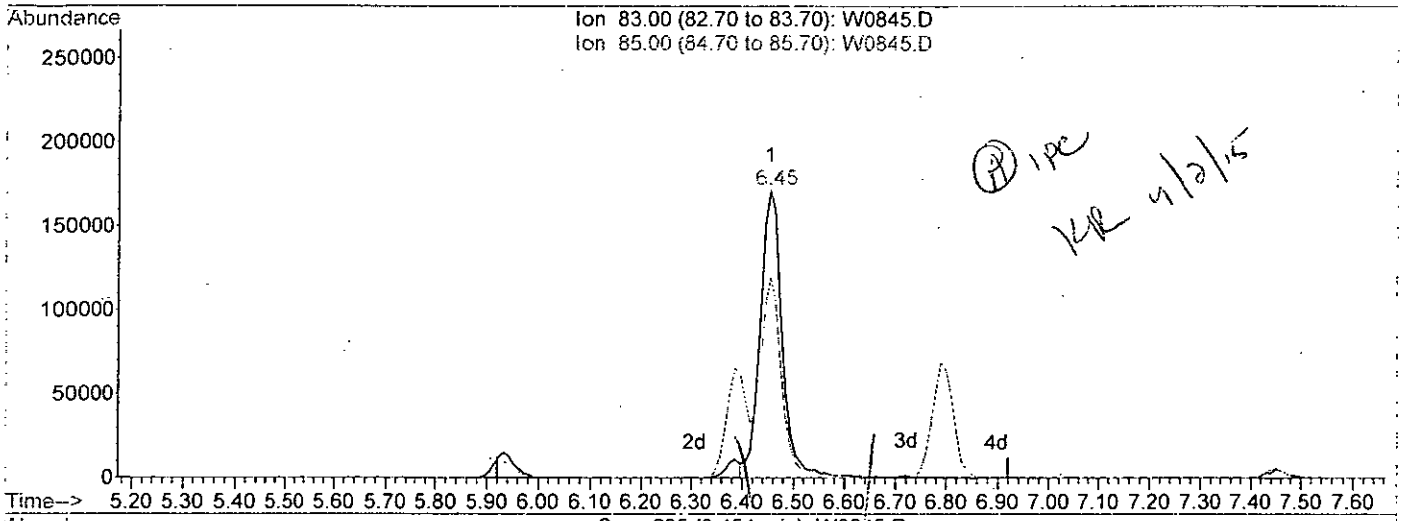
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	69.60
0.00	0.00	0.00
0.00	0.00	0.00

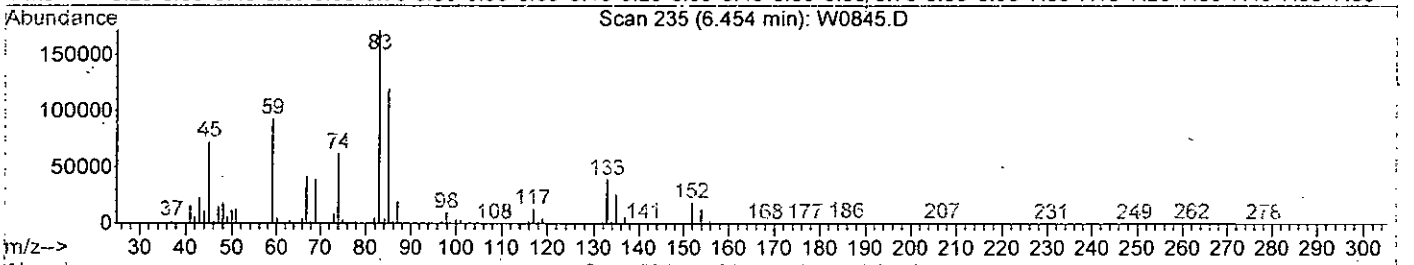
W0845.D W032315.M Thu Apr 02 13:22:22 2015

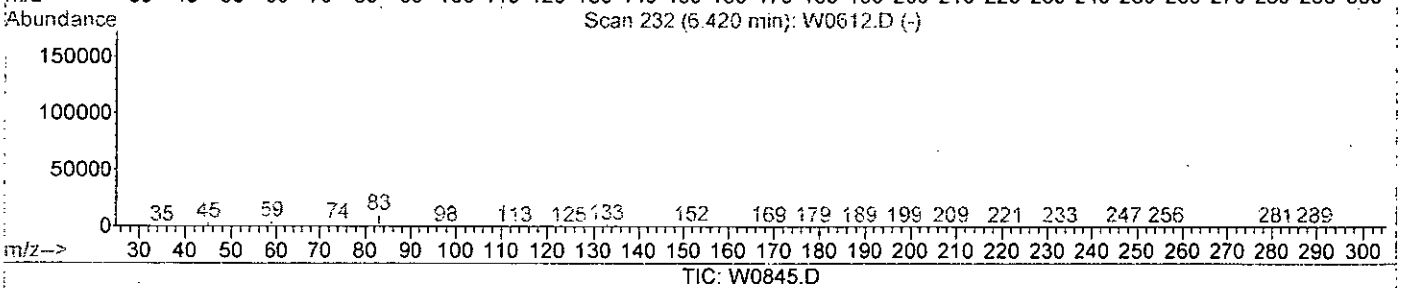
Quantitation Report (Qedit)

Data File: I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:22 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0845.D

(11) FREON 123

6.45min 39.24ppb m

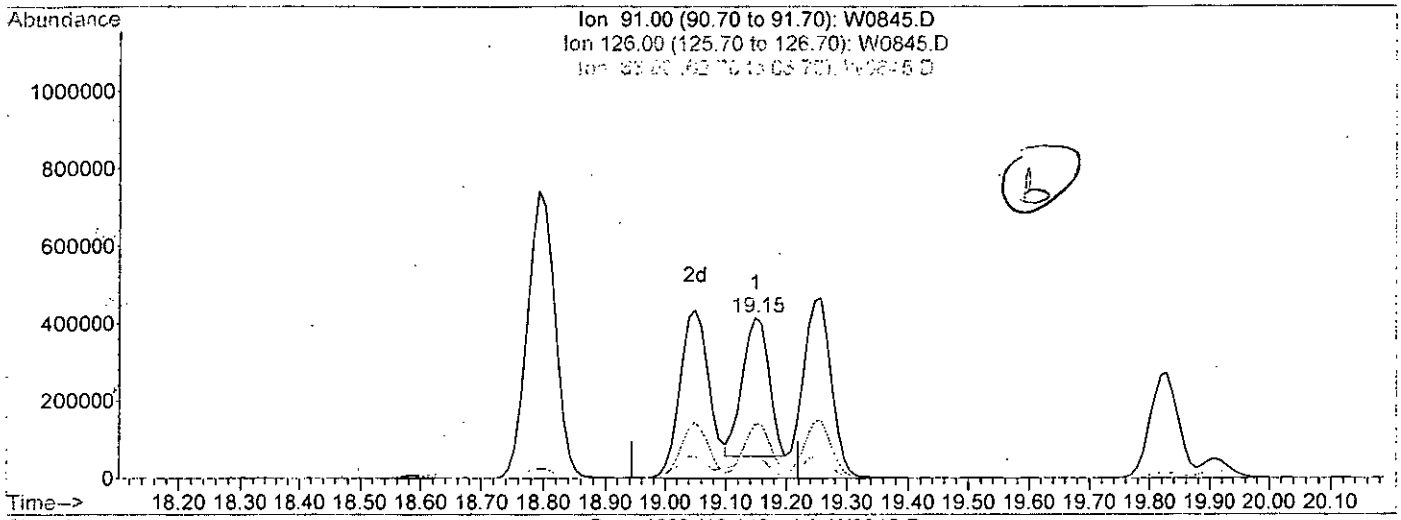
response 515161

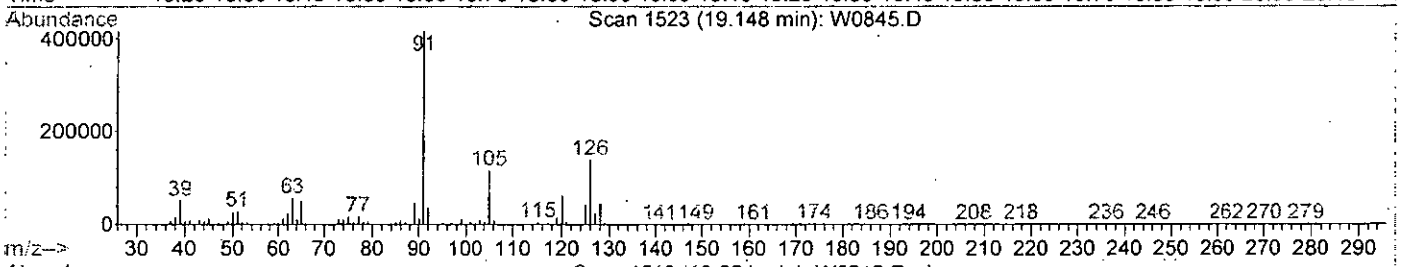
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	69.60
0.00	0.00	0.00
0.00	0.00	0.00

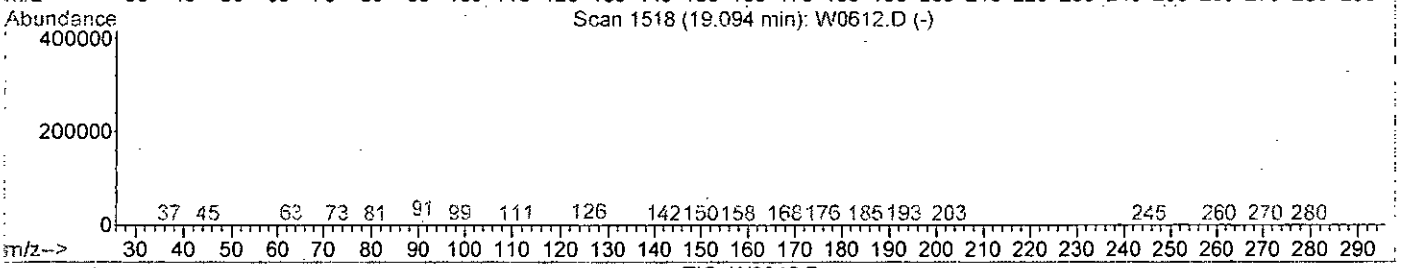
W0845.D W032315.M Thu Apr 02 13:22:30 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:22 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0845.D

(98) 3-Chlorotoluene

19.15min 37.62ppb

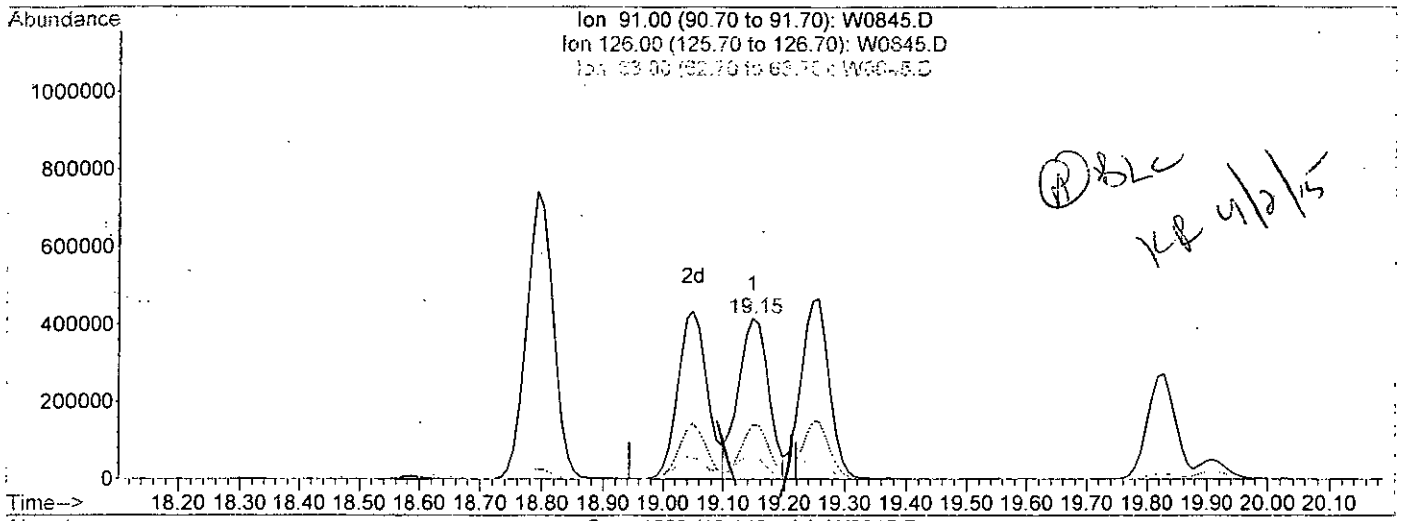
response 1082439

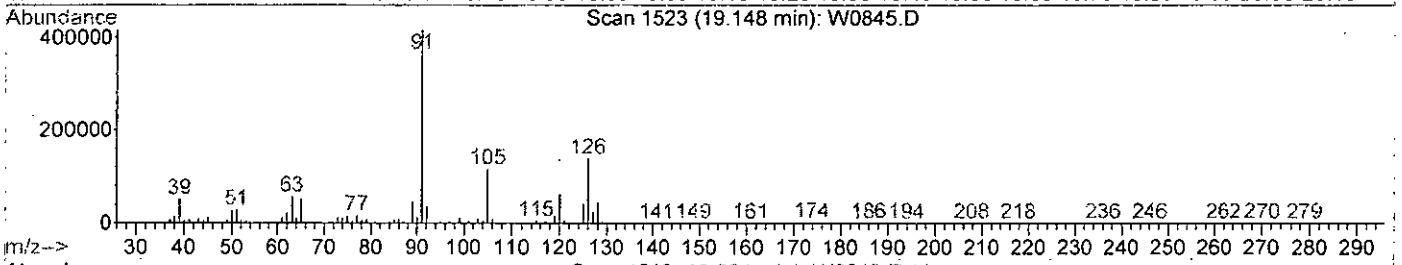
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	33.50#
63.00	12.50	16.13#
0.00	0.00	0.00

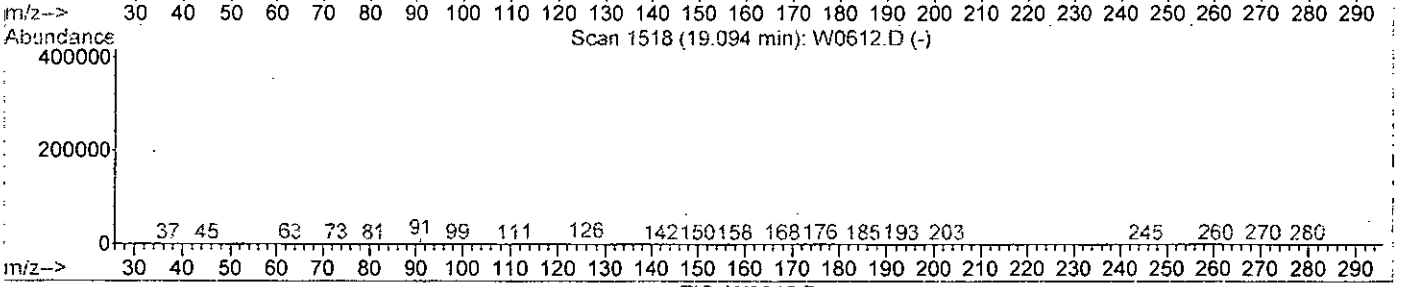
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:23 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0845.D

(98) 3-Chlorotoluene

19.15min 49.31ppb m

response 1418817

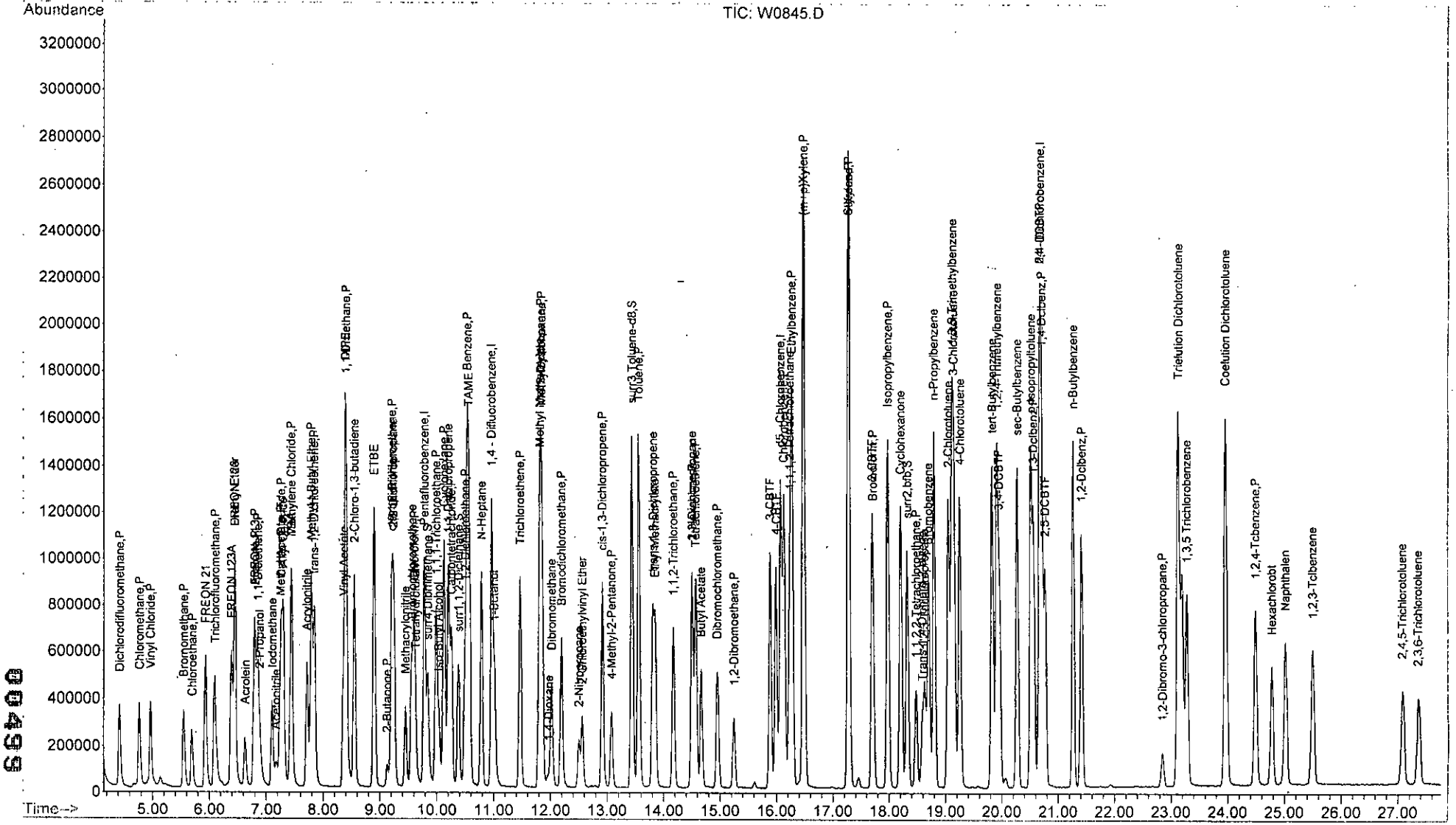
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	25.55
63.00	12.50	12.30
0.00	0.00	0.00

W0845.D W032315.M Thu Apr 02 13:23:29 2015 00498

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0845.D Vial: 4
Acq On : 2 Apr 2015 11:55 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:23 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0845.D W032315.M Thu Apr 02 13:24:02 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/ 3/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D\

Calibration Date: 3/23/15
Calibration ID: RC1500031
Analysis Lot: 439004
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	54.3	0.3310	0.3595	8.6	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	50.7	0.7468	0.7575	1.4	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	54.2	0.6550	0.7106	8.5	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	48.2	0.2517	0.2427	-3.6	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	45.7	0.9472	0.8647	-8.7	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	44.0	0.4486	0.3951	-11.9	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	50.8	0.4497	0.4569	1.6	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	53.9	0.6710	0.7237	7.9	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	52.8	0.2049	0.2165	5.7	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	54.7	0.7965	0.8711	9.4	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	52.8	2.302	2.431	5.6	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	53.6	0.1375	0.1474	7.2	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	53.0	0.2834	0.3005	6.0	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	52.1	1.331	1.387	4.2	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	55.2	0.4110	0.4537	10.4	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	47.4	0.3601	0.3411	-5.3	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	52.3	2.260	2.364	4.6	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	51.9	1.400	1.453	3.7	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	51.0	0.5273	0.5373	1.9	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	51.2	1.406	1.438	2.3	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	51.1	0.7405	0.7568	2.2	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	41.1	0.2444	0.2011	-17.8	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	52.5	2.204	2.313	5.0	NA	± 20 %	Average RF
2-Hexanone	50.0	50.7	0.2032	0.2058	1.3	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	1070	0.03751	0.04000	6.6	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	51.5	2.230	2.296	3.0	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	50.9	2.345	2.386	1.7	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	51.1	0.3050	0.3116	2.2	NA	± 20 %	Average RF
Acetone	50.0	31.8	0.1875	0.1193	-36.4 *	NA	± 20 %	Average RF
Benzene	50.0	46.9	1.296	1.215	-6.3	NA	± 20 %	Average RF
Bromobenzene	50.0	53.3	0.7603	0.8100	6.5	NA	± 20 %	Average RF
Bromochloromethane	50.0	44.7	0.2905	0.2599	-10.5	NA	± 20 %	Average RF
Bromodichloromethane	50.0	53.5	0.4349	0.4654	7.0	NA	± 20 %	Average RF
Bromoform	50.0	60.5	0.1936	0.2344	21.1 *	NA	± 20 %	Average RF
Bromomethane	50.0	41.6	0.4482	0.3729	-16.8	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	53.0	0.3939	0.4174	6.0	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.2	0.8920	0.8952	0.4	NA	± 20 %	Average RF
Chloroethane	50.0	40.4	0.4643	0.3755	-19.1	NA	± 20 %	Average RF
Chloroform	50.0	47.4	0.9297	0.8817	-5.2	NA	± 20 %	Average RF
Chloromethane	50.0	44.4	0.6798	0.6035	-11.2	NA	± 20 %	Average RF
Dibromochloromethane	50.0	54.4	0.3549	0.3858	8.7	NA	± 20 %	Average RF

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/ 3/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D\

Calibration Date: 3/23/15
Calibration ID: RC1500031
Analysis Lot: 439004
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	43.1	0.6344	0.5474	-13.7	NA	± 20 %	Average RF
Methylene Chloride	50.0	41.7	0.5742	0.4784	-16.7	NA	± 20 %	Average RF
Ethylbenzene	50.0	51.5	1.508	1.552	2.9	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	54.5	0.3233	0.3521	8.9	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	51.6	1.394	1.438	3.1	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	49.1	1.363	1.340	-1.7	NA	± 20 %	Average RF
Naphthalene	50.0	54.5	1.706	1.858	8.9	NA	± 20 %	Average RF
Styrene	50.0	50.7	0.9616	0.9743	1.3	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	50.3	0.3710	0.3733	0.6	NA	± 20 %	Average RF
Toluene	50.0	50.3	1.349	1.357	0.5	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	49.6	0.3299	0.3275	-0.8	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	49.5	0.7383	0.7305	-1.0	NA	± 20 %	Average RF
Vinyl Chloride	50.0	47.8	0.6123	0.5853	-4.4	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	44.8	0.5712	0.5122	-10.3	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	51.6	0.5432	0.5602	3.1	NA	± 20 %	Average RF
m,p-Xylenes	100	100	0.5588	0.5605	0.3	NA	± 20 %	Average RF
n-Butylbenzene	50.0	50.6	2.192	2.219	1.2	NA	± 20 %	Average RF
n-Propylbenzene	50.0	50.8	3.476	3.533	1.6	NA	± 20 %	Average RF
o-Xylene	50.0	49.7	0.5537	0.5501	-0.7	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	50.6	2.815	2.850	1.2	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	51.2	1.987	2.036	2.5	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	44.3	0.5329	0.4726	-11.3	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	54.6	0.4833	0.5281	9.3	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	54.9	0.4721	0.5180	9.7	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	54.5	0.3219	0.3509	9.0	NA	± 20 %	Average RF
Toluene-d8	50.0	54.8	1.086	1.190	9.6	NA	± 20 %	Average RF

Evaluate Continuing Calibration Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

KR 4/3/15

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	89	0.05
2	P	Dichlorodifluoromethane	0.6344	0.5474	13.7	71	0.03
3	P	Chloromethane	0.6798	0.6035	11.2	79	0.04
4	P	Vinyl Chloride	0.6123	0.5853	4.4	80	0.04
5	P	Bromomethane	0.4482	0.3729	16.8	70	0.05
6	P	Chloroethane	0.4643	0.3755	19.1	72	0.05
7		FREON 21	1.1401	1.0199	10.5	77	0.05
8	P	Trichlorofluoromethane	0.7383	0.7305	1.1	85	0.05
9		Diethyl Ether	0.4445	0.3920	11.8	78	0.05
10		FREON 123A	0.6648	0.5757	13.4	78	0.05
11		FREON 123	0.6990	0.5961	14.7	75	0.04
12		Acrolein	0.0798	0.0621	M 22.2#	71	0.04
13	P	FREON 113	0.5077	0.4513	11.1	77	0.05
14	P	1,1-Diclethene	0.4486	0.3951	11.9	77	0.05
15	P	Acetone	0.1875	0.1193	36.4#	56	0.05
16		2-Propanol	0.0255	0.0228	10.6	79	0.05
17		Iodomethane	0.8298	0.6822	17.8	71	0.05
18	P	Carbon Disulfide	2.0677	1.6919	18.2	70	0.06
19		Acetonitrile	0.0479	0.0440	8.1	75	0.05
20		Allyl Chloride	0.9611	0.8093	15.8	72	0.05
21	P	Methyl Acetate	0.3520	0.3107	11.7	79	0.05
22	P	Methylene Chloride	0.5742	0.4784	16.7	77	0.05
23		TBA	0.0375	0.0400	-6.7	94	0.04
24		Acrylonitrile	0.1599	0.1435	10.3	78	0.05
25	P	Methyl-t-Butyl Ether	1.3635	1.3400	1.7	86	0.05
26	P	trans-1,2-Dichloroethene	0.5329	0.4726	11.3	79	0.05
27		Halothane	0.0000	0.0000	0.0	99	-0.06
28	P	1,1-Diclethane	0.9472	0.8647	8.7	80	0.05
29		Vinyl Acetate	0.0752	0.0893	-18.8	107	0.05
30		DIPE	2.2121	1.8686	15.5	78	0.06
31		2-Chloro-1,3-butadiene	1.0477	0.9144	12.7	77	0.05
32		ETBE	1.8353	1.7016	7.3	83	0.06
33		2,2-Dichloropropane	0.7405	0.7568	-2.2	90	0.06
34	P	2-Butanone	0.2444	0.2011	17.7	73	0.05
35	P	cis-1,2-Dichloroethene	0.5712	0.5122	10.3	78	0.06
36		Propionitrile	0.0559	0.0500	10.6	81	0.05
37		Methacrylonitrile	0.1874	0.1593	15.0	74	0.06
38		Bromochloromethane	0.2905	0.2599	10.5	79	0.06
39	P	Chloroform	0.9297	0.8817	5.2	83	0.05
40		Tetrahydrofuran	0.1314	0.1137	13.5	80	0.05
41	P	1,1,1-Trichloroethane	0.7468	0.7575	-1.4	85	0.05
42	I	1,4 - Difluorobenzene	1.0000	1.0000	0.0	83	0.06
43	P	Cyclohexane	0.6065	0.5581	8.0	73	0.06
44	S	surr4,Dibrflmethane	0.3219	0.3509	-9.0	87	0.05
45	P	Carbontetrachloride	0.3939	0.4174	-6.0	86	0.06
46		1,1-Dichloropropene	0.4497	0.4569	-1.6	82	0.06
47		Iso-Butyl Alcohol	0.0114	0.0114	0.0	83	0.06
48	S	surr1,1,2-Diclethane	0.3245	0.3688	-13.7	91	0.06
49	P	Benzene	1.2964	1.2152	6.3	77	0.06

(#) = Out of Range
W0883.D W032315.M Fri Apr 03 11:06:52 2015 Page 1

Evaluate Continuing Calibration Report

Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level 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)	
50	P	1,2-Dichloroethane	0.4110	0.4537	-10.4	88	0.06	
51		TAME	0.8825	0.8774	0.6	83	0.06	
52		N-Heptane	0.4636	0.4265	8.0	75	0.06	
53		1-Butanol	0.0060	0.0069	-15.0	85	0.06	
54	P	Trichloroethene	0.3299	0.3275	0.7	79	0.06	
55	P	Methylcyclohexane	0.4776	0.4440	7.0	77	0.06	
56	P	1,2-Diclpropane	0.3601	0.3411	5.3	78	0.06	
57		Methyl Methacrylate	0.0740	0.0809	-9.3	87	0.05	
58		1,4-Dioxane	0.0022	0.0024	-9.1	92	0.06	
59		Dibromomethane	0.1845	0.1844	0.1	79	0.07	
60	P	Bromodichloromethane	0.4349	0.4654	-7.0	84	0.06	
61		2-Nitropropane	0.0677	0.0961	-41.9#	111	0.05	MT
62		2-Chloroethylvinyl Ether	0.1921	0.1302	32.2#	57	0.06	MT
63	P	cis-1,3-Dichloropropene	0.5432	0.5602	-3.1	83	0.07	
64	I	d5 - Chlorobenzene	1.0000	1.0000	0.0	82	0.07	
65	P	4-Methyl-2-Pentanone	0.3050	0.3116	-2.2	81	0.06	
66	P	Toluene	1.3494	1.3568	-0.5	81	0.07	
67		trans-1,3-Dichloropropene	0.4833	0.5281	-9.3	87	0.06	
68		Ethyl Methacrylate	0.3908	0.4189	-7.2	86	0.06	
69	P	1,1,2-Trichloroethane	0.2517	0.2427	3.6	79	0.06	
70	S	surr3,Toluene-d8	1.0856	1.1896	-9.6	83	0.06	
71	S	surr2,bfb	0.4721	0.5180	-9.7	83	0.06	
72	P	Tetrachloroethene	0.3710	0.3733	-0.6	81	0.06	
73	P	2-Hexanone	0.2032	0.2058	-1.3	80	0.06	
74		1,3-Dichloropropane	0.5273	0.5373	-1.9	83	0.06	
75		Butyl Acetate	0.5050	0.5130	-1.6	82	0.06	
76	P	Dibromochloromethane	0.3549	0.3858	-8.7	87	0.06	
77	P	1,2-Dibromoethane	0.2834	0.3005	-6.0	83	0.06	
78	P	Chlorobenzene	0.8920	0.8952	-0.4	79	0.07	
79		3-CBTF	0.5031	0.5348	-6.3	86	0.06	
80		4-CBTF	0.4550	0.4813	-5.8	88	0.06	
81		1,1,1,2-Tetrachloroethane	0.3310	0.3595	-8.6	85	0.06	
82	P	Ethylbenzene	1.5079	1.5516	-2.9	83	0.06	
83	P	(m+p)Xylene	0.5588	0.5605	-0.3	82	0.06	
84	P	o-Xylene	0.5537	0.5501	0.7	81	0.07	
85	P	Styrene	0.9616	0.9743	-1.3	81	0.06	
86	P	Bromoform	0.1936	0.2344	-21.1#	92	0.06	X
87		2-CBTF	0.4797	0.5026	-4.8	87	0.07	
88	P	Isopropylbenzene	1.3939	1.4378	-3.1	83	0.06	
89		Cyclohexanone	0.0331	0.0137	58.6#	34#	0.07	MT
90	I	d4 - Dichlorobenzene	1.0000	1.0000	0.0	80	0.07	
91	P	1,1,2,2-Tetrachloroethane	0.6550	0.7106	-8.5	84	0.06	
92		Trans-1,4-Dichloro-2-butene	0.1606	0.1878	-16.9	88	0.07	
93		1,2,3-Trichloropropane	0.2049	0.2165	-5.7	92	0.07	
94		n-Propylbenzene	3.4761	3.5326	-1.6	80	0.07	
95		Bromobenzene	0.7603	0.8100	-6.5	85	0.06	
96		1,3,5-Trimethylbenzene	2.2597	2.3644	-4.6	85	0.07	
97		2-Chlorotoluene	2.2037	2.3130	-5.0	84	0.07	

(#) = Out of Range
W0883.D W032315.M Fri Apr 03 11:06:54 2015

Evaluate Continuing Calibration Report

Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level 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)
98		3-Chlorotoluene	2.1999	2.3034	-4.7	86	0.07
99		4-Chlorotoluene	2.2295	2.2964	-3.0	83	0.07
100		tert-Butylbenzene	1.9867	2.0361	-2.5	83	0.06
101		1,2,4-Trimethylbenzene	2.3019	2.4307	-5.6	84	0.07
102		3,4-DCBTF	0.7174	0.7852	-9.5	92	0.07
103		sec-Butylbenzene	2.8155	2.8505	-1.2	81	0.06
104		p-Isopropyltoluene	2.3455	2.3863	-1.7	82	0.06
105	P	1,3-Dclbenz	1.4004	1.4527	-3.7	84	0.06
106	P	1,4-Dclbenz	1.4059	1.4382	-2.3	84	0.06
107		2,4-DCBTF	0.6114	0.6895	-12.8	88	0.07
108		2,5-DCBTF	0.7111	0.7607	-7.0	87	0.06
109		n-Butylbenzene	2.1923	2.2190	-1.2	80	0.06
110	P	1,2-Dclbenz	1.3311	1.3870	-4.2	83	0.06
111	P	1,2-Dibromo-3-chloropropane	0.1375	0.1474	-7.2	90	0.07
112		Trielution Dichlorotoluene	1.0902	1.1329	-3.9	84	0.06
113		Nitrobenzene	0.0000	0.0000	0.0	0#	0.30
114		1,3,5 Trichlorobenzene	0.9036	0.9571	-5.9	85	0.07
115		Coelution Dichlorotoluene	1.1280	1.2095	-7.2	85	0.07
116	P	1,2,4-Tcbenzene	0.7965	0.8711	-9.4	83	0.07
117		Hexachlorobt	0.3233	0.3521	-8.9	87	0.07
118		Naphthalen	1.7057	1.8575	-8.9	84	0.08
119		1,2,3-Tclbenzene	0.6710	0.7237	-7.9	83	0.07
120		2,4,5-Trichlorotoluene	0.4380	0.4670	-6.6	85	0.08
121		2,3,6-Trichlorotoluene	0.3685	0.3962	-7.5	85	0.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W0883.D W032315.M Fri Apr 03 11:06:56 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7_DATA\040215\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : RQ1503207-02 Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:06 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.79	168	956983	50.00	ppb		0.05
42) 1,4 - Difluorobenzene	10.98	114	1458280	50.00	ppb		0.06
64) d5 - Chlorobenzene	16.08	117	1362924	50.00	ppb		0.07
90) d4 - Dichlorobenzene	20.68	152	660200	50.00	ppb		0.07
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.85	113	511739	54.51	ppb		0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.02%				
48) surr1,1,2-Diclethane	10.39	65	537850	56.83	ppb		0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 113.66%				
70) surr3,Toluene-d8	13.44	98	1621375	54.79	ppb		0.06
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.58%				
71) surr2,bfb	18.32	95	705937	54.86	ppb		0.06
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.43	85	523848	43.14	ppb		98
3) Chloromethane	4.78	50	577503	44.38	ppb		99
4) Vinyl Chloride	4.98	62	560140	47.80	ppb		100
5) Bromomethane	5.56	96	356846	41.59	ppb		97
6) Chloroethane	5.71	64	359302	40.43	ppb		98
7) FREON 21	5.94	67	976018	44.73	ppb		99
8) Trichlorofluoromethane	6.10	101	699116	49.48	ppb		98
9) Diethyl Ether	6.45	59	375119	44.09	ppb		95
10) FREON 123A	6.40	67	550943m	43.30	ppb		
11) FREON 123	6.46	83	570458m	42.64	ppb		
12) Acrolein	6.63	56	297376	194.73	ppb		95
13) FREON 113	6.80	101	431852	44.45	ppb		97
14) 1,1-Diclethene	6.85	96	378089	44.03	ppb		95
15) Acetone	6.82	43	114150	31.80	ppb		96
16) 2-Propanol	6.89	45	436827	895.13	ppb		98
17) Iodomethane	7.12	142	652886	41.11	ppb		100
18) Carbon Disulfide	7.27	76	1619144	40.91	ppb		100
19) Acetonitrile	7.19	41	210559	229.63	ppb		95
20) Allyl Chloride	7.30	41	774485	42.10	ppb		98
21) Methyl Acetate	7.24	43	297341	44.13	ppb		96
22) Methylene Chloride	7.45	84	457845	41.66	ppb		98
23) TBA	7.43	59	765588	1066.42	ppb		98
24) Acrylonitrile	7.73	53	686561	224.33	ppb		97
25) Methyl-t-Butyl Ether	7.81	73	1282394	49.14	ppb		99
26) trans-1,2-Dichloroethene	7.86	96	452278	44.34	ppb		98
28) 1,1-Diclethane	8.42	63	827488	45.65	ppb		96
29) Vinyl Acetate	8.36	86	85451	59.35	ppb	#	94
30) DIPE	8.41	45	1788228	42.24	ppb		97
31) 2-Chloro-1,3-butadiene	8.56	53	875035	43.64	ppb		95
32) ETBE	8.91	59	1628423	46.36	ppb		98
33) 2,2-Dichloropropane	9.26	77	724201	51.10	ppb		99
34) 2-Butanone	9.14	43	192403	41.12	ppb		96
35) cis-1,2-Dichloroethene	9.22	96	490163	44.83	ppb		94
36) Propionitrile	9.22	54	239308	223.68	ppb		96
37) Methacrylonitrile	9.46	67	152449	42.50	ppb	#	74

(#) = qualifier out of range (m) = manual integration
W0883.D W032315.M Fri Apr 03 11:06:37 2015

KP 4/3/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA_1\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:06 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Bromochloromethane	9.57	128	248763	44.74	ppb	95
39)	Chloroform	9.61	83	843771	47.42	ppb	97
40)	Tetrahydrofuran	9.64	42	108804	43.27	ppb	86
41)	1,1,1-Trichloroethane	9.99	97	724877	50.71	ppb	97
43)	Cyclohexane	10.14	56	813832	46.01	ppb	98
45)	Carbontetrachloride	10.27	117	608661	52.98	ppb	98
46)	1,1-Dichloropropene	10.22	75	666281	50.80	ppb	97
47)	Iso-Butyl Alcohol	10.05	43	331697	996.61	ppb	99
49)	Benzene	10.55	78	1772164	46.87	ppb	100
50)	1,2-Dichloroethane	10.51	62	661552	55.18	ppb	95
51)	TAME	10.59	73	1279433	49.71	ppb	99
52)	N-Heptane	10.79	43	621978	46.00	ppb	98
53)	1-Butanol	11.03	56	501333	2855.83	ppb	100
54)	Trichloroethene	11.47	95	477514	49.62	ppb	96
55)	Methylcyclohexane	11.86	55	647422	46.48	ppb	99
56)	1,2-Diclpropane	11.84	63	497422	47.37	ppb	98
57)	Methyl Methacrylate	11.81	100	117948	54.65	ppb	95
58)	1,4-Dioxane	11.97	88	68767	1072.62	ppb	96
59)	Dibromomethane	12.03	93	268912	49.96	ppb	88
60)	Bromodichloromethane	12.20	83	678666	53.51	ppb	97
61)	2-Nitropropane	12.51	43	280396	142.06	ppb	99
62)	2-Chloroethylvinyl Ether	12.58	63	189877	33.89	ppb	98
63)	cis-1,3-Dichloropropene	12.93	75	816947	51.57	ppb	98
65)	4-Methyl-2-Pentanone	13.09	43	424742	51.08	ppb	100
66)	Toluene	13.57	91	1849251	50.27	ppb	98
67)	trans-1,3-Dichloropropene	13.82	75	719738	54.63	ppb	95
68)	Ethyl Methacrylate	13.86	69	570954	53.59	ppb	99
69)	1,1,2-Trichloroethane	14.18	83	330745	48.21	ppb	98
72)	Tetrachloroethene	14.58	166	508756	50.31	ppb	98
73)	2-Hexanone	14.52	43	280555	50.65	ppb	97
74)	1,3-Dichloropropane	14.51	76	732362	50.95	ppb	99
75)	Butyl Acetate	14.68	43	699208	50.79	ppb	97
76)	Dibromochloromethane	14.96	129	525847	54.36	ppb	96
77)	1,2-Dibromoethane	15.25	107	409524	53.02	ppb	98
78)	Chlorobenzene	16.14	112	1220101	50.18	ppb	98
79)	3-CBTF	15.90	180	728849	53.14	ppb	98
80)	4-CBTF	16.00	180	655915	52.89	ppb	98
81)	1,1,1,2-Tetrachloroethane	16.24	131	489956	54.30	ppb	99
82)	Ethylbenzene	16.28	91	2114753	51.45	ppb	97
83)	(m+p)Xylene	16.49	106	1527818	100.30	ppb	94
84)	o-Xylene	17.29	106	749712	49.67	ppb	89
85)	Styrene	17.29	104	1327931	50.66	ppb	94
86)	Bromoform	17.72	173	319516	60.53	ppb	99
87)	2-CBTF	17.71	180	685068	52.39	ppb	97
88)	Isopropylbenzene	17.98	105	1959612	51.57	ppb	97
89)	Cyclohexanone	18.21	55	373502	414.03	ppb	96
91)	1,1,2,2-Tetrachloroethane	18.48	83	469157	54.24	ppb	97
92)	Trans-1,4-Dichloro-2-buten	18.60	53	123961	58.44	ppb	98
93)	1,2,3-Trichloropropane	18.64	110	142937	52.83	ppb	93
94)	n-Propylbenzene	18.80	91	2332221	50.81	ppb	100

(#) = qualifier out of range (m) = manual integration
W0883.D W032315.M Fri Apr 03 11:06:38 2015 Page 2

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:06 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

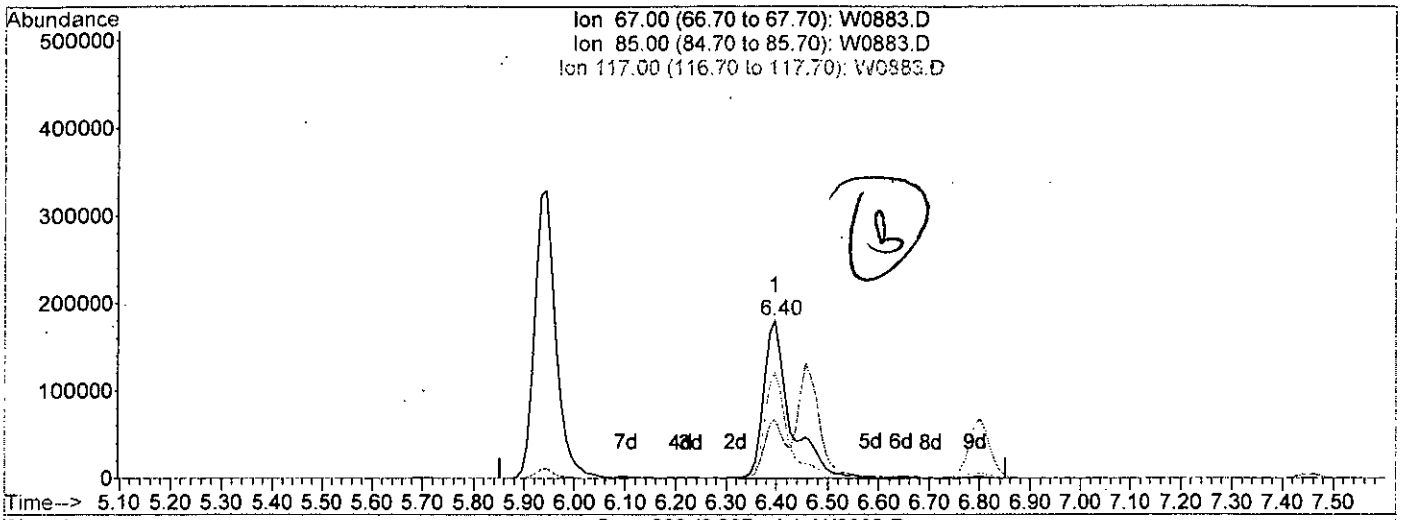
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
95)	Bromobenzene	18.71	156	534745	53.27	ppb		96
96)	1,3,5-Trimethylbenzene	19.12	105	1560944	52.31	ppb		95
97)	2-Chlorotoluene	19.06	91	1527050	52.48	ppb		97
98)	3-Chlorotoluene	19.16	91	1520691m	52.35	ppb		
99)	4-Chlorotoluene	19.26	91	1516093	51.50	ppb		97
100)	tert-Butylbenzene	19.83	119	1344203	51.24	ppb		94
101)	1,2,4-Trimethylbenzene	19.92	105	1604739	52.80	ppb		93
102)	3,4-DCBTF	19.97	214	518366	54.72	ppb		98
103)	sec-Butylbenzene	20.27	105	1881885	50.62	ppb		99
104)	p-Isopropyltoluene	20.52	119	1575428	50.87	ppb		99
105)	1,3-Dclbenz	20.57	146	959042	51.87	ppb		99
106)	1,4-Dclbenz	20.72	146	949528	51.15	ppb		98
107)	2,4-DCBTF	20.70	214	455216	56.39	ppb		98
108)	2,5-DCBTF	20.78	214	502215	53.49	ppb		98
109)	n-Butylbenzene	21.27	91	1464980	50.61	ppb		100
110)	1,2-Dclbenz	21.42	146	915727	52.10	ppb		98
111)	1,2-Dibromo-3-chloropropan	22.86	157	97342	53.61	ppb		97
112)	Trielution Dichlorotoluene	23.13	125	2243756	155.87	ppb	#	92
114)	1,3,5 Trichlorobenzene	23.29	180	631863	52.96	ppb		99
115)	Coelution Dichlorotoluene	23.97	125	1596996	107.22	ppb		99
116)	1,2,4-Tcbenzene	24.49	180	575105	54.68	ppb		97
117)	Hexachlorobt	24.79	225	232427	54.45	ppb		97
118)	Naphthalen	25.02	128	1226331	54.45	ppb		100
119)	1,2,3-Tclbenzene	25.50	180	477778	53.93	ppb		99
120)	2,4,5-Trichlorotoluene	27.08	159	308294	53.31	ppb		97
121)	2,3,6-Trichlorotoluene	27.36	159	261587	53.77	ppb		99

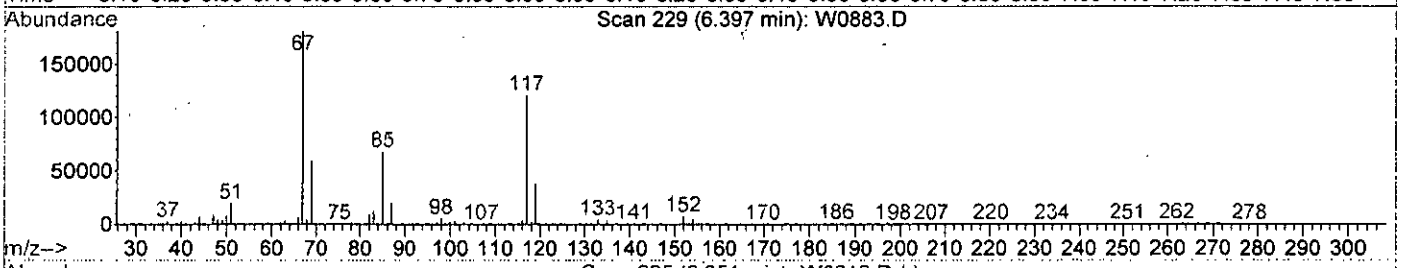
(#) = qualifier out of range (m) = manual integration
W0883.D W032315.M Fri Apr 03 11:06:38 2015

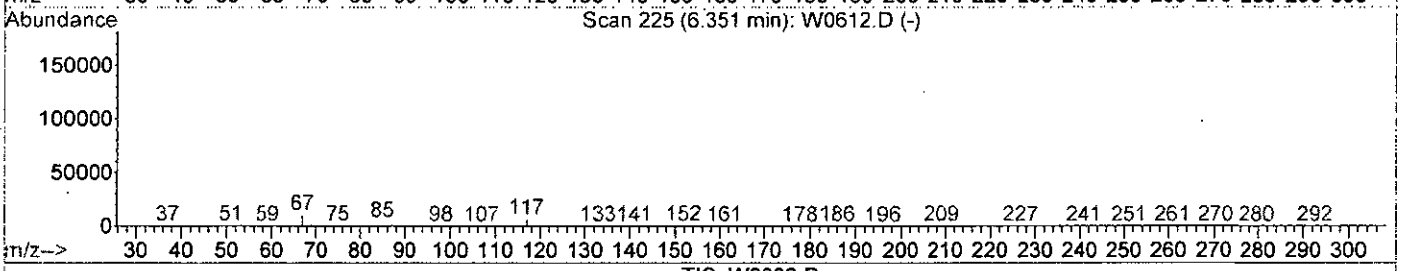
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:00 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0883.D

(10) FREON 123A

6.40min 50.75ppb

response 645784

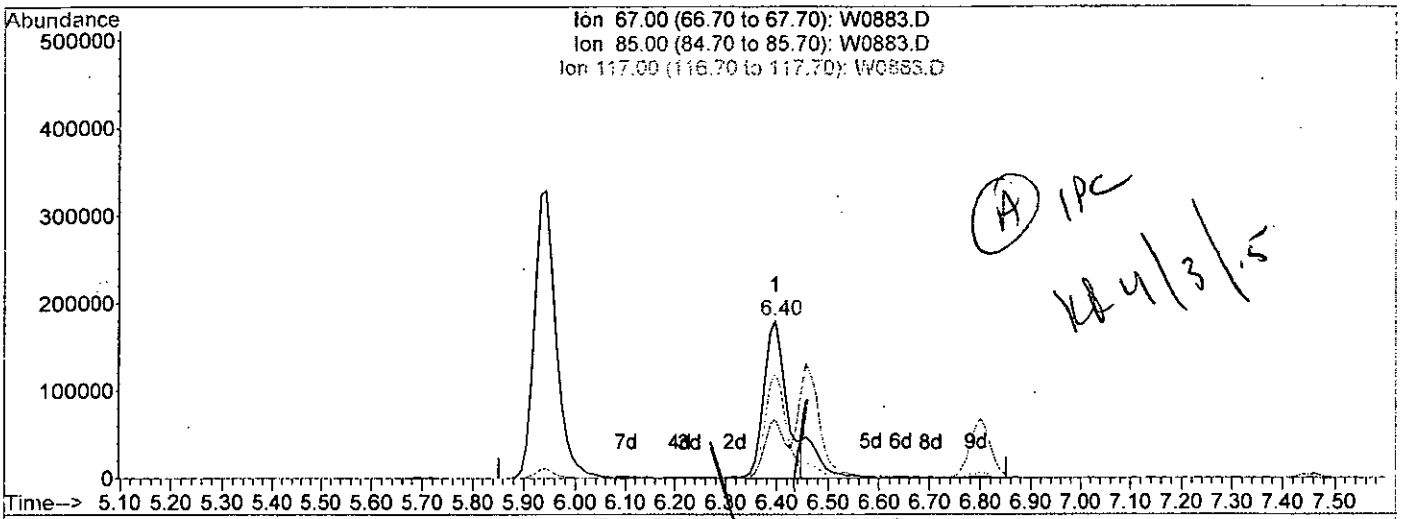
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	37.46
117.00	65.00	66.68
0.00	0.00	0.00

W0883.D W032315.M Fri Apr 03 11:03:44 2015

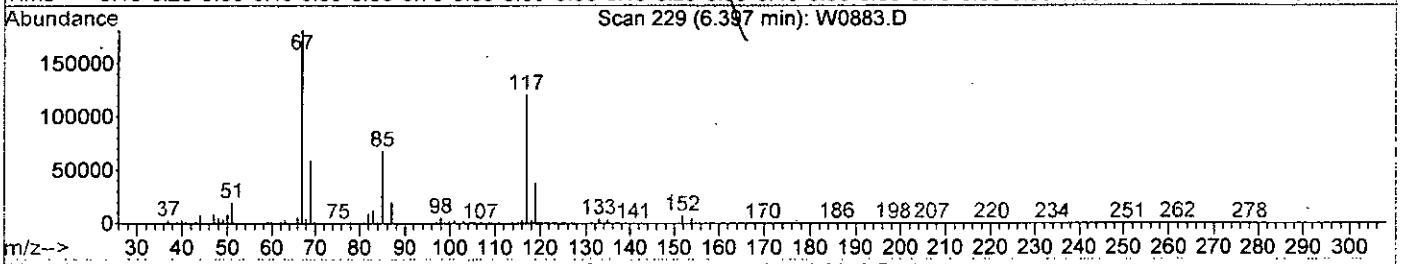
Quantitation Report (Qedit)

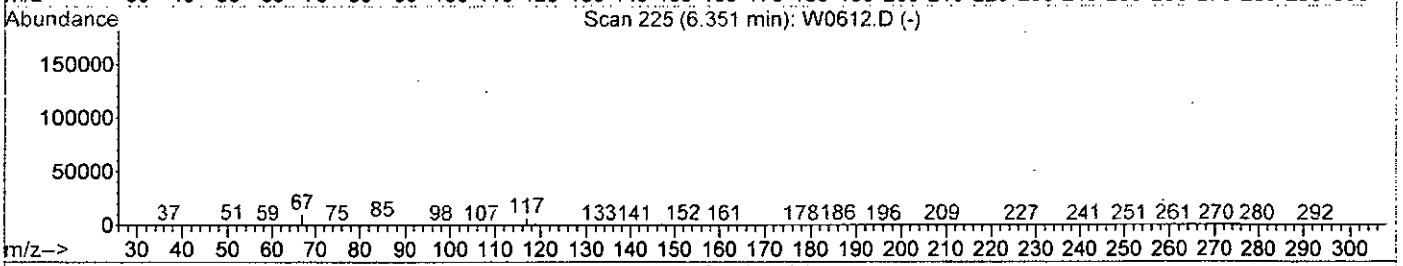
Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:03 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



(A) IPC
KR 4/3/15





TIC: W0883.D

(10) FREON 123A

6.40min 43.30ppb m

response 550943

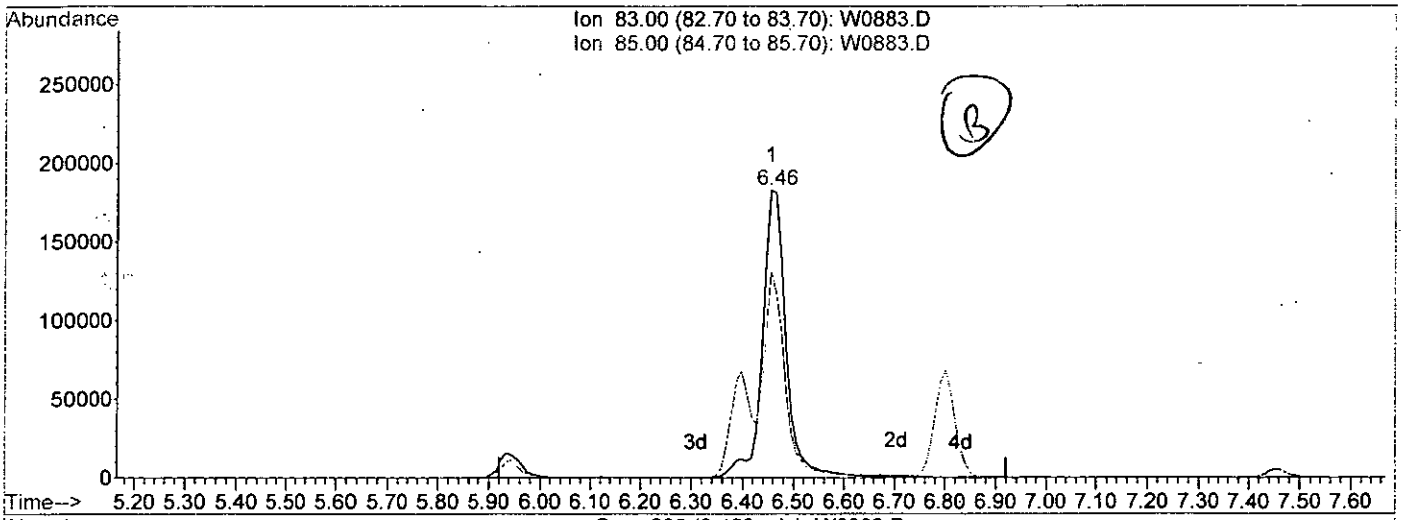
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	37.46
117.00	65.00	66.68
0.00	0.00	0.00

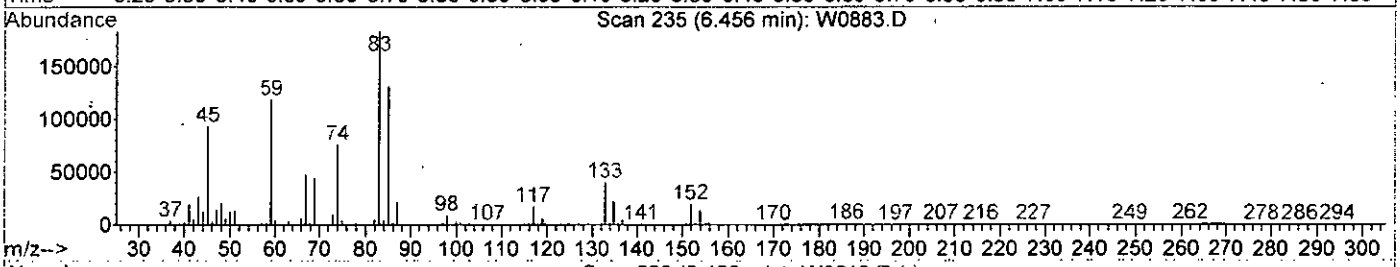
W0883.D W032315.M Fri Apr 03 11:03:56 2015

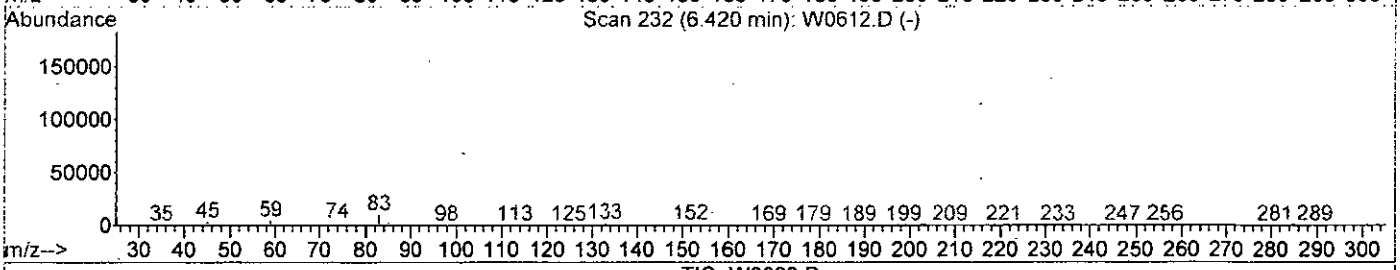
Quantitation Report (Qedit)

Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:03 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0883.D

(11) FREON 123

6.46min 44.57ppb

response 596274

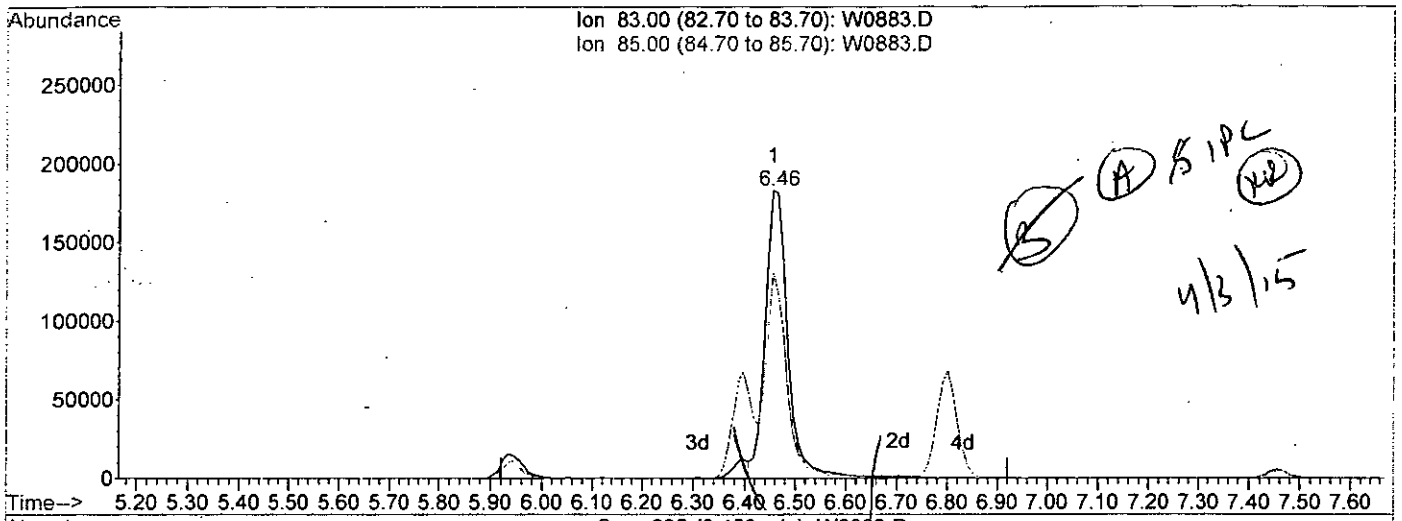
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	71.58
0.00	0.00	0.00
0.00	0.00	0.00

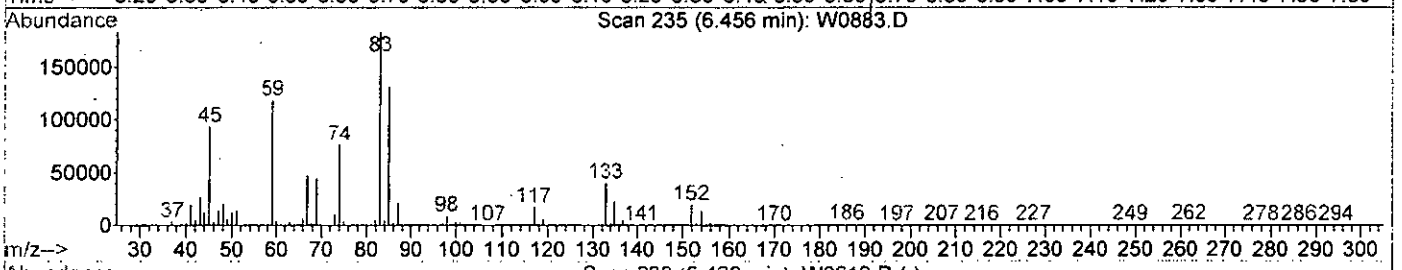
W0883.D W032315.M Fri Apr 03 11:04:02 2015

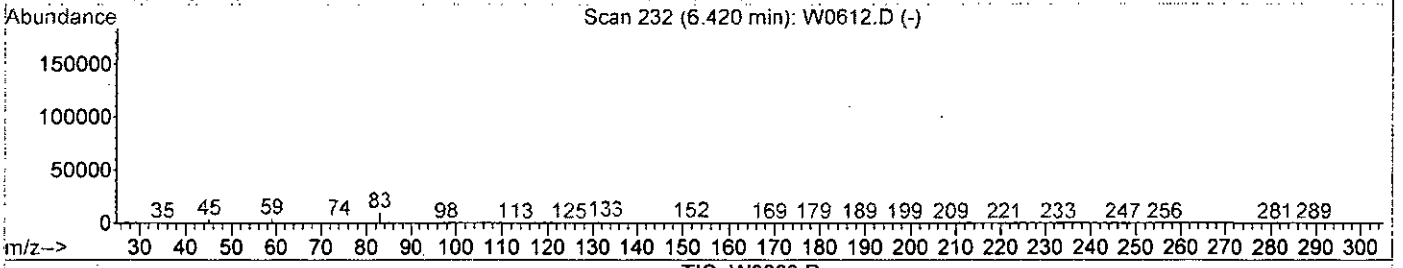
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:04 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0883.D

(11) FREON 123

6.46min 42.64ppb m

response 570458

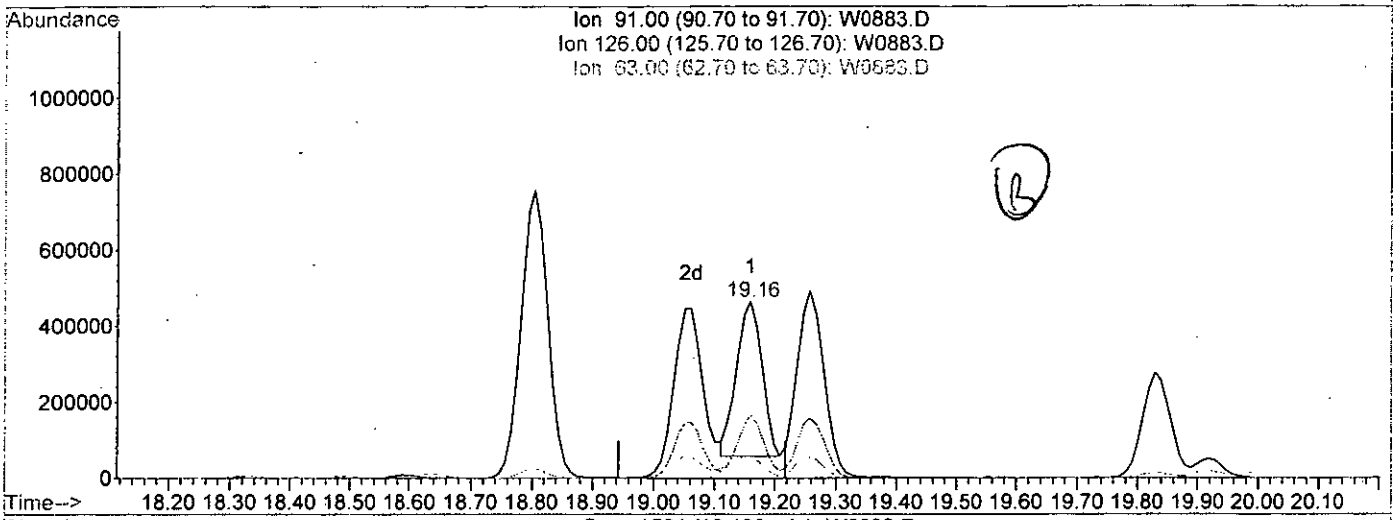
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	71.58
0.00	0.00	0.00
0.00	0.00	0.00

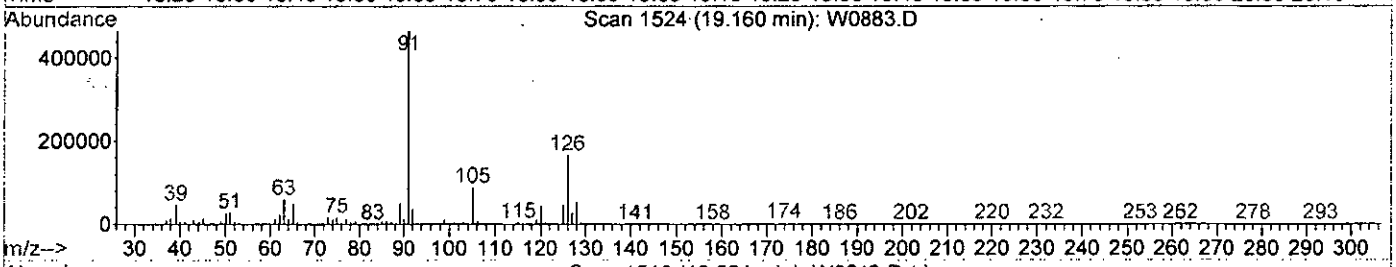
W0883.D W032315.M Fri Apr 03 11:04:09 2015 00511

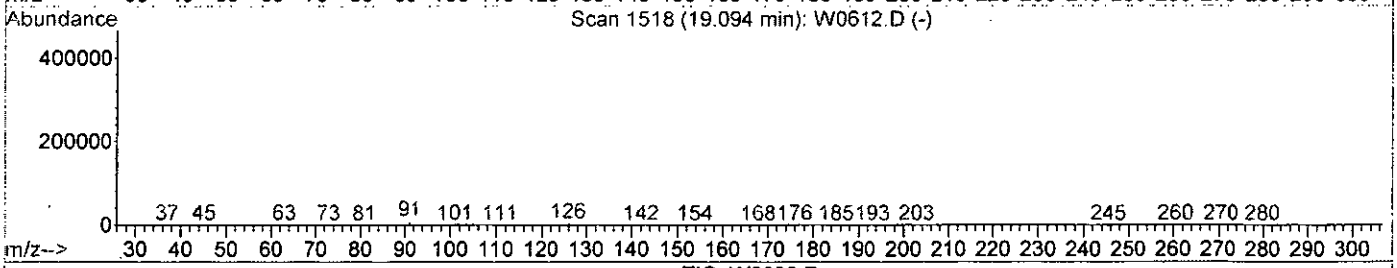
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:04 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0883.D

(98) 3-Chlorotoluene

19.16min 40.46ppb

response 1175372

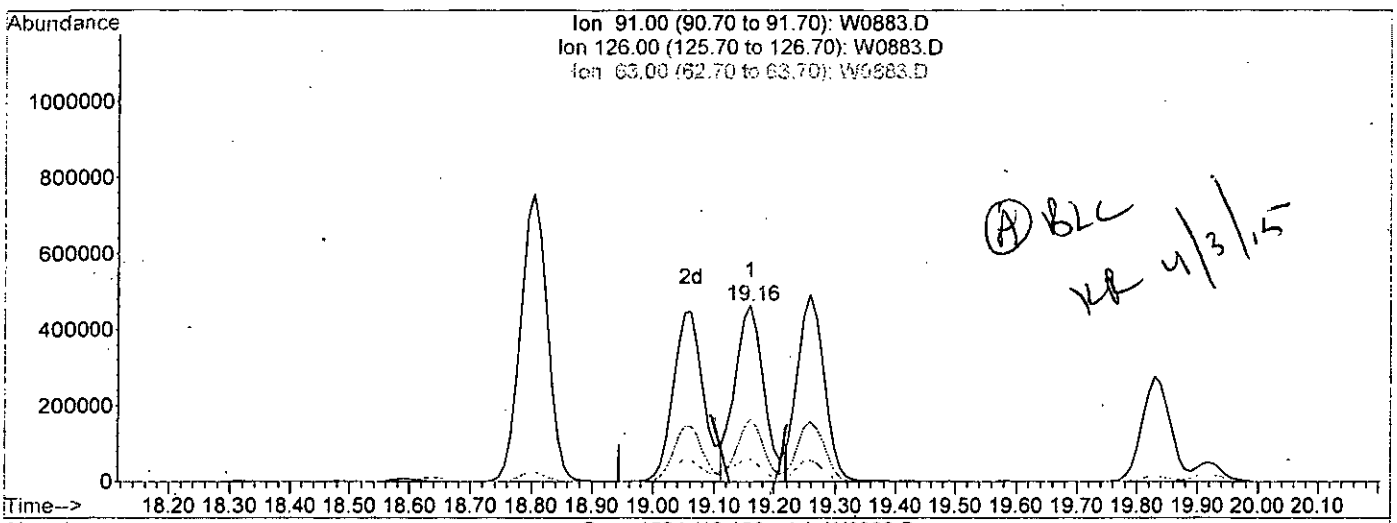
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	34.32#
63.00	12.50	15.77#
0.00	0.00	0.00

W0883.D W032315.M Fri Apr 03 11:06:00 2015 00512

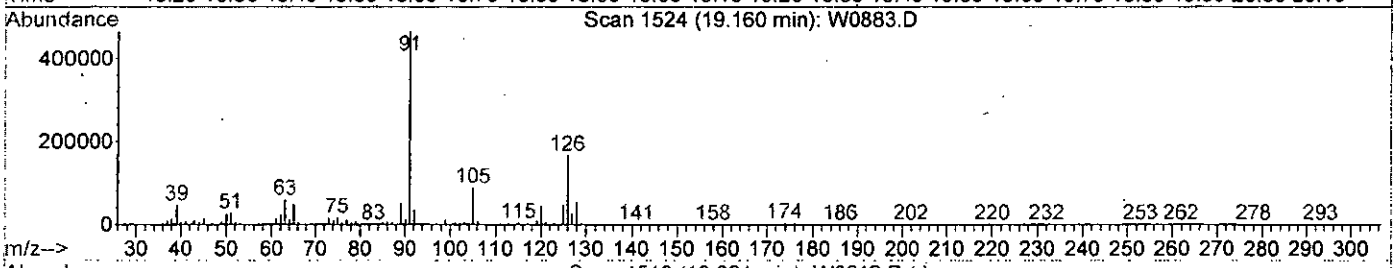
Quantitation Report (Qedit)

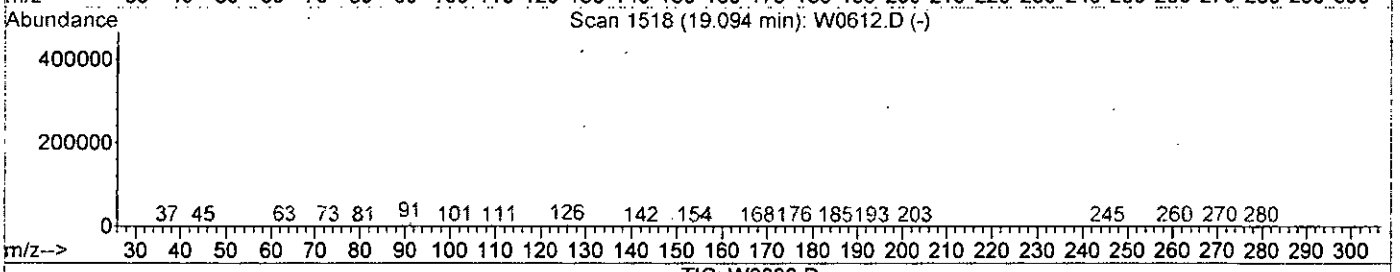
Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:06 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



A BLC KR 4/3/15





TIC: W0883.D

(98) 3-Chlorotoluene

19.16min 52.35ppb m

response 1520691

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	26.53
63.00	12.50	12.19
0.00	0.00	0.00

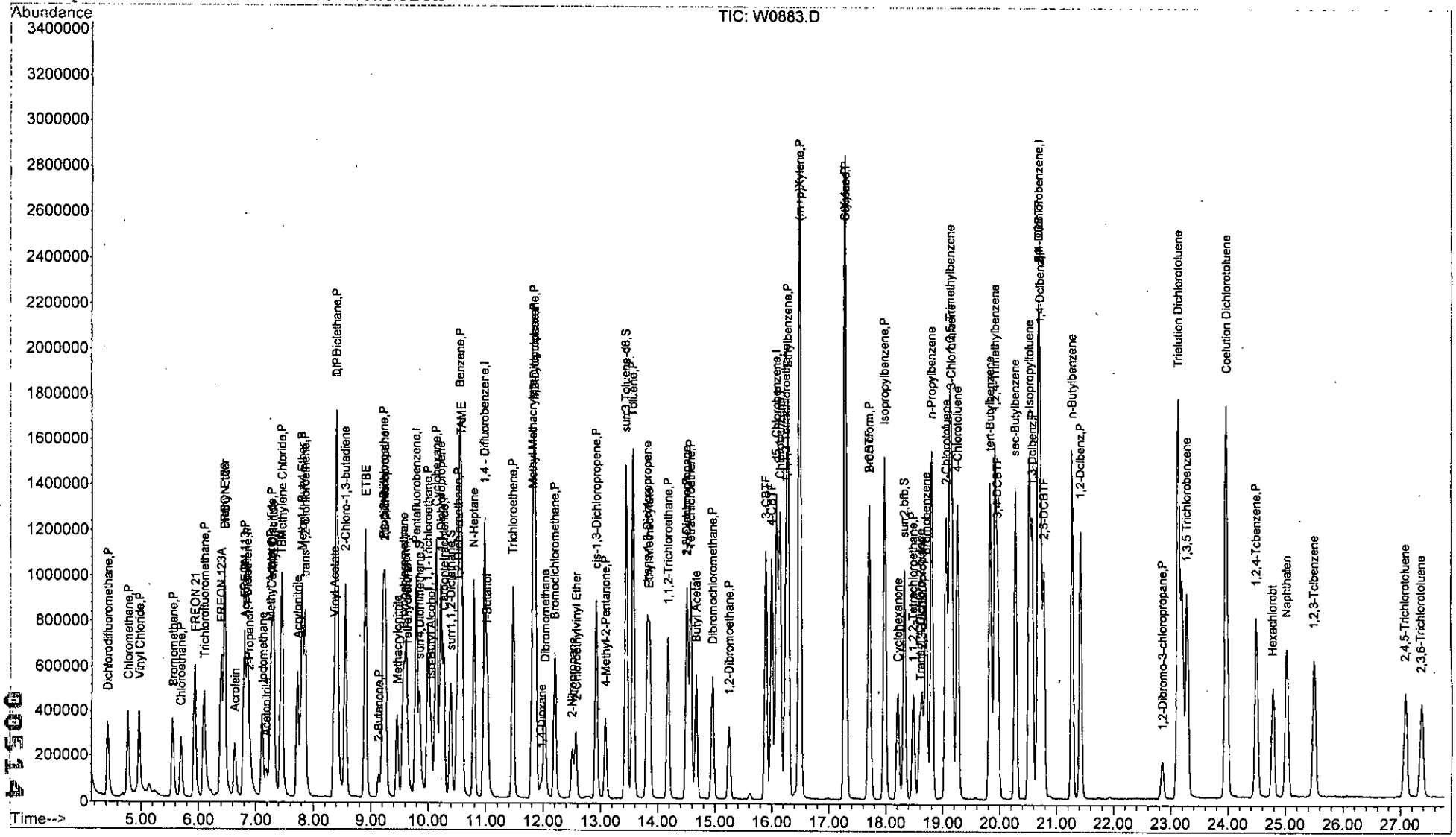
W 4/3

W0883.D W032315.M Fri Apr 03 11:06:10 2015 00513

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0883.D Vial: 3
Acq On : 3 Apr 2015 10:34 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:06 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0883.D W032315.M Fri Apr 03 11:06:42 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/ 7/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D\

Calibration Date: 3/23/15
Calibration ID: RC1500031
Analysis Lot: 439385
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	53.6	0.3310	0.3548	7.2	NA	± 20 %	Average RF
1,1,1-Trichloroethane (TCA)	50.0	46.5	0.7468	0.6937	-7.1	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	52.3	0.6550	0.6856	4.7	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	49.9	0.2517	0.2514	-0.1	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	41.5	0.9472	0.7868	-16.9	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	42.4	0.4486	0.3800	-15.3	NA	± 20 %	Average RF
1,1-Dichloropropene	50.0	47.8	0.4497	0.4295	-4.5	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	53.3	0.6710	0.7159	6.7	NA	± 20 %	Average RF
1,2,3-Trichloropropane	50.0	50.3	0.2049	0.2063	0.7	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	53.4	0.7965	0.8509	6.8	NA	± 20 %	Average RF
1,2,4-Trimethylbenzene	50.0	50.3	2.302	2.317	0.6	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	52.7	0.1375	0.1449	5.4	NA	± 20 %	Average RF
1,2-Dibromoethane	50.0	52.0	0.2834	0.2949	4.1	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	50.2	1.331	1.337	0.5	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	52.4	0.4110	0.4306	4.8	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	44.8	0.3601	0.3225	-10.4	NA	± 20 %	Average RF
1,3,5-Trimethylbenzene	50.0	50.7	2.260	2.291	1.4	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	50.4	1.400	1.411	0.8	NA	± 20 %	Average RF
1,3-Dichloropropane	50.0	50.0	0.5273	0.5268	-0.1	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	49.9	1.406	1.404	-0.1	NA	± 20 %	Average RF
2,2-Dichloropropane	50.0	46.7	0.7405	0.6918	-6.6	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	42.2	0.2444	0.2061	-15.7	NA	± 20 %	Average RF
2-Chlorotoluene	50.0	49.9	2.204	2.198	-0.2	NA	± 20 %	Average RF
2-Hexanone	50.0	54.5	0.2032	0.2214	9.0	NA	± 20 %	Average RF
tert-Butyl Alcohol	1000	975	0.03751	0.03657	-2.5	NA	± 20 %	Average RF
4-Chlorotoluene	50.0	50.0	2.230	2.228	-0.1	NA	± 20 %	Average RF
p-Isopropyltoluene	50.0	50.0	2.345	2.347	0.1	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	54.6	0.3050	0.3330	9.2	NA	± 20 %	Average RF
Acetone	50.0	41.9	0.1875	0.1571	-16.2	NA	± 20 %	Average RF
Benzene	50.0	45.1	1.296	1.169	-9.8	NA	± 20 %	Average RF
Bromobenzene	50.0	50.8	0.7603	0.7718	1.5	NA	± 20 %	Average RF
Bromochloromethane	50.0	43.1	0.2905	0.2505	-13.8	NA	± 20 %	Average RF
Bromodichloromethane	50.0	52.1	0.4349	0.4533	4.2	NA	± 20 %	Average RF
Bromoform	50.0	61.2	0.1936	0.2371	22.4 *	NA	± 20 %	Average RF
Bromomethane	50.0	39.2	0.4482	0.3516	-21.6 *	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	49.9	0.3939	0.3932	-0.2	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.3	0.8920	0.8978	0.6	NA	± 20 %	Average RF
Chloroethane	50.0	37.1	0.4643	0.3447	-25.8 *	NA	± 20 %	Average RF
Chloroform	50.0	44.1	0.9297	0.8197	-11.8	NA	± 20 %	Average RF
Chloromethane	50.0	41.1	0.6798	0.5582	-17.9	NA	± 20 %	Average RF
Dibromochloromethane	50.0	53.8	0.3549	0.3815	7.5	NA	± 20 %	Average RF

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000

Service Request: R1502204
Date Analyzed: 4/ 7/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D\

Calibration Date: 3/23/15
Calibration ID: RC1500031
Analysis Lot: 439385
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	37.3	0.6344	0.4727	-25.5 *	NA	± 20 %	Average RF
Methylene Chloride	50.0	39.1	0.5742	0.4489	-21.8 *	NA	± 20 %	Average RF
Ethylbenzene	50.0	51.2	1.508	1.543	2.3	NA	± 20 %	Average RF
Hexachlorobutadiene	50.0	55.0	0.3233	0.3559	10.1	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	51.4	1.394	1.432	2.7	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	45.8	1.363	1.249	-8.4	NA	± 20 %	Average RF
Naphthalene	50.0	52.6	1.706	1.793	5.1	NA	± 20 %	Average RF
Styrene	50.0	50.1	0.9616	0.9631	0.2	NA	± 20 %	Average RF
Tetrachloroethene (PCE)	50.0	52.0	0.3710	0.3859	4.0	NA	± 20 %	Average RF
Toluene	50.0	50.4	1.349	1.361	0.8	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	47.1	0.3299	0.3105	-5.9	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	44.8	0.7383	0.6613	-10.4	NA	± 20 %	Average RF
Vinyl Chloride	50.0	45.4	0.6123	0.5554	-9.3	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	41.6	0.5712	0.4748	-16.9	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	48.2	0.5432	0.5240	-3.5	NA	± 20 %	Average RF
m,p-Xylenes	100	99.6	0.5588	0.5563	-0.4	NA	± 20 %	Average RF
n-Butylbenzene	50.0	49.6	2.192	2.175	-0.8	NA	± 20 %	Average RF
n-Propylbenzene	50.0	49.5	3.476	3.439	-1.1	NA	± 20 %	Average RF
o-Xylene	50.0	49.4	0.5537	0.5471	-1.2	NA	± 20 %	Average RF
sec-Butylbenzene	50.0	49.4	2.815	2.781	-1.2	NA	± 20 %	Average RF
tert-Butylbenzene	50.0	49.2	1.987	1.955	-1.6	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	40.2	0.5329	0.4286	-19.6	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	53.7	0.4833	0.5194	7.5	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	53.3	0.4721	0.5032	6.6	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	52.8	0.3219	0.3396	5.5	NA	± 20 %	Average RF
Toluene-d8	50.0	56.2	1.086	1.220	12.3	NA	± 20 %	Average RF

Evaluate Continuing Calibration Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration

KR 4/7/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	92	0.00	
2	P	Dichlorodifluoromethane	0.6344	0.4727	25.5#	64	0.00	⊗
3	P	Chloromethane	0.6798	0.5582	17.9	77	0.00	
4	P	Vinyl Chloride	0.6123	0.5554	9.3	79	0.00	
5	P	Bromomethane	0.4482	0.3516	21.6#	69	0.00	⊗
6	P	Chloroethane	0.4643	0.3447	25.8#	69	0.00	⊗
7		FREON 21	1.1401	0.9870	13.4	78	0.00	
8	P	Trichlorofluoromethane	0.7383	0.6613	10.4	81	0.00	
9		Diethyl Ether	0.4445	0.3732	16.0	77	0.00	
10		FREON 123A	0.6648	0.5547	16.6	79	0.00	
11		FREON 123	0.6990	0.5798	17.1	76	0.00	
12		Acrolein	0.0798	0.0314	1.7 ~~60.7#~~	37#	0.00	
13	P	FREON 113	0.5077	0.4281	15.7	76	0.00	
14	P	1,1-Diclethene	0.4486	0.3800	15.3	77	0.00	
15	P	Acetone	0.1875	0.1571	16.2	77	0.00	
16		2-Propanol	0.0255	0.0221	13.3	80	0.02	
17		Iodomethane	0.8298	0.6622	20.2#	72	0.00	⊗ 2286 only
18	P	Carbon Disulfide	2.0677	1.6747	19.0	72	0.00	
19		Acetonitrile	0.0479	0.0388	19.0	69	0.00	
20		Allyl Chloride	0.9611	0.7896	17.8	73	0.00	
21	P	Methyl Acetate	0.3520	0.2991	15.0	79	0.00	
22	P	Methylene Chloride	0.5742	0.4489	21.8#	75	0.00	⊗
23		TBA	0.0375	0.0366	2.4	90	0.00	
24		Acrylonitrile	0.1599	0.1351	15.5	77	0.00	
25	P	Methyl-t-Butyl Ether	1.3635	1.2491	8.4	84	0.00	
26	P	trans-1,2-Dichloroethene	0.5329	0.4286	19.6	75	0.00	
27		Halothane	0.0000	0.0000	0.0	114	-0.16	
28	P	1,1-Diclethane	0.9472	0.7868	16.9	76	0.00	
29		Vinyl Acetate	0.0752	0.0814	-8.2	101	0.00	
30		DIPE	2.2121	1.7542	M 20.7#	76	0.00	
31		2-Chloro-1,3-butadiene	1.0477	0.8912	14.9	79	0.00	
32		ETBE	1.8353	1.5694	14.5	79	0.00	
33		2,2-Dichloropropane	0.7405	0.6918	6.6	86	0.00	
34	P	2-Butanone	0.2444	0.2061	15.7	78	0.00	
35	P	cis-1,2-Dichloroethene	0.5712	0.4748	16.9	75	0.00	
36		Propionitrile	0.0559	0.0462	17.4	78	0.00	
37		Methacrylonitrile	0.1874	0.1531	18.3	74	0.00	
38		Bromochloromethane	0.2905	0.2505	13.8	79	0.00	
39	P	Chloroform	0.9297	0.8197	11.8	80	0.00	
40		Tetrahydrofuran	0.1314	0.1084	17.5	80	0.00	
41	P	1,1,1-Trichloroethane	0.7468	0.6937	7.1	82	0.00	
42	I	1,4 - Difluorobenzene	1.0000	1.0000	0.0	84	0.00	
43	P	Cyclohexane	0.6065	0.5577	8.0	75	0.00	
44	S	surr4,Dibrflmethane	0.3219	0.3396	-5.5	86	0.00	
45	P	Carbontetrachloride	0.3939	0.3932	0.2	82	0.00	
46		1,1-Dichloropropene	0.4497	0.4295	4.5	79	0.00	
47		Iso-Butyl Alcohol	0.0114	0.0107	6.1	80	0.00	
48	S	surr1,1,2-Diclethane	0.3245	0.3641	-12.2	91	0.02	
49	P	Benzene	1.2964	1.1692	9.8	76	0.00	

(#) = Out of Range
W0909.D W032315.M Tue Apr 07 11:39:19 2015

Evaluate Continuing Calibration Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level 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)
50	P	1,2-Dichloroethane	0.4110	0.4306	-4.8	86	0.00
51		TAME	0.8825	0.8492	3.8	81	0.00
52		N-Heptane	0.4636	0.4195	9.5	75	0.00
53		1-Butanol	0.0060	0.0064	-6.7	81	0.00
54	P	Trichloroethene	0.3299	0.3105	5.9	76	0.00
55	P	Methylcyclohexane	0.4776	0.4483	6.1	80	0.02
56	P	1,2-Diclpropane	0.3601	0.3225	10.4	75	0.00
57		Methyl Methacrylate	0.0740	0.0786	-6.2	86	0.00
58		1,4-Dioxane	0.0022	0.0019	13.6	77	0.00
59		Dibromomethane	0.1845	0.1796	2.7	78	0.02
60	P	Bromodichloromethane	0.4349	0.4533	-4.2	83	0.00
61		2-Nitropropane	0.0677	0.0904	-33.5#	107	0.00
62		2-Chloroethylvinyl Ether	0.1921	0.1374	28.5#	61	0.00
63	P	cis-1,3-Dichloropropene	0.5432	0.5240	3.5	79	0.02
64	I	d5 - Chlorobenzene	1.0000	1.0000	0.0	79	0.00
65	P	4-Methyl-2-Pentanone	0.3050	0.3330	-9.2	84	0.00
66	P	Toluene	1.3494	1.3605	-0.8	78	0.02
67		trans-1,3-Dichloropropene	0.4833	0.5194	-7.5	82	0.00
68		Ethyl Methacrylate	0.3908	0.4325	-10.7	86	0.00
69	P	1,1,2-Trichloroethane	0.2517	0.2514	0.1	80	0.00
70	S	surr3,Toluene-d8	1.0856	1.2197	-12.4	82	0.00
71	S	surr2,bfb	0.4721	0.5032	-6.6	78	0.00
72	P	Tetrachloroethene	0.3710	0.3859	-4.0	81	0.00
73	P	2-Hexanone	0.2032	0.2214	-9.0	84	0.00
74		1,3-Dichloropropane	0.5273	0.5268	0.1	79	0.00
75		Butyl Acetate	0.5050	0.5517	-9.2	85	0.00
76	P	Dibromochloromethane	0.3549	0.3815	-7.5	83	0.00
77	P	1,2-Dibromoethane	0.2834	0.2949	-4.1	79	0.00
78	P	Chlorobenzene	0.8920	0.8978	-0.7	76	0.00
79		3-CBTF	0.5031	0.5295	-5.2	82	0.00
80		4-CBTF	0.4550	0.4773	-4.9	84	0.00
81		1,1,1,2-Tetrachloroethane	0.3310	0.3548	-7.2	81	0.00
82	P	Ethylbenzene	1.5079	1.5430	-2.3	80	0.00
83	P	(m+p)Xylene	0.5588	0.5563	0.4	79	0.00
84	P	o-Xylene	0.5537	0.5471	1.2	78	0.02
85	P	Styrene	0.9616	0.9631	-0.2	77	0.00
86	P	Bromoform	0.1936	0.2371	-22.5#	90	0.00
87		2-CBTF	0.4797	0.5039	-5.0	84	0.00
88	P	Isopropylbenzene	1.3939	1.4322	-2.7	80	0.00
89		Cyclohexanone	0.0331	0.0396	-19.6	95	0.00
90	I	d4 - Dichlorobenzene	1.0000	1.0000	0.0	80	0.00
91	P	1,1,2,2-Tetrachloroethane	0.6550	0.6856	-4.7	81	0.00
92		Trans-1,4-Dichloro-2-butene	0.1606	0.1855	-15.5	86	0.00
93		1,2,3-Trichloropropane	0.2049	0.2063	-0.7	87	0.02
94		n-Propylbenzene	3.4761	3.4393	1.1	78	0.00
95		Bromobenzene	0.7603	0.7718	-1.5	81	0.00
96		1,3,5-Trimethylbenzene	2.2597	2.2908	-1.4	81	0.02
97		2-Chlorotoluene	2.2037	2.1985	0.2	79	0.00

(#) = Out of Range

W0909.D W032315.M Tue Apr 07 11:39:22 2015 Page 2

Evaluate Continuing Calibration Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level 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)
98		3-Chlorotoluene	2.1999	2.2252	-1.2	82	0.00
99		4-Chlorotoluene	2.2295	2.2280	0.1	80	0.00
100		tert-Butylbenzene	1.9867	1.9553	1.6	79	0.00
101		1,2,4-Trimethylbenzene	2.3019	2.3166	-0.6	80	0.00
102		3,4-DCBTF	0.7174	0.7633	-6.4	88	0.00
103		sec-Butylbenzene	2.8155	2.7812	1.2	78	0.00
104		p-Isopropyltoluene	2.3455	2.3467	-0.1	80	0.00
105	P	1,3-Dclbenz	1.4004	1.4110	-0.8	80	0.00
106	P	1,4-Dclbenz	1.4059	1.4039	0.1	81	0.00
107		2,4-DCBTF	0.6114	0.6807	-11.3	86	0.00
108		2,5-DCBTF	0.7111	0.7555	-6.2	86	0.00
109		n-Butylbenzene	2.1923	2.1752	0.8	77	0.00
110	P	1,2-Dclbenz	1.3311	1.3372	-0.5	79	0.00
111	P	1,2-Dibromo-3-chloropropane	0.1375	0.1449	-5.4	88	0.00
112		Trielution Dichlorotoluene	1.0902	1.1053	-1.4	82	0.00
113		Nitrobenzene	0.0000	0.0000	0.0	0#	-0.42
114		1,3,5 Trichlorobenzene	0.9036	0.9077	-0.5	80	0.00
115		Coelution Dichlorotoluene	1.1280	1.1842	-5.0	82	0.00
116	P	1,2,4-Tcbenzene	0.7965	0.8509	-6.8	80	0.00
117		Hexachlorobt	0.3233	0.3559	-10.1	87	0.00
118		Naphthalen	1.7057	1.7931	-5.1	81	0.02
119		1,2,3-Tclbenzene	0.6710	0.7159	-6.7	81	0.00
120		2,4,5-Trichlorotoluene	0.4380	0.4507	-2.9	82	0.00
121		2,3,6-Trichlorotoluene	0.3685	0.3802	-3.2	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W0909.D W032315.M Tue Apr 07 11:39:24 2015 Page 3

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV RQ1503305-02 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:38 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.75	168	997595	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.93	114	1485072	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.02	117	1317798	50.00	ppb		0.00
90) d4 - Dichlorobenzene	20.62	152	653870	50.00	ppb		0.00
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.81	113	504373	52.76	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.52%				
48) surr1,1,2-Diclethane	10.35	65	540700	56.10	ppb		0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 112.20%				
70) surr3,Toluene-d8	13.39	98	1607287	56.17	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.34%				
71) surr2,bfb	18.27	95	663171	53.30	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.40	85	471558	37.25	ppb		98
3) Chloromethane	4.75	50	556851	41.05	ppb		97
4) Vinyl Chloride	4.95	62	554043	45.35	ppb		98
5) Bromomethane	5.52	96	350769	39.22	ppb		97
6) Chloroethane	5.67	64	343843	37.12	ppb		95
7) FREON 21	5.90	67	984592	43.28	ppb		100
8) Trichlorofluoromethane	6.06	101	659752	44.79	ppb		96
9) Diethyl Ether	6.41	59	372282	41.98	ppb		96
10) FREON 123A	6.36	67	553415m	41.72	ppb		
11) FREON 123	6.43	83	578452m	41.48	ppb		
12) Acrolein	6.60	56	156547	98.34	ppb		91
13) FREON 113	6.76	101	427057	42.16	ppb		93
14) 1,1-Diclethene	6.81	96	379055	42.35	ppb		92
15) Acetone	6.78	43	156749	41.89	ppb		99
16) 2-Propanol	6.86	45	441628	868.12	ppb		100
17) Iodomethane	7.07	142	660641	39.90	ppb		98
18) Carbon Disulfide	7.22	76	1670659	40.50	ppb		100
19) Acetonitrile	7.14	41	193411	202.34	ppb		97
20) Allyl Chloride	7.26	41	787662	41.08	ppb		97
21) Methyl Acetate	7.20	43	298392	42.48	ppb		98
22) Methylene Chloride	7.41	84	447808	39.09	ppb		99
23) TBA	7.40	59	729575	974.89	ppb		98
24) Acrylonitrile	7.69	53	673921	211.23	ppb		97
25) Methyl-t-Butyl Ether	7.77	73	1246124	45.81	ppb		99
26) trans-1,2-Dichloroethene	7.81	96	427613	40.22	ppb		96
28) 1,1-Diclethane	8.38	63	784900	41.53	ppb		99
29) Vinyl Acetate	8.32	86	81172	54.08	ppb	#	80
30) DIPE	8.36	45	1749977	39.65	ppb		96
31) 2-Chloro-1,3-butadiene	8.51	53	889010	42.53	ppb		95
32) ETBE	8.86	59	1565662	42.76	ppb		99
33) 2,2-Dichloropropane	9.20	77	690138	46.71	ppb		100
34) 2-Butanone	9.09	43	205625	42.16	ppb		94
35) cis-1,2-Dichloroethene	9.17	96	473665	41.56	ppb		96
36) Propionitrile	9.17	54	230482	206.66	ppb		92
37) Methacrylonitrile	9.41	67	152696	40.84	ppb	#	83

(#) = qualifier out of range (m) = manual integration
W0909.D W032315.M Tue Apr 07 11:39:07 2015

4/7/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:38 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Bromochloromethane	9.52	128	249877	43.11	ppb	88
39)	Chloroform	9.57	83	817747	44.09	ppb	97
40)	Tetrahydrofuran	9.60	42	108114	41.25	ppb	89
41)	1,1,1-Trichloroethane	9.95	97	692030	46.45	ppb	97
43)	Cyclohexane	10.09	56	828272	45.98	ppb	97
45)	Carbontetrachloride	10.22	117	583930	49.91	ppb	100
46)	1,1-Dichloropropene	10.17	75	637776	47.75	ppb	97
47)	Iso-Butyl Alcohol	10.00	43	318229	938.90	ppb	99
49)	Benzene	10.50	78	1736382	45.10	ppb	99
50)	1,2-Dichloroethane	10.46	62	639545	52.38	ppb	97
51)	TAME	10.53	73	1261147	48.12	ppb	100
52)	N-Heptane	10.74	43	623010	45.25	ppb	96
53)	1-Butanol	10.98	56	476476	2665.27	ppb	100
54)	Trichloroethene	11.42	95	461185	47.06	ppb	95
55)	Methylcyclohexane	11.82	55	665774	46.94	ppb	100
56)	1,2-Diclpropane	11.79	63	478918	44.78	ppb	96
57)	Methyl Methacrylate	11.77	100	116798	53.14	ppb	98
58)	1,4-Dioxane	11.91	88	57026	873.44	ppb	98
59)	Dibromomethane	11.98	93	266775	48.67	ppb	91
60)	Bromodichloromethane	12.15	83	673179	52.12	ppb	96
61)	2-Nitropropane	12.47	43	268409	133.53	ppb	97
62)	2-Chloroethylvinyl Ether	12.53	63	204043	35.77	ppb	100
63)	cis-1,3-Dichloropropene	12.88	75	778148	48.23	ppb	97
65)	4-Methyl-2-Pentanone	13.04	43	438821	54.59	ppb	98
66)	Toluene	13.52	91	1792899	50.41	ppb	100
67)	trans-1,3-Dichloropropene	13.77	75	684411	53.73	ppb	100
68)	Ethyl Methacrylate	13.81	69	569917	55.33	ppb	96
69)	1,1,2-Trichloroethane	14.13	83	331274	49.94	ppb	94
72)	Tetrachloroethene	14.53	166	508522	52.01	ppb	95
73)	2-Hexanone	14.47	43	291781	54.48	ppb	99
74)	1,3-Dichloropropane	14.46	76	694225	49.95	ppb	100
75)	Butyl Acetate	14.62	43	727047	54.62	ppb	97
76)	Dibromochloromethane	14.91	129	502760	53.75	ppb	100
77)	1,2-Dibromoethane	15.20	107	388656	52.04	ppb	96
78)	Chlorobenzene	16.08	112	1183079	50.32	ppb	98
79)	3-CBTF	15.85	180	697815	52.62	ppb	98
80)	4-CBTF	15.95	180	628952	52.45	ppb	100
81)	1,1,1,2-Tetrachloroethane	16.19	131	467529	53.59	ppb	95
82)	Ethylbenzene	16.23	91	2033348	51.16	ppb	96
83)	(m+p)Xylene	16.44	106	1466266	99.56	ppb	93
84)	o-Xylene	17.24	106	720975	49.41	ppb	95
85)	Styrene	17.24	104	1269222	50.08	ppb	94
86)	Bromoform	17.66	173	312432	61.22	ppb	98
87)	2-CBTF	17.65	180	664062	52.53	ppb	98
88)	Isopropylbenzene	17.93	105	1887301	51.37	ppb	100
89)	Cyclohexanone	18.15	55	1044110	1197.05	ppb	99
91)	1,1,2,2-Tetrachloroethane	18.43	83	448304	52.33	ppb	96
92)	Trans-1,4-Dichloro-2-buten	18.54	53	121306	57.74	ppb	91
93)	1,2,3-Trichloropropane	18.59	110	134879	50.33	ppb	97
94)	n-Propylbenzene	18.74	91	2248869	49.47	ppb	99

(#) = qualifier out of range (m) = manual integration
W0909.D W032315.M Tue Apr 07 11:39:08 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:38 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

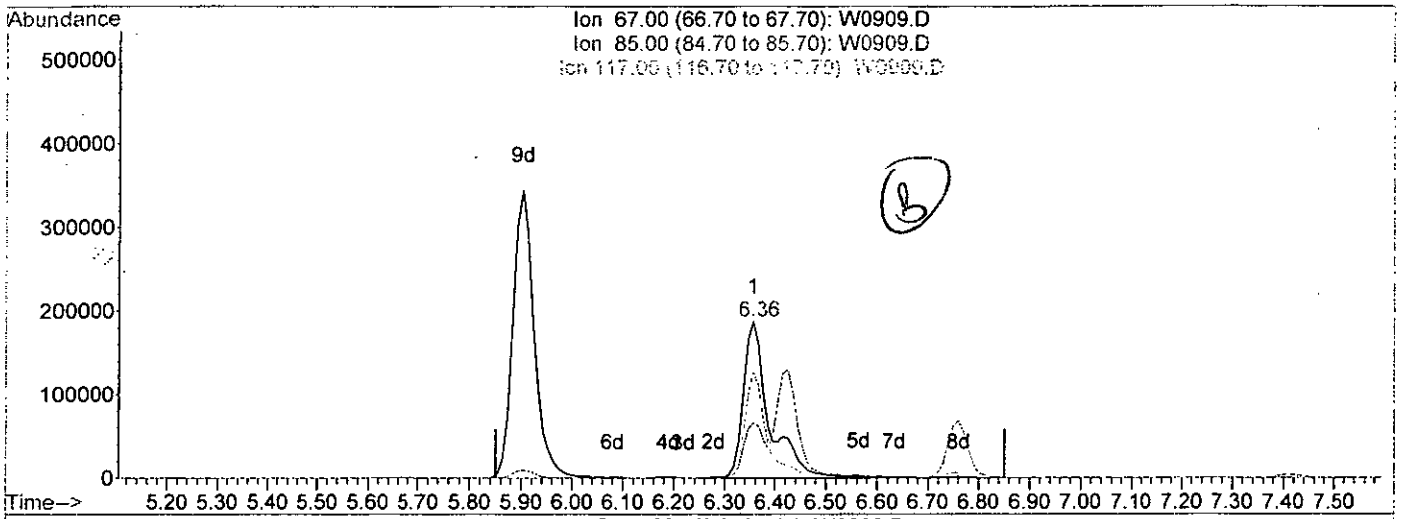
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Bromobenzene	18.66	156	504641	50.76 ppb	97
96)	1,3,5-Trimethylbenzene	19.07	105	1497894	50.69 ppb	96
97)	2-Chlorotoluene	19.00	91	1437522	49.88 ppb	97
98)	3-Chlorotoluene	19.10	91	1455019m	50.58 ppb	
99)	4-Chlorotoluene	19.20	91	1456798	49.96 ppb	98
100)	tert-Butylbenzene	19.78	119	1278541	49.21 ppb	96
101)	1,2,4-Trimethylbenzene	19.86	105	1514785	50.32 ppb	95
102)	3,4-DCBTF	19.91	214	499071	53.19 ppb	98
103)	sec-Butylbenzene	20.22	105	1818540	49.39 ppb	100
104)	p-Isopropyltoluene	20.47	119	1534446	50.03 ppb	98
105)	1,3-Dclbenz	20.52	146	922642	50.38 ppb	98
106)	1,4-Dclbenz	20.67	146	917957	49.93 ppb	98
107)	2,4-DCBTF	20.64	214	445107	55.67 ppb	99
108)	2,5-DCBTF	20.73	214	493975	53.12 ppb	99
109)	n-Butylbenzene	21.22	91	1422316	49.61 ppb	99
110)	1,2-Dclbenz	21.37	146	874346	50.23 ppb	98
111)	1,2-Dibromo-3-chloropropan	22.79	157	94743	52.69 ppb	92
112)	Trielution Dichlorotoluene	23.08	125	2168200	152.08 ppb	99
114)	1,3,5 Trichlorobenzene	23.23	180	593502	50.23 ppb	98
115)	Coelution Dichlorotoluene	23.91	125	1548672	104.98 ppb	99
116)	1,2,4-Tcbenzene	24.43	180	556390	53.41 ppb	94
117)	Hexachlorobt	24.72	225	232692	55.04 ppb	91
118)	Naphthalen	24.96	128	1172459	52.56 ppb	100
119)	1,2,3-Tclbenzene	25.44	180	468077	53.34 ppb	98
120)	2,4,5-Trichlorotoluene	27.01	159	294721	51.46 ppb	97
121)	2,3,6-Trichlorotoluene	27.29	159	248601	51.59 ppb	98

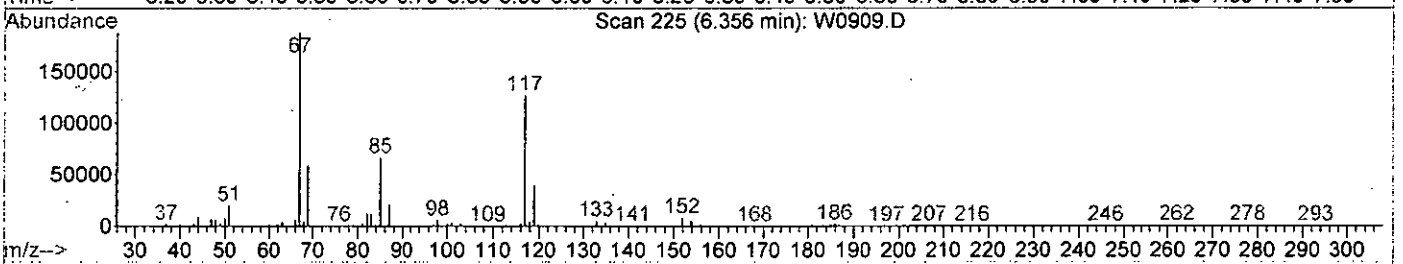
(#) = qualifier out of range (m) = manual integration
W0909.D W032315.M Tue Apr 07 11:39:08 2015

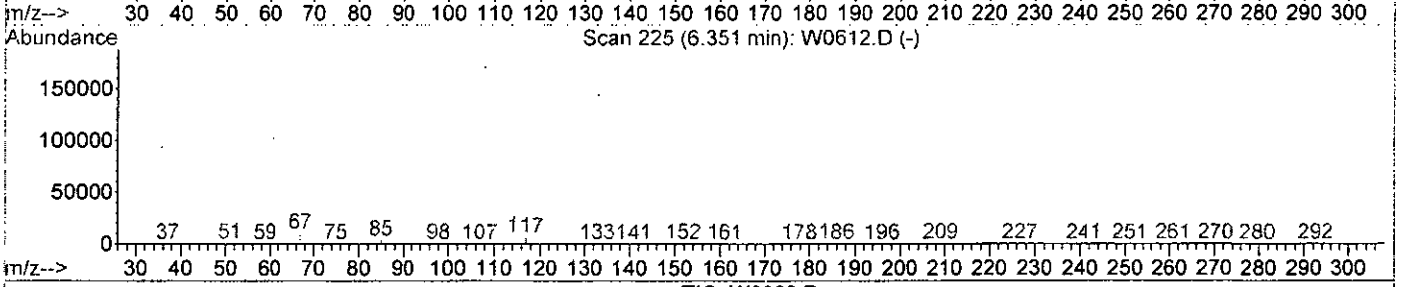
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:32 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0909.D

(10) FREON 123A

6.36min 50.29ppb

response 667083

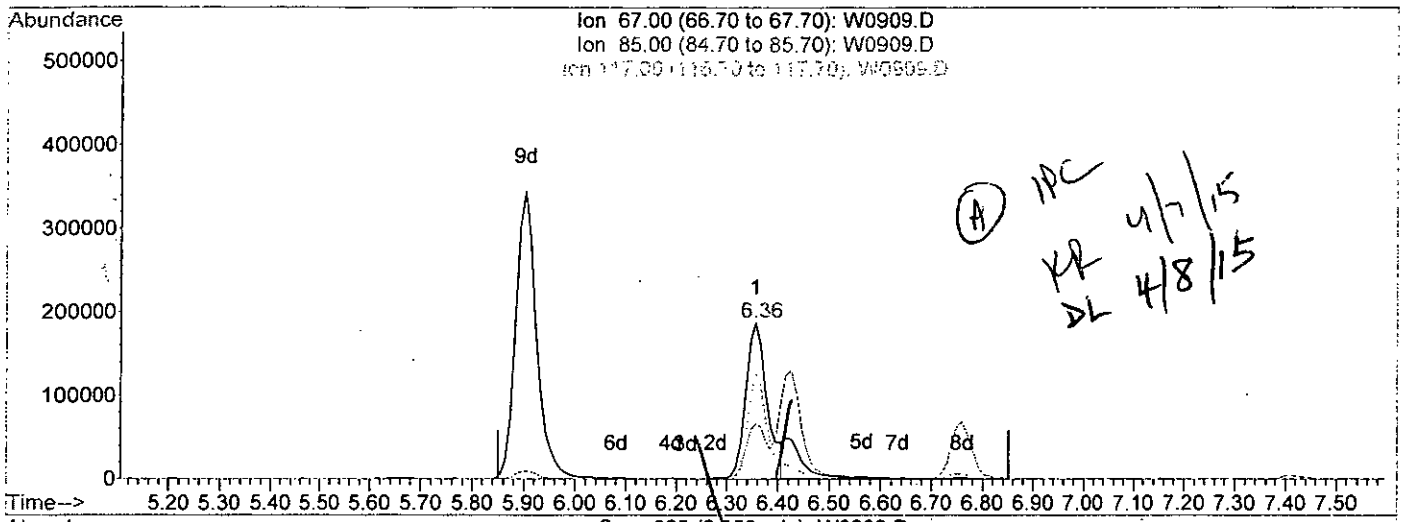
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	35.28
117.00	65.00	67.49
0.00	0.00	0.00

W0909.D W032315.M Tue Apr 07 11:37:03 2015

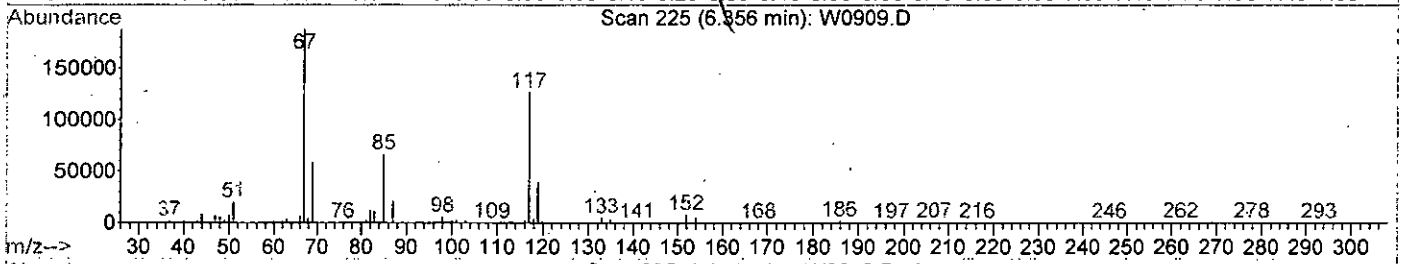
Quantitation Report (Qedit)

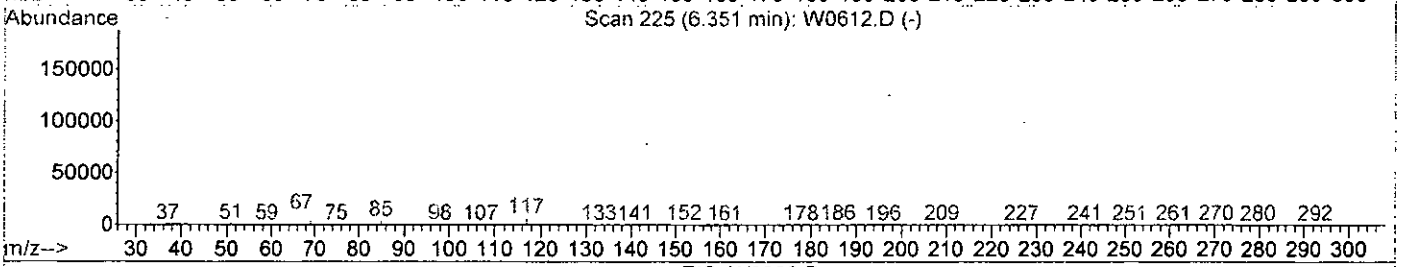
Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:37 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



A IPC 4/7/15
KR 4/8/15
DL





TIC: W0909.D

(10) FREON 123A

6.36min 41.72ppb m

response 553415

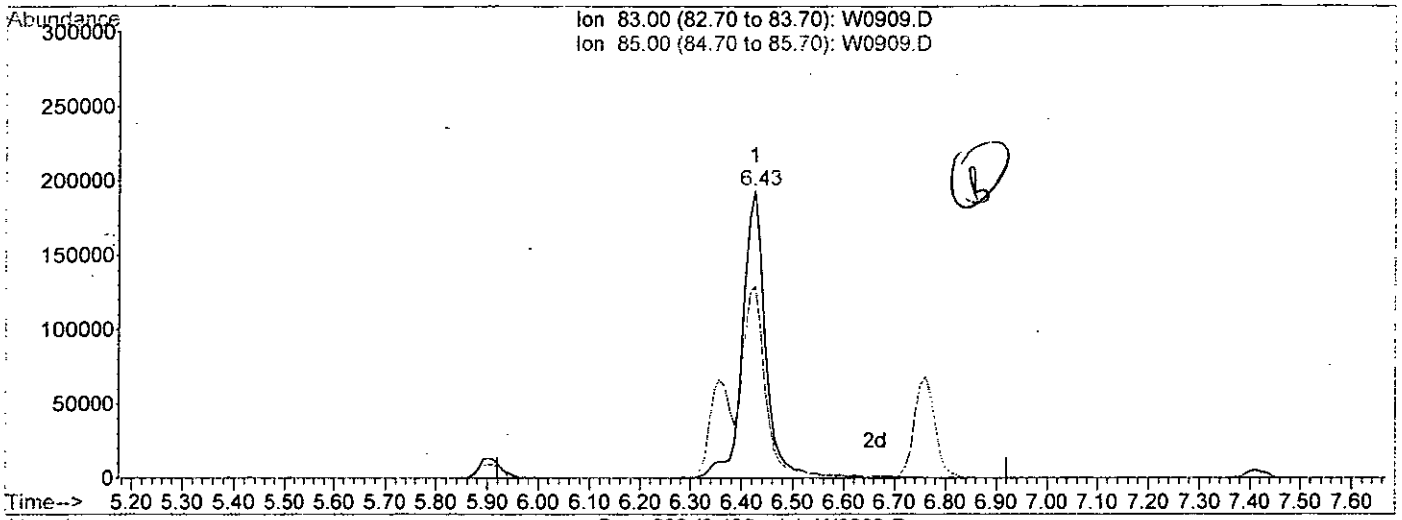
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	35.28
117.00	65.00	67.49
0.00	0.00	0.00

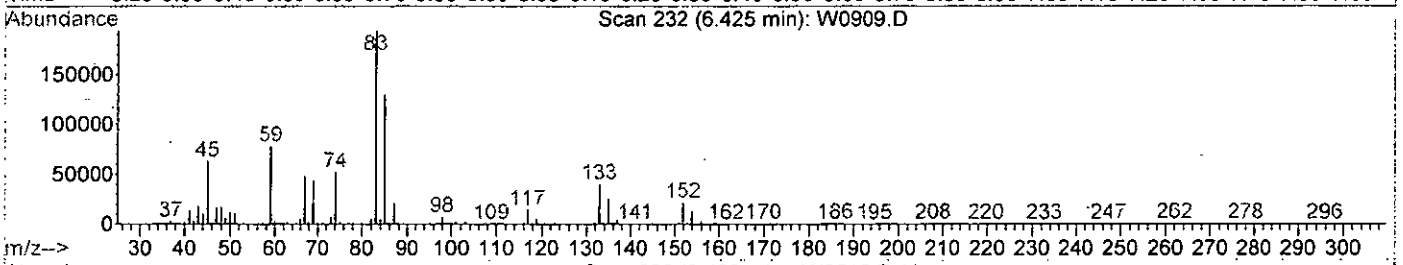
W0909.D W032315.M Tue Apr 07 11:37:11 2015

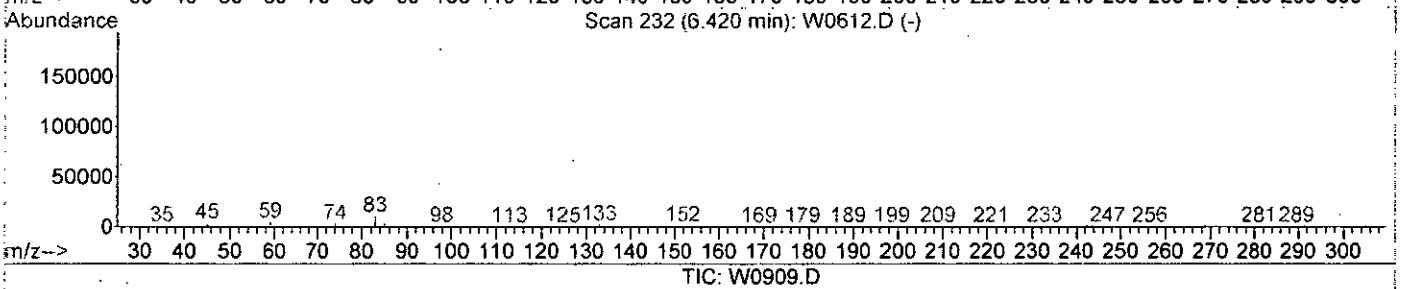
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:37 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0909.D

(11) FREON 123

6.43min 43.00ppb

response 599616

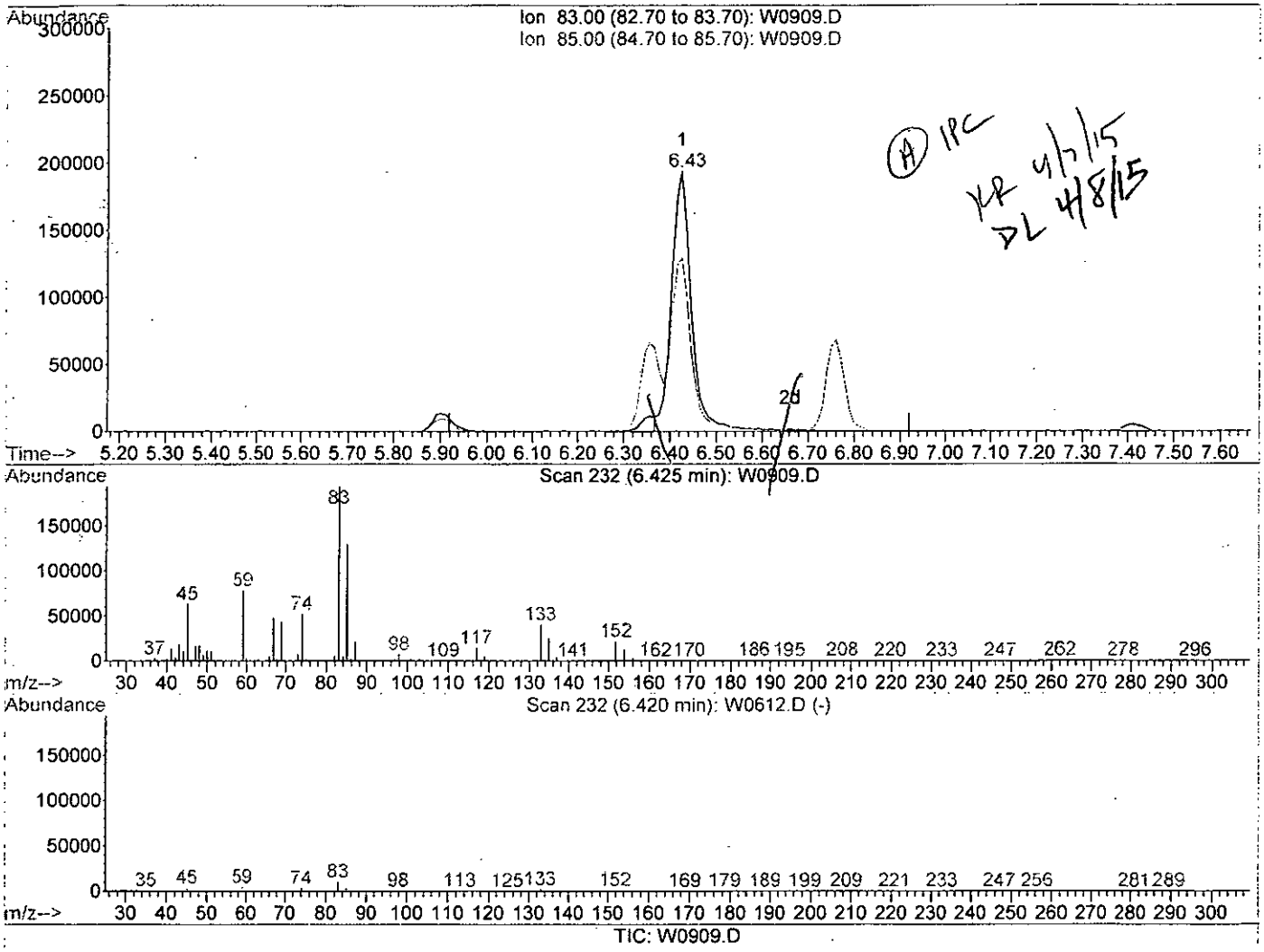
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	66.78
0.00	0.00	0.00
0.00	0.00	0.00

W0909.D W032315.M Tue Apr 07 11:37:18 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:37 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0909.D

(A) IPC 4/7/15 KR 4/7/15 DL 4/8/15

(11) FREON 123

6.43min 41.48ppb m

response 578452

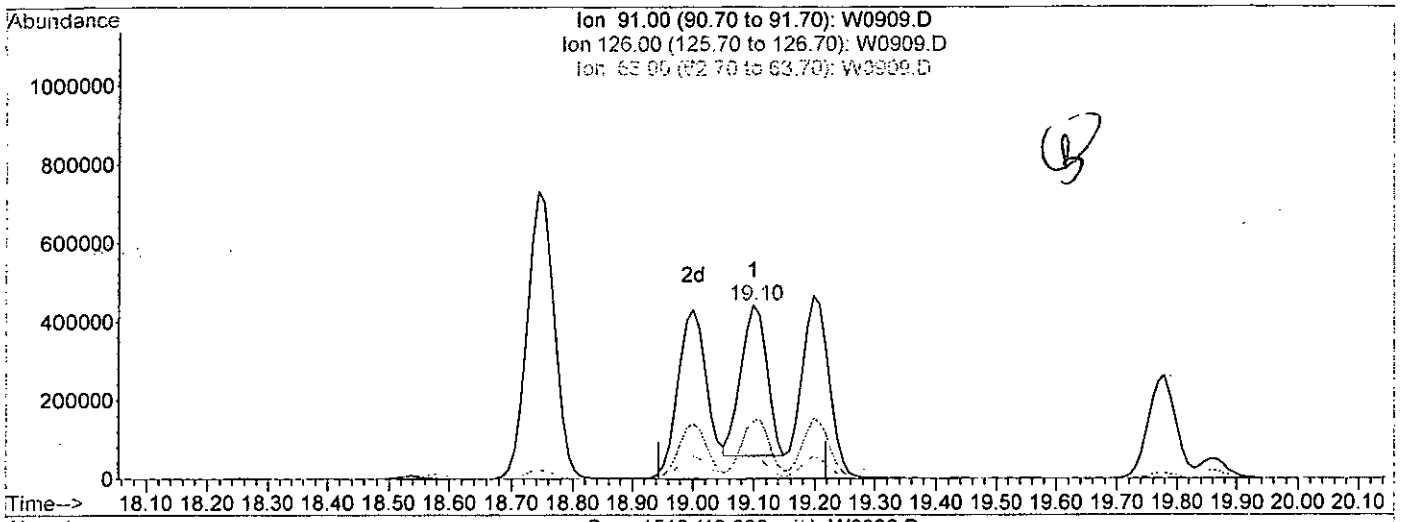
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	66.78
0.00	0.00	0.00
0.00	0.00	0.00

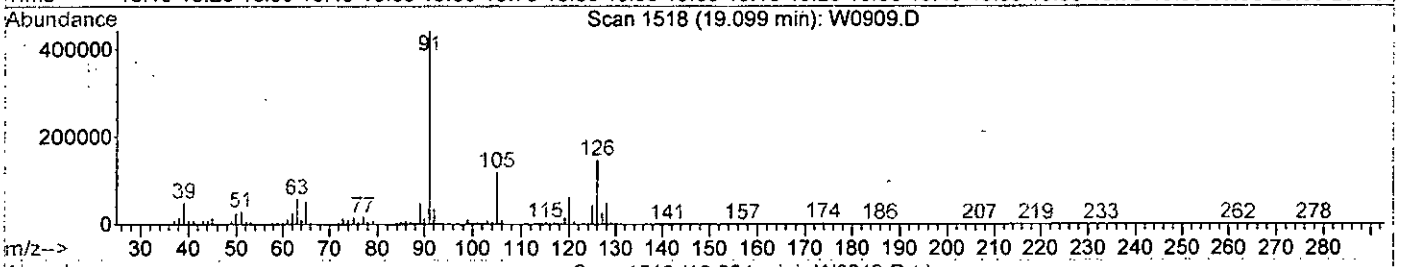
W0909.D W032315.M Tue Apr 07 11:37:26 2015

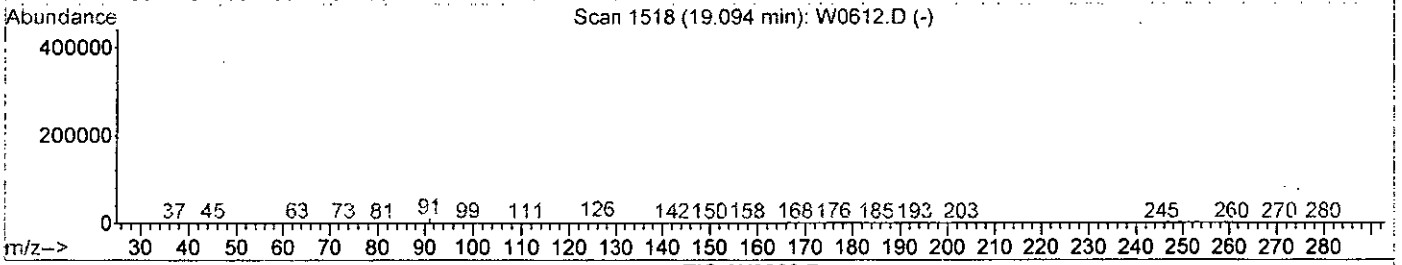
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:37 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0909.D

(98) 3-Chlorotoluene

19.10min 38.58ppb

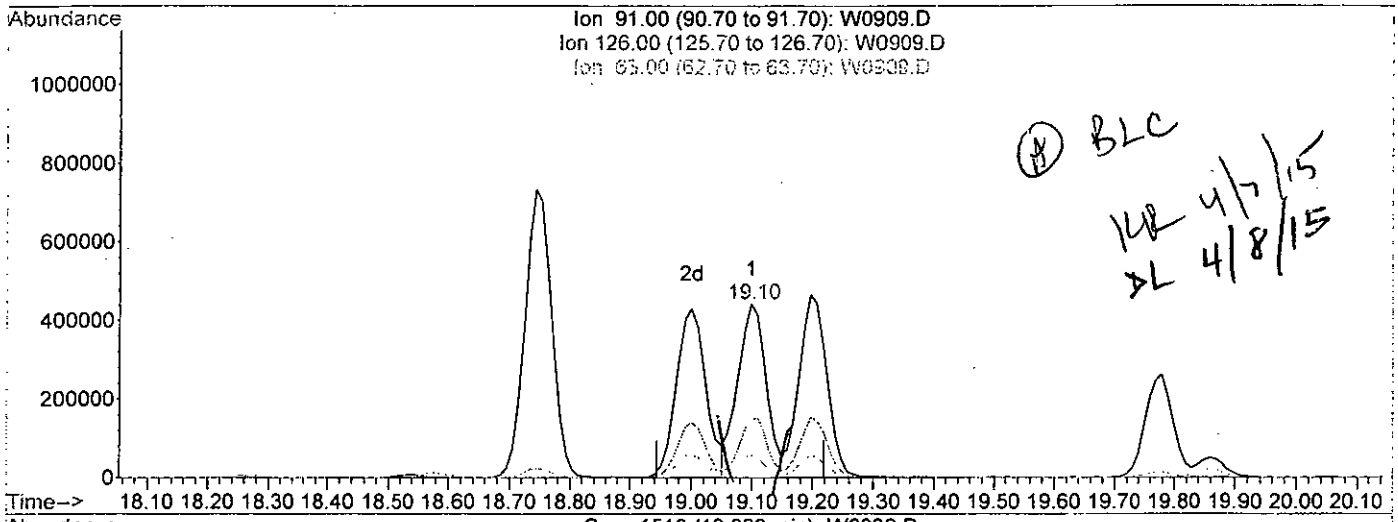
response 1109889

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	35.90#
63.00	12.50	16.43#
0.00	0.00	0.00

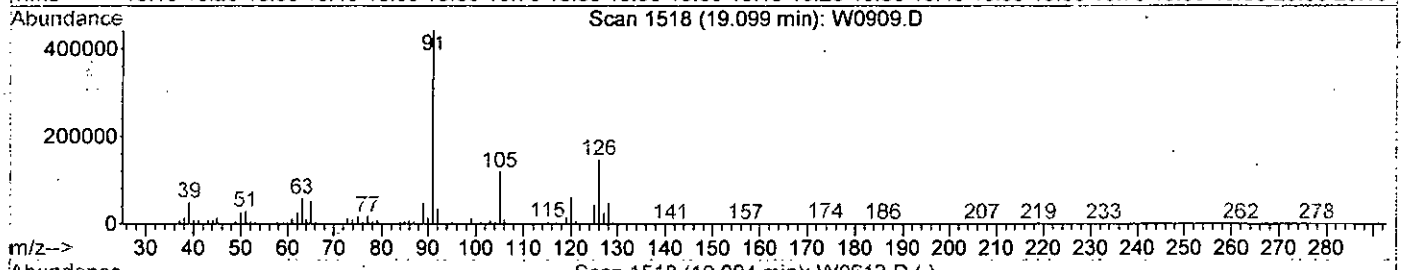
Quantitation Report (Qedit)

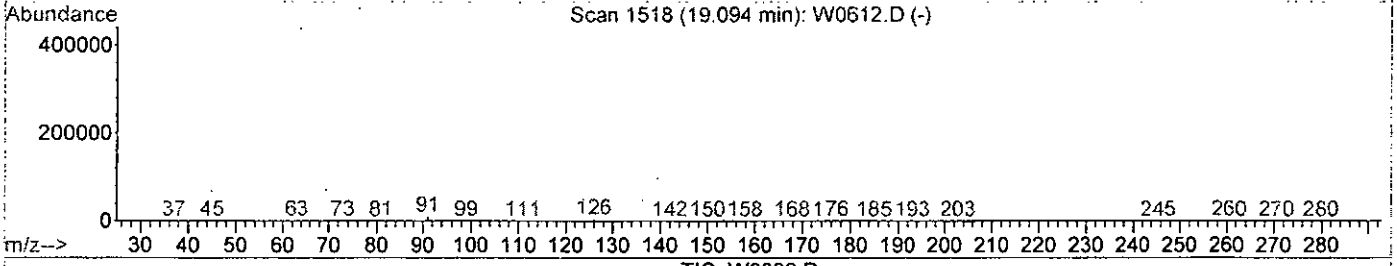
Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:38 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



BLC 4/7/15 4/8/15





TIC: W0909.D

(98) 3-Chlorotoluene

19.10min 50.58ppb m

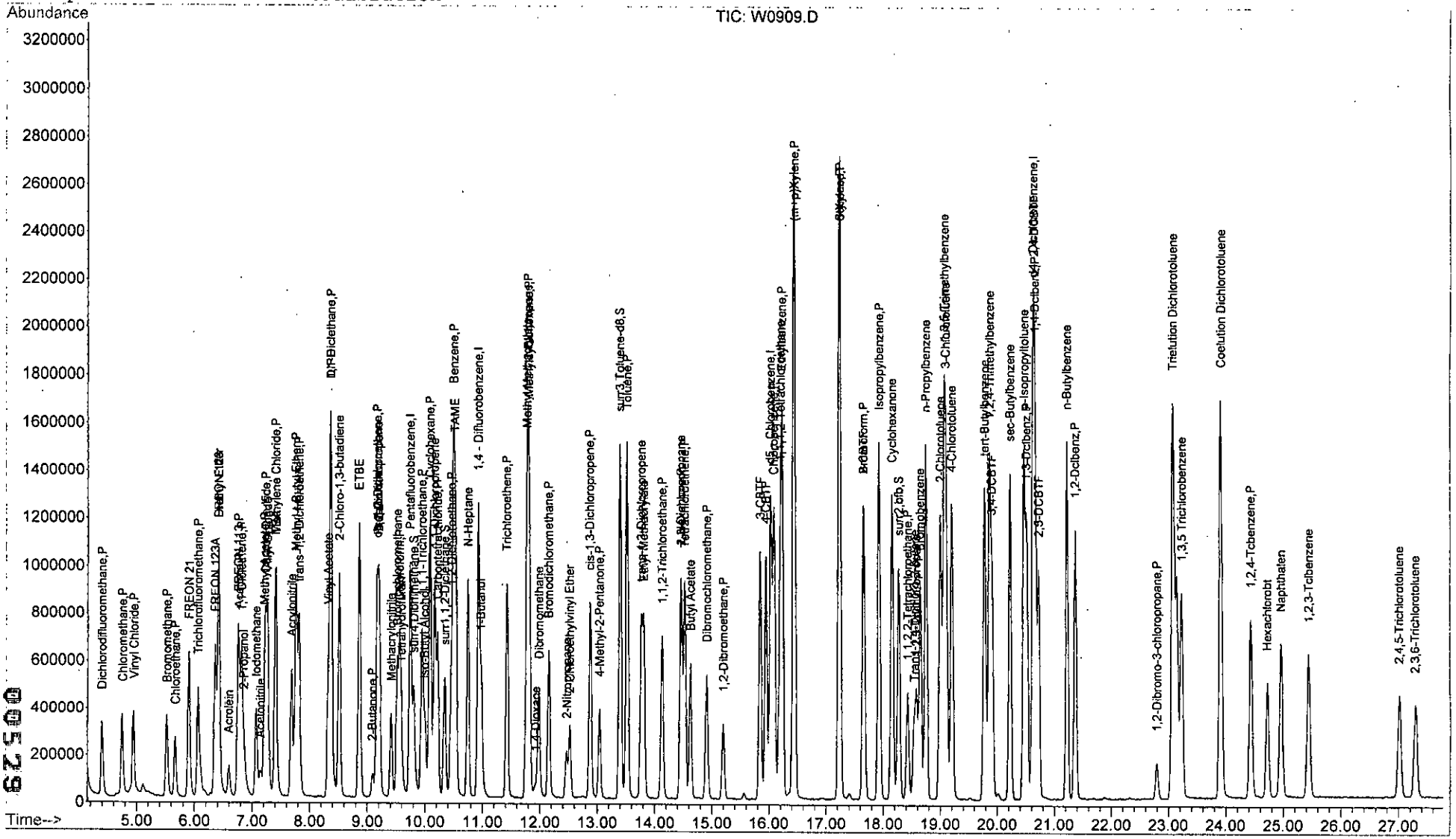
response 1455019

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	27.38
63.00	12.50	12.53
0.00	0.00	0.00

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0909.D Vial: 1
Acq On : 7 Apr 2015 11:07 am Operator: K.Ruest
Sample : CCV Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 11:38 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0909.D W032315.M Tue Apr 07 11:39:12 2015 Page 4

ALS Environmental

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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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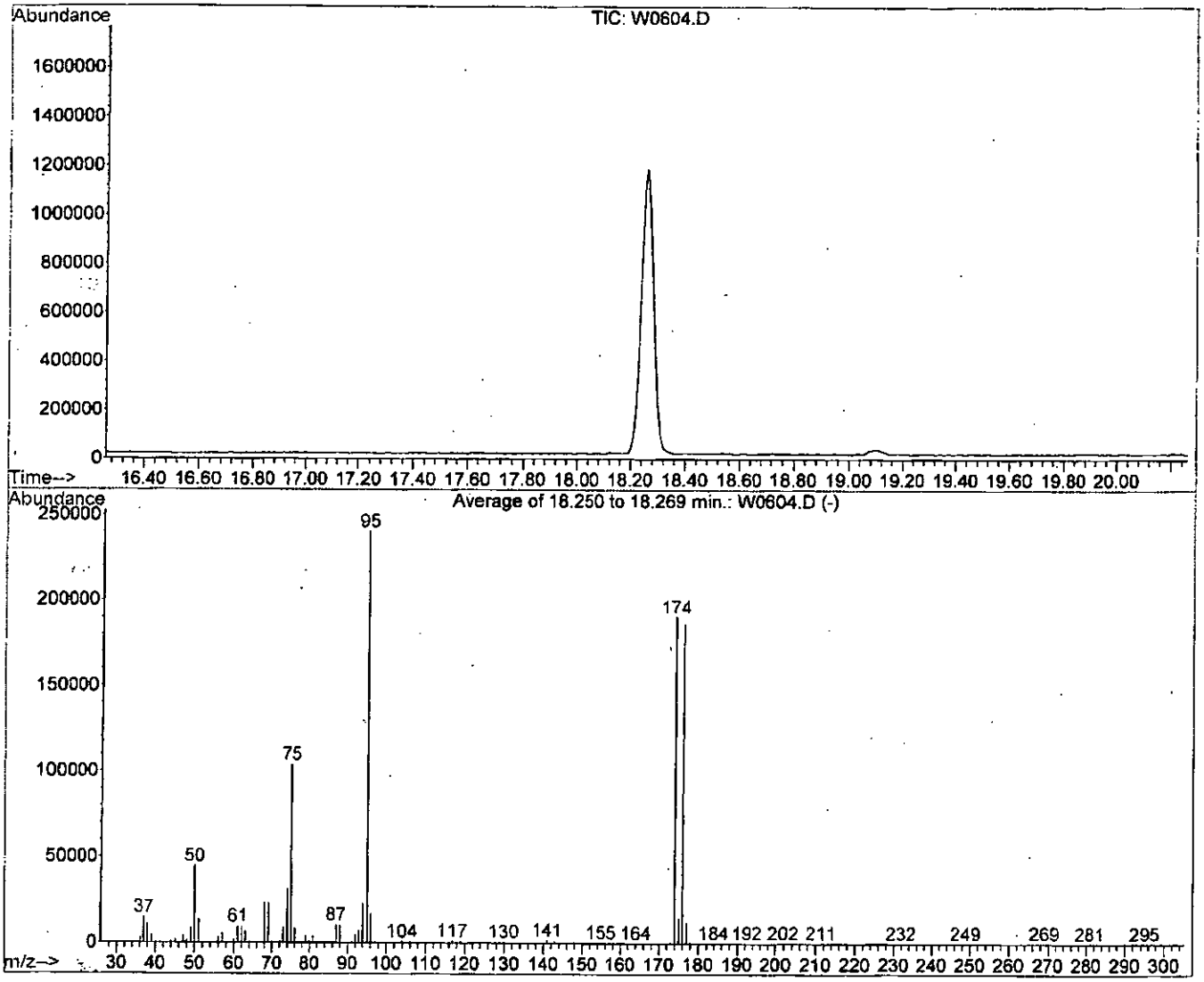
00530

BFB

Data File : I:\ACQUDATA\MSVOA7\DATA\032315\W0604.D Vial: 6
Acq On : 23 Mar 2015 1:30 pm Operator: K.Ruest
Sample : TUNE Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS

KF 3/23/15



AutoFind: Scans 1432, 1433, 1434; Background Corrected with Scan 1421

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	44515	PASS
75	95	30	60	43.2	103831	PASS
95	95	100	100	100.0	240296	PASS
96	95	5	9	6.8	16459	PASS
173	174	0.00	2	0.2	442	PASS
174	95	50	120	79.2	190403	PASS
175	174	5	9	7.5	14297	PASS
176	174	95	101	97.9	186347	PASS
177	176	5	9	6.5	12104	PASS

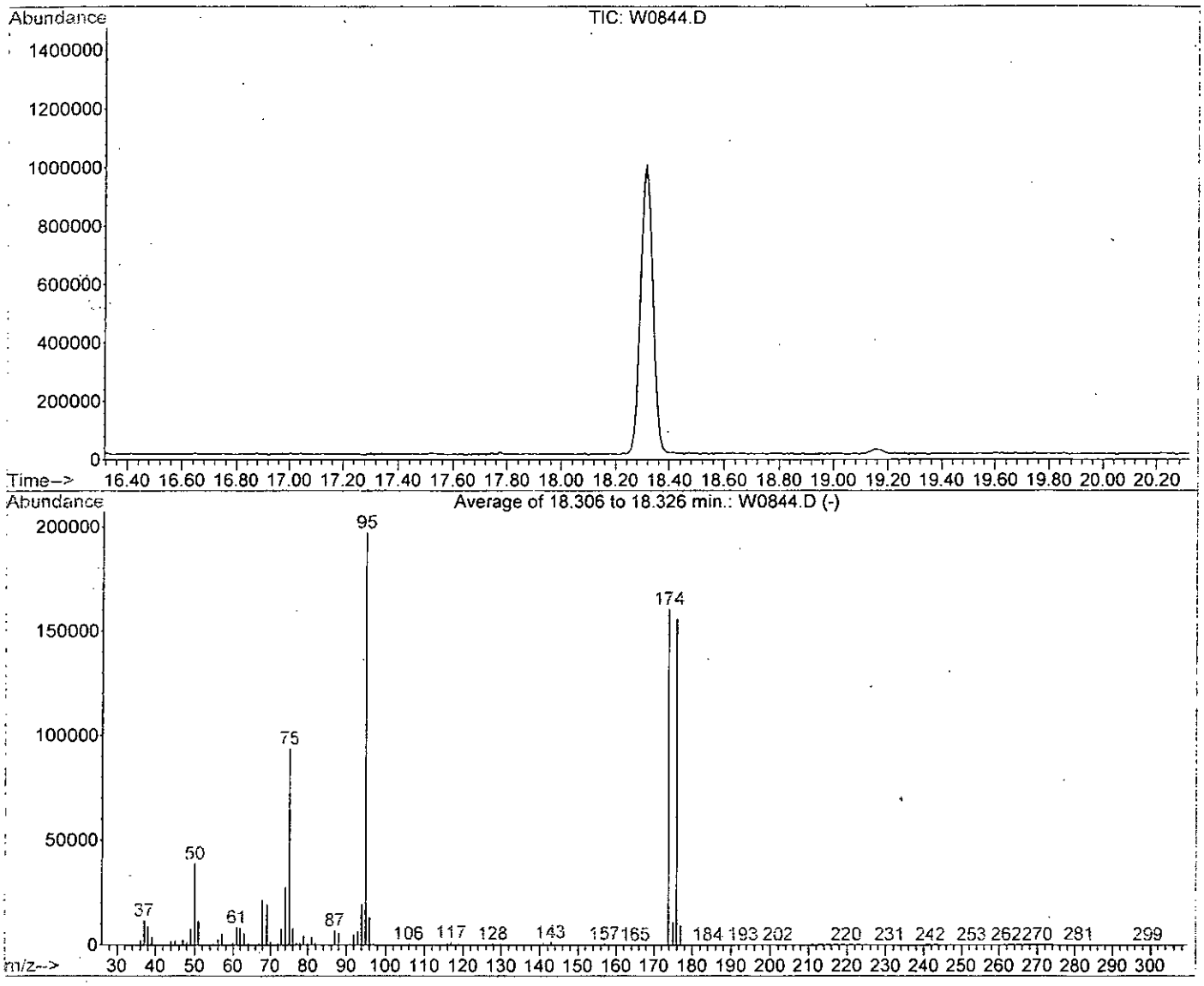
W0604.D W032315.M Mon Mar 23 14:37:26 2015

00531

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0844.D
Acq On : 2 Apr 2015 11:18 am
Sample : TUNE LG1503163-01
Misc :
MS Integration Params: INTP2.P
Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS

Vial: 3
Operator: K.Ruest
Inst : MS #7
Multiplr: 1.00

4/2/15

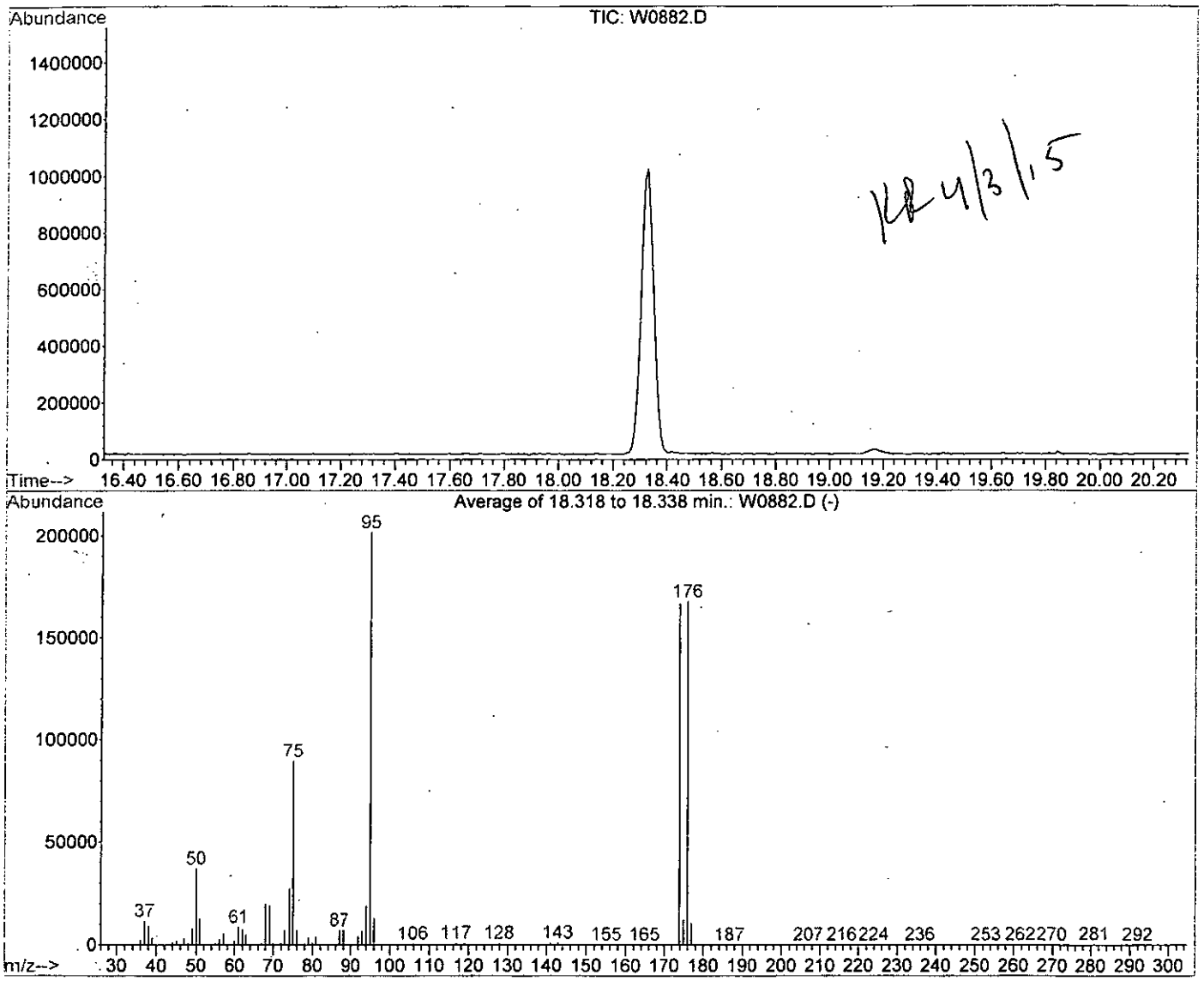


AutoFind: Scans 1438, 1439, 1440; Background Corrected with Scan 1429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	38652	PASS
75	95	30	60	47.5	93661	PASS
95	95	100	100	100.0	197205	PASS
96	95	5	9	6.7	13239	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.3	160384	PASS
175	174	5	9	6.7	10700	PASS
176	174	95	101	97.0	155627	PASS
177	176	5	9	5.9	9194	PASS

W0844.D W032315.M Thu Apr 02 13:20:29 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0882.D Vial: 2
Acq On : 3 Apr 2015 9:56 am Operator: K.Ruest
Sample : TUNE LQ1503202-01 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS



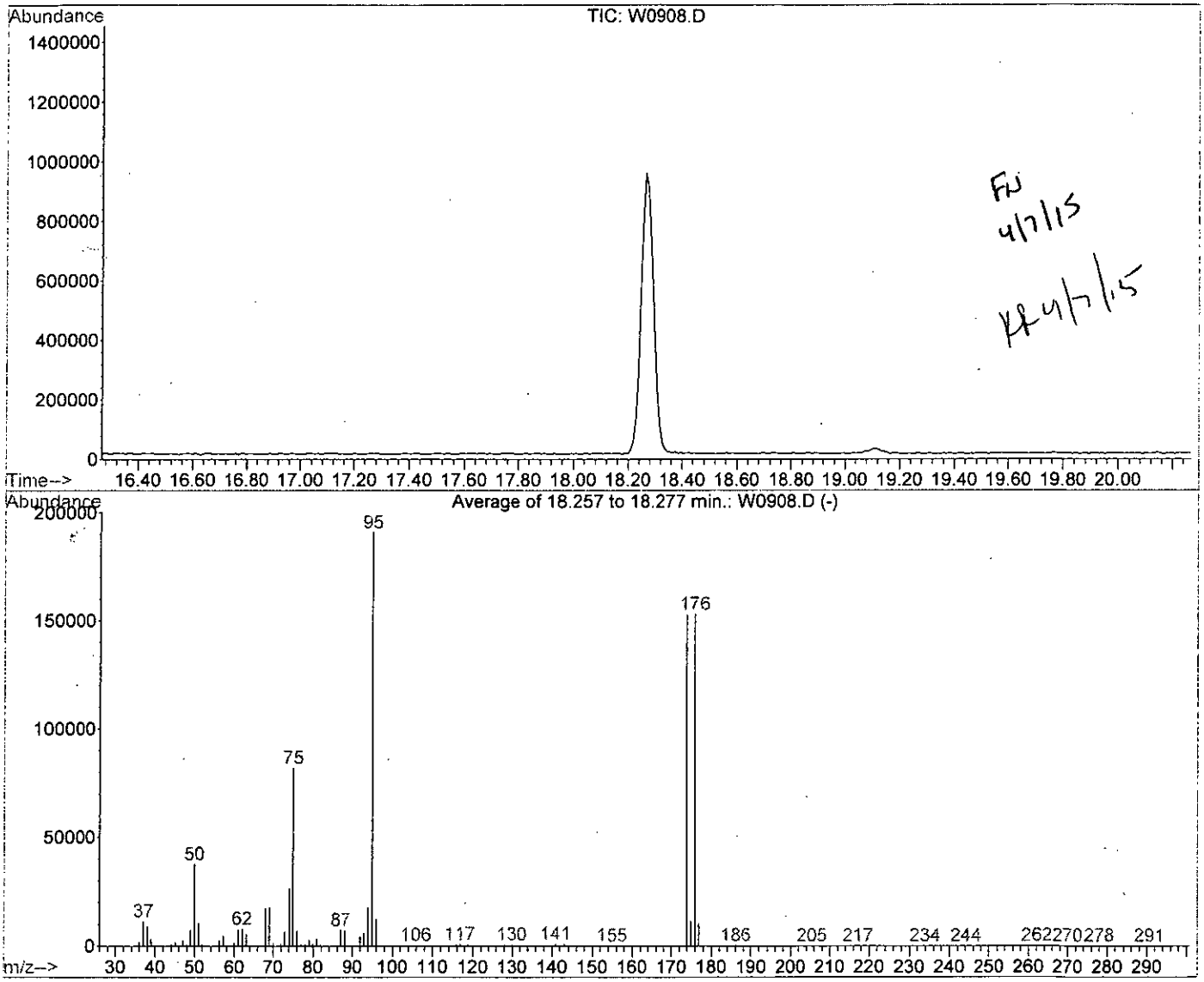
AutoFind: Scans 1439, 1440, 1441; Background Corrected with Scan 1428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	37026	PASS
75	95	30	60	44.4	89587	PASS
95	95	100	100	100.0	201624	PASS
96	95	5	9	6.5	13133	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.6	166635	PASS
175	174	5	9	7.4	12272	PASS
176	174	95	101	100.6	167637	PASS
177	176	5	9	6.3	10489	PASS

W0882.D W032315.M Fri Apr 03 10:25:57 2015

00533

```
Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0908.D        Vial: 3
Acq On    :  7 Apr 2015  10:30 am                      Operator: K.Ruest
Sample    : TUNE RQ1503305-01                          Inst    : MS #7
Misc      :                                            Multiplr: 1.00
MS Integration Params: INTP2.P
Method    : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title     : 8260C.WATERS
```



FW 4/7/15

AutoFind: Scans 1433, 1434, 1435; Background Corrected with Scan 1425

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	37623	PASS
75	95	30	60	43.0	82015	PASS
95	95	100	100	100.0	190871	PASS
96	95	5	9	6.5	12423	PASS
173	174	0.00	2	0.2	300	PASS
174	95	50	120	80.0	152645	PASS
175	174	5	9	7.3	11205	PASS
176	174	95	101	100.2	153025	PASS
177	176	5	9	6.8	10467	PASS

W0908.D W032315.M Tue Apr 07 10:58:40 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/2/15 13:42
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503200-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D\	**Instrument Name:**	R-MS-07
		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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/15 13:42

Sample Name: Method Blank
Lab Code: RQ1503200-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D\

Analysis Lot: 438870
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	75-120	4/2/15 13:42	
Dibromofluoromethane	110	85-115	4/2/15 13:42	
Toluene-d8	111	85-120	4/2/15 13:42	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/2/15 1342

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

Sample Name: Method Blank
Lab Code: RQ1503200-04

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D Vial: 7
Acq On : 2 Apr 2015 1:42 pm Operator: K.Ruest
Sample : VBLK RQ1503163-04 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 17:17 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.79	168	965706	50.00	ppb	0.04
42) 1,4 - Difluorobenzene	10.98	114	1488215	50.00	ppb	0.05
64) d5 - Chlorobenzene	16.08	117	1312899	50.00	ppb	0.06
90) d4 - Dichlorobenzene	20.68	152	648030	50.00	ppb	0.06
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	527121	55.02	ppb	0.04
Spiked Amount 50.000	Range 89 - 119		Recovery = 110.04%			
48) surr1,1,2-Diclethane	10.39	65	571744	59.20	ppb	0.05
Spiked Amount 50.000	Range 80 - 120		Recovery = 118.40%			
70) surr3,Toluene-d8	13.45	98	1584254	55.58	ppb	0.06
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.16%			
71) surr2,bfb	18.32	95	692917	55.90	ppb	0.05
Spiked Amount 50.000	Range 85 - 122		Recovery = 111.80%			
Target Compounds						Qvalue
117) Hexachlorobt	24.78	225	1803	0.43	ppb	95
119) 1,2,3-Tclbenzene	25.51	180	1828m	0.21	ppb	
120) 2,4,5-Trichlorotoluene	27.38	159	3488	0.61	ppb	95
121) 2,3,6-Trichlorotoluene	27.38	159	3488	0.73	ppb	92

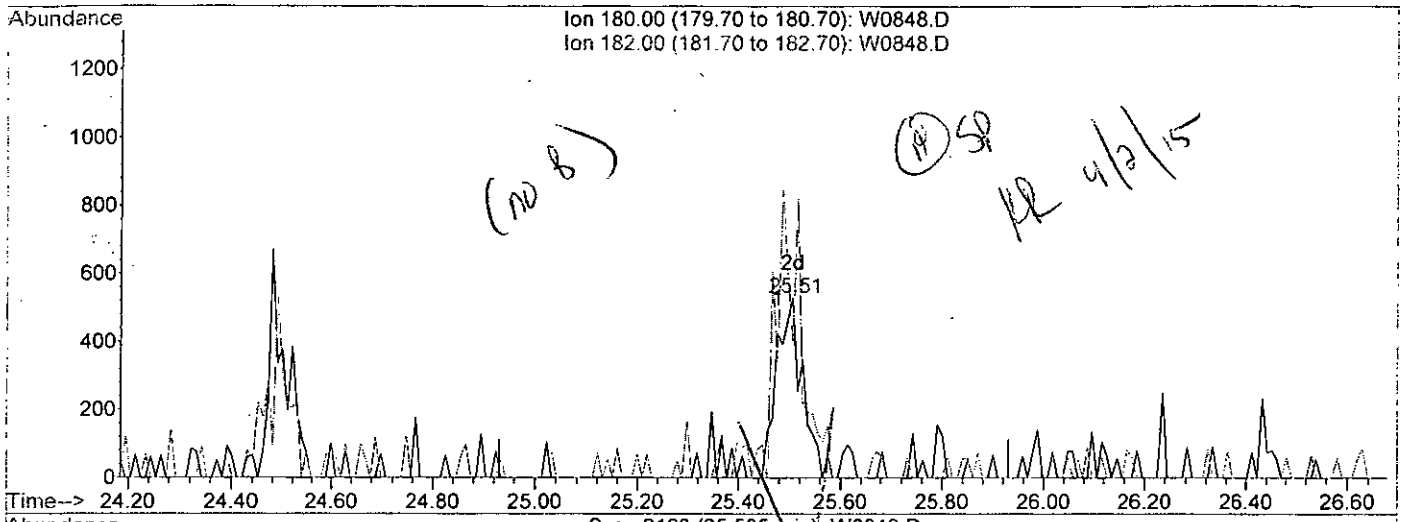
KR 4/2/15

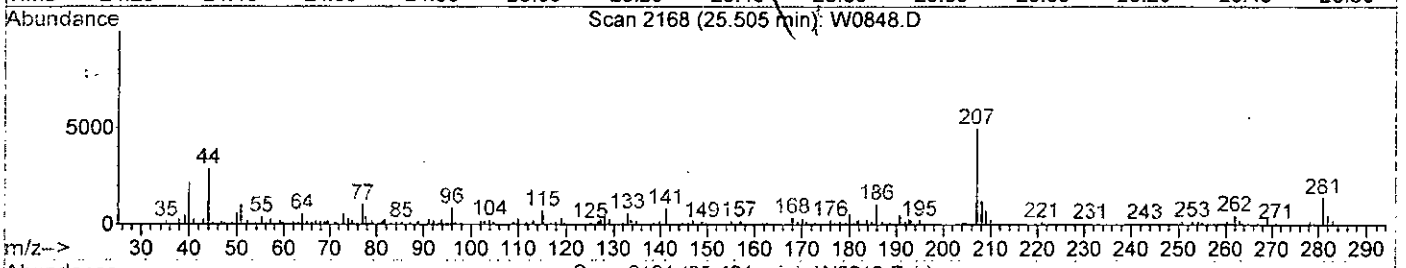
(#) = qualifier out of range (m) = manual integration
W0848.D W032315.M Thu Apr 02 17:18:06 2015

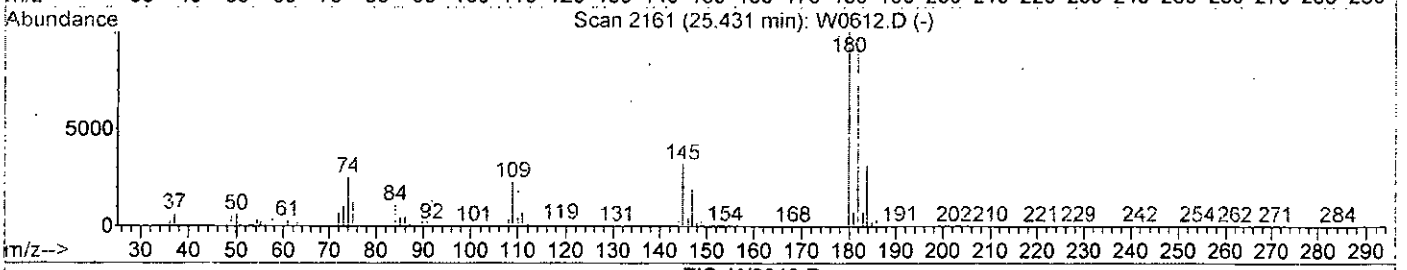
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D Vial: 7
Acq On : 2 Apr 2015 1:42 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 17:17 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0848.D

(119) 1,2,3-Tclbenzene

25.51min 0.21ppb m

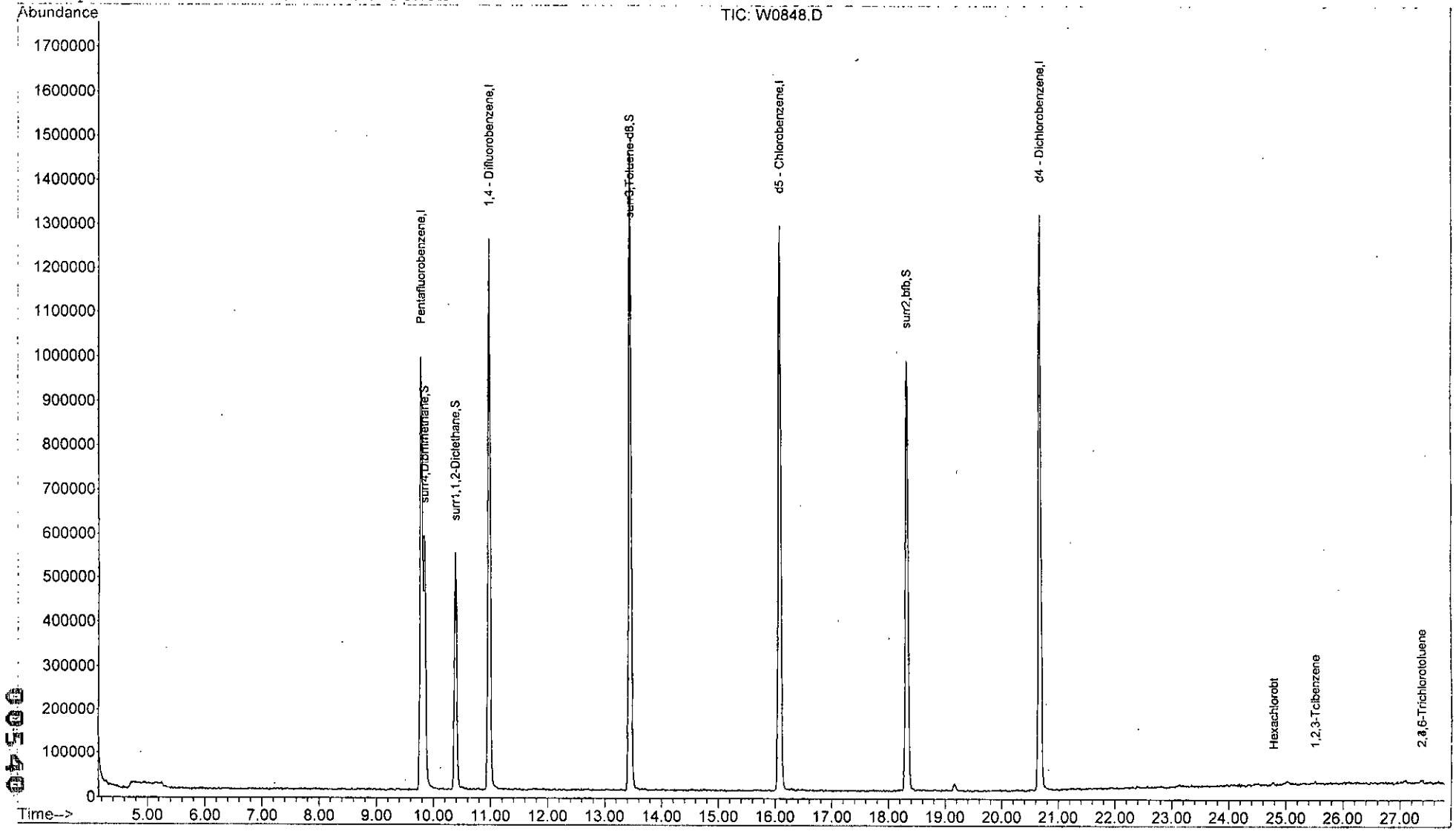
response 1828

Ion	Exp%	Act%
180.00	100	100
182.00	96.40	40.64#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D Vial: 7
Acq On : 2 Apr 2015 1:42 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 17:17 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0848.D W032315.M Thu Apr 02 17:18:08 2015

LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D Vial: 7
Acq On : 2 Apr 2015 1:42 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

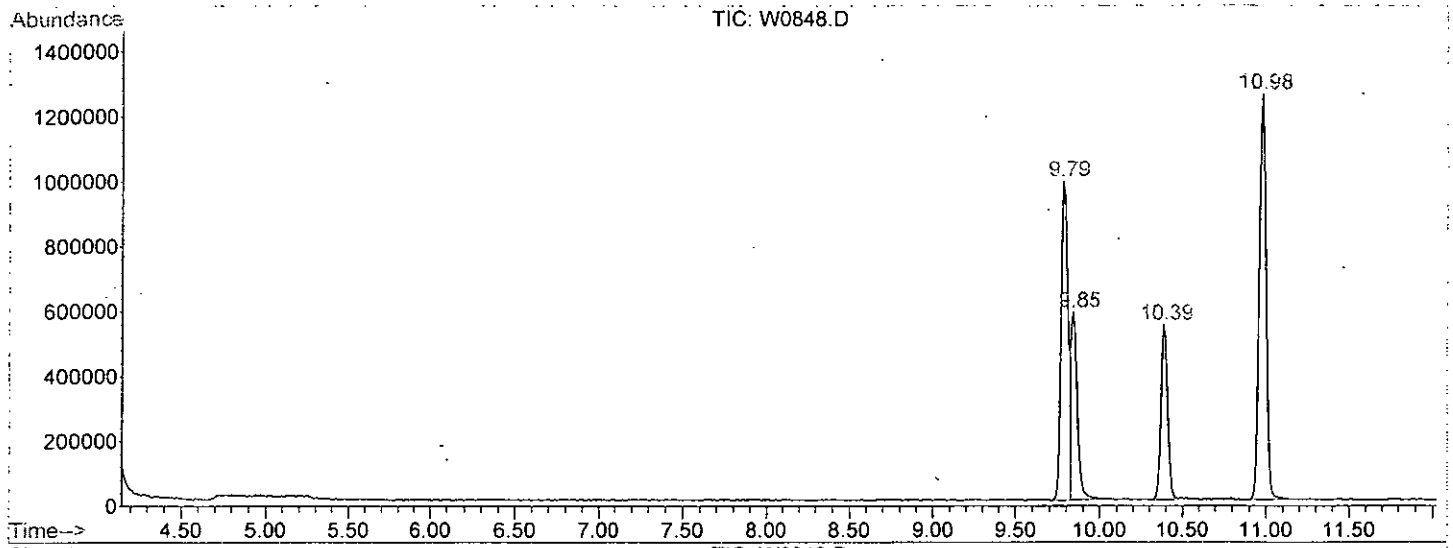
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.786	565	573	577	rBV	983448	2969033	67.09%	11.775%
2	9.845	577	579	595	rVB2	577144	1433931	32.40%	5.687%
3	10.387	626	634	643	rBV	539056	1570828	35.49%	6.230%
4	10.979	687	694	712	rBV	1248044	3528877	79.74%	13.995%
5	13.443	935	944	954	rBV	1445251	4425660	100.00%	17.551%
6	16.084	1200	1212	1223	rBV	1281638	4062137	91.79%	16.110%
7	18.321	1431	1439	1449	rBV	974184	3196885	72.24%	12.678%
8	19.168	1519	1525	1531	rBV6	15911	56515	1.28%	0.224%
9	20.676	1668	1678	1686	rBV	1306583	3971426	89.74%	15.750%

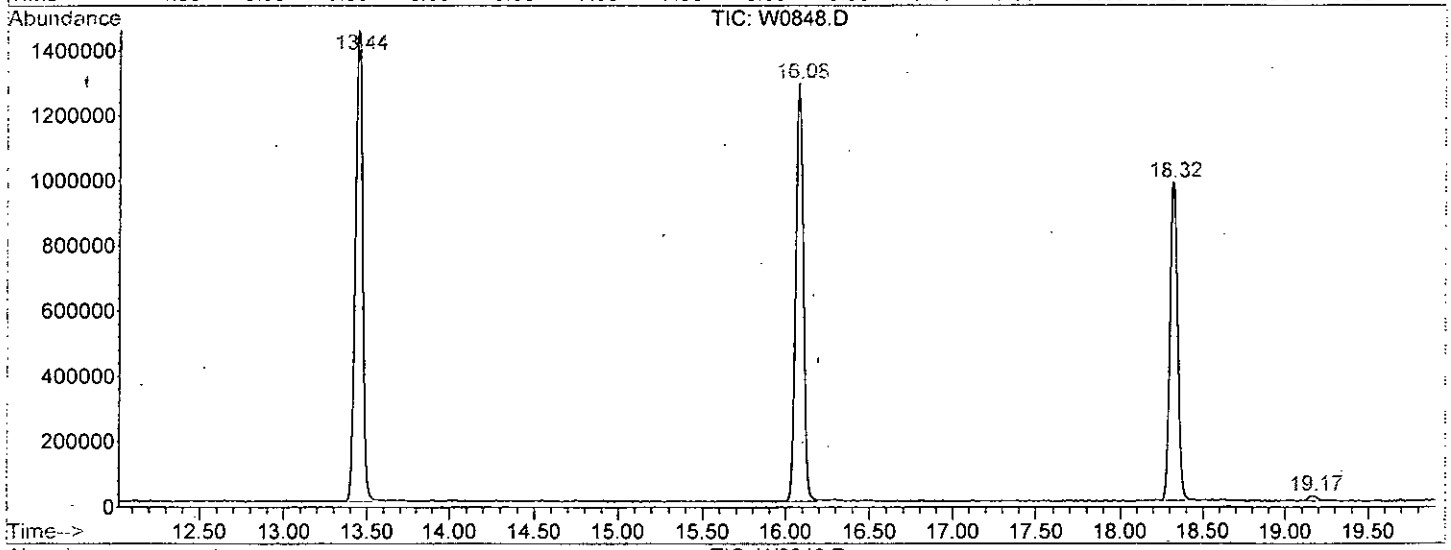
Sum of corrected areas: 25215292

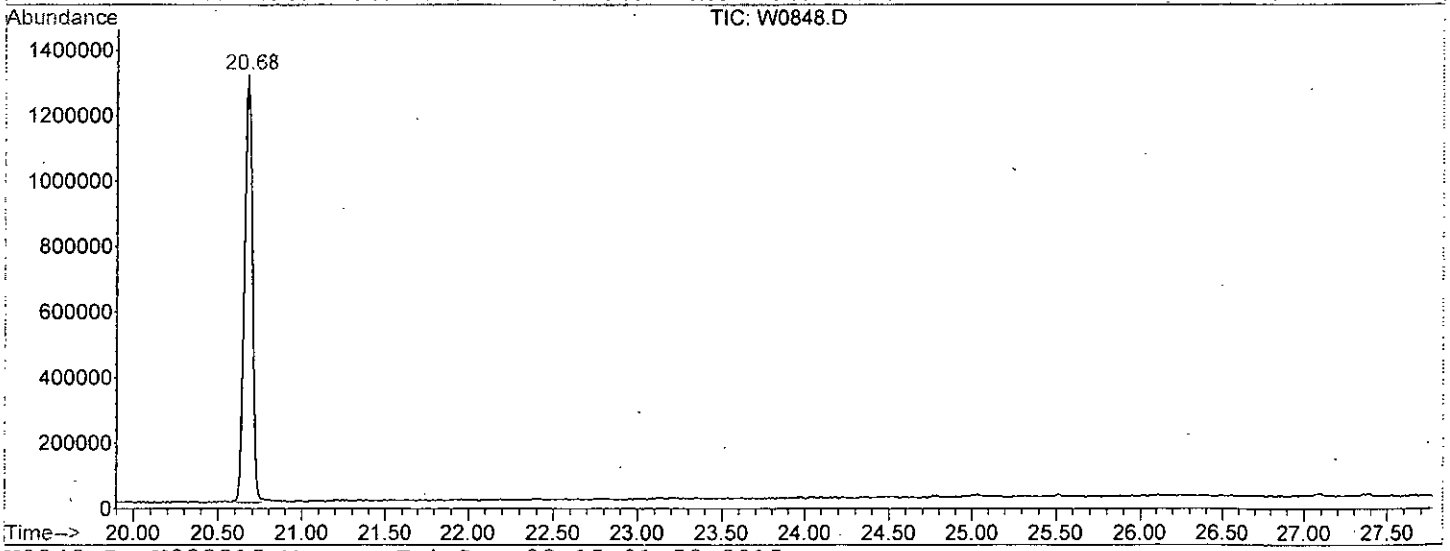
W0848.D W032315.M Fri Apr 03 15:01:48 2015

LSC Report - Integrated Chromatogram


```
File        : I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D
Operator    : K.Ruest
Acquired    :  2 Apr 2015   1:42 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: VBLK
Misc Info   :
Vial Number: 7
Quant File :W032315.RES (RTE Integrator)
```







W0848.D W032315.M Fri Apr 03 15:01:50 2015

Operator ID: K.Ruest Date Acquired: 2 Apr 2015 1:42 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040215\W0848.D
Name: VBLK
Misc:
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
W0848.D W032315.M	Fri Apr 03 15:01:50 2015							

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/3/15 12:20
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503202-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D\	**Instrument Name:**	R-MS-07
		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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/3/15 12:20
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503202-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 12:20	
Dibromofluoromethane	109	85-115	4/3/15 12:20	
Toluene-d8	111	85-120	4/3/15 12:20	

Analytical Report

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/3/15 1220

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

Sample Name: Method Blank
Lab Code: RQ1503202-04

Units: µg/L
Basis: NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA\DATA\040315\W0886.D Vial: 6
Acq On : 3 Apr 2015 12:20 pm Operator: K.Ruest
Sample : VBLK PQ1503202-04 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:02 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	978504	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.98	114	1508280	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.08	117	1364838	50.00	ppb	0.07
90) d4 - Dichlorobenzene	20.68	152	673306	50.00	ppb	0.07
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	528113	54.39	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.78%			
48) surr1,1,2-Diclethane	10.39	65	556965	56.90	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 113.80%			
70) surr3,Toluene-d8	13.45	98	1643411	55.46	ppb	0.06
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.92%			
71) surr2,bfb	18.33	95	704195	54.65	ppb	0.07
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.30%			
Target Compounds						Qvalue
117) Hexachlorobt	24.79	225	1679	0.39	ppb	76
119) 1,2,3-Tclbenzene	25.51	180	2106m	0.23	ppb	

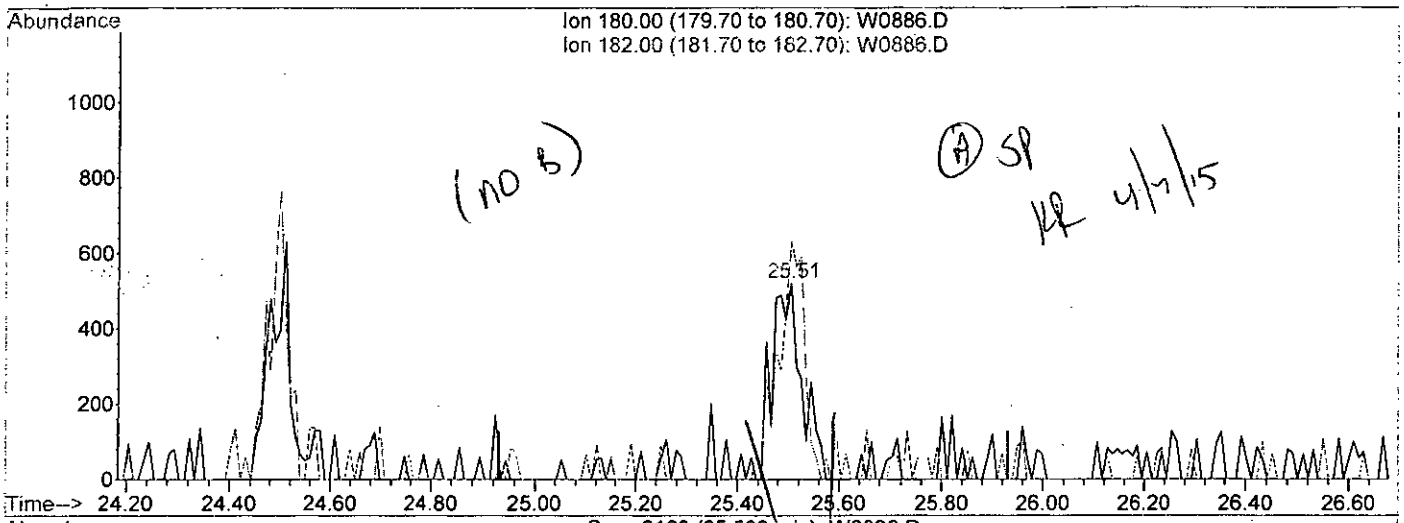
KR 4/7/15

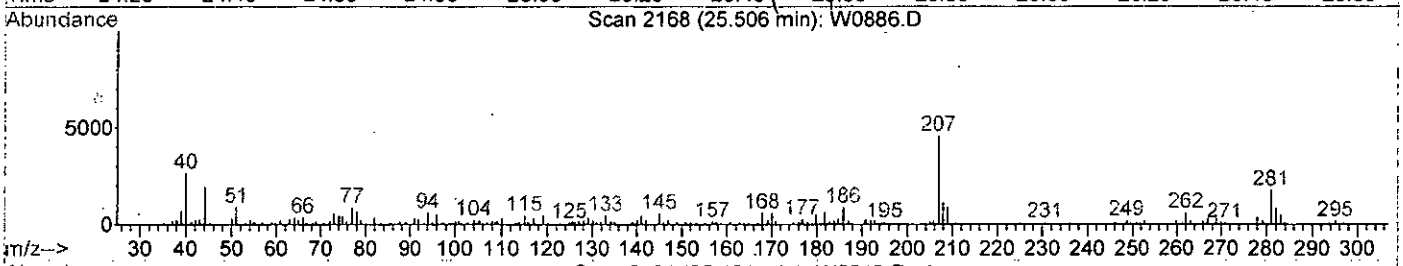
(#) = qualifier out of range (m) = manual integration
W0886.D W032315.M Tue Apr 07 17:02:54 2015

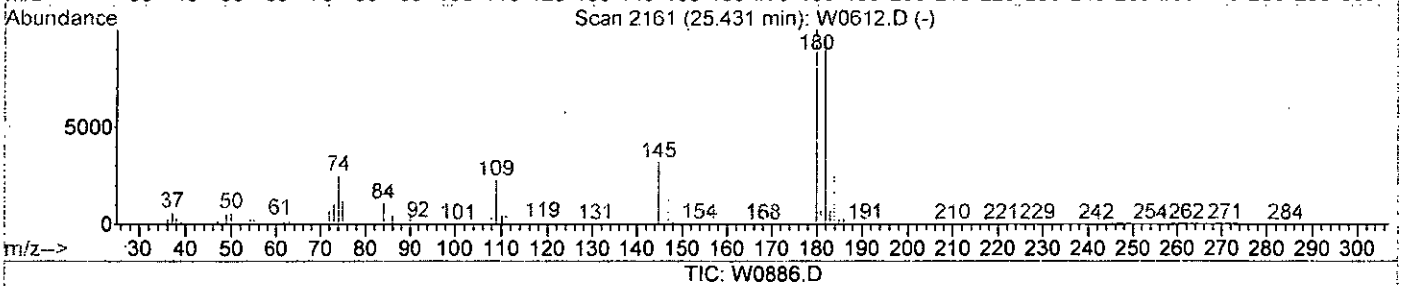
Quantitation Report (Qedit)

Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D Vial: 6
Acq On : 3 Apr 2015 12:20 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:02 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0886.D

(119) 1,2,3-Tclbenzene

25.51min 0.23ppb m

response 2106

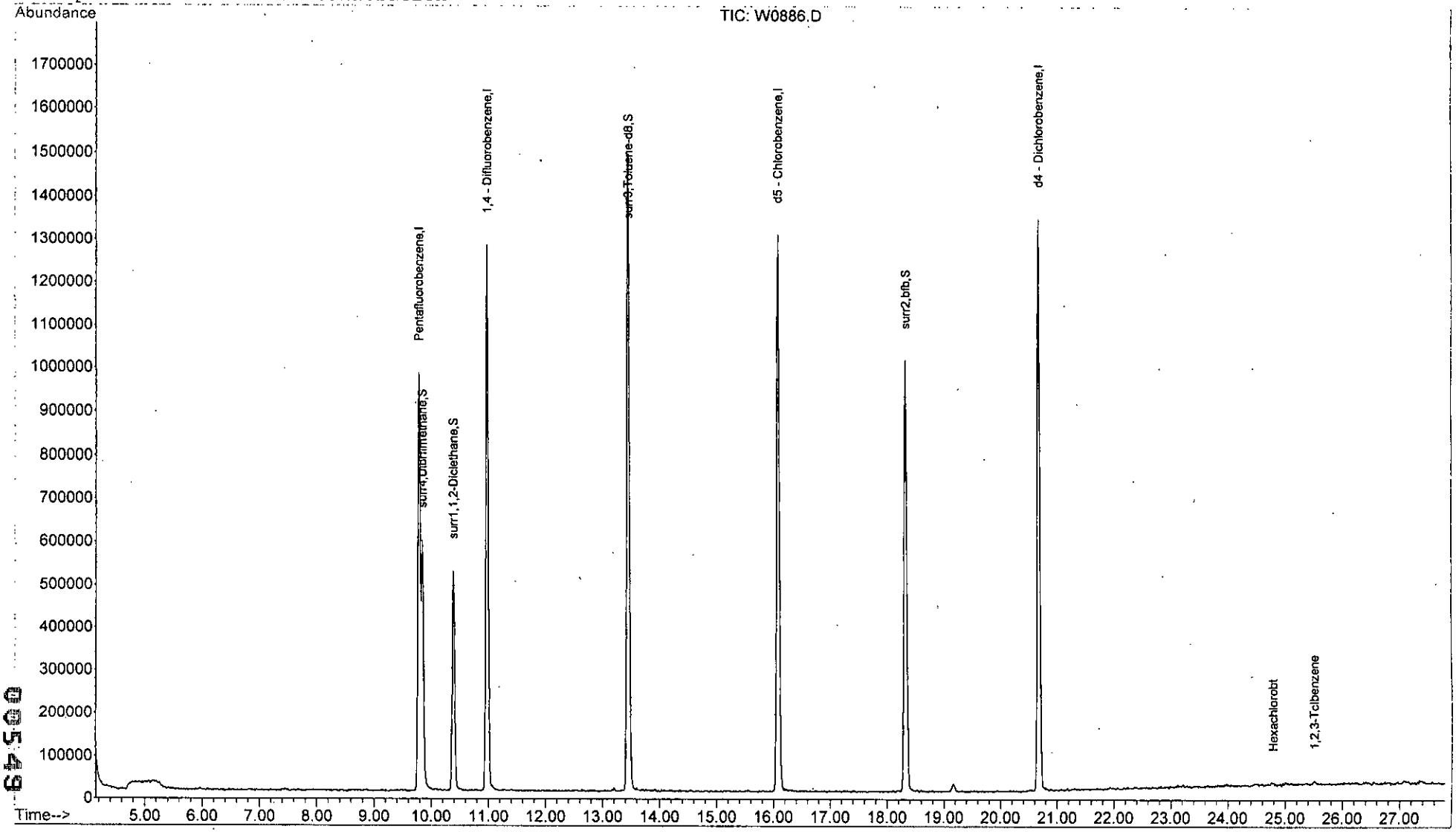
Ion	Exp%	Act%
180.00	100	100
182.00	96.40	120.92#
0.00	0.00	0.00
0.00	0.00	0.00

m 4/7

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D Vial: 6
Acq On : 3 Apr 2015 12:20 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:02 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0886.D W032315.M Tue Apr 07 17:02:56 2015 Page 2

LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D Vial: 6
Acq On : 3 Apr 2015 12:20 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

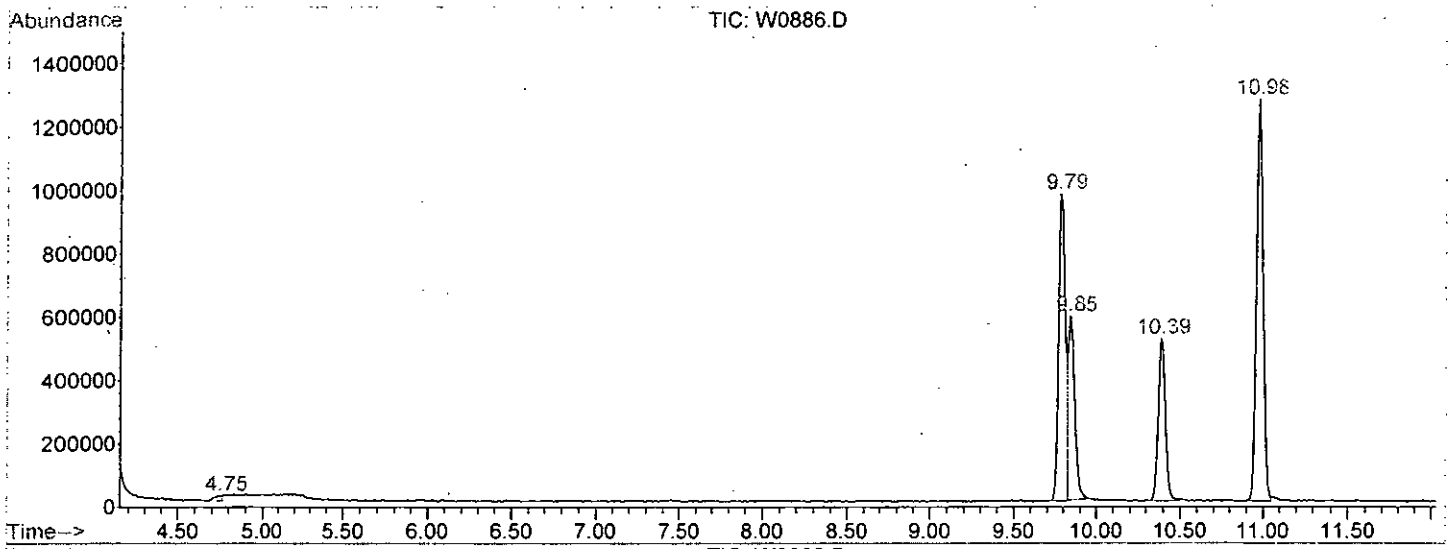
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.751	54	62	63	rBV7	15975	55337	1.22%	0.218%
2	9.787	566	573	577	rBV	969164	2904124	64.27%	11.451%
3	9.846	577	579	591	rVB2	579334	1418164	31.39%	5.592%
4	10.388	627	634	645	rBV	512048	1521234	33.67%	5.998%
5	10.979	685	694	701	rBV	1268695	3507255	77.62%	13.829%
6	13.453	937	945	956	rBV	1480430	4518282	100.00%	17.816%
7	16.084	1201	1212	1222	rBV	1295352	4086121	90.44%	16.112%
8	18.331	1431	1440	1451	rBV	1002018	3258354	72.11%	12.848%
9	19.169	1519	1525	1531	rBV6	17050	62102	1.37%	0.245%
10	20.677	1669	1678	1686	rBV	1329180	4029810	89.19%	15.890%

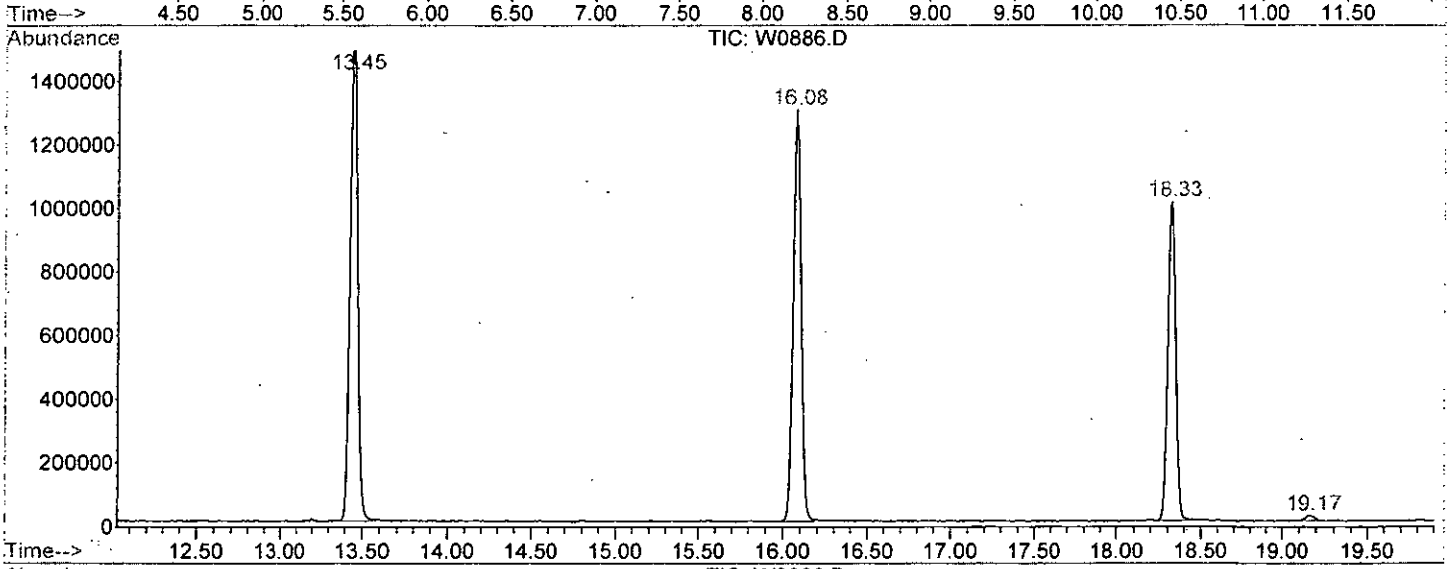
Sum of corrected areas: 25360783

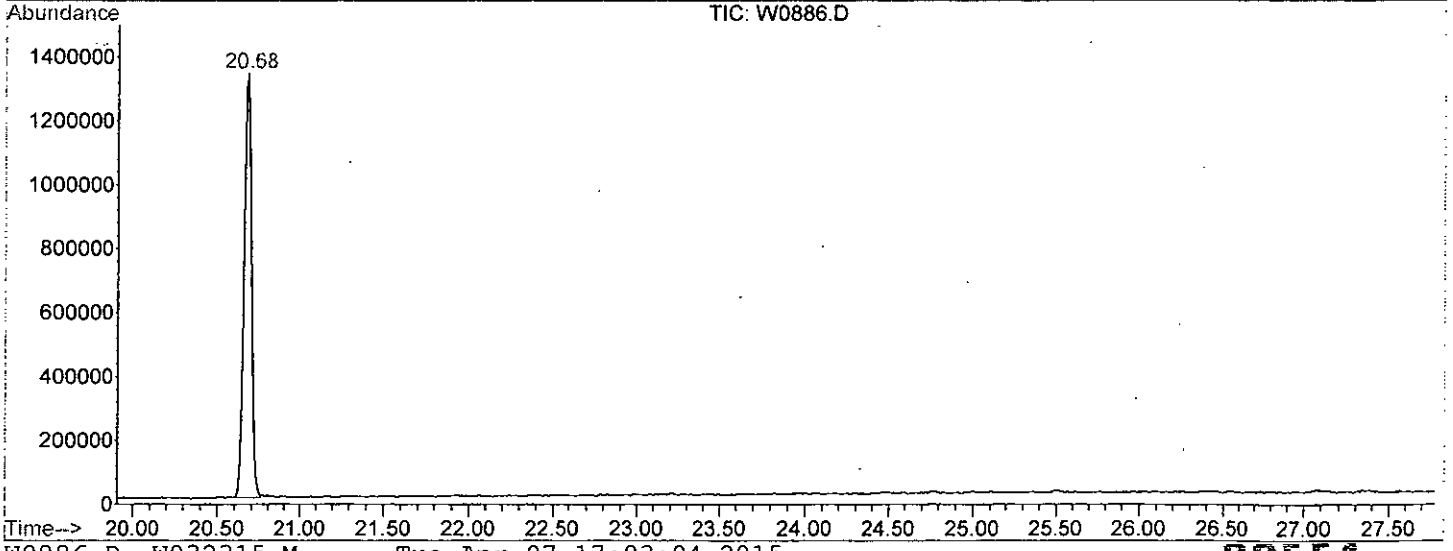
W0886.D W032315.M Tue Apr 07 17:03:02 2015

LSC Report - Integrated Chromatogram


```
File       : I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D
Operator   : K.Ruest
Acquired   :  3 Apr 2015  12:20 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: VBLK
Misc Info  :
Vial Number: 6
Quant File :W032315.RES (RTE Integrator)
```







W0886.D W032315.M Tue Apr 07 17:03:04 2015 00551

Tentatively Identified Compound (LSC) summary

Operator ID: K.Ruest Date Acquired: 3 Apr 2015 12:20 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0886.D
Name: VBLK
Misc:
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0886.D W032315.M Tue Apr 07 17:03:04 2015

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/15 12:53

Sample Name: Method Blank
Lab Code: RQ1503305-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
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	
56-23-5	Carbon Tetrachloride	ND	U	5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/15 12:53

Sample Name: Method Blank
Lab Code: RQ1503305-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
Dilution Factor: 1

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

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/7/15 12:53	
Dibromofluoromethane	110	85-115	4/7/15 12:53	
Toluene-d8	111	85-120	4/7/15 12:53	

Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/7/15 1253

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

Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1503305-04	**Basis:**	NA

Analytical Method: 8260C

CAS #	Analyte Name	RT	Result	Q

No Tentatively Identified Compounds Detected.

Comments:

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA_7\2015\040715\W0912.D Vial: 7
Acq On : 7 Apr 2015 12:53 pm Operator: K.Ruest
Sample : VBLK PQ1503305-04 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:29 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.74	168	958779	50.00	ppb	0.00
42) 1,4 - Difluorobenzene	10.92	114	1495910	50.00	ppb	0.00
64) d5 - Chlorobenzene	16.03	117	1299748	50.00	ppb	0.01
90) d4 - Dichlorobenzene	20.62	152	646678	50.00	ppb	0.01
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.80	113	528985	54.93	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 109.86%			
48) surr1,1,2-Diclethane	10.34	65	531737	54.77	ppb	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.54%			
70) surr3,Toluene-d8	13.40	98	1560517	55.30	ppb	0.01
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.60%			
71) surr2,bfb	18.27	95	657941	53.61	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.22%			
Target Compounds						Qvalue
117) Hexachlorobt	24.71	225	1954	0.47	ppb	94
119) 1,2,3-Tclbenzene	25.41	180	1935	0.22	ppb #	49

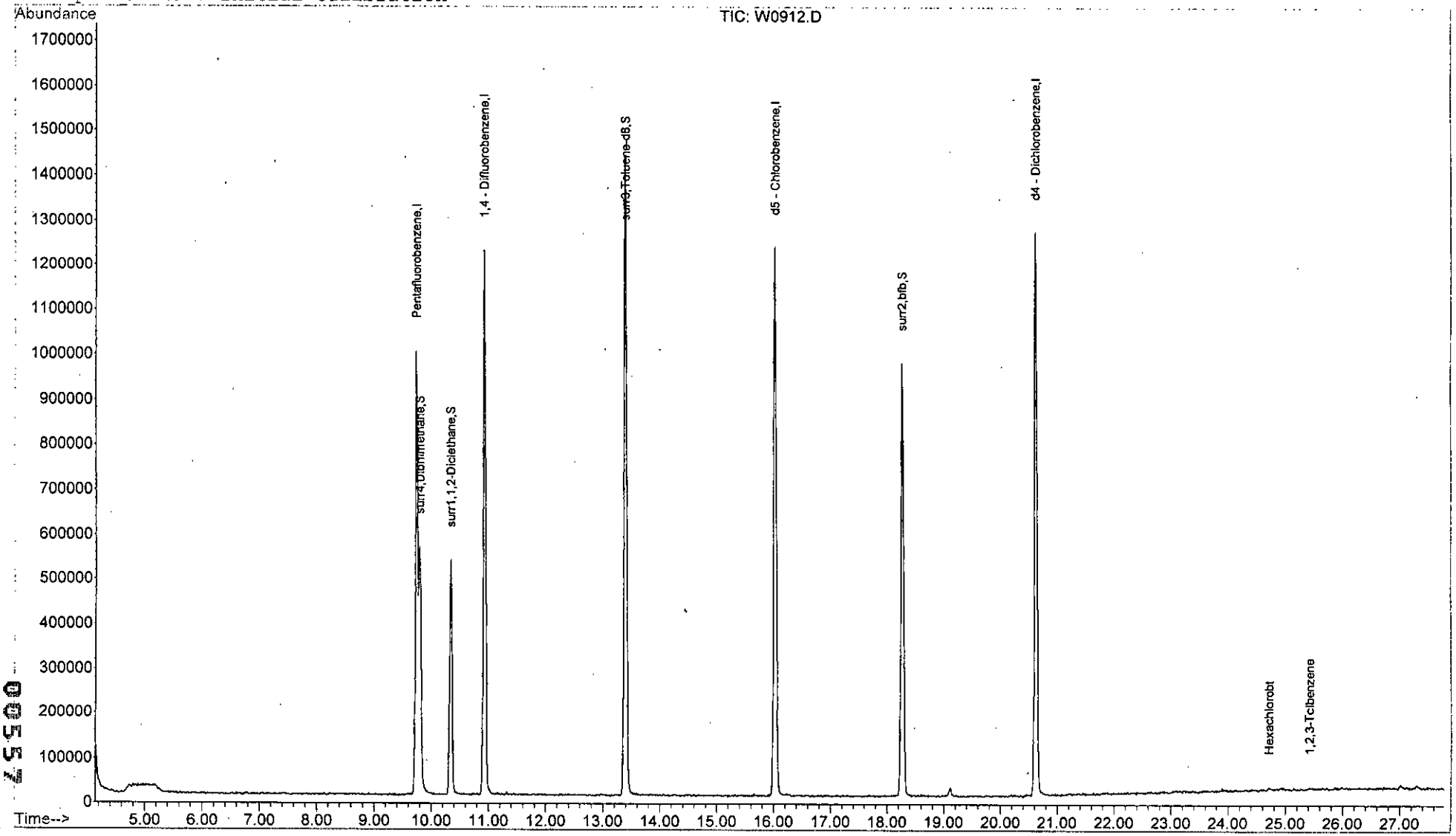
KR 4/5/15

(#) = qualifier out of range (m) = manual integration
W0912.D W032315.M Tue Apr 07 17:29:54 2015 Page 1

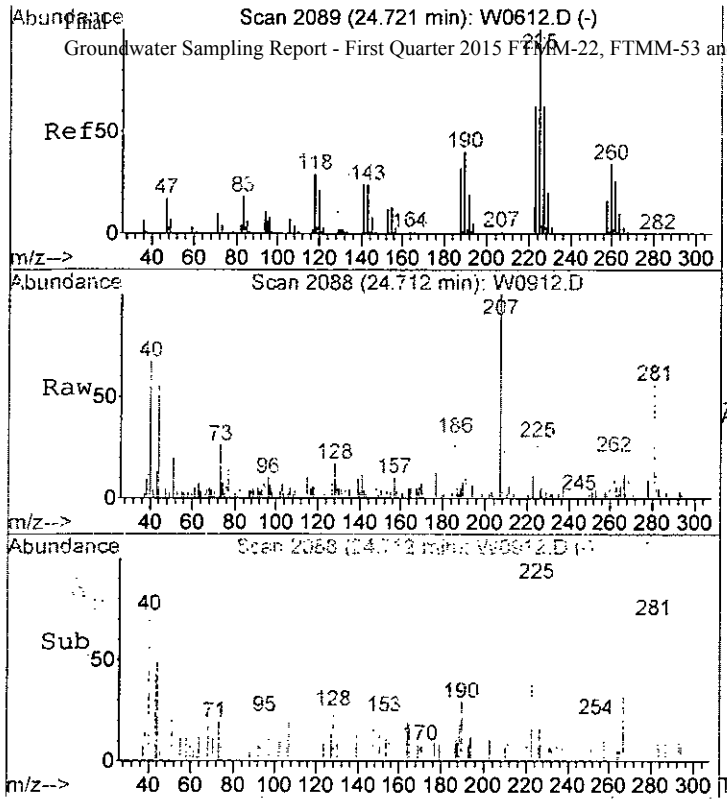
Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D Vial: 7
Acq On : 7 Apr 2015 12:53 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 17:29 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



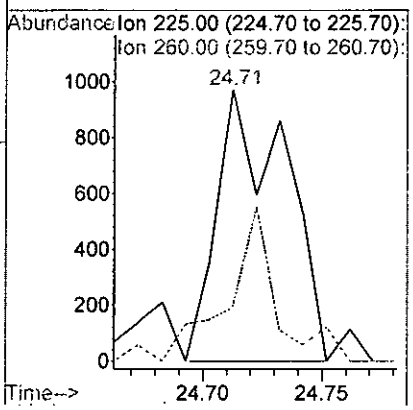
W0912.D W032315.M Tue Apr 07 17:29:56 2015

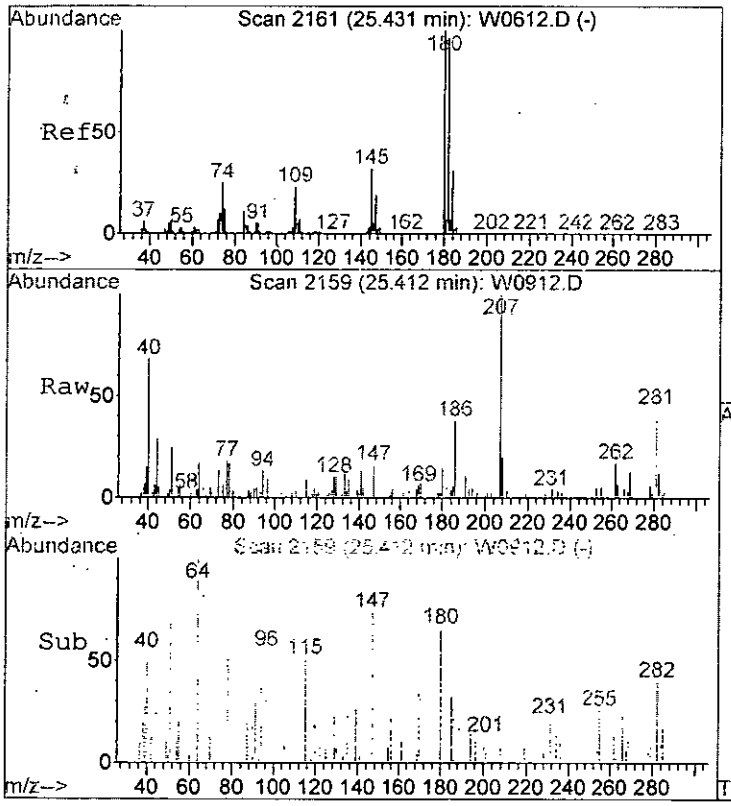


#117
1,2-Dichlorobt
Concen: 0.47 ppb
RT: 24.71 min Scan# 2088
Delta R.T. -0.01 min
Lab File: W0912.D
Acq: 7 Apr 2015 12:53 pm

Tgt Ion:225 Resp: 1954

Ion	Ratio	Lower	Upper
225	100		
260	30.2	13.7	53.7

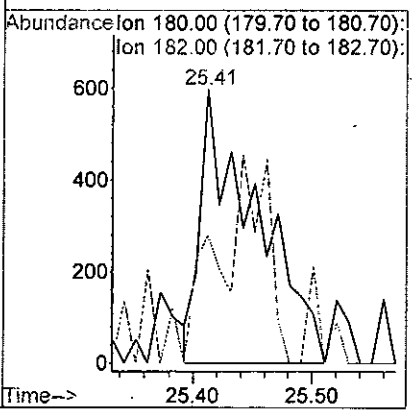




#119
1,2,3-Tclbenzene
Concen: 0.22 ppb
RT: 25.41 min Scan# 2159
Delta R.T. -0.02 min
Lab File: W0912.D
Acq: 7 Apr 2015 12:53 pm

Tgt Ion:180 Resp: 1935

Ion	Ratio	Lower	Upper
180	100		
182	46.9	76.4	116.4#



W0912.D W032315.M Tue Apr 07 17:29:59 2015 Page 3

LSC Area Percent Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D Vial: 7
Acq On : 7 Apr 2015 12:53 pm Operator: K.Ruest
Sample : VBLK Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.742	561	569	572	rBV	989190	2706966	62.21%	11.057%
2	9.801	572	575	586	rVB	550258	1568203	36.04%	6.406%
3	10.344	623	630	637	rBV	524029	1507341	34.64%	6.157%
4	10.925	681	689	703	rBV	1216561	3473531	79.83%	14.188%
5	13.399	930	940	950	rBV	1429260	4351049	100.00%	17.773%
6	16.030	1196	1207	1217	rBV	1225998	3919537	90.08%	16.010%
7	18.267	1426	1434	1447	rBV	963098	3019178	69.39%	12.332%
8	19.115	1514	1520	1528	rVB7	18538	55154	1.27%	0.225%
9	20.622	1665	1673	1682	rBV	1256828	3880860	89.19%	15.852%

Sum of corrected areas: 24481819

W0912.D W032315.M Tue Apr 07 17:30:04 2015

00559

LSC Report - Integrated Chromatogram


```
File       : I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D
Operator   : K.Ruest
Acquired   :  7 Apr 2015  12:53 pm using AcqMethod W032315
Instrument :   MS #7
Sample Name: VBLK
Misc Info  :
Vial Number: 7
Quant File :W032315.RES (RTE Integrator)
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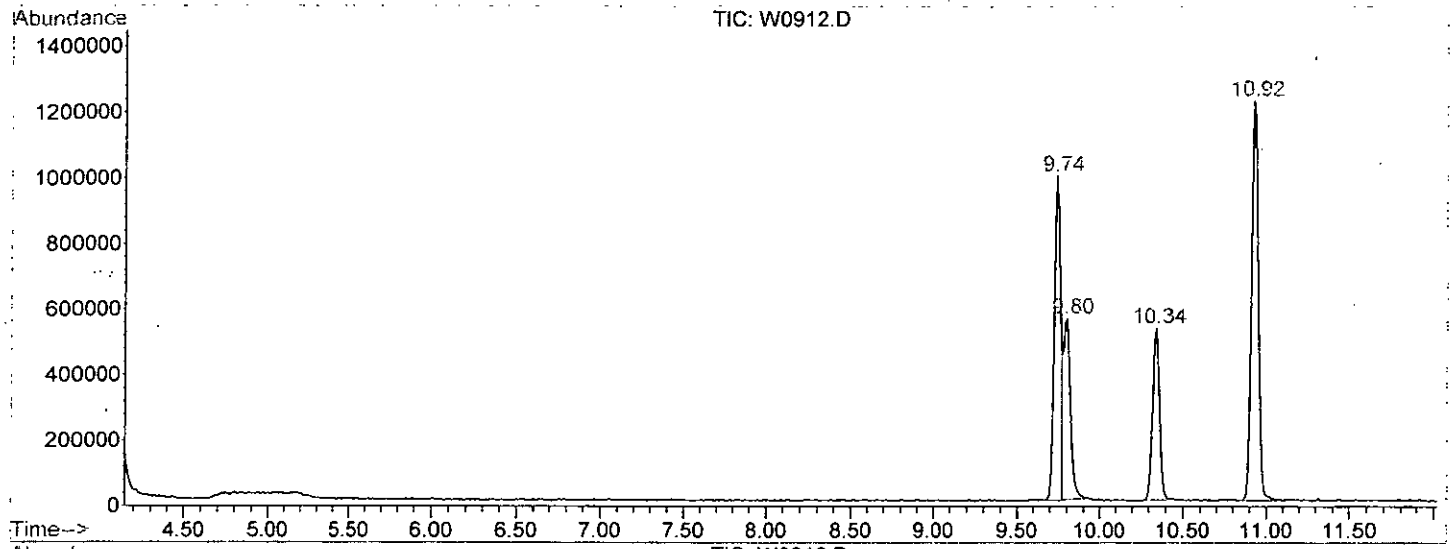
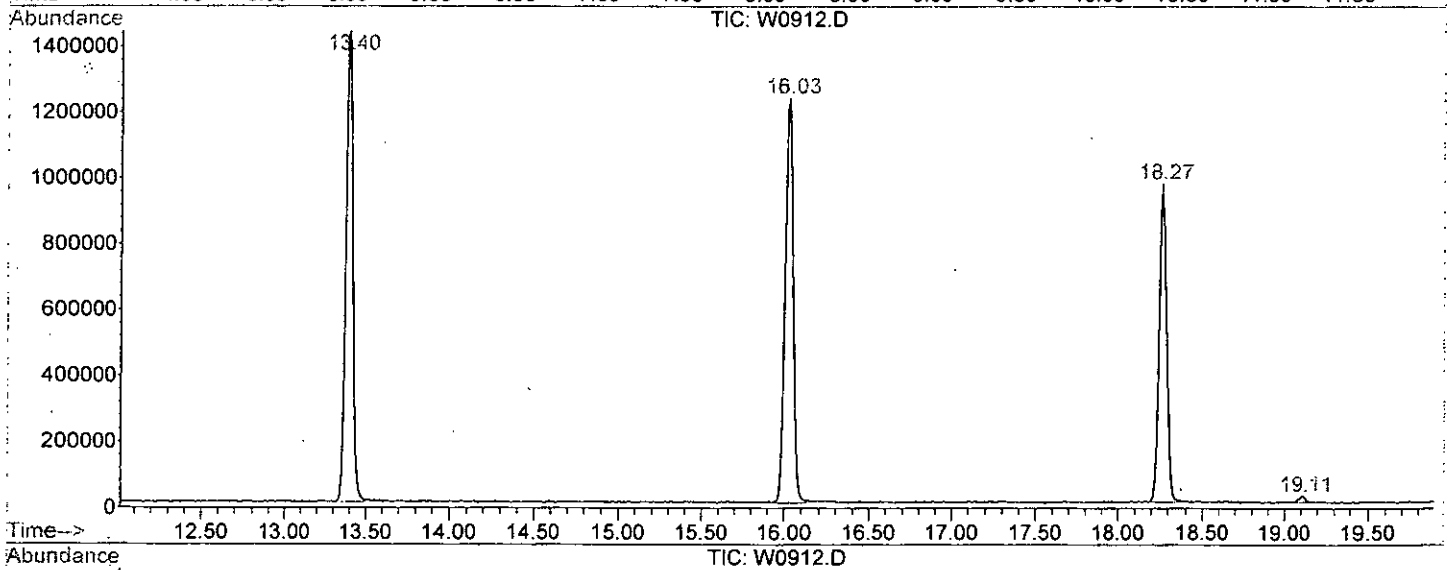
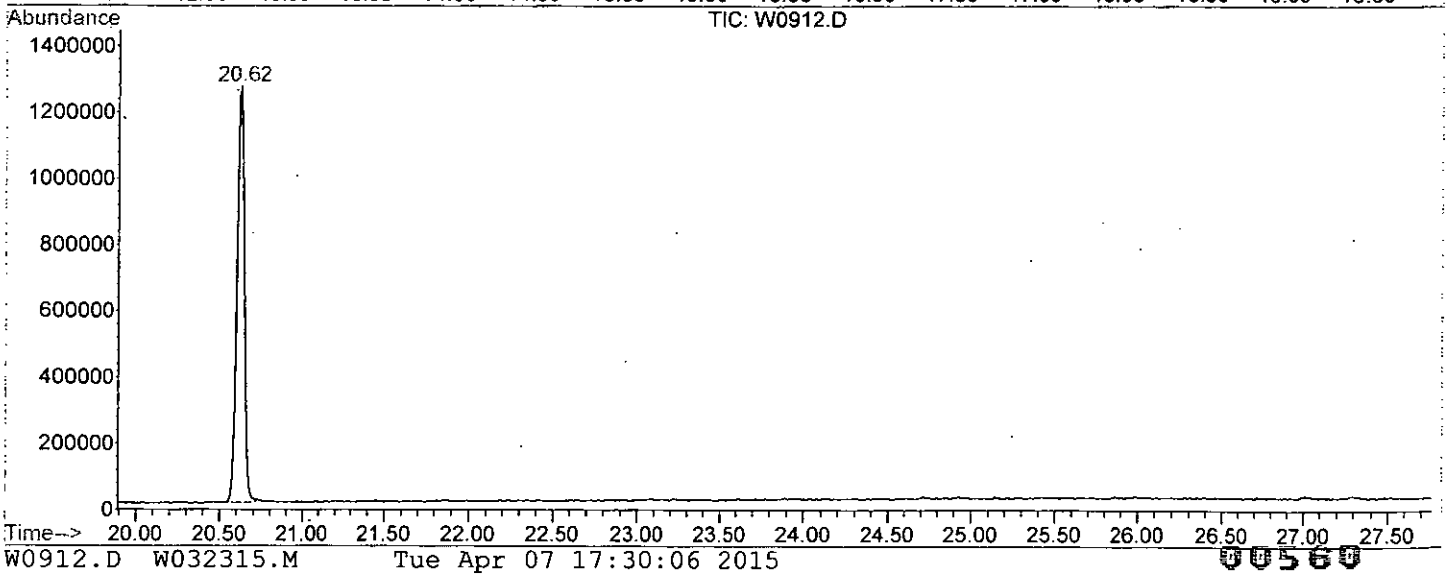






W0912.D W032315.M Tue Apr 07 17:30:06 2015

00560

Operator ID: K.Ruest Date Acquired: 7 Apr 2015 12:53 pm
Data File: I:\ACQUDATA\MSVOA7\DATA\040715\W0912.D
Name: VBLK
Misc:
Method: I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title: 8260C.WATERS
Library Searched: I:\ACQUDATA\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

W0912.D W032315.M Tue Apr 07 17:30:06 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/2/15 12:31
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1503200-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**22.7**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**22.0**		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	**20.2**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**18.7**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**17.3**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**20.0**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**22.2**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**22.1**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**22.9**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**22.1**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**22.9**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**21.3**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**21.3**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**23.5**		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	**22.2**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**20.9**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**20.5**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**20.5**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**21.7**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**19.3**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**21.6**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**22.7**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**505**		100	20	11	
106-43-4	4-Chlorotoluene	**22.1**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**22.0**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**21.7**		5.0	1.0	0.67	
67-64-1	Acetone	**20.7**		5.0	5.0	1.3	
71-43-2	Benzene	**19.2**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**21.1**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**17.6**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**22.8**		5.0	1.0	0.32	
75-25-2	Bromoform	**24.1**		5.0	1.0	0.42	
74-83-9	Bromomethane	**15.8**		5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	**22.7**		5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/2/15 12:31
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1503200-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	**20.6**		5.0	1.0	0.29	
75-00-3	Chloroethane	**15.7**		5.0	1.0	0.24	
67-66-3	Chloroform	**20.3**		5.0	1.0	0.25	
74-87-3	Chloromethane	**18.4**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**22.1**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**21.5**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**17.2**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**20.4**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**26.4**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**22.5**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**21.0**		5.0	1.0	0.29	
91-20-3	Naphthalene	**22.1**		5.0	1.0	0.20	
100-42-5	Styrene	**21.1**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**21.5**		5.0	1.0	0.30	
108-88-3	Toluene	**20.8**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**20.5**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**20.8**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**19.5**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**18.2**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**20.4**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**42.7**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**22.0**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**21.5**		5.0	1.0	0.20	
95-47-6	o-Xylene	**21.0**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**21.2**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**21.5**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**17.4**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**23.0**		5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	75-120	4/2/15 12:31	
Dibromofluoromethane	108	85-115	4/2/15 12:31	
Toluene-d8	110	85-120	4/2/15 12:31	

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MS07\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : R1503163-03 Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:25 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.79	168	979115	50.00	ppb	0.05
42) 1,4 - Difluorobenzene	10.98	114	1485324	50.00	ppb	0.06
64) d5 - Chlorobenzene	16.07	117	1336612	50.00	ppb	0.06
90) d4 - Dichlorobenzene	20.67	152	661305	50.00	ppb	0.06
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.85	113	516211	53.98	ppb	0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.96%			
48) surr1,1,2-Diclethane	10.39	65	580651	60.24	ppb	0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 120.48%#			
70) surr3,Toluene-d8	13.44	98	1601852	55.20	ppb	0.06
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.40%			
71) surr2,bfb	18.32	95	691477	54.79	ppb	0.06
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.43	85	267659	21.54	ppb	99
3) Chloromethane	4.78	50	245148	18.41	ppb	98
4) Vinyl Chloride	4.97	62	233555	19.48	ppb	98
5) Bromomethane	5.56	96	138732	15.81	ppb	93
6) Chloroethane	5.70	64	142669	15.69	ppb	85
7) FREON 21	5.93	67	439126	19.67	ppb	98
8) Trichlorofluoromethane	6.10	101	300869	20.81	ppb	98
9) Diethyl Ether	6.45	59	162972	18.72	ppb	96
10) FREON 123A	6.39	67	256084m	19.67	ppb	
11) FREON 123	6.46	83	240386m	17.56	ppb	
12) Acrolein	6.63	56	50482	32.31	ppb	98
13) FREON 113	6.79	101	185771	18.69	ppb	97
14) 1,1-Diclethene	6.85	96	151958	17.30	ppb	98
15) Acetone	6.82	43	75913	20.67	ppb	96
16) 2-Propanol	6.90	45	235111	470.89	ppb	98
17) Iodomethane	7.11	142	248994	15.32	ppb	87
18) Carbon Disulfide	7.26	76	635567	15.70	ppb	100
19) Acetonitrile	7.18	41	102315	109.06	ppb	94
20) Allyl Chloride	7.30	41	316618	16.82	ppb	92
21) Methyl Acetate	7.24	43	120203	17.44	ppb	86
22) Methylene Chloride	7.45	84	192925	17.16	ppb	98
23) TBA	7.43	59	370691	504.68	ppb	97
24) Acrylonitrile	7.73	53	275520	87.99	ppb	98
25) Methyl-t-Butyl Ether	7.81	73	560263	20.98	ppb	99
26) trans-1,2-Dichloroethene	7.86	96	181381	17.38	ppb	92
28) 1,1-Diclethane	8.42	63	346213	18.67	ppb	96
29) Vinyl Acetate	8.35	86	30848	20.94	ppb #	56
30) DIPE	8.40	45	675542	15.60	ppb	92
31) 2-Chloro-1,3-butadiene	8.55	53	328923	16.03	ppb	93
32) ETBE	8.90	59	602374	16.76	ppb	99
33) 2,2-Dichloropropane	9.24	77	314242	21.67	ppb	94
34) 2-Butanone	9.14	43	92453	19.31	ppb	89
35) cis-1,2-Dichloroethene	9.21	96	203545	18.20	ppb	90
36) Propionitrile	9.22	54	109440	99.98	ppb	94
37) Methacrylonitrile	9.46	67	61012	16.63	ppb	89

(#) = qualifier out of range (m) = manual integration
W0846.D W032315.M Thu Apr 02 13:26:24 2015

4/2/15

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:25 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.56	128	99856	17.55	ppb		98
39)	Chloroform	9.61	83	369112	20.28	ppb		95
40)	Tetrahydrofuran	9.64	42	47497	18.46	ppb		92
41)	1,1,1-Trichloroethane	9.99	97	321621	21.99	ppb		98
43)	Cyclohexane	10.13	56	332758	18.47	ppb		96
45)	Carbontetrachloride	10.26	117	264977	22.65	ppb		93
46)	1,1-Dichloropropene	10.21	75	267108	19.99	ppb		99
47)	Iso-Butyl Alcohol	10.04	43	168561	497.24	ppb		93
49)	Benzene	10.55	78	738370	19.17	ppb		95
50)	1,2-Dichloroethane	10.50	62	286958	23.50	ppb		96
51)	TAME	10.58	73	500719	19.10	ppb		96
52)	N-Heptane	10.79	43	280202	20.35	ppb		98
53)	1-Butanol	11.02	56	247524	1384.34	ppb		96
54)	Trichloroethene	11.47	95	200858	20.49	ppb		97
55)	Methylcyclohexane	11.86	55	264906	18.67	ppb		97
56)	1,2-Diclpropane	11.83	63	204324	19.10	ppb		95
57)	Methyl Methacrylate	11.82	100	45519	20.71	ppb		93
58)	1,4-Dioxane	11.97	88	29281	448.40	ppb		89
59)	Dibromomethane	12.02	93	115617	21.09	ppb		97
60)	Bromodichloromethane	12.20	83	294240	22.78	ppb		95
61)	2-Nitropropane	12.51	43	110221	54.83	ppb		98
62)	2-Chloroethylvinyl Ether	12.58	63	78846	13.82	ppb		100
63)	cis-1,3-Dichloropropene	12.92	75	329350	20.41	ppb		97
65)	4-Methyl-2-Pentanone	13.09	43	177042	21.71	ppb		98
66)	Toluene	13.56	91	748788	20.76	ppb		99
67)	trans-1,3-Dichloropropene	13.82	75	297232	23.00	ppb		99
68)	Ethyl Methacrylate	13.86	69	227606	21.79	ppb		96
69)	1,1,2-Trichloroethane	14.17	83	135881	20.19	ppb		89
72)	Tetrachloroethene	14.58	166	213007	21.48	ppb		100
73)	2-Hexanone	14.52	43	123320	22.70	ppb		97
74)	1,3-Dichloropropane	14.51	76	289423	20.53	ppb		93
75)	Butyl Acetate	14.67	43	293323	21.73	ppb		98
76)	Dibromochloromethane	14.96	129	209787	22.11	ppb		99
77)	1,2-Dibromoethane	15.25	107	161242	21.29	ppb		96
78)	Chlorobenzene	16.13	112	490255	20.56	ppb		94
79)	3-CBTF	15.90	180	266211	19.79	ppb		95
80)	4-CBTF	16.00	180	234931	19.32	ppb		96
81)	1,1,1,2-Tetrachloroethane	16.24	131	200596	22.67	ppb		94
82)	Ethylbenzene	16.28	91	820130	20.35	ppb		94
83)	(m+p)Xylene	16.48	106	637962	42.71	ppb		93
84)	o-Xylene	17.28	106	311107	21.02	ppb	#	84
85)	Styrene	17.29	104	542649	21.11	ppb		89
86)	Bromoform	17.71	173	124788	24.11	ppb		99
87)	2-CBTF	17.70	180	245494	19.14	ppb		94
88)	Isopropylbenzene	17.98	105	836547	22.45	ppb		98
89)	Cyclohexanone	18.20	55	476426	538.52	ppb		96
91)	1,1,2,2-Tetrachloroethane	18.48	83	173961	20.08	ppb		98
92)	Trans-1,4-Dichloro-2-buten	18.59	53	38401	18.07	ppb		92
93)	1,2,3-Trichloropropane	18.64	110	59801	22.06	ppb		86
94)	n-Propylbenzene	18.79	91	988571	21.50	ppb		98

(#) = qualifier out of range (m) = manual integration
W0846.D W032315.M Thu Apr 02 13:26:25 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA_7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:25 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

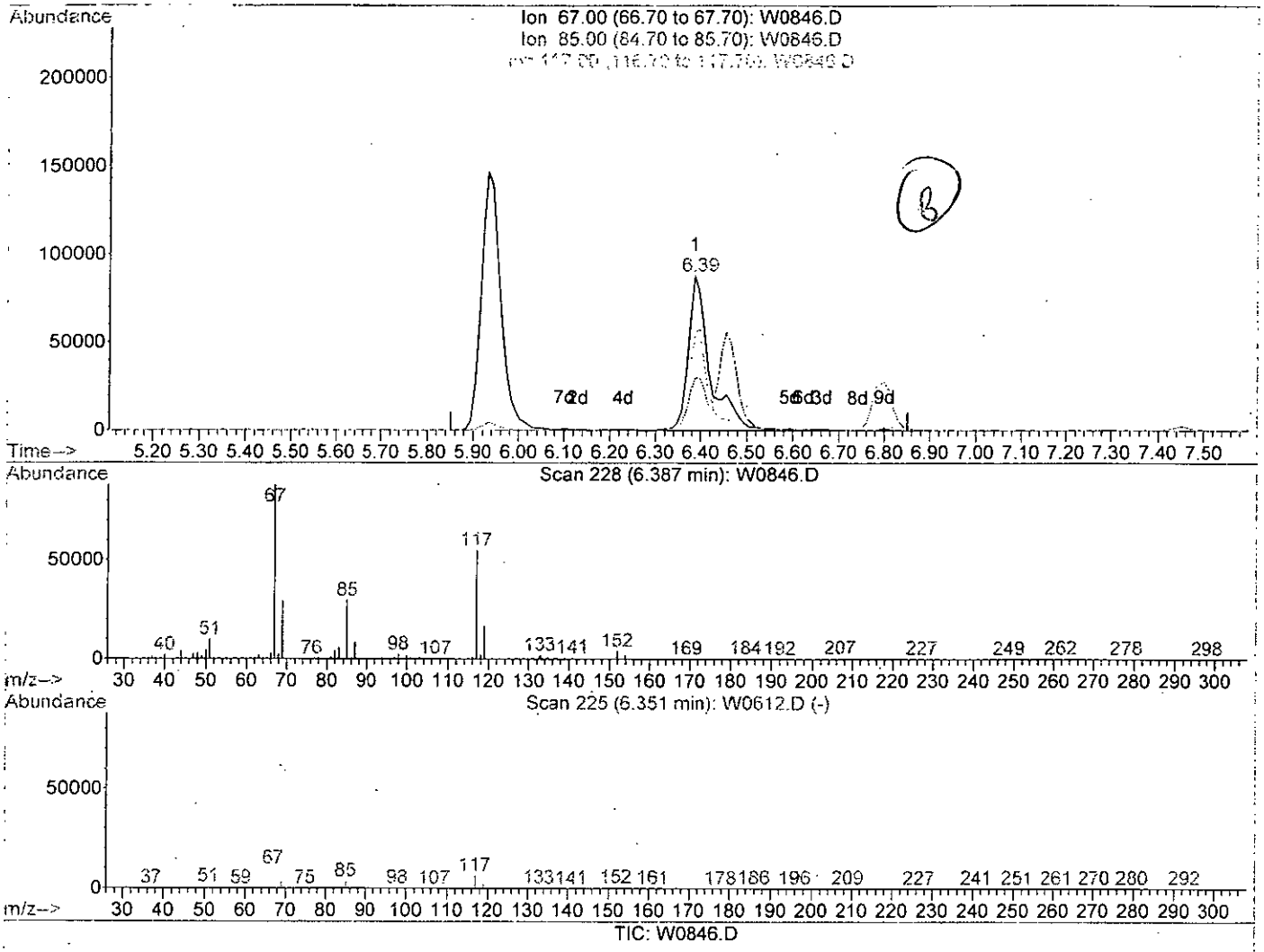
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Bromobenzene	18.71	156	212026	21.09	ppb	97
96)	1,3,5-Trimethylbenzene	19.12	105	663068	22.19	ppb	92
97)	2-Chlorotoluene	19.05	91	628986	21.58	ppb	95
98)	3-Chlorotoluene	19.16	91	594947m	20.45	ppb	
99)	4-Chlorotoluene	19.25	91	651346	22.09	ppb	97
100)	tert-Butylbenzene	19.83	119	565368	21.52	ppb	96
101)	1,2,4-Trimethylbenzene	19.91	105	673015	22.11	ppb	94
102)	3,4-DCBTF	19.96	214	195183	20.57	ppb	98
103)	sec-Butylbenzene	20.27	105	790222	21.22	ppb	99
104)	p-Isopropyltoluene	20.51	119	683641	22.04	ppb	96
105)	1,3-Dclbenz	20.56	146	387390	20.92	ppb	96
106)	1,4-Dclbenz	20.72	146	381096	20.49	ppb	98
107)	2,4-DCBTF	20.69	214	168142	20.79	ppb	97
108)	2,5-DCBTF	20.78	214	196682	20.91	ppb	99
109)	n-Butylbenzene	21.27	91	637995	22.00	ppb	99
110)	1,2-Dclbenz	21.42	146	374496	21.27	ppb	99
111)	1,2-Dibromo-3-chloropropan	22.85	157	41661	22.91	ppb	84
112)	Trielution Dichlorotoluene	23.13	125	867652	60.17	ppb	97
114)	1,3,5 Trichlorobenzene	23.28	180	240996	20.17	ppb	98
115)	Coelution Dichlorotoluene	23.96	125	630252	42.24	ppb	97
116)	1,2,4-Tcbenzene	24.48	180	241545	22.93	ppb	96
117)	Hexachlorobt	24.78	225	112787	26.38	ppb	88
118)	Naphthalen	25.01	128	498020	22.08	ppb	97
119)	1,2,3-Tclbenzene	25.50	180	196646	22.16	ppb	98
120)	2,4,5-Trichlorotoluene	27.08	159	130126	22.46	ppb	98
121)	2,3,6-Trichlorotoluene	27.36	159	118353	24.28	ppb	94

(#) = qualifier out of range (m) = manual integration
W0846.D W032315.M Thu Apr 02 13:26:26 2015

Quantitation Report (QedIt)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 12:57 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0846.D

(10) FREON 123A

6.39min 22.47ppb

response 292563

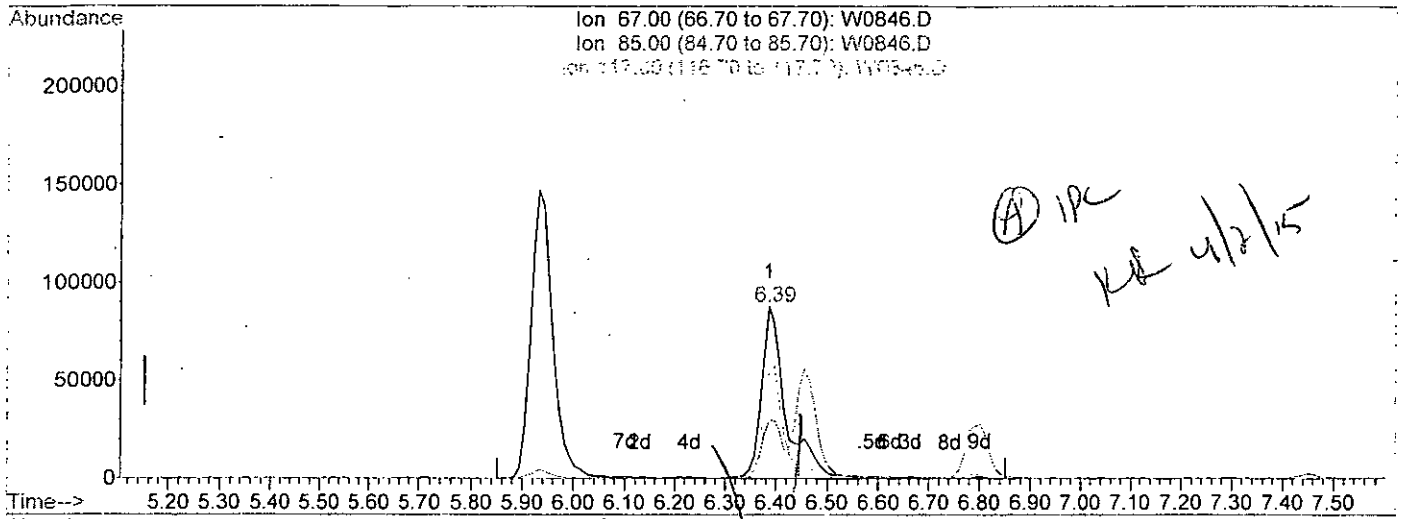
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	33.71
117.00	65.00	62.36
0.00	0.00	0.00

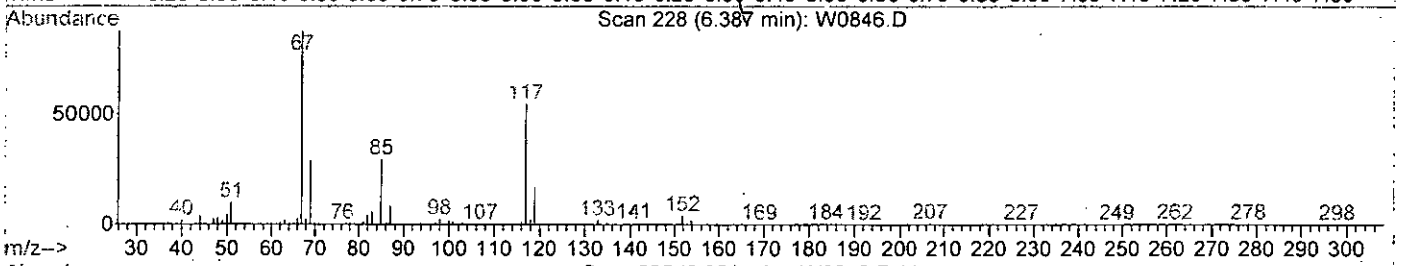
W0846.D W032315.M Thu Apr 02 13:24:35 2015

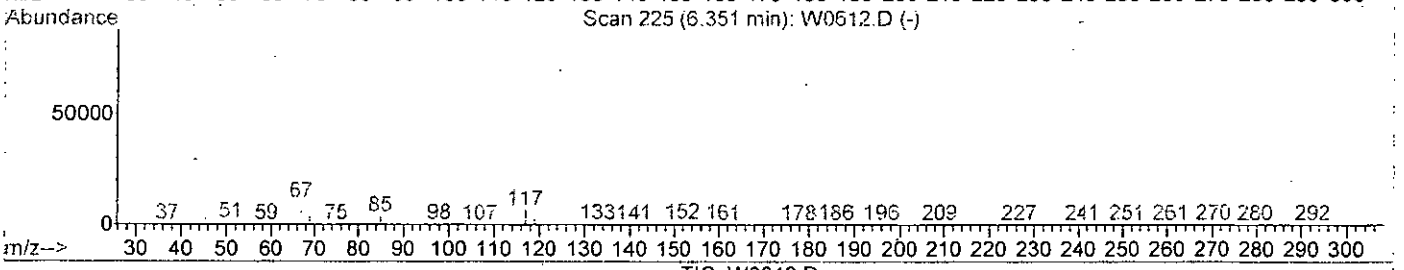
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA2\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:24 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0846.D

(10) FREON 123A

6.39min 19.67ppb m

response 256084

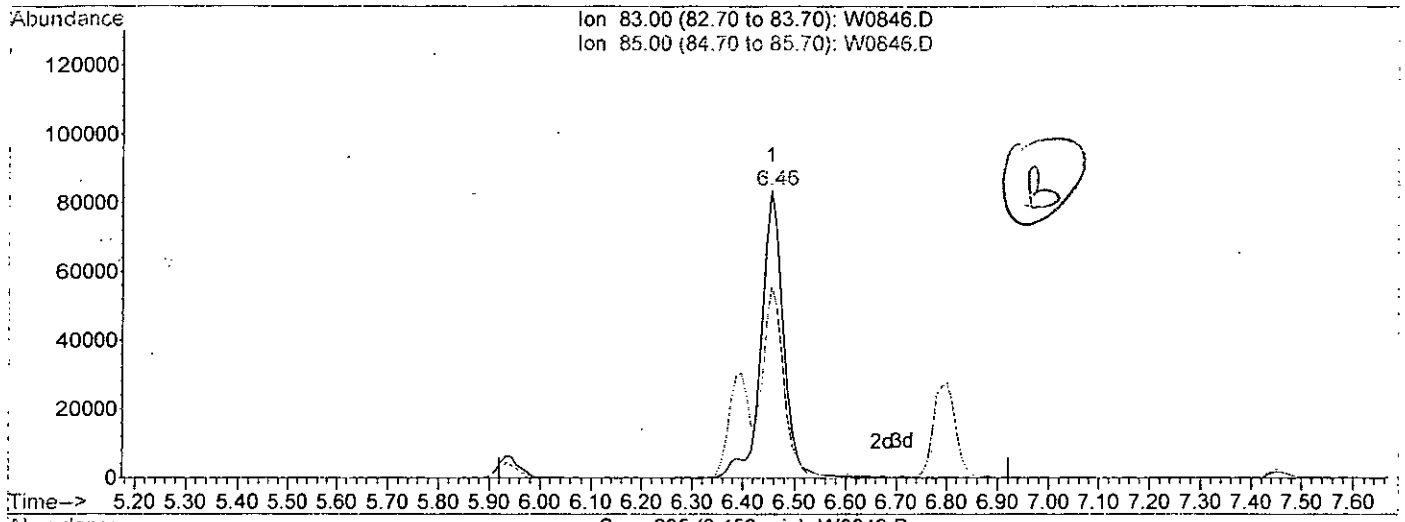
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	33.71
117.00	65.00	62.36
0.00	0.00	0.00

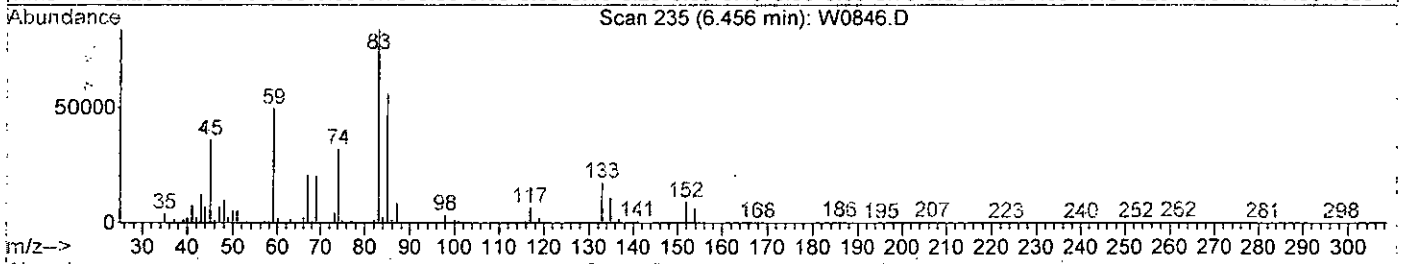
W0846.D W032315.M Thu Apr 02 13:24:43 2015

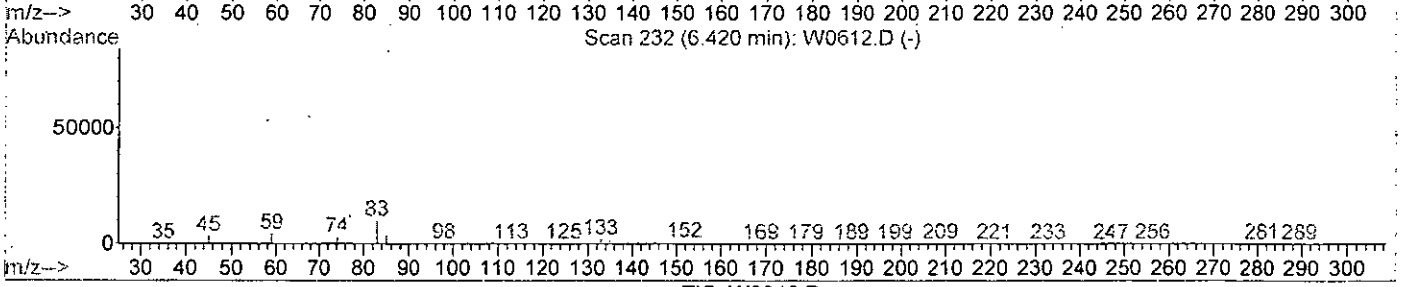
Quantitation Report (QedIt)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:24 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0846.D

(11) FREON 123

6.46min 18.38ppb

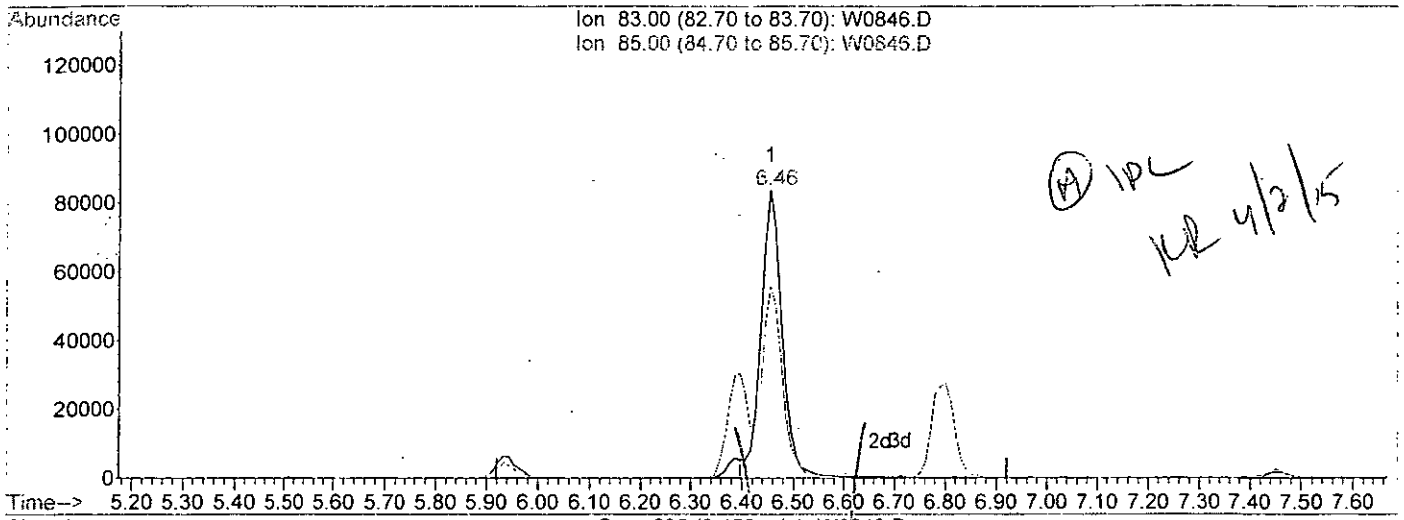
response 251528

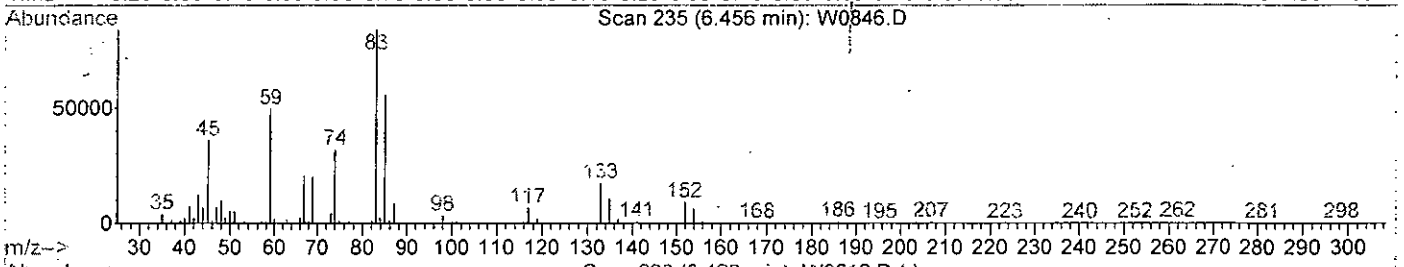
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	66.66
0.00	0.00	0.00
0.00	0.00	0.00

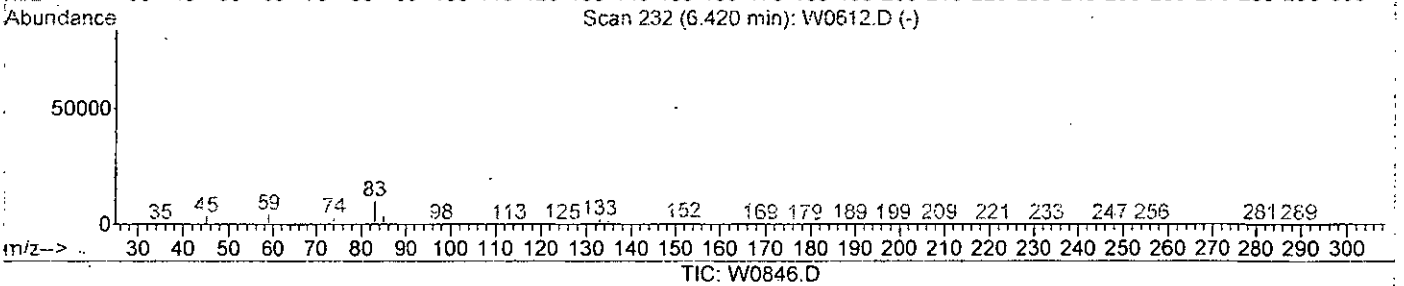
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:24 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0846.D

(11) FREON 123

6.46min 17.56ppb m

response 240386

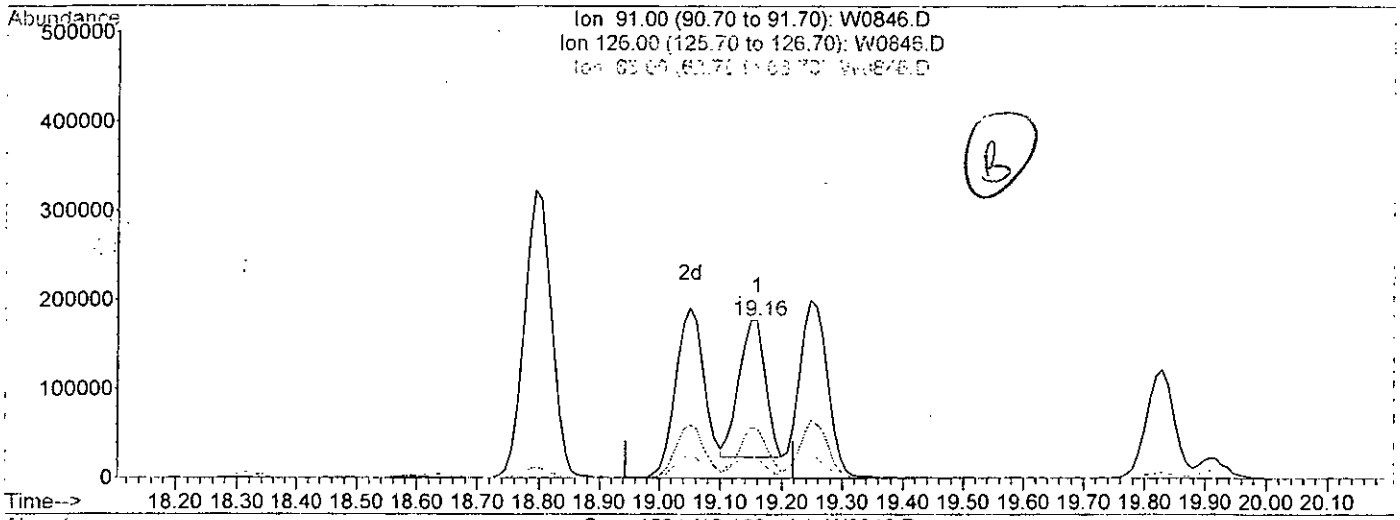
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	66.66
0.00	0.00	0.00
0.00	0.00	0.00

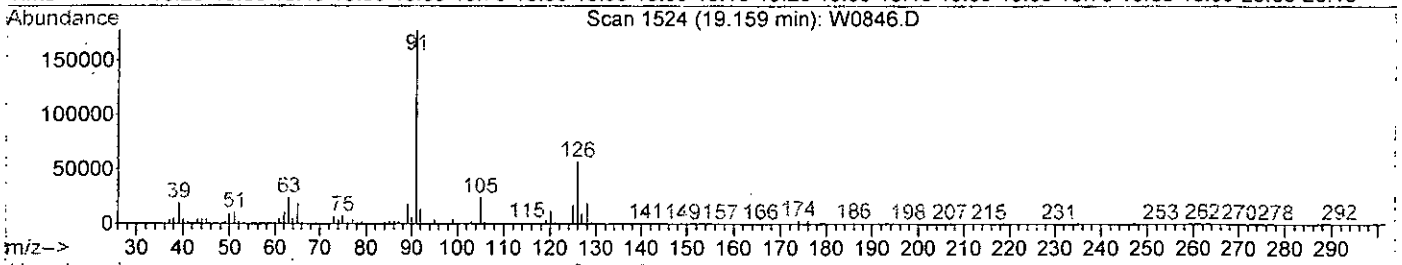
W0846.D W032315.M Thu Apr 02 13:24:58 2015

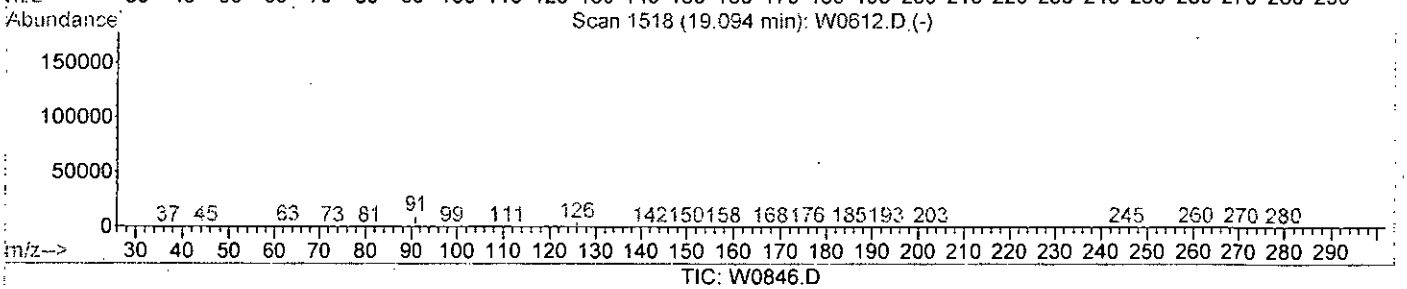
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:24 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0846.D

(98) 3-Chlorotoluene

19.16min 15.63ppb

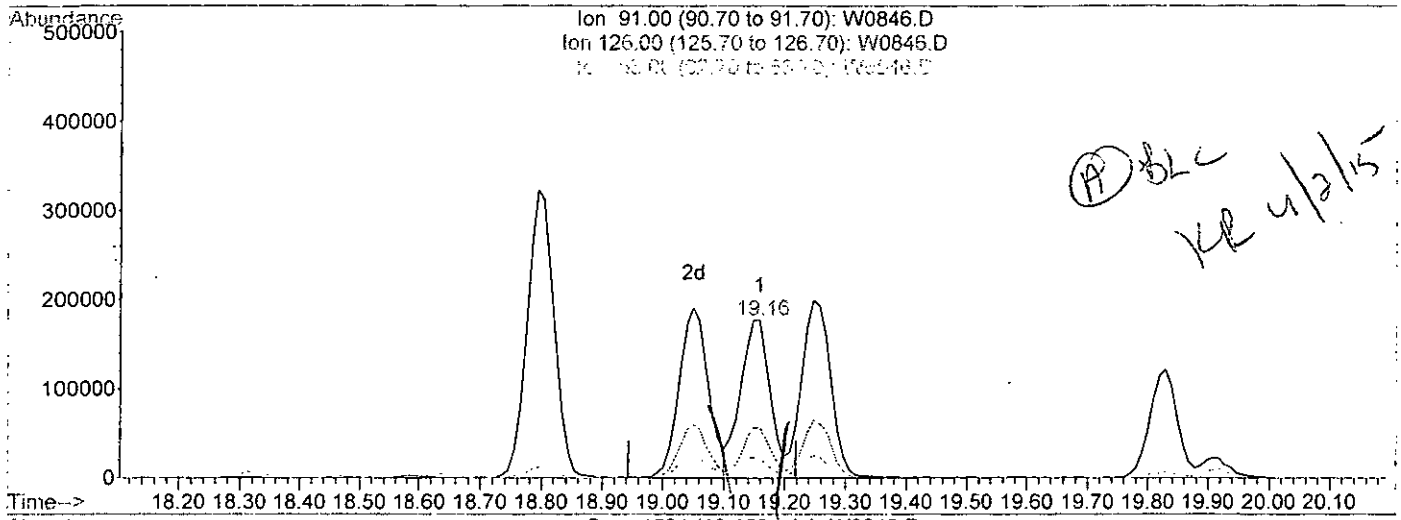
response 454691

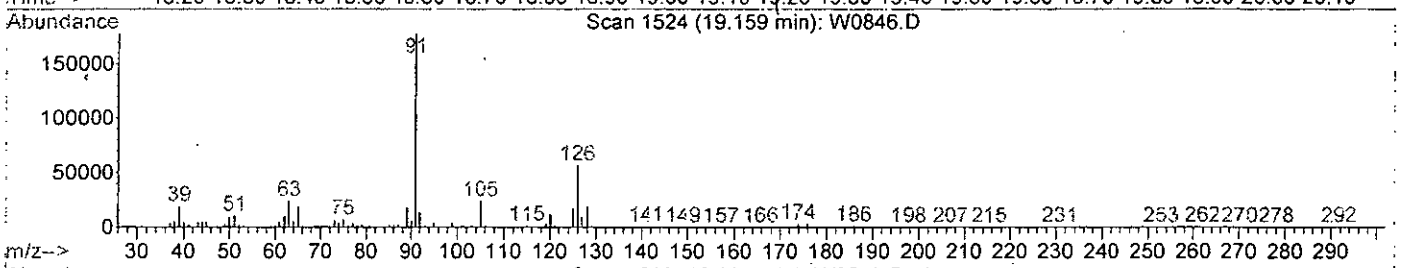
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	32.05
63.00	12.50	16.13#
0.00	0.00	0.00

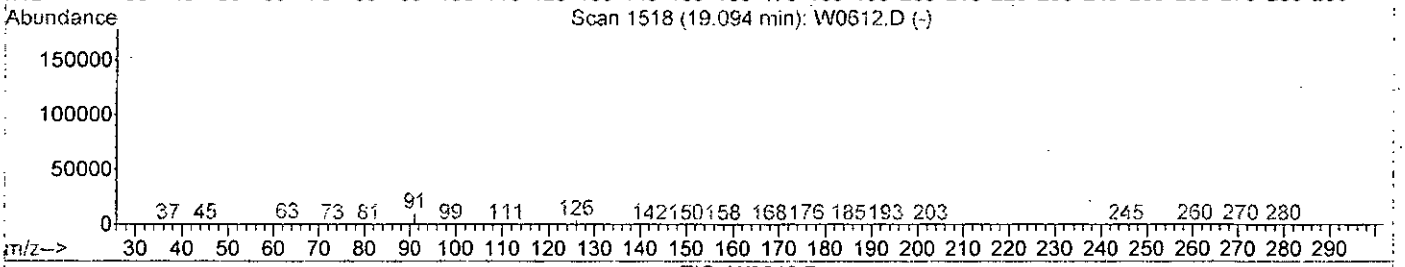
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:25 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0846.D

(98) 3-Chlorotoluene

19.16min 20.45ppb m

response 594947

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	24.50
63.00	12.50	12.33
0.00	0.00	0.00

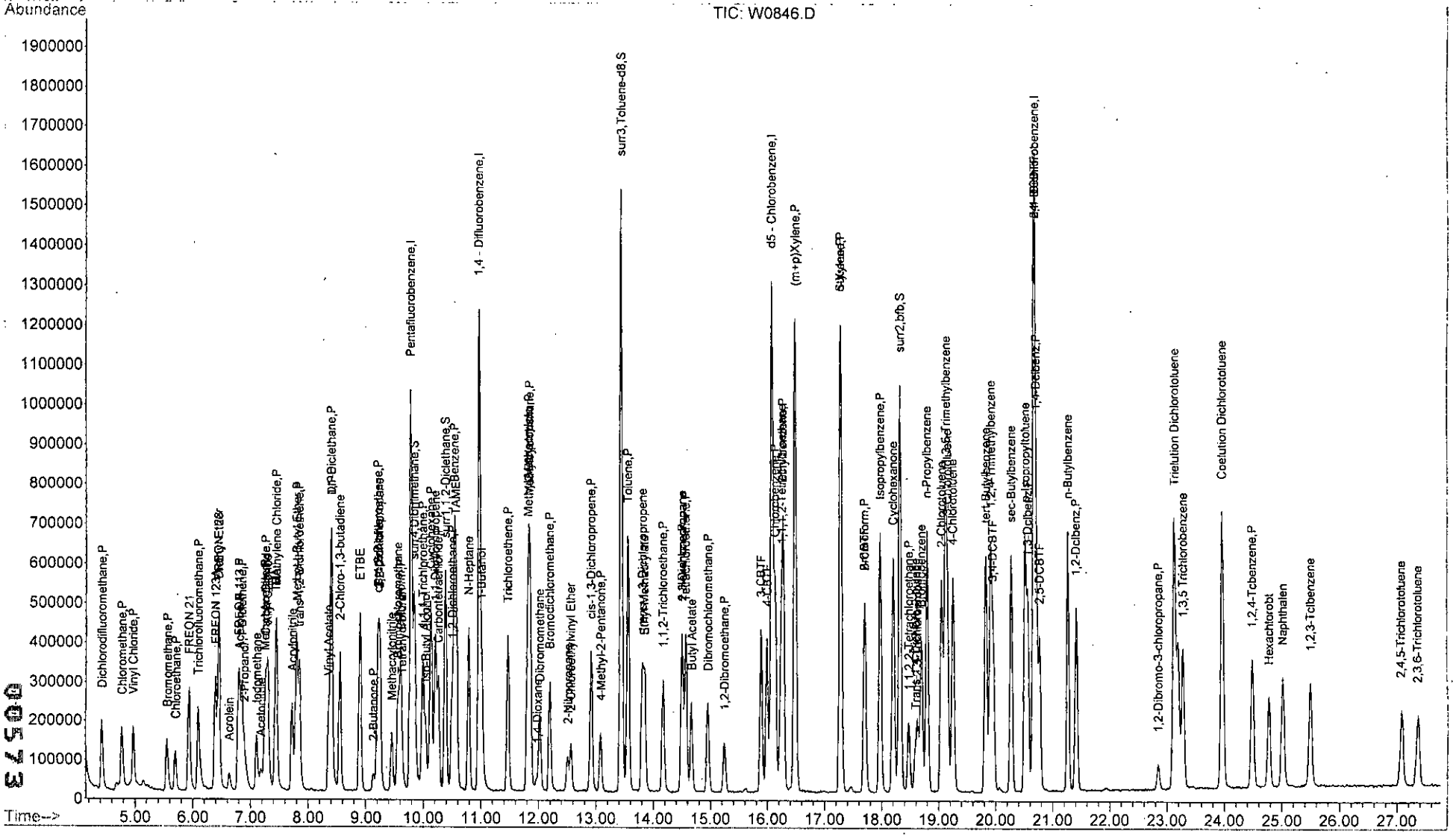
W0846.D W032315.M Thu Apr 02 13:26:01 2015

00572

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0846.D Vial: 5
Acq On : 2 Apr 2015 12:31 pm Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 13:25 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0846.D W032315.M Thu Apr 02 13:26:30 2015 Page 4

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/3/15 11:09
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1503202-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**23.2**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**21.9**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**20.5**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**19.6**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**19.5**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**18.7**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**20.7**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**22.6**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**20.2**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**23.3**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**22.3**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**19.5**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**21.4**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**21.5**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**22.6**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**20.2**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**22.3**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**21.8**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**21.4**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**21.4**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**21.0**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**19.1**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**21.6**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**20.9**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**461**		100	20	11	
106-43-4	4-Chlorotoluene	**21.9**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**22.1**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**20.0**		5.0	1.0	0.67	
67-64-1	Acetone	**17.7**		5.0	5.0	1.3	
71-43-2	Benzene	**19.8**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**21.8**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**19.5**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**22.5**		5.0	1.0	0.32	
75-25-2	Bromoform	**24.8**		5.0	1.0	0.42	
74-83-9	Bromomethane	**16.7**		5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	**22.2**		5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/3/15 11:09
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1503202-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439004
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	**21.8**		5.0	1.0	0.29	
75-00-3	Chloroethane	**18.2**		5.0	1.0	0.24	
67-66-3	Chloroform	**21.1**		5.0	1.0	0.25	
74-87-3	Chloromethane	**20.4**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**22.0**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**21.3**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**17.7**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**20.7**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**24.2**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**22.6**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**20.6**		5.0	1.0	0.29	
91-20-3	Naphthalene	**22.3**		5.0	1.0	0.20	
100-42-5	Styrene	**21.8**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**22.1**		5.0	1.0	0.30	
108-88-3	Toluene	**22.0**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**21.4**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**20.5**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**20.4**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**19.0**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**20.7**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**44.1**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**21.7**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**21.7**		5.0	1.0	0.20	
95-47-6	o-Xylene	**21.4**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**21.4**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**21.7**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**19.2**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**22.2**		5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	75-120	4/3/15 11:09	
Dibromofluoromethane	108	85-115	4/3/15 11:09	
Toluene-d8	110	85-120	4/3/15 11:09	

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS RQ1503202-03 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:41 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.79	168	978467	50.00	ppb		0.05
42) 1,4 - Difluorobenzene	10.98	114	1523207	50.00	ppb		0.05
64) d5 - Chlorobenzene	16.08	117	1368003	50.00	ppb		0.06
90) d4 - Dichlorobenzene	20.67	152	681230	50.00	ppb		0.06
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.85	113	527461	53.79	ppb		0.05
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.58%				
48) surr1,1,2-Diclethane	10.39	65	539364	54.56	ppb		0.06
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.12%				
70) surr3,Toluene-d8	13.45	98	1640514	55.23	ppb		0.06
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.46%				
71) surr2,bfb	18.33	95	702832	54.41	ppb		0.06
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.82%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.43	85	264566	21.31	ppb		98
3) Chloromethane	4.78	50	271674	20.42	ppb		97
4) Vinyl Chloride	4.97	62	243785	20.35	ppb		95
5) Bromomethane	5.57	96	146103	16.66	ppb		98
6) Chloroethane	5.70	64	164926	18.15	ppb		93
7) FREON 21	5.94	67	438659	19.66	ppb		94
8) Trichlorofluoromethane	6.10	101	296694	20.54	ppb		99
9) Diethyl Ether	6.45	59	165160	18.99	ppb		93
10) FREON 123A	6.39	67	251702m	19.35	ppb		
11) FREON 123	6.46	83	245197m	17.93	ppb		
12) Acrolein	6.64	56	47389	30.35	ppb		77
13) FREON 113	6.81	101	193637	19.49	ppb		94
14) 1,1-Diclethene	6.86	96	163804	18.66	ppb		98
15) Acetone	6.83	43	65023	17.72	ppb		98
16) 2-Propanol	6.89	45	200393	401.62	ppb		95
17) Iodomethane	7.11	142	263184	16.21	ppb		97
18) Carbon Disulfide	7.27	76	708090	17.50	ppb		97
19) Acetonitrile	7.19	41	99564	106.20	ppb		89
20) Allyl Chloride	7.31	41	326013	17.33	ppb		93
21) Methyl Acetate	7.25	43	116297	16.88	ppb		90
22) Methylene Chloride	7.46	84	199087	17.72	ppb		99
23) TBA	7.44	59	338729	461.47	ppb		100
24) Acrylonitrile	7.73	53	280815	89.74	ppb		99
25) Methyl-t-Butyl Ether	7.80	73	549090	20.58	ppb		99
26) trans-1,2-Dichloroethene	7.85	96	199919	19.17	ppb		96
28) 1,1-Diclethane	8.42	63	361811	19.52	ppb		96
29) Vinyl Acetate	8.36	86	34067	23.14	ppb	#	74
30) DIPE	8.40	45	700179	16.17	ppb		95
31) 2-Chloro-1,3-butadiene	8.56	53	354247	17.28	ppb		95
32) ETBE	8.91	59	602049	16.76	ppb		98
33) 2,2-Dichloropropane	9.25	77	304615	21.02	ppb		99
34) 2-Butanone	9.13	43	91262	19.08	ppb		100
35) cis-1,2-Dichloroethene	9.21	96	212107	18.98	ppb		94
36) Propionitrile	9.22	54	106545	97.40	ppb		99
37) Methacrylonitrile	9.46	67	62740	17.11	ppb		97

(#) = qualifier out of range (m) = manual integration
W0884.D W032315.M Fri Apr 03 11:41:37 2015

KR 4/3/15

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:41 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.57	128	110714	19.47	ppb		96
39)	Chloroform	9.62	83	383298	21.07	ppb		97
40)	Tetrahydrofuran	9.66	42	49653	19.31	ppb		94
41)	1,1,1-Trichloroethane	10.00	97	319918	21.89	ppb		97
43)	Cyclohexane	10.14	56	340205	18.41	ppb		98
45)	Carbontetrachloride	10.28	117	266010	22.17	ppb		94
46)	1,1-Dichloropropene	10.22	75	283978	20.73	ppb		96
47)	Iso-Butyl Alcohol	10.05	43	151903	436.95	ppb		94
49)	Benzene	10.55	78	782581	19.82	ppb		96
50)	1,2-Dichloroethane	10.50	62	282660	22.57	ppb		95
51)	TAME	10.58	73	504573	18.77	ppb		99
52)	N-Heptane	10.80	43	275722	19.52	ppb		98
53)	1-Butanol	11.03	56	234964	1281.41	ppb		91
54)	Trichloroethene	11.48	95	215533	21.44	ppb		94
55)	Methylcyclohexane	11.86	55	269862	18.55	ppb		98
56)	1,2-Diclpropane	11.83	63	221843	20.22	ppb		99
57)	Methyl Methacrylate	11.81	100	44788	19.87	ppb		92
58)	1,4-Dioxane	11.98	88	31225	466.28	ppb		99
59)	Dibromomethane	12.03	93	113832	20.25	ppb		88
60)	Bromodichloromethane	12.21	83	298255	22.51	ppb		94
61)	2-Nitropropane	12.51	43	116819	56.66	ppb		99
62)	2-Chloroethylvinyl Ether	12.57	63	69591	11.89	ppb		97
63)	cis-1,3-Dichloropropene	12.93	75	341683	20.65	ppb		98
65)	4-Methyl-2-Pentanone	13.09	43	166886	20.00	ppb		90
66)	Toluene	13.57	91	810614	21.96	ppb		95
67)	trans-1,3-Dichloropropene	13.81	75	293073	22.16	ppb		100
68)	Ethyl Methacrylate	13.86	69	225072	21.05	ppb		96
69)	1,1,2-Trichloroethane	14.18	83	134817	19.58	ppb		97
72)	Tetrachloroethene	14.58	166	223973	22.06	ppb		97
73)	2-Hexanone	14.51	43	116116	20.89	ppb		87
74)	1,3-Dichloropropane	14.51	76	307983	21.35	ppb		96
75)	Butyl Acetate	14.68	43	277748	20.10	ppb		99
76)	Dibromochloromethane	14.96	129	213831	22.02	ppb		97
77)	1,2-Dibromoethane	15.25	107	166087	21.42	ppb		95
78)	Chlorobenzene	16.14	112	531365	21.77	ppb		98
79)	3-CBTF	15.89	180	288376	20.95	ppb		97
80)	4-CBTF	16.00	180	255659	20.54	ppb		98
81)	1,1,1,2-Tetrachloroethane	16.25	131	210150	23.20	ppb		98
82)	Ethylbenzene	16.28	91	854726	20.72	ppb		94
83)	(m+p)Xylene	16.49	106	674626	44.12	ppb		98
84)	o-Xylene	17.28	106	323865	21.38	ppb		92
85)	Styrene	17.28	104	572429	21.76	ppb		91
86)	Bromoform	17.72	173	131587	24.84	ppb		98
87)	2-CBTF	17.71	180	267908	20.41	ppb		97
88)	Isopropylbenzene	17.98	105	861252	22.58	ppb		97
89)	Cyclohexanone	18.21	55	382421	422.35	ppb		94
91)	1,1,2,2-Tetrachloroethane	18.49	83	182926	20.50	ppb		95
92)	Trans-1,4-Dichloro-2-buten	18.58	53	37588	17.17	ppb	#	70
93)	1,2,3-Trichloropropane	18.64	110	56301	20.17	ppb		95
94)	n-Propylbenzene	18.80	91	1026455	21.67	ppb		96

(#) = qualifier out of range (m) = manual integration
W0884.D W032315.M Fri Apr 03 11:41:38 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:41 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

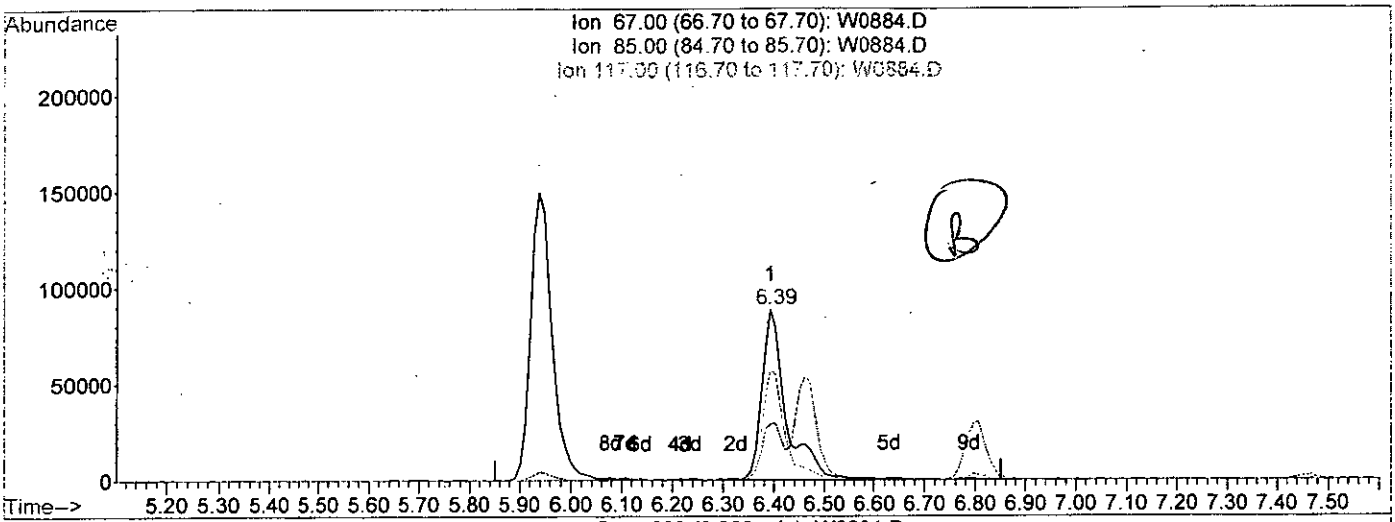
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95)	Bromobenzene	18.71	156	225679	21.79	ppb	97
96)	1,3,5-Trimethylbenzene	19.12	105	685693	22.27	ppb	92
97)	2-Chlorotoluene	19.06	91	649820	21.64	ppb	98
98)	3-Chlorotoluene	19.16	91	615794m	20.55	ppb	
99)	4-Chlorotoluene	19.25	91	665270	21.90	ppb	97
100)	tert-Butylbenzene	19.84	119	586287	21.66	ppb	100
101)	1,2,4-Trimethylbenzene	19.91	105	699513	22.30	ppb	93
102)	3,4-DCBTF	19.96	214	204735	20.95	ppb	98
103)	sec-Butylbenzene	20.28	105	821309	21.41	ppb	100
104)	p-Isopropyltoluene	20.52	119	706692	22.11	ppb	98
105)	1,3-Dclbenz	20.56	146	416380	21.82	ppb	98
106)	1,4-Dclbenz	20.72	146	409440	21.37	ppb	98
107)	2,4-DCBTF	20.69	214	179164	21.51	ppb	98
108)	2,5-DCBTF	20.77	214	206607	21.32	ppb	98
109)	n-Butylbenzene	21.27	91	646992	21.66	ppb	99
110)	1,2-Dclbenz	21.42	146	389314	21.47	ppb	99
111)	1,2-Dibromo-3-chloropropan	22.85	157	36516	19.49	ppb	99
112)	Trielution Dichlorotoluene	23.14	125	908597	61.17	ppb	98
114)	1,3,5 Trichlorobenzene	23.28	180	255303	20.74	ppb	99
115)	Coelution Dichlorotoluene	23.96	125	634500	41.28	ppb	99
116)	1,2,4-Tcbenzene	24.50	180	252461	23.26	ppb	99
117)	Hexachlorobt	24.78	225	106578	24.20	ppb	99
118)	Naphthalen	25.02	128	517219	22.26	ppb	96
119)	1,2,3-Tclbenzene	25.50	180	206768	22.62	ppb	99
120)	2,4,5-Trichlorotoluene	27.09	159	133181	22.32	ppb	98
121)	2,3,6-Trichlorotoluene	27.36	159	113065	22.52	ppb	96

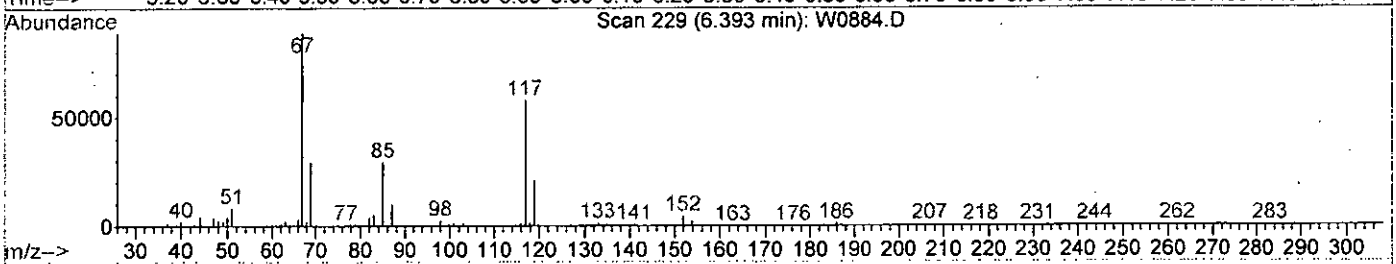
(#) = qualifier out of range (m) = manual integration
W0884.D W032315.M Fri Apr 03 11:41:39 2015

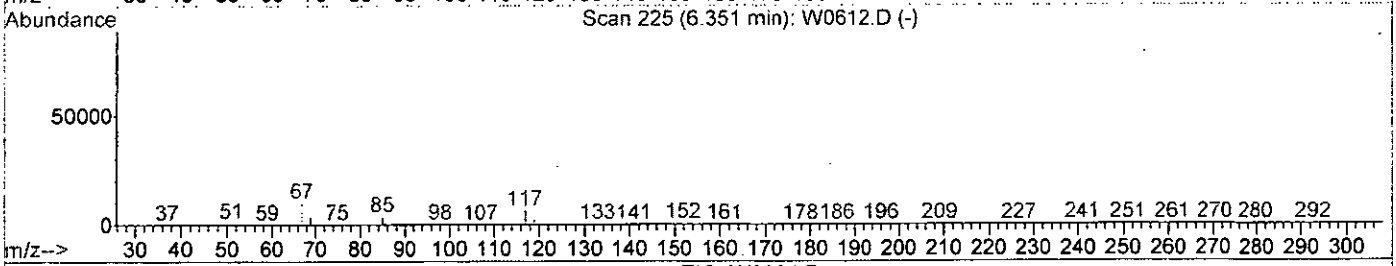
Quantitation Report (Qedit)

Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:35 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0884.D

(10) FREON 123A

6.39min 22.71ppb

response 295441

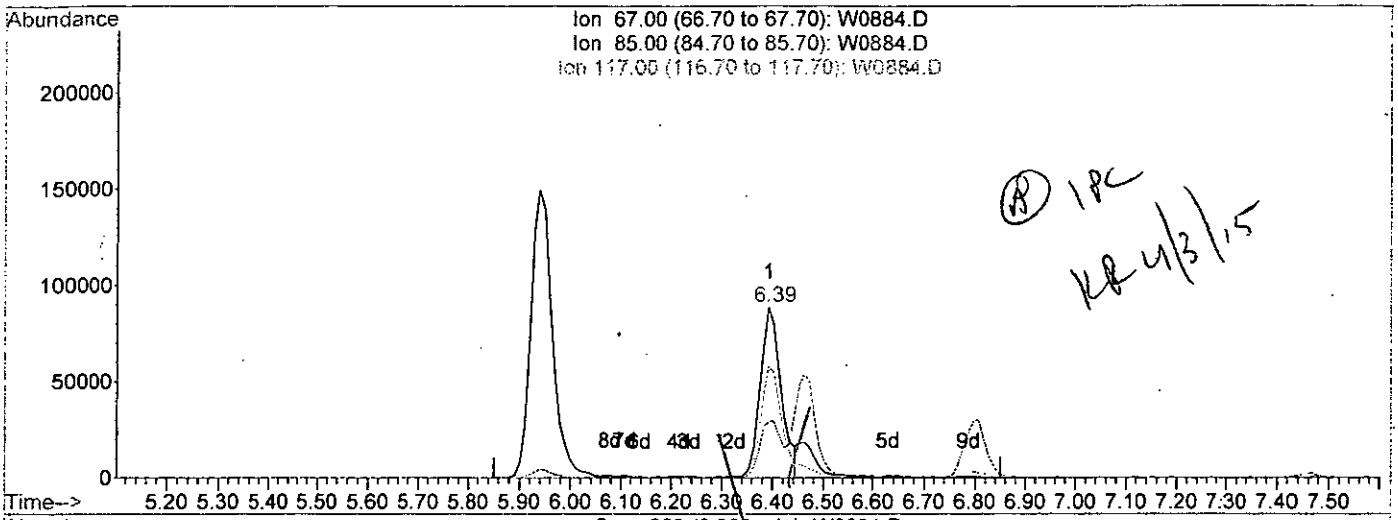
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	32.89
117.00	65.00	65.04
0.00	0.00	0.00

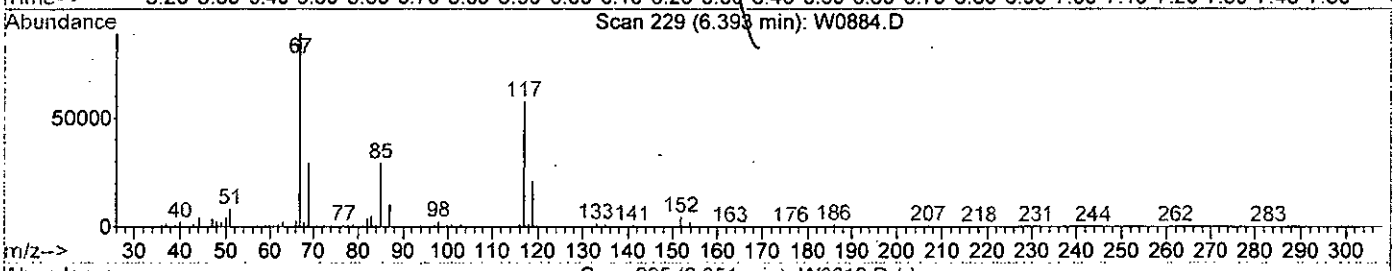
W0884.D W032315.M Fri Apr 03 11:39:51 2015

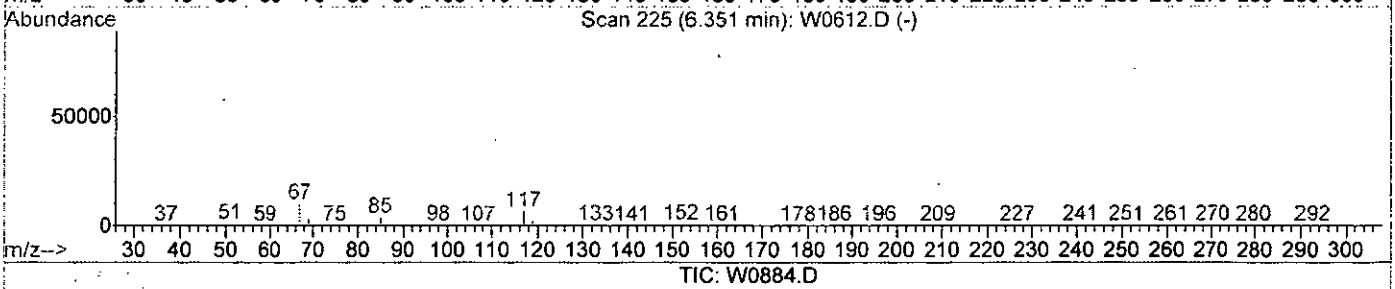
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:39 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0884.D

(10) FREON 123A

6.39min 19.35ppb m

response 251702

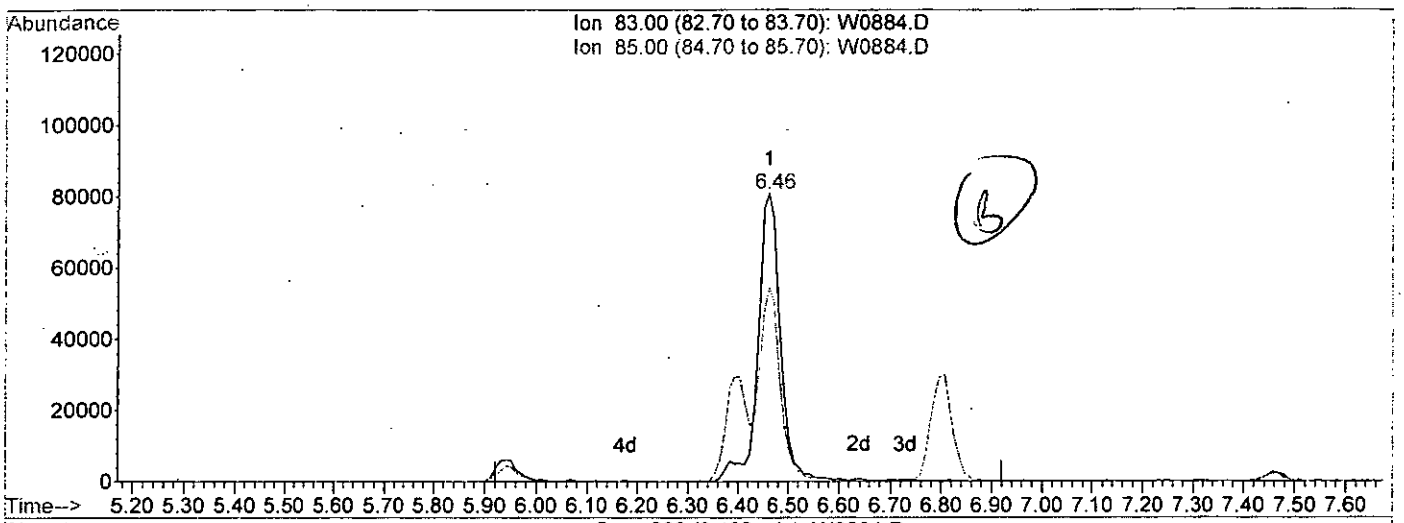
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	32.89
117.00	65.00	65.04
0.00	0.00	0.00

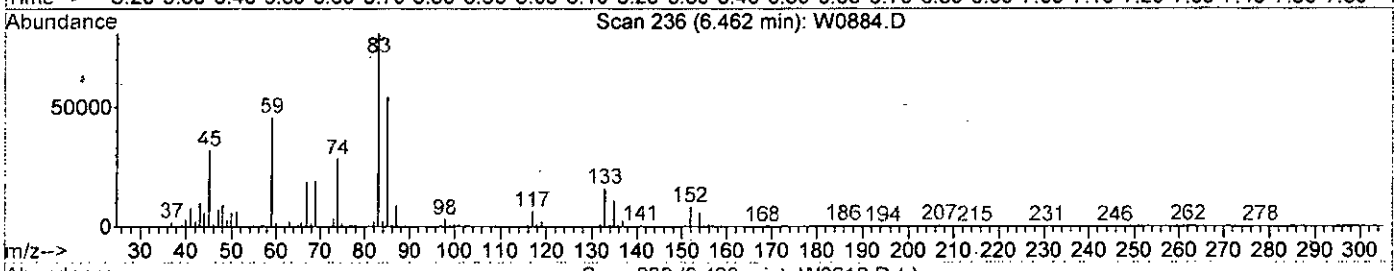
W0884.D W032315.M Fri Apr 03 11:39:59 2015 00580

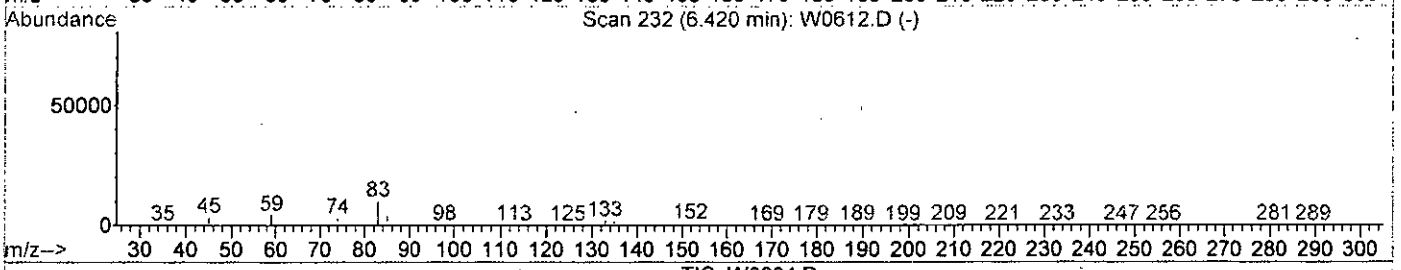
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:39 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0884.D

(11) FREON 123

6.46min 18.80ppb

response 257121

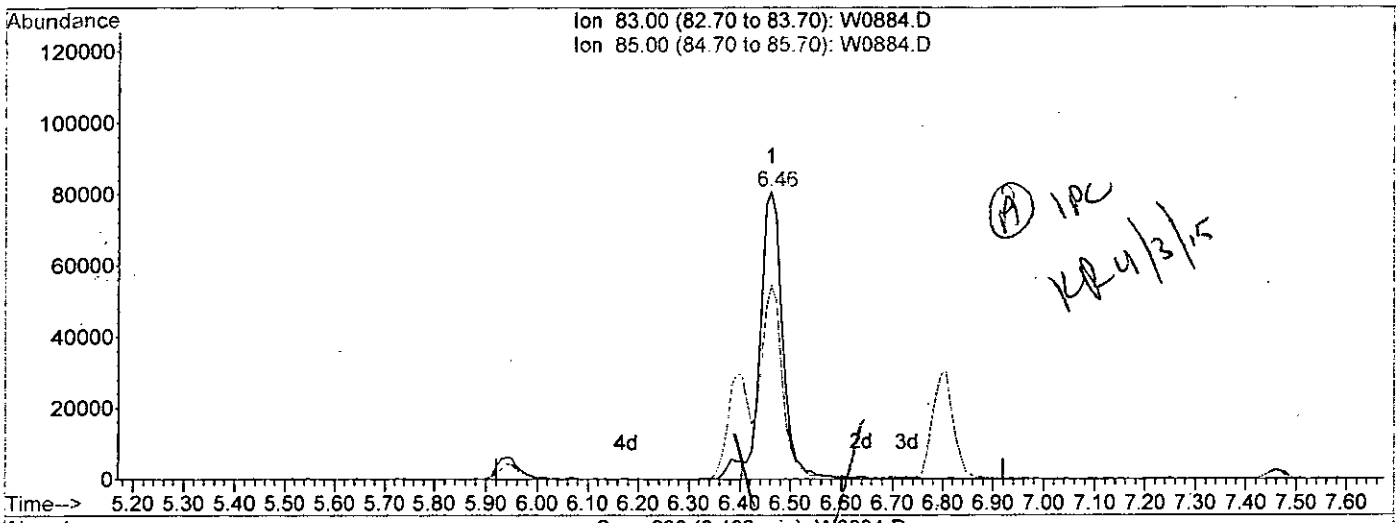
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.18
0.00	0.00	0.00
0.00	0.00	0.00

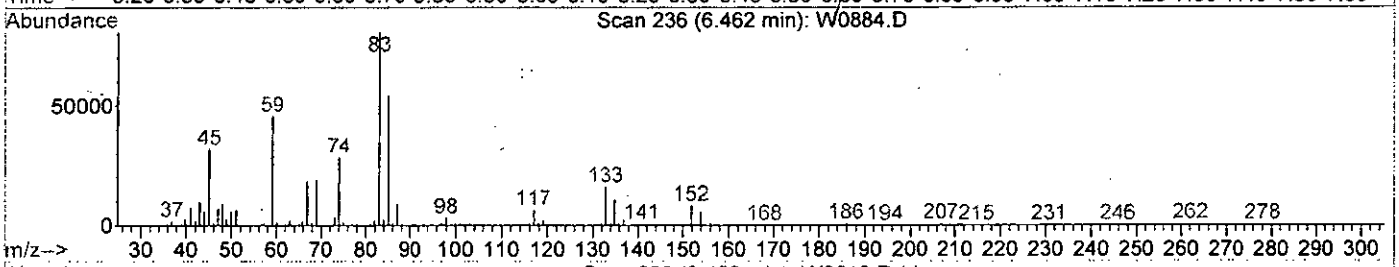
W0884.D W032315.M Fri Apr 03 11:40:04 2015 00581

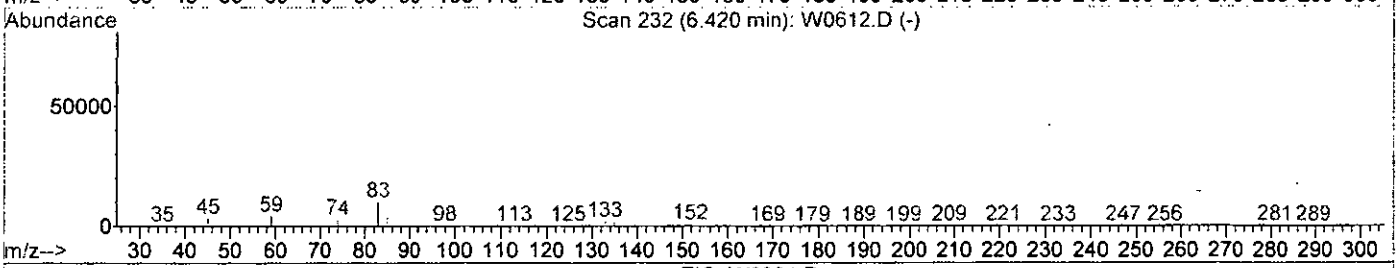
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:40 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0884.D

(11) FREON 123

6.46min 17.93ppb m

response 245197

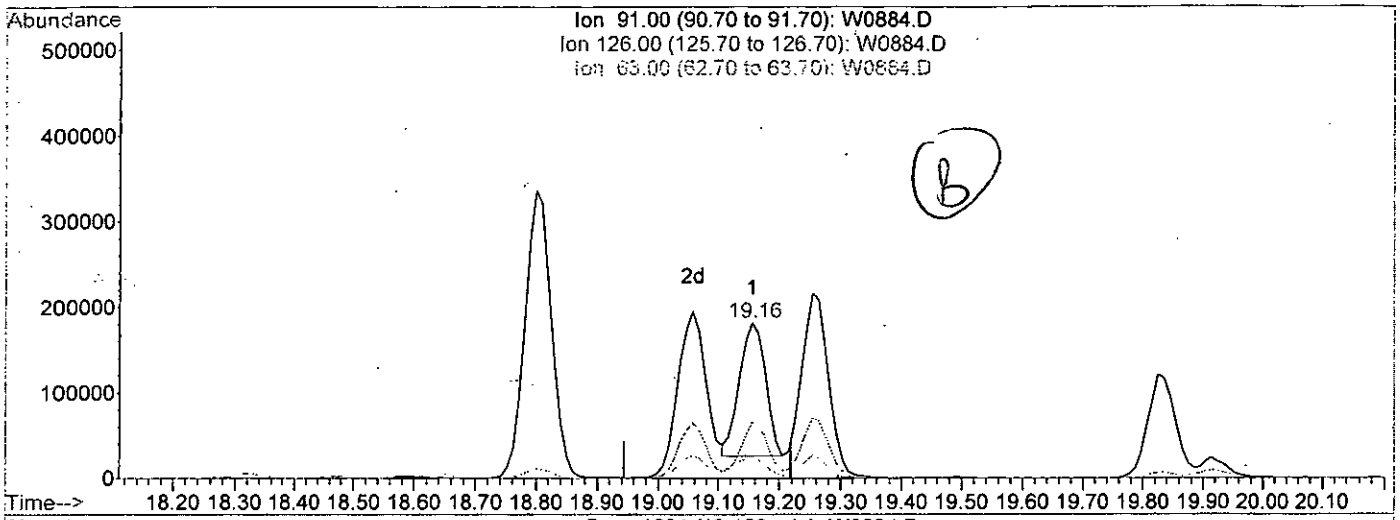
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	67.18
0.00	0.00	0.00
0.00	0.00	0.00

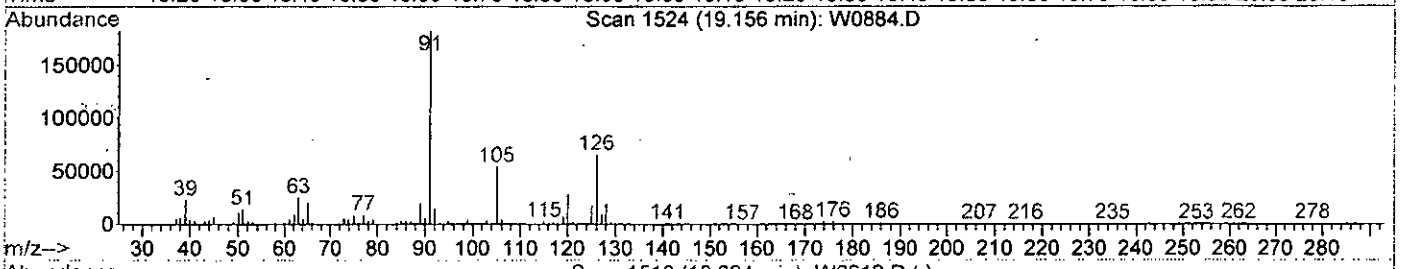
W0884.D W032315.M Fri Apr 03 11:40:13 2015 00582

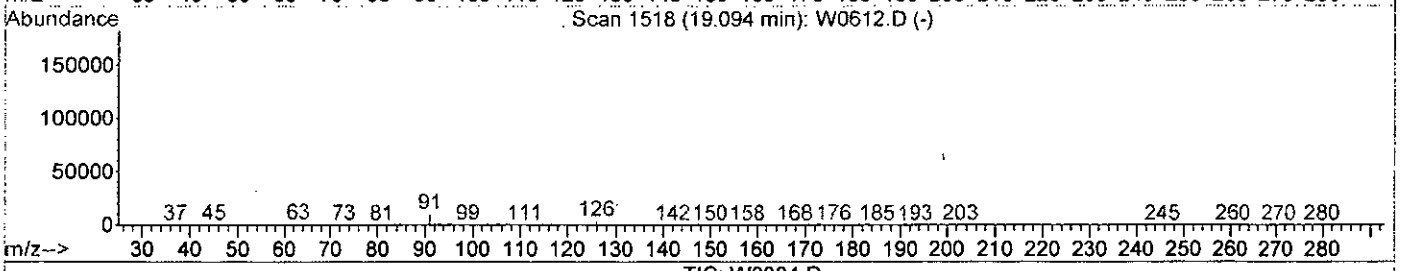
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:40 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0884.D

(98) 3-Chlorotoluene

19.16min 15.34ppb

response 459833

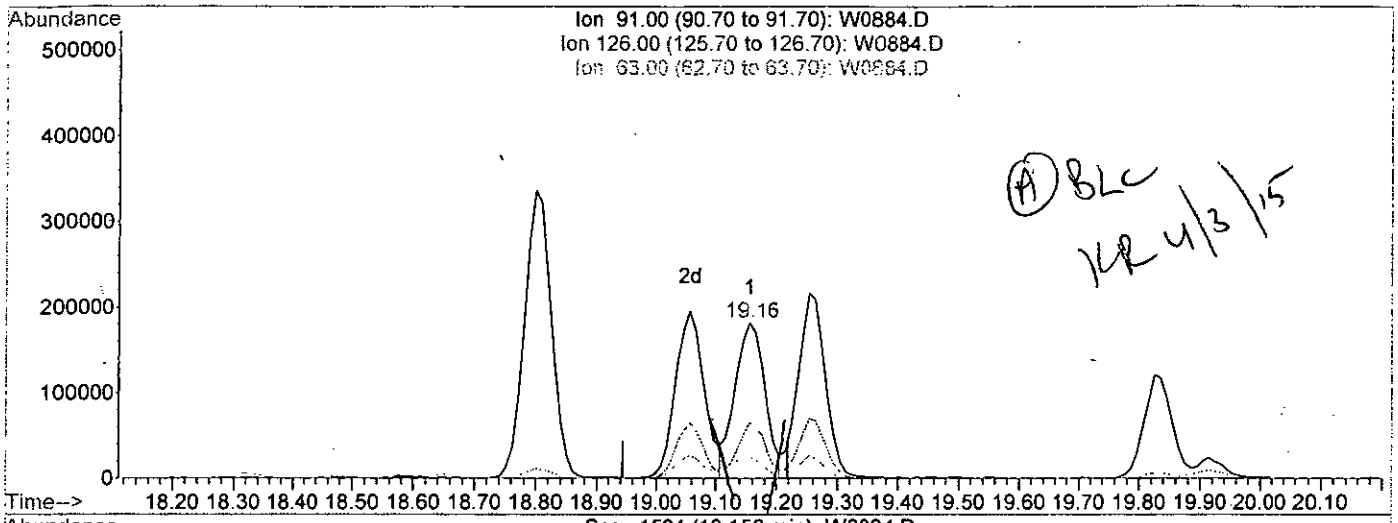
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	34.42#
63.00	12.50	14.94
0.00	0.00	0.00

W0884.D W032315.M Fri Apr 03 11:41:05 2015 00583

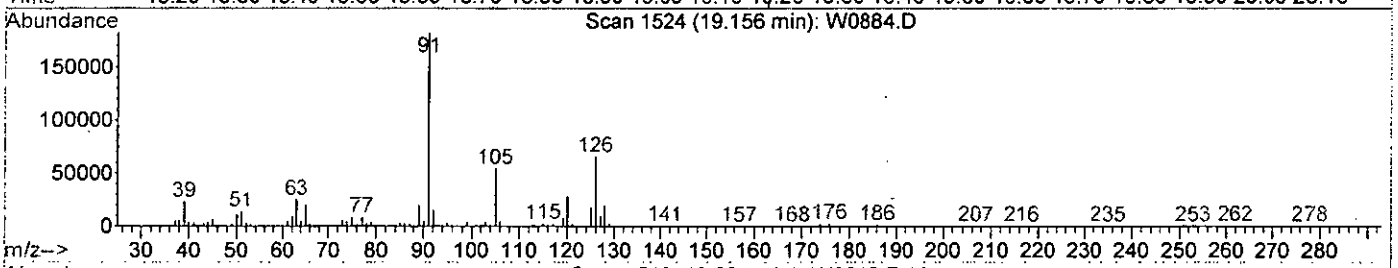
Quantitation Report (Qedit)

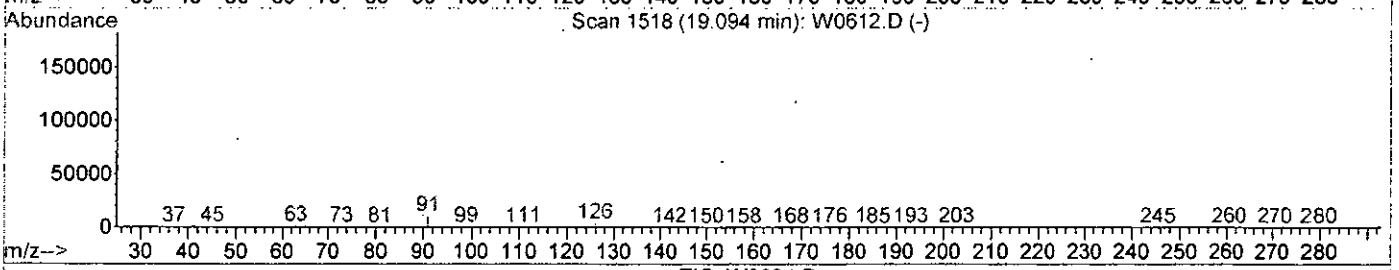
Data File: I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:41 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



(A) BLC JR 4/3/15





TIC: W0884.D

(98) 3-Chlorotoluene

19.16min 20.55ppb m

response 615794

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	25.70
63.00	12.50	11.16
0.00	0.00	0.00

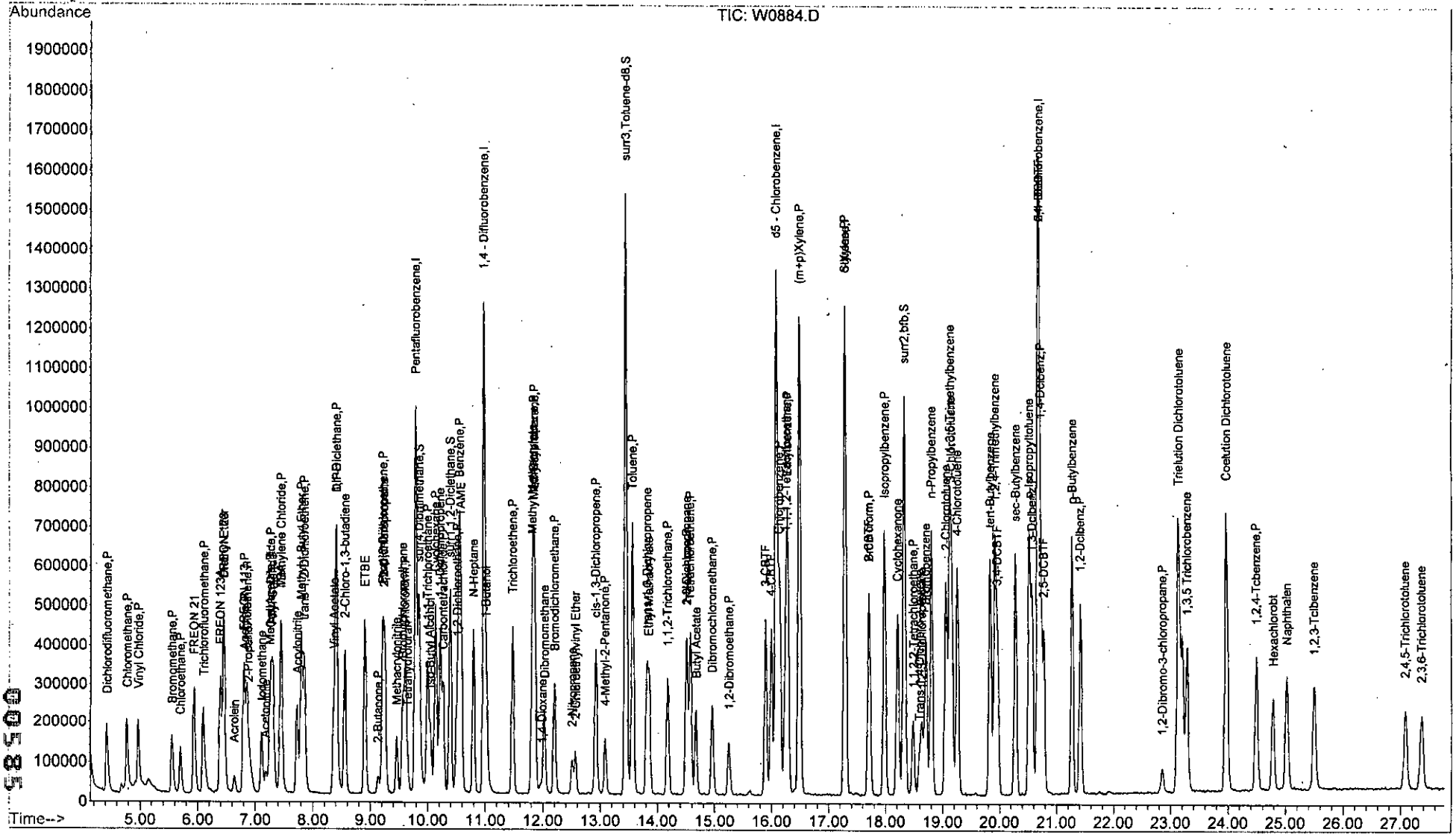
lm 4/5

W0884.D W032315.M Fri Apr 03 11:41:12 2015 00584

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040315\W0884.D Vial: 4
Acq On : 3 Apr 2015 11:09 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 11:41 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0884.D W032315.M Fri Apr 03 11:41:43 2015

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	4/7/15 11:42
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1503305-03	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	439385
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**22.2**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**19.8**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**20.5**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**19.3**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**18.6**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**17.1**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**19.1**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**22.1**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**19.8**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**22.1**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**21.4**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**21.4**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**21.3**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**20.9**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**21.6**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**18.9**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**21.1**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**20.7**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**20.5**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**20.9**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**19.1**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**16.6**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**20.6**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**21.7**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**437**		100	20	11	
106-43-4	4-Chlorotoluene	**21.8**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**21.3**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**21.1**		5.0	1.0	0.67	
67-64-1	Acetone	**18.5**		5.0	5.0	1.3	
71-43-2	Benzene	**18.9**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**20.9**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**18.1**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**21.0**		5.0	1.0	0.32	
75-25-2	Bromoform	**24.2**		5.0	1.0	0.42	
74-83-9	Bromomethane	**15.7**		5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	**20.8**		5.0	1.0	0.45	

Client: Parsons Engineering Science
Project: FTMM 2015 Q1 GW Sampling/748810-03000
Sample Matrix: Water

Service Request: R1502204
Date Collected: NA
Date Received: NA
Date Analyzed: 4/7/15 11:42

Sample Name: Lab Control Sample
Lab Code: RQ1503305-03

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D\

Analysis Lot: 439385
Instrument Name: R-MS-07
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	**21.3**		5.0	1.0	0.29	
75-00-3	Chloroethane	**15.1**		5.0	1.0	0.24	
67-66-3	Chloroform	**18.9**		5.0	1.0	0.25	
74-87-3	Chloromethane	**18.2**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**22.6**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**19.2**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**16.8**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**20.0**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**25.0**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**21.7**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**19.2**		5.0	1.0	0.29	
91-20-3	Naphthalene	**20.6**		5.0	1.0	0.20	
100-42-5	Styrene	**20.8**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**21.6**		5.0	1.0	0.30	
108-88-3	Toluene	**21.2**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**20.1**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**18.9**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**19.4**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**18.2**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**19.5**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**41.9**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**21.0**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**21.0**		5.0	1.0	0.20	
95-47-6	o-Xylene	**20.9**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**21.0**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**21.2**		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	**21.3**		5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	75-120	4/7/15 11:42	
Dibromofluoromethane	109	85-115	4/7/15 11:42	
Toluene-d8	113	85-120	4/7/15 11:42	

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS RQ1503305-03 Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:29 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.74	168	977681	50.00	ppb		0.00
42) 1,4 - Difluorobenzene	10.92	114	1482130	50.00	ppb		0.00
64) d5 - Chlorobenzene	16.03	117	1305006	50.00	ppb		0.01
90) d4 - Dichlorobenzene	20.62	152	646490	50.00	ppb		0.01
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.80	113	518651	54.36	ppb		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.72%				
48) surr1,1,2-Diclethane	10.34	65	534127	55.53	ppb		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.06%				
70) surr3,Toluene-d8	13.40	98	1596215	56.33	ppb		0.01
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.66%				
71) surr2,bfb	18.27	95	657440	53.36	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.72%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.40	85	238037	19.19	ppb		97
3) Chloromethane	4.75	50	241398	18.16	ppb		96
4) Vinyl Chloride	4.94	62	231680	19.35	ppb		98
5) Bromomethane	5.52	96	137156	15.65	ppb		100
6) Chloroethane	5.66	64	137458	15.14	ppb		99
7) FREON 21	5.90	67	423762	19.01	ppb		99
8) Trichlorofluoromethane	6.07	101	273365	18.94	ppb		100
9) Diethyl Ether	6.41	59	162346	18.68	ppb		99
10) FREON 123A	6.36	67	236984	18.23	ppb		99
11) FREON 123	6.42	83	232763m	17.03	ppb		
12) Acrolein	6.60	56	47156	30.22	ppb		92
13) FREON 113	6.76	101	180535	18.19	ppb		89
14) 1,1-Diclethene	6.81	96	149739	17.07	ppb		94
15) Acetone	6.79	43	67947	18.53	ppb		89
16) 2-Propanol	6.85	45	211713	424.65	ppb		95
17) Iodomethane	7.07	142	264516	16.30	ppb		98
18) Carbon Disulfide	7.23	76	702039	17.36	ppb		97
19) Acetonitrile	7.14	41	98197	104.82	ppb		93
20) Allyl Chloride	7.27	41	304132	16.18	ppb		88
21) Methyl Acetate	7.21	43	113596	16.50	ppb		96
22) Methylene Chloride	7.42	84	188019	16.75	ppb		96
23) TBA	7.40	59	320252	436.65	ppb		96
24) Acrylonitrile	7.68	53	264173	84.49	ppb		93
25) Methyl-t-Butyl Ether	7.76	73	511438	19.18	ppb		98
26) trans-1,2-Dichloroethene	7.81	96	179312	17.21	ppb		96
28) 1,1-Diclethane	8.37	63	344709	18.61	ppb		99
29) Vinyl Acetate	8.32	86	32709	22.24	ppb	#	73
30) DIPE	8.36	45	660558	15.27	ppb		98
31) 2-Chloro-1,3-butadiene	8.51	53	348558	17.01	ppb		96
32) ETBE	8.85	59	580414	16.17	ppb		99
33) 2,2-Dichloropropane	9.21	77	276536	19.10	ppb		97
34) 2-Butanone	9.09	43	79469	16.63	ppb		97
35) cis-1,2-Dichloroethene	9.17	96	203689	18.24	ppb		99
36) Propionitrile	9.17	54	101707	93.05	ppb		100
37) Methacrylonitrile	9.42	67	60254	16.44	ppb	#	81

(#) = qualifier out of range (m) = manual integration
W0910.D W032315.M Tue Apr 07 12:30:29 2015

KR 4/7/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:29 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.52	128	102635	18.07	ppb		96
39)	Chloroform	9.56	83	342596	18.85	ppb		96
40)	Tetrahydrofuran	9.59	42	47655	18.55	ppb		93
41)	1,1,1-Trichloroethane	9.95	97	289102	19.80	ppb		95
43)	Cyclohexane	10.09	56	328765	18.29	ppb		98
45)	Carbontetrachloride	10.22	117	242375	20.76	ppb		93
46)	1,1-Dichloropropene	10.17	75	254075	19.06	ppb		95
47)	Iso-Butyl Alcohol	10.01	43	148727	439.67	ppb		95
49)	Benzene	10.50	78	727660	18.94	ppb		99
50)	1,2-Dichloroethane	10.45	62	262941	21.58	ppb		97
51)	TAME	10.53	73	473253	18.09	ppb		99
52)	N-Heptane	10.75	43	251899	18.33	ppb		94
53)	1-Butanol	10.97	56	230903	1294.17	ppb		95
54)	Trichloroethene	11.43	95	196209	20.06	ppb		97
55)	Methylcyclohexane	11.81	55	254009	17.94	ppb		99
56)	1,2-Diclpropane	11.78	63	201201	18.85	ppb		94
57)	Methyl Methacrylate	11.76	100	44232	20.16	ppb		85
58)	1,4-Dioxane	11.92	88	30589	469.44	ppb		90
59)	Dibromomethane	11.98	93	110086	20.12	ppb	#	87
60)	Bromodichloromethane	12.16	83	270037	20.95	ppb		96
61)	2-Nitropropane	12.46	43	113811	56.73	ppb		97
62)	2-Chloroethylvinyl Ether	12.52	63	71903	12.63	ppb		98
63)	cis-1,3-Dichloropropene	12.88	75	313565	19.47	ppb		99
65)	4-Methyl-2-Pentanone	13.04	43	167546	21.05	ppb		89
66)	Toluene	13.52	91	747004	21.21	ppb		98
67)	trans-1,3-Dichloropropene	13.76	75	268975	21.32	ppb		100
68)	Ethyl Methacrylate	13.81	69	207745	20.37	ppb		96
69)	1,1,2-Trichloroethane	14.13	83	126981	19.33	ppb		98
72)	Tetrachloroethene	14.52	166	209148	21.60	ppb		98
73)	2-Hexanone	14.46	43	114942	21.67	ppb		87
74)	1,3-Dichloropropane	14.45	76	282175	20.50	ppb		95
75)	Butyl Acetate	14.62	43	273397	20.74	ppb		97
76)	Dibromochloromethane	14.91	129	209678	22.64	ppb		88
77)	1,2-Dibromoethane	15.19	107	157637	21.31	ppb		93
78)	Chlorobenzene	16.09	112	494753	21.25	ppb		98
79)	3-CBTF	15.84	180	269273	20.50	ppb		98
80)	4-CBTF	15.94	180	238598	20.09	ppb		98
81)	1,1,1,2-Tetrachloroethane	16.19	131	191833	22.20	ppb		98
82)	Ethylbenzene	16.23	91	785026	19.95	ppb		95
83)	(m+p)Xylene	16.43	106	611107	41.90	ppb		93
84)	o-Xylene	17.23	106	301715	20.88	ppb		89
85)	Styrene	17.23	104	522060	20.80	ppb		93
86)	Bromoform	17.67	173	122113	24.16	ppb		98
87)	2-CBTF	17.66	180	247920	19.80	ppb		98
88)	Isopropylbenzene	17.92	105	789657	21.70	ppb		96
89)	Cyclohexanone	18.16	55	418596	484.62	ppb		98
91)	1,1,2,2-Tetrachloroethane	18.42	83	173366	20.47	ppb		98
92)	Trans-1,4-Dichloro-2-buten	18.53	53	35482	17.08	ppb		98
93)	1,2,3-Trichloropropane	18.58	110	52383	19.77	ppb		89
94)	n-Propylbenzene	18.74	91	943890	21.00	ppb		97

(#) = qualifier out of range (m) = manual integration
W0910.D W032315.M Tue Apr 07 12:30:30 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:29 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

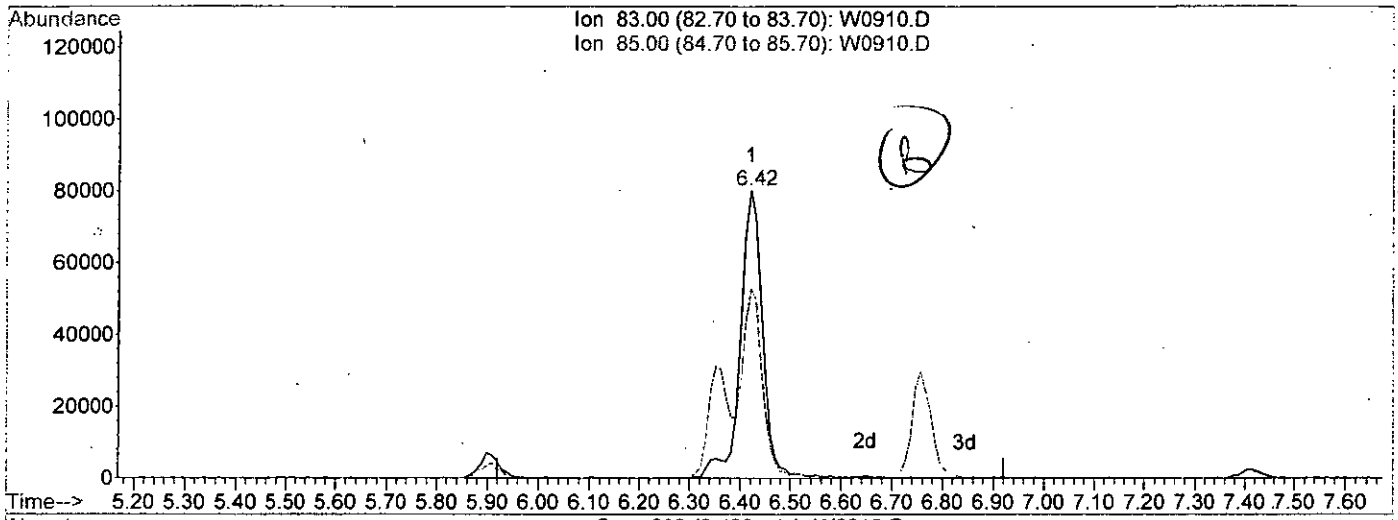
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
95)	Bromobenzene	18.65	156	204990	20.85	ppb		95
96)	1,3,5-Trimethylbenzene	19.06	105	617507	21.13	ppb		97
97)	2-Chlorotoluene	19.00	91	587848	20.63	ppb		99
98)	3-Chlorotoluene	19.09	91	568868m	20.00	ppb		
99)	4-Chlorotoluene	19.20	91	629670	21.84	ppb		98
100)	tert-Butylbenzene	19.77	119	543785	21.17	ppb		100
101)	1,2,4-Trimethylbenzene	19.85	105	636958	21.40	ppb		93
102)	3,4-DCBTF	19.91	214	192690	20.77	ppb		96
103)	sec-Butylbenzene	20.22	105	766038	21.04	ppb		100
104)	p-Isopropyltoluene	20.46	119	645228	21.28	ppb		98
105)	1,3-Dclbenz	20.51	146	375346	20.73	ppb		96
106)	1,4-Dclbenz	20.66	146	380271	20.92	ppb		95
107)	2,4-DCBTF	20.64	214	165001	20.87	ppb		99
108)	2,5-DCBTF	20.72	214	185803	20.21	ppb		98
109)	n-Butylbenzene	21.22	91	594322	20.97	ppb		98
110)	1,2-Dclbenz	21.37	146	360414	20.94	ppb		97
111)	1,2-Dibromo-3-chloropropan	22.79	157	38073	21.41	ppb		94
112)	Trielution Dichlorotoluene	23.08	125	820820	58.23	ppb	#	91
114)	1,3,5 Trichlorobenzene	23.22	180	230594	19.74	ppb		99
115)	Coelution Dichlorotoluene	23.90	125	587467	40.28	ppb		99
116)	1,2,4-Tcbenzene	24.43	180	227700	22.11	ppb		99
117)	Hexachlorobt	24.72	225	104519	25.01	ppb		98
118)	Naphthalen	24.96	128	455141	20.64	ppb		98
119)	1,2,3-Tclbenzene	25.43	180	191371	22.06	ppb		96
120)	2,4,5-Trichlorotoluene	27.01	159	123486	21.81	ppb		98
121)	2,3,6-Trichlorotoluene	27.29	159	110606	23.22	ppb		96

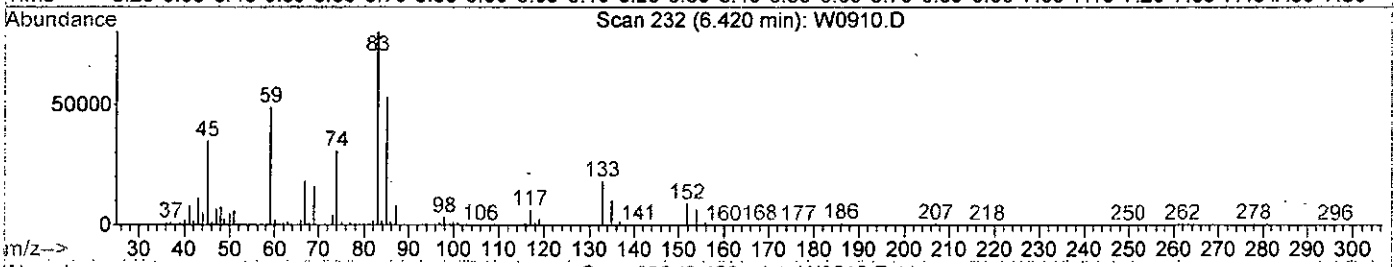
(#) = qualifier out of range (m) = manual integration
W0910.D W032315.M Tue Apr 07 12:30:30 2015

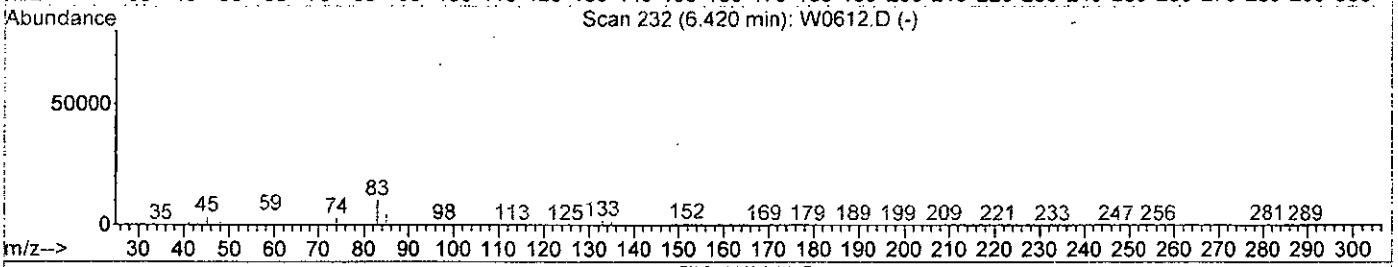
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:08 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0910.D

(11) FREON 123

6.42min 18.06ppb

response 246878

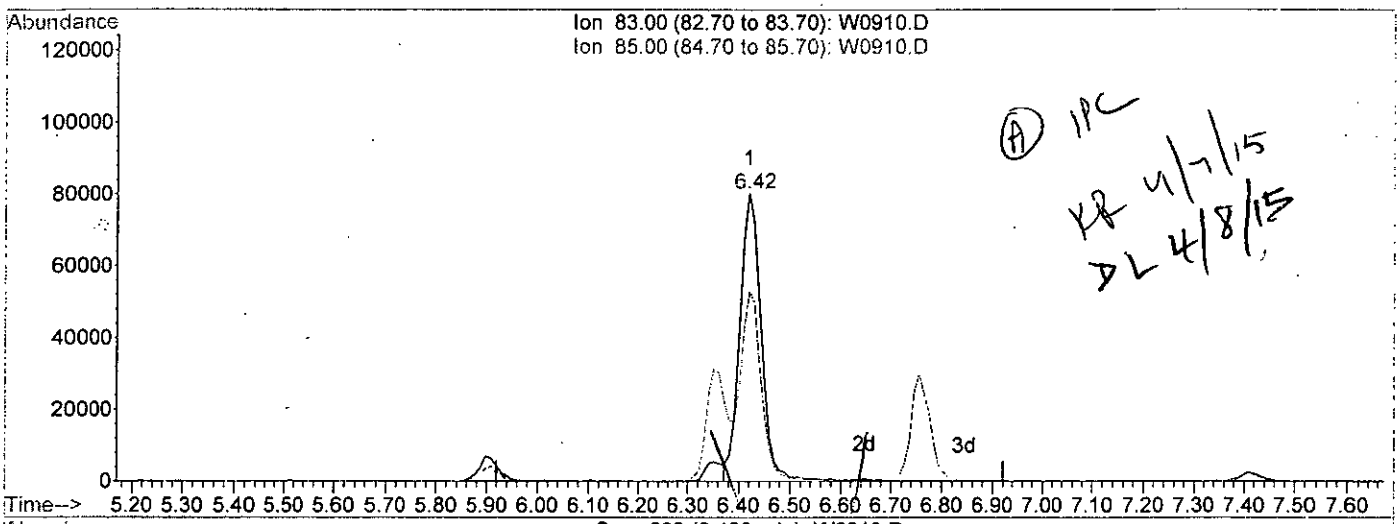
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	65.99
0.00	0.00	0.00
0.00	0.00	0.00

W0910.D W032315.M Tue Apr 07 12:23:29 2015

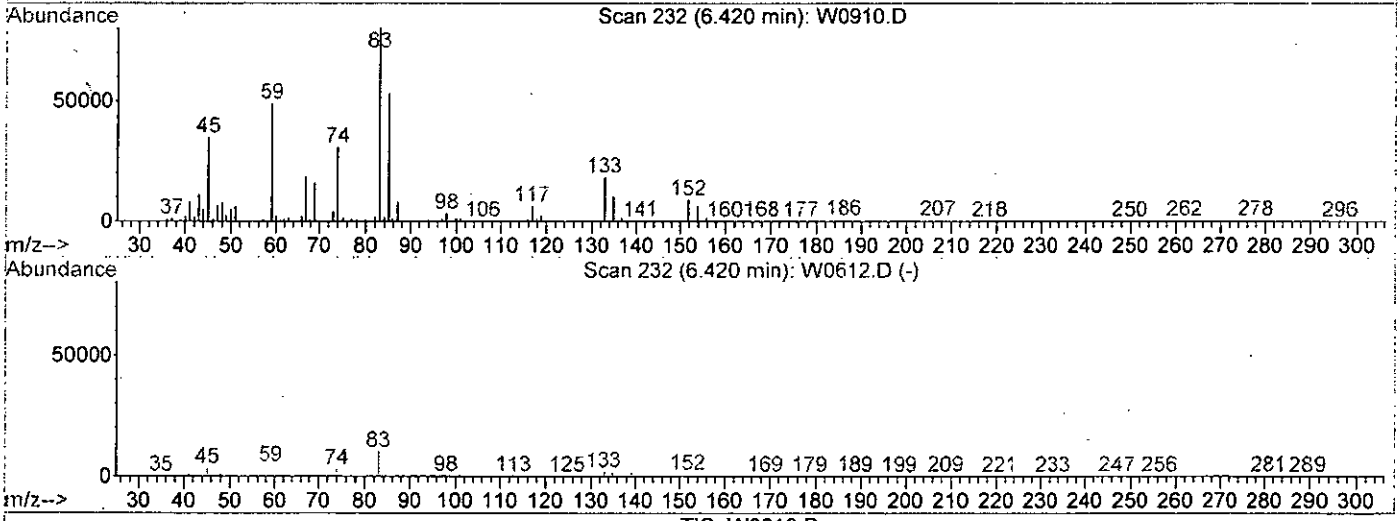
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:23 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



A IPC
KR 4/7/15
DL 4/8/15



TIC: W0910.D

(11) FREON 123

6.42min 17.03ppb m

response 232763

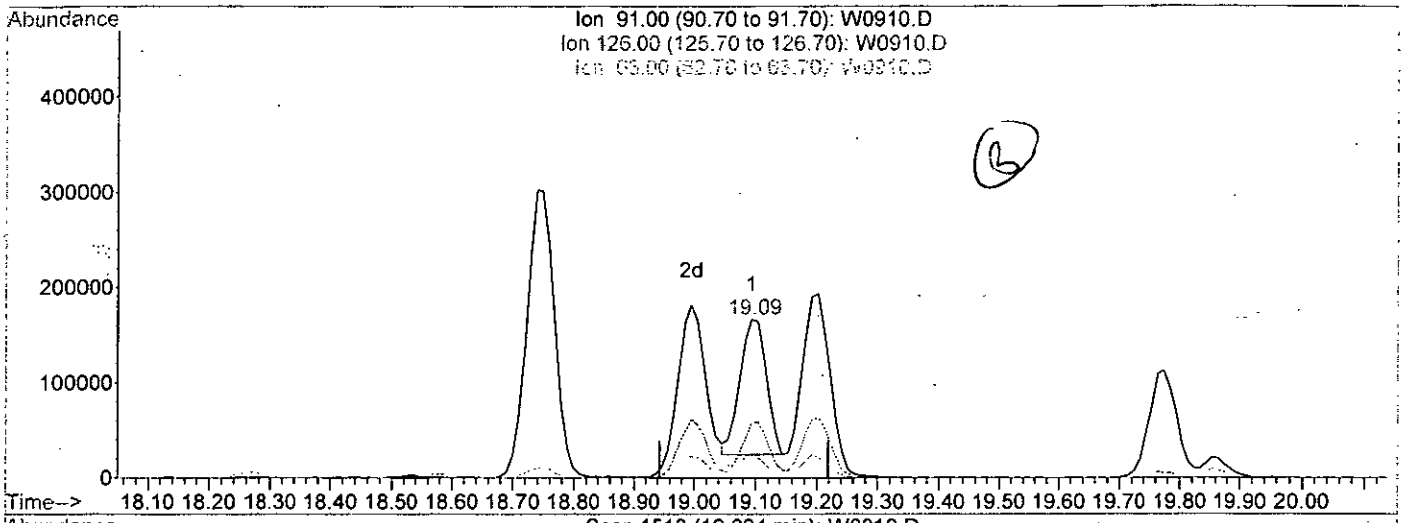
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	65.99
0.00	0.00	0.00
0.00	0.00	0.00

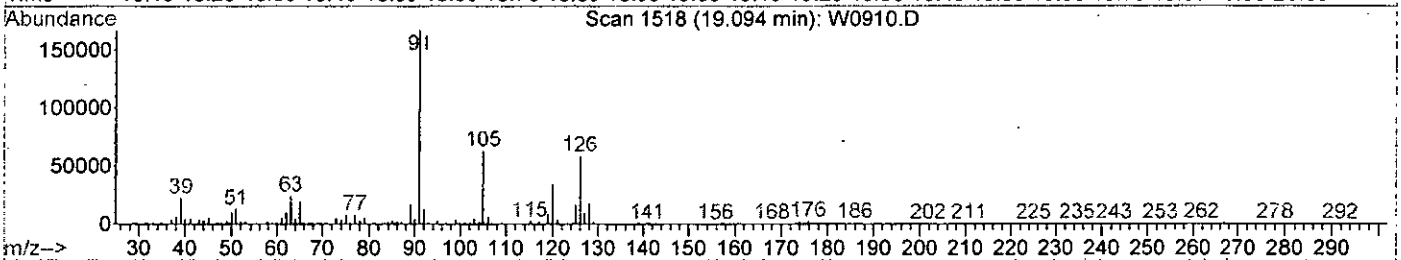
W0910.D W032315.M Tue Apr 07 12:23:38 2015

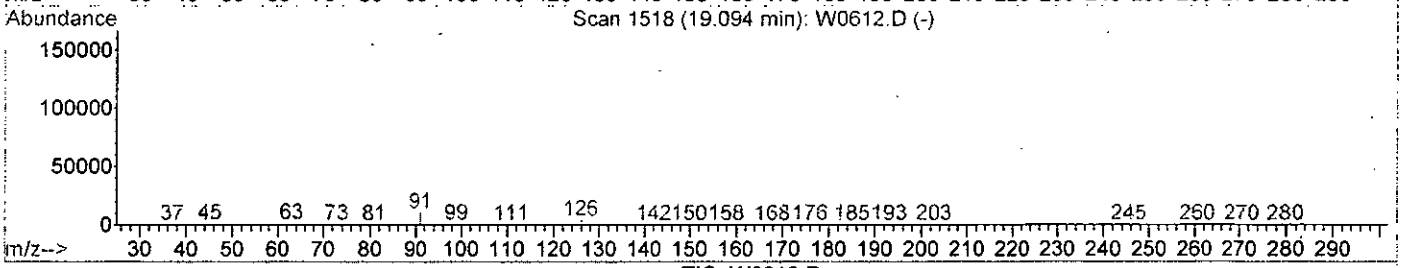
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:23 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48.2015
Response via : Multiple Level Calibration







TIC: W0910.D

(98) 3-Chlorotoluene

19.09min 14.86ppb

response 422794

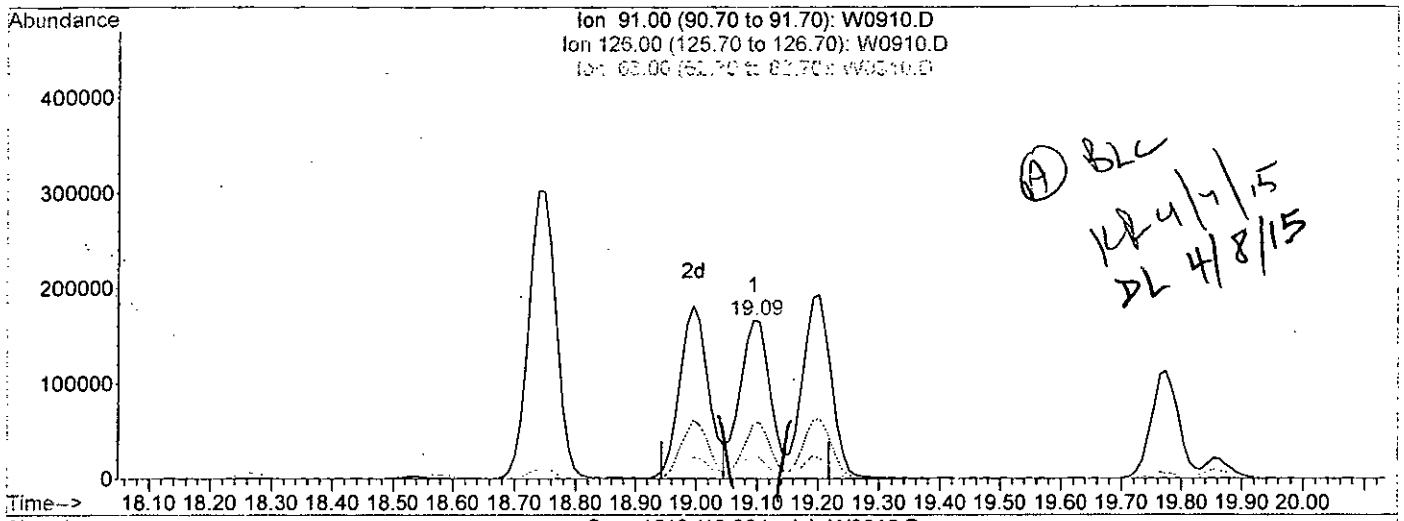
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	34.97#
63.00	12.50	16.78#
0.00	0.00	0.00

W0910.D W032315.M Tue Apr 07 12:29:51 2015

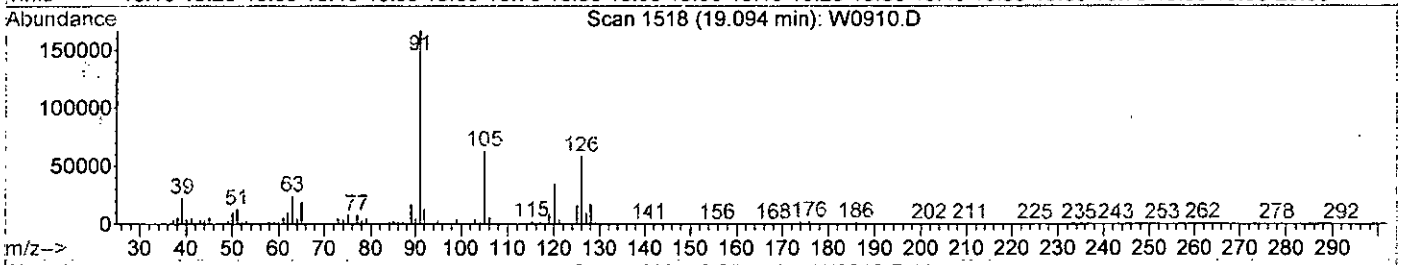
Quantitation Report (Qedit)

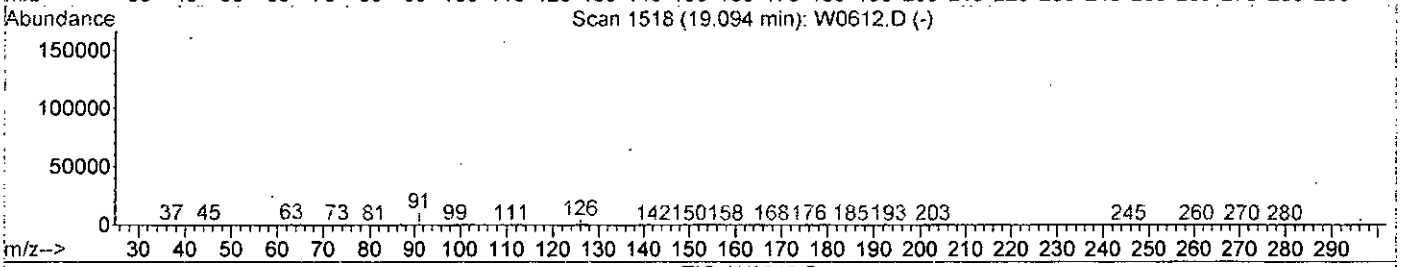
Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:29 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



A BLC 4/7/15 DL 4/8/15





TIC: W0910.D

(98) 3-Chlorotoluene

19.09min 20.00ppb m

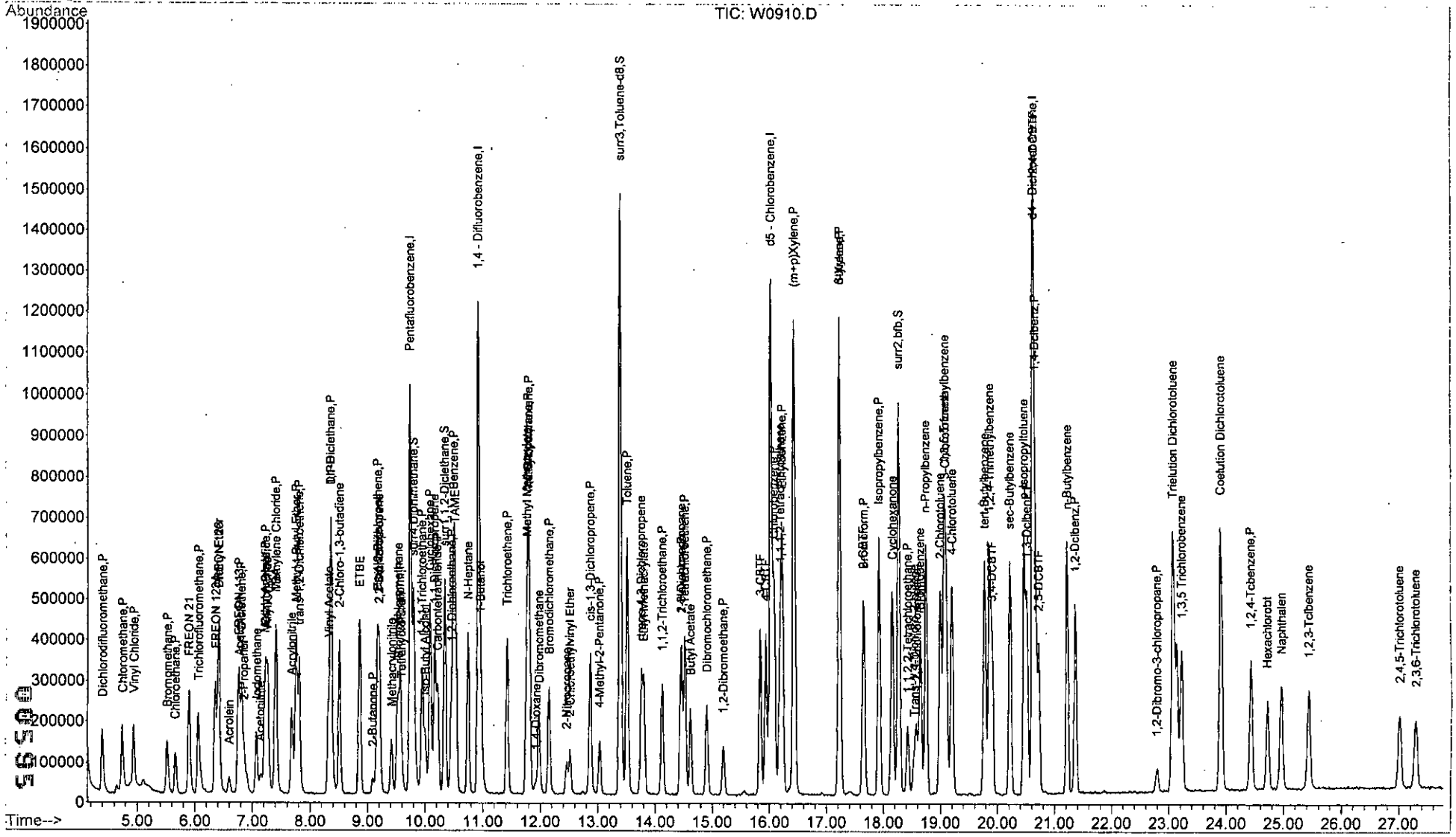
response 568868

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	25.99
63.00	12.50	12.47
0.00	0.00	0.00

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040715\W0910.D Vial: 2
Acq On : 7 Apr 2015 11:42 am Operator: K.Ruest
Sample : LCS Inst : MS #7
Misc : Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 7 12:29 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0910.D W032315.M Tue Apr 07 12:30:34 2015 Page 4

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1025
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 22:34
Sample Name:	FTMM-53-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1503200-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**55.0**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**50.2**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**51.8**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**48.4**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**43.2**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**43.2**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**47.6**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**50.7**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**50.3**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**51.0**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**51.2**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**52.1**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**52.7**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**51.1**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**52.5**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**47.3**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**49.5**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**49.9**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**51.2**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**49.8**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**42.2**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**38.3**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**50.2**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**48.0**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**1010**		100	20	11	
106-43-4	4-Chlorotoluene	**50.8**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**51.0**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**48.7**		5.0	1.0	0.67	
67-64-1	Acetone	**34.5**		5.0	5.0	1.3	
71-43-2	Benzene	**46.9**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**52.0**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**44.9**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**51.1**		5.0	1.0	0.32	
75-25-2	Bromoform	**53.0**		5.0	1.0	0.42	
74-83-9	Bromomethane	**37.2**		5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	**49.9**		5.0	1.0	0.45	

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1025
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 22:34
Sample Name:	FTMM-53-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1503200-05	**Basis:**	NA
Run Type:	Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	**51.0**		5.0	1.0	0.29	
75-00-3	Chloroethane	**40.9**		5.0	1.0	0.24	
67-66-3	Chloroform	**47.6**		5.0	1.0	0.25	
74-87-3	Chloromethane	**45.9**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**49.6**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**50.0**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**42.4**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**48.0**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**50.7**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**53.2**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**49.2**		5.0	1.0	0.29	
91-20-3	Naphthalene	**51.1**		5.0	1.0	0.20	
100-42-5	Styrene	**48.4**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**51.5**		5.0	1.0	0.30	
108-88-3	Toluene	**51.1**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**49.4**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**47.2**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**48.2**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**44.4**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**47.7**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**102**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**48.3**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**49.8**		5.0	1.0	0.20	
95-47-6	o-Xylene	**50.0**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**49.2**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**50.0**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**43.7**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**52.0**		5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	4/2/15 22:34	
Dibromofluoromethane	105	85-115	4/2/15 22:34	
Toluene-d8	111	85-120	4/2/15 22:34	

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:18 2015 RQ1503163-05 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	9.81	168	1037456	50.00	ppb		0.07
42) 1,4 - Difluorobenzene	11.00	114	1587008	50.00	ppb		0.07
64) d5 - Chlorobenzene	16.10	117	1432827	50.00	ppb		0.08
90) d4 - Dichlorobenzene	20.69	152	718048	50.00	ppb		0.08
System Monitoring Compounds							
44) surr4,Dibrflmethane	9.87	113	534147	52.28	ppb		0.07
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.56%				
48) surr1,1,2-Diclethane	10.40	65	574597	55.79	ppb		0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.58%				
70) surr3,Toluene-d8	13.47	98	1729917	55.61	ppb		0.08
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.22%				
71) surr2,bfb	18.35	95	733955	54.25	ppb		0.08
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.44	85	657605	49.96	ppb		99
3) Chloromethane	4.79	50	646776	45.85	ppb		98
4) Vinyl Chloride	4.98	62	612495	48.21	ppb		95
5) Bromomethane	5.57	96	346116	37.21	ppb		96
6) Chloroethane	5.71	64	393637	40.86	ppb		98
7) FREON 21	5.95	67	1155126	48.83	ppb		97
8) Trichlorofluoromethane	6.12	101	722305	47.15	ppb		97
9) Diethyl Ether	6.46	59	420354	45.57	ppb		94
10) FREON 123A	6.40	67	637793m	46.24	ppb		
11) FREON 123	6.47	83	625249m	43.11	ppb		
12) Acrolein	6.66	56	117702	71.09	ppb		95
13) FREON 113	6.82	101	467879	44.42	ppb		97
14) 1,1-Diclethene	6.87	96	401848	43.17	ppb		99
15) Acetone	6.84	43	134312	34.52	ppb		98
16) 2-Propanol	6.91	45	486585	919.75	ppb		99
17) Iodomethane	7.13	142	708217	41.13	ppb		98
18) Carbon Disulfide	7.29	76	1116745	26.03	ppb		96
19) Acetonitrile	7.20	41	223061	224.40	ppb		98
20) Allyl Chloride	7.32	41	700724	35.14	ppb		91
21) Methyl Acetate	7.26	43	290469	39.76	ppb		97
22) Methylene Chloride	7.47	84	504719	42.36	ppb		98
23) TBA	7.45	59	785365	1009.11	ppb		99
24) Acrylonitrile	7.74	53	705793	212.72	ppb		95
25) Methyl-t-Butyl Ether	7.82	73	1392499	49.22	ppb		99
26) trans-1,2-Dichloroethene	7.87	96	482969	43.68	ppb		95
28) 1,1-Diclethane	8.43	63	849385	43.22	ppb		96
29) Vinyl Acetate	8.38	86	71851	46.03	ppb	#	75
30) DIPE	8.41	45	1758625	38.32	ppb		94
31) 2-Chloro-1,3-butadiene	8.57	53	854091	39.29	ppb		94
32) ETBE	8.93	59	1544901	40.57	ppb		99
33) 2,2-Dichloropropane	9.27	77	648150	42.18	ppb		99
34) 2-Butanone	9.15	43	194345	38.32	ppb		99
35) cis-1,2-Dichloroethene	9.23	96	526318	44.41	ppb		95
36) Propionitrile	9.23	54	252956	218.09	ppb		95
37) Methacrylonitrile	9.48	67	160412	41.26	ppb	#	77

(#) = qualifier out of range (m) = manual integration
W0863.D W032315.M Fri Apr 03 15:19:01 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:18 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.59	128	270479	44.87	ppb		93
39)	Chloroform	9.63	83	917776	47.58	ppb		99
40)	Tetrahydrofuran	9.67	42	116246	42.65	ppb		98
41)	1,1,1-Trichloroethane	10.02	97	778390	50.23	ppb		96
43)	Cyclohexane	10.16	56	870580	45.22	ppb		96
45)	Carbontetrachloride	10.29	117	624020	49.91	ppb		97
46)	1,1-Dichloropropene	10.24	75	679998	47.64	ppb		97
47)	Iso-Butyl Alcohol	10.07	43	340921	941.24	ppb		96
49)	Benzene	10.56	78	1929344	46.89	ppb		100
50)	1,2-Dichloroethane	10.52	62	684823	52.49	ppb		99
51)	TAME	10.60	73	1308418	46.71	ppb		99
52)	N-Heptane	10.81	43	616080	41.87	ppb		100
53)	1-Butanol	11.04	56	484241	2534.72	ppb		99
54)	Trichloroethene	11.49	95	517021	49.37	ppb		97
55)	Methylcyclohexane	11.87	55	686436	45.28	ppb		95
56)	1,2-Diclpropane	11.85	63	540169	47.26	ppb		98
57)	Methyl Methacrylate	11.82	100	119429	50.84	ppb		93
58)	1,4-Dioxane	11.98	88	69361	994.13	ppb		96
59)	Dibromomethane	12.05	93	286329	48.88	ppb		89
60)	Bromodichloromethane	12.23	83	705701	51.13	ppb		100
61)	2-Nitropropane	12.53	43	279488	130.11	ppb		99
63)	cis-1,3-Dichloropropene	12.95	75	821536	47.65	ppb		98
65)	4-Methyl-2-Pentanone	13.10	43	425862	48.72	ppb		99
66)	Toluene	13.59	91	1975119	51.08	ppb		96
67)	trans-1,3-Dichloropropene	13.83	75	720058	51.99	ppb		96
68)	Ethyl Methacrylate	13.87	69	574745	51.32	ppb		99
69)	1,1,2-Trichloroethane	14.20	83	349231	48.42	ppb		100
72)	Tetrachloroethene	14.59	166	547333	51.48	ppb		99
73)	2-Hexanone	14.53	43	279292	47.96	ppb		95
74)	1,3-Dichloropropane	14.53	76	773818	51.21	ppb		97
75)	Butyl Acetate	14.69	43	675376	46.67	ppb		99
76)	Dibromochloromethane	14.98	129	504442	49.60	ppb		95
77)	1,2-Dibromoethane	15.27	107	427980	52.71	ppb		98
78)	Chlorobenzene	16.16	112	1304762	51.04	ppb		98
79)	3-CBTF	15.91	180	753502	52.26	ppb		98
80)	4-CBTF	16.02	180	660044	50.63	ppb		98
81)	1,1,1,2-Tetrachloroethane	16.26	131	521442	54.97	ppb		99
82)	Ethylbenzene	16.30	91	2072046	47.95	ppb		97
83)	(m+p)Xylene	16.50	106	1632291	101.93	ppb		92
84)	o-Xylene	17.30	106	792844	49.97	ppb		93
85)	Styrene	17.31	104	1334337	48.42	ppb		93
86)	Bromoform	17.74	173	294232	53.02	ppb		98
87)	2-CBTF	17.73	180	703542	51.18	ppb		98
88)	Isopropylbenzene	18.00	105	2123523	53.16	ppb		98
89)	Cyclohexanone	18.23	55	239754	252.81	ppb		94
91)	1,1,2,2-Tetrachloroethane	18.51	83	487522	51.83	ppb		99
92)	Trans-1,4-Dichloro-2-buten	18.60	53	83389	36.15	ppb	#	73
93)	1,2,3-Trichloropropane	18.65	110	148026	50.30	ppb		100
94)	n-Propylbenzene	18.82	91	2486234	49.80	ppb		98
95)	Bromobenzene	18.73	156	567188	51.95	ppb		97

(#) = qualifier out of range (m) = manual integration
W0863.D W032315.M Fri Apr 03 15:19:02 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:18 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

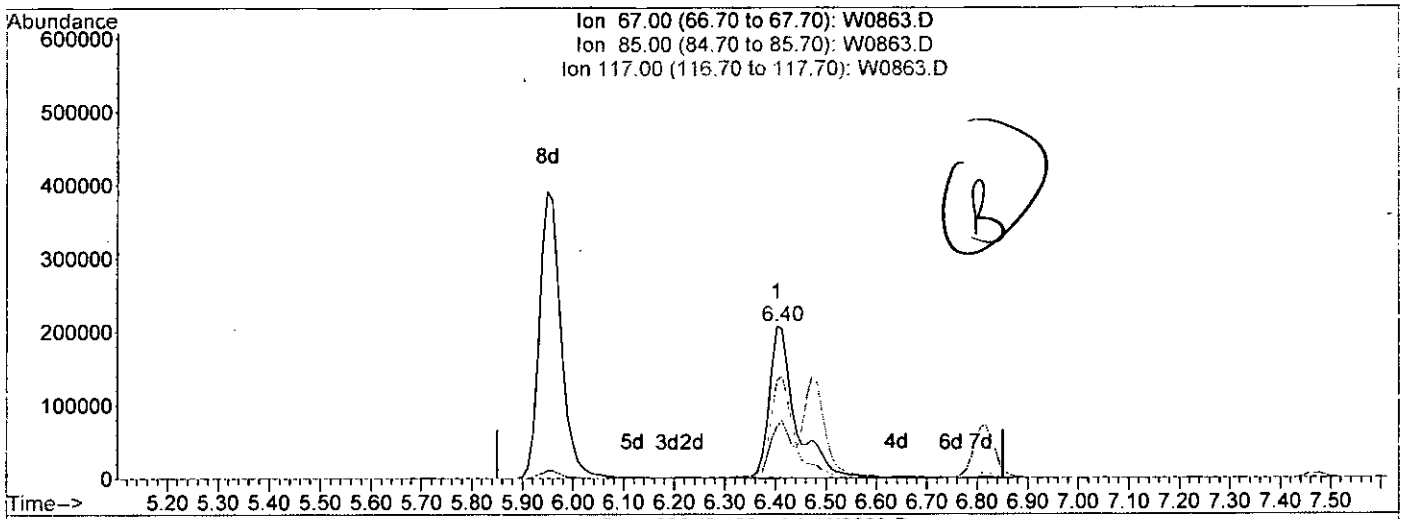
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
96)	1,3,5-Trimethylbenzene	19.15	105	1607633	49.54 ppb	95
97)	2-Chlorotoluene	19.08	91	1587259	50.15 ppb	99
98)	3-Chlorotoluene	19.18	91	1578596m	49.97 ppb	
99)	4-Chlorotoluene	19.27	91	1627051	50.82 ppb	98
100)	tert-Butylbenzene	19.86	119	1426859	50.01 ppb	98
101)	1,2,4-Trimethylbenzene	19.93	105	1692703	51.21 ppb	96
102)	3,4-DCBTF	19.98	214	507577	49.26 ppb	98
103)	sec-Butylbenzene	20.30	105	1990200	49.22 ppb	99
104)	p-Isopropyltoluene	20.54	119	1717308	50.98 ppb	99
105)	1,3-Dclbenz	20.58	146	1003208	49.88 ppb	99
106)	1,4-Dclbenz	20.74	146	1004768	49.76 ppb	97
107)	2,4-DCBTF	20.71	214	445317	50.72 ppb	98
108)	2,5-DCBTF	20.79	214	508223	49.76 ppb	98
109)	n-Butylbenzene	21.28	91	1520420	48.29 ppb	97
110)	1,2-Dclbenz	21.43	146	975881	51.05 ppb	99
111)	1,2-Dibromo-3-chloropropan	22.87	157	102824	52.07 ppb	97
112)	Trielution Dichlorotoluene	23.16	125	2242286	143.22 ppb	98
114)	1,3,5 Trichlorobenzene	23.30	180	632681	48.76 ppb	99
115)	Coelution Dichlorotoluene	23.98	125	1578208	97.42 ppb	99
116)	1,2,4-Tcbenzene	24.52	180	583850	51.04 ppb	99
117)	Hexachlorobt	24.80	225	235350	50.70 ppb	98
118)	Naphthalen	25.04	128	1252395	51.13 ppb	98
119)	1,2,3-Tclbenzene	25.52	180	488911	50.74 ppb	97
120)	2,4,5-Trichlorotoluene	27.11	159	271556	43.17 ppb	98
121)	2,3,6-Trichlorotoluene	27.39	159	239919	45.34 ppb	99

(#) = qualifier out of range (m) = manual integration
W0863.D W032315.M Fri Apr 03 15:19:03 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 23:00 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0863.D

(10) FREON 123A

6.40min 54.85ppb

response 756583

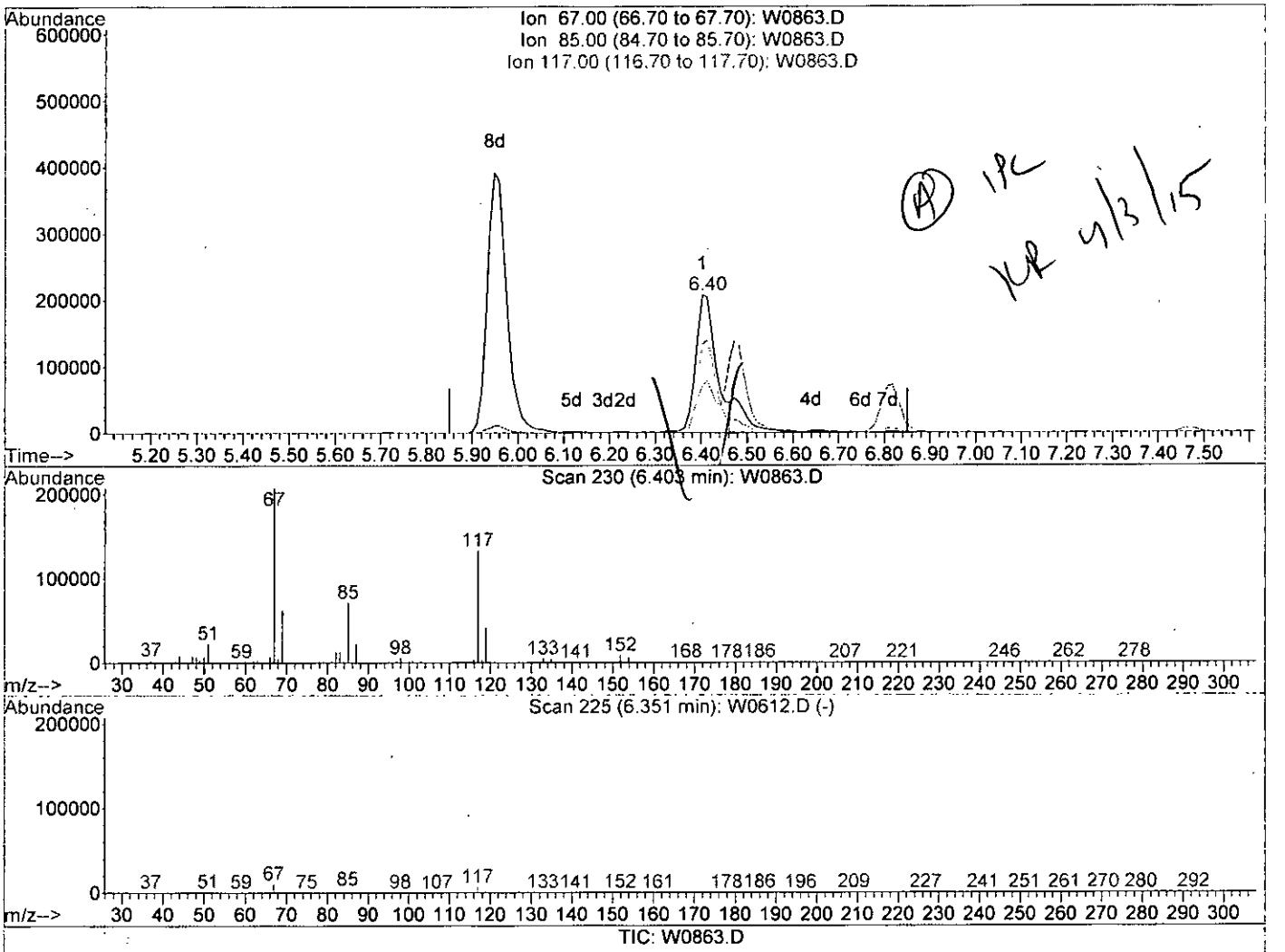
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	34.25
117.00	65.00	64.17
0.00	0.00	0.00

W0863.D W032315.M Fri Apr 03 15:15:41 2015

00601

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:15 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0863.D

(10) FREON 123A

6.40min 46.24ppb m

response 637793

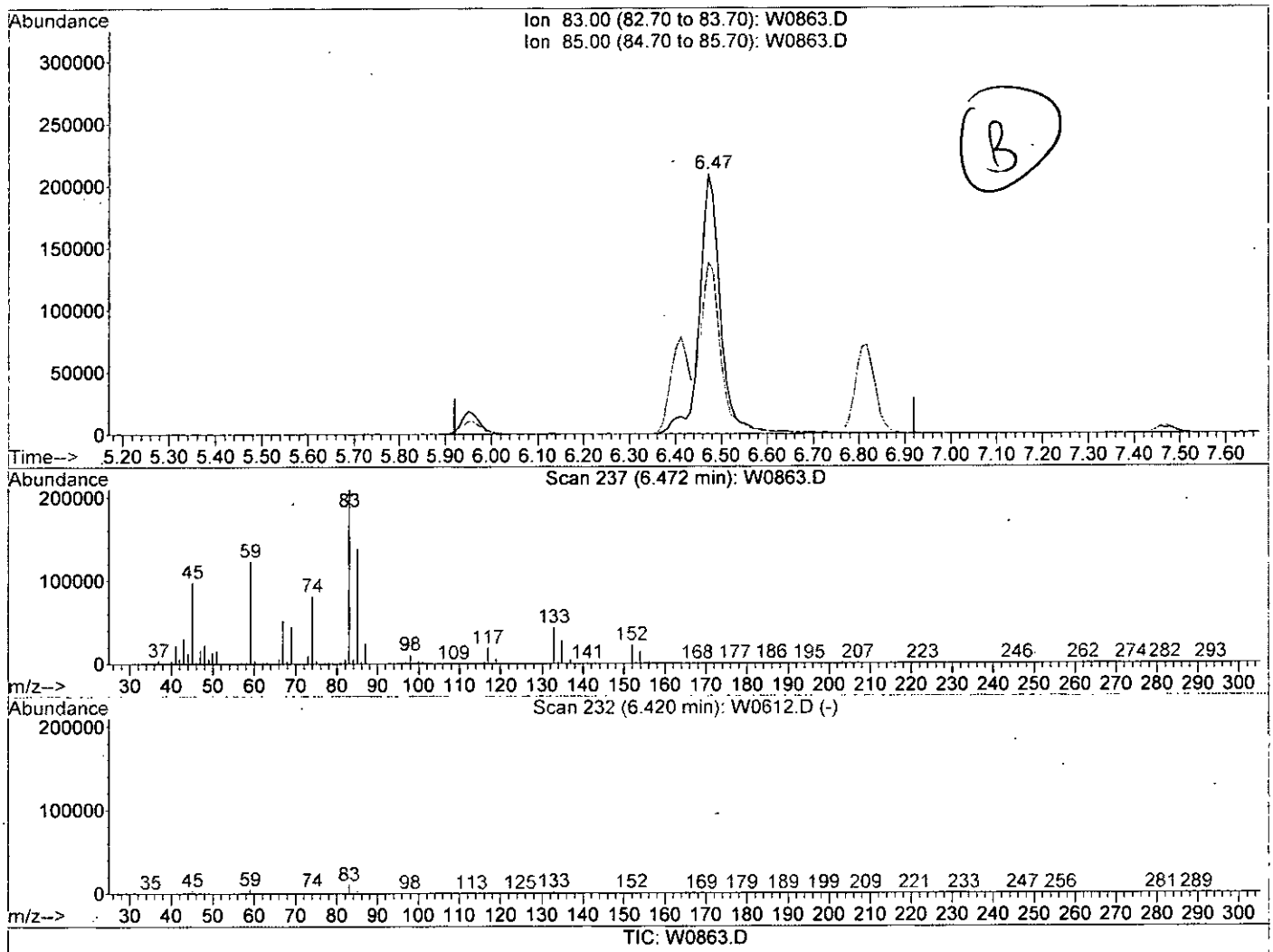
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	34.25
117.00	65.00	64.17
0.00	0.00	0.00

W0863.D W032315.M Fri Apr 03 15:15:51 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:15 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0863.D

(11) FREON 123

6.47min 45.18ppb

response 655253

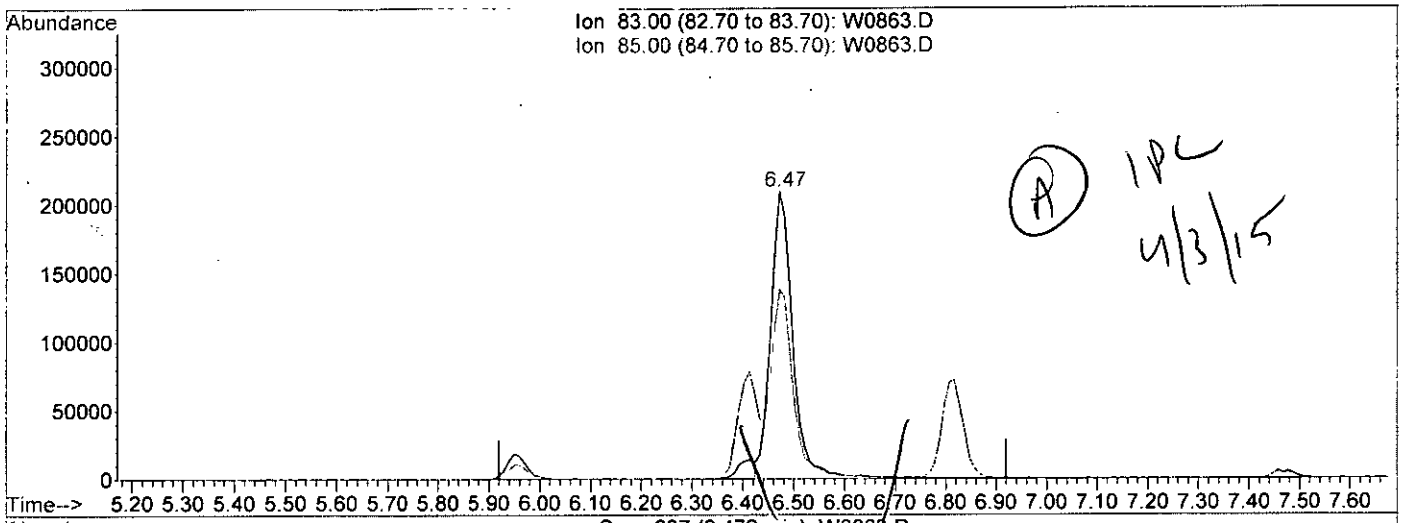
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	65.88
0.00	0.00	0.00
0.00	0.00	0.00

W0863.D W032315.M Fri Apr 03 15:16:07 2015

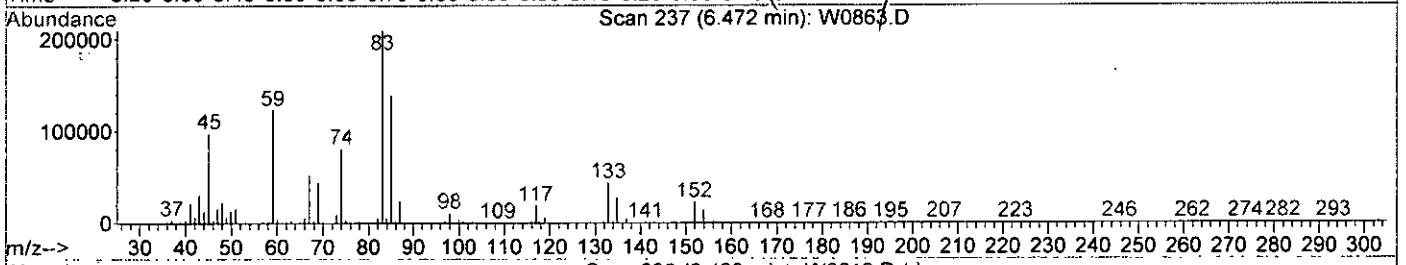
Quantitation Report (Qedit)

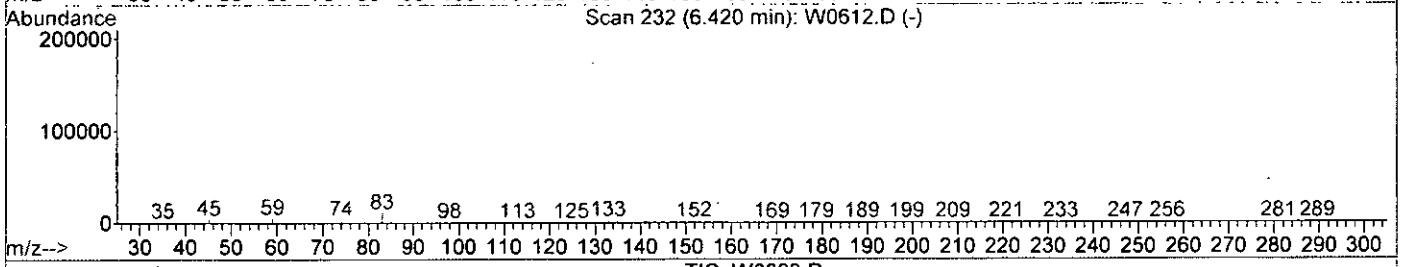
Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:16 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



A IPL 4/3/15





TIC: W0863.D

(11) FREON 123

6.47min 43.11ppb m

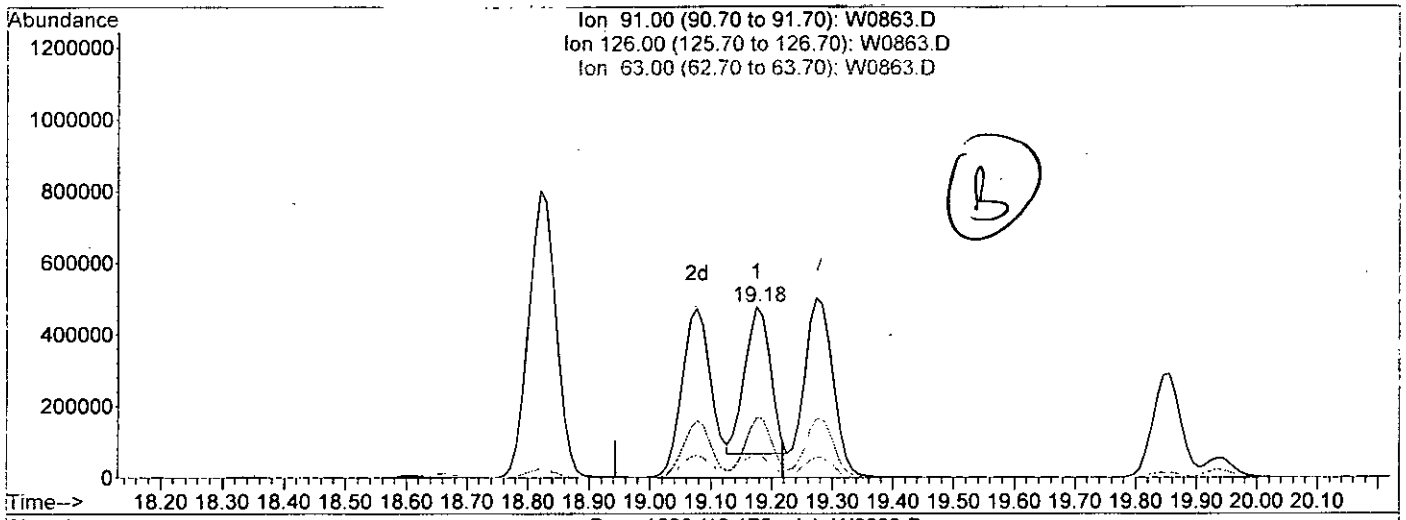
response 625249

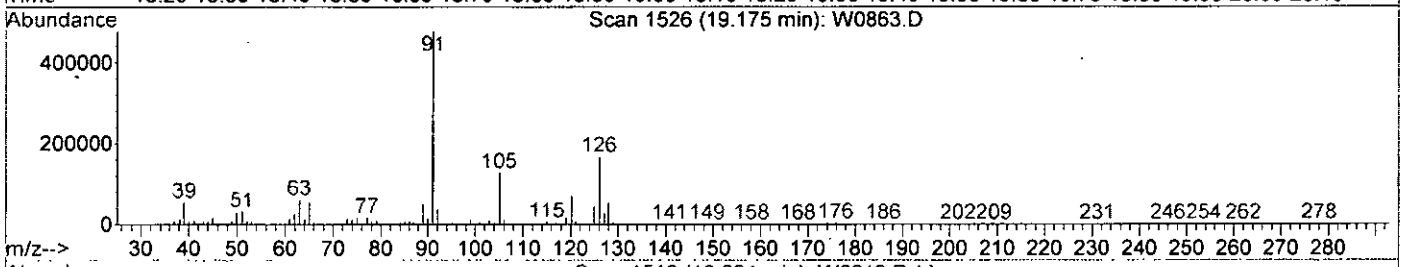
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	65.88
0.00	0.00	0.00
0.00	0.00	0.00

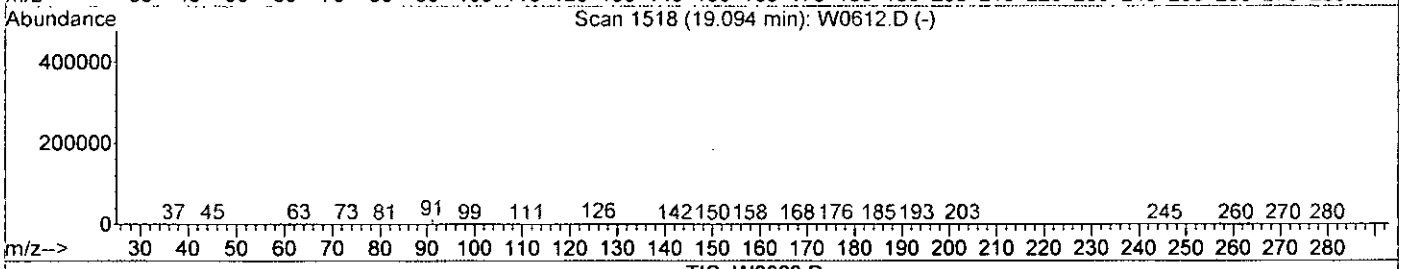
W0863.D W032315.M Fri Apr 03 15:16:20 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:16 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0863.D

(98) 3-Chlorotoluene

19.18min 37.46ppb

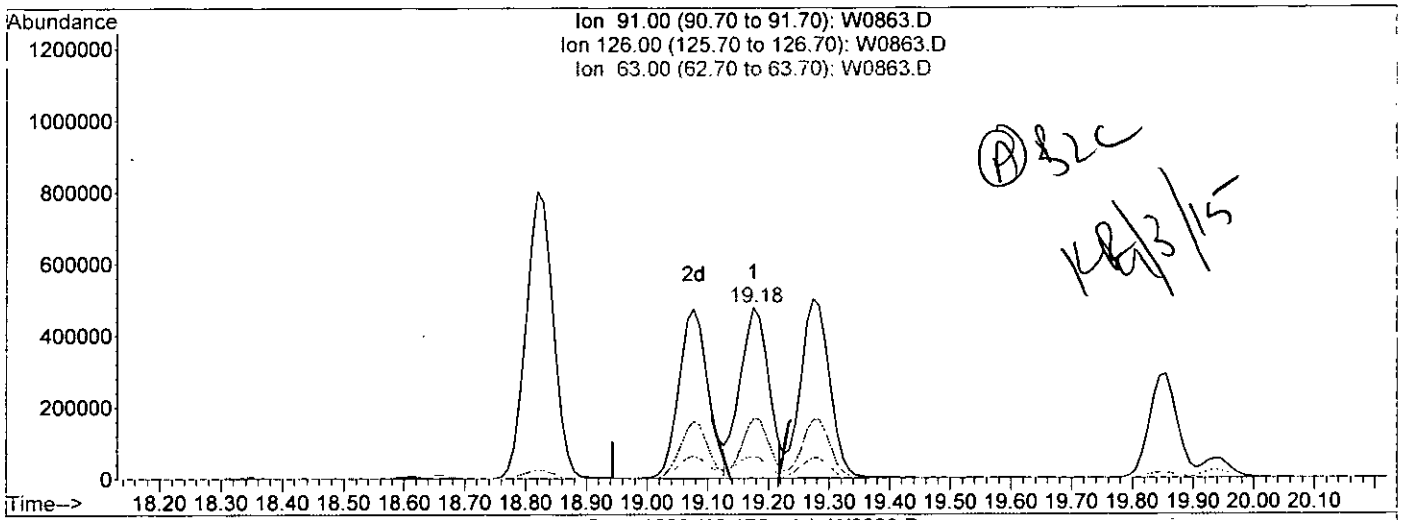
response 1183466

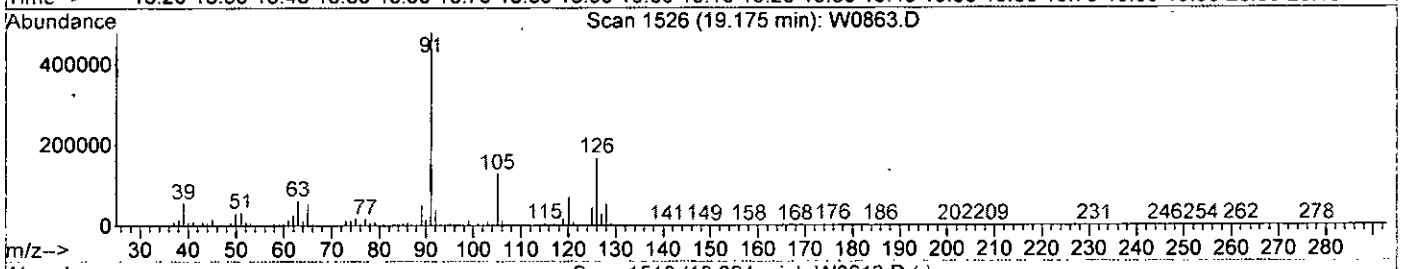
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	34.78#
63.00	12.50	15.90#
0.00	0.00	0.00

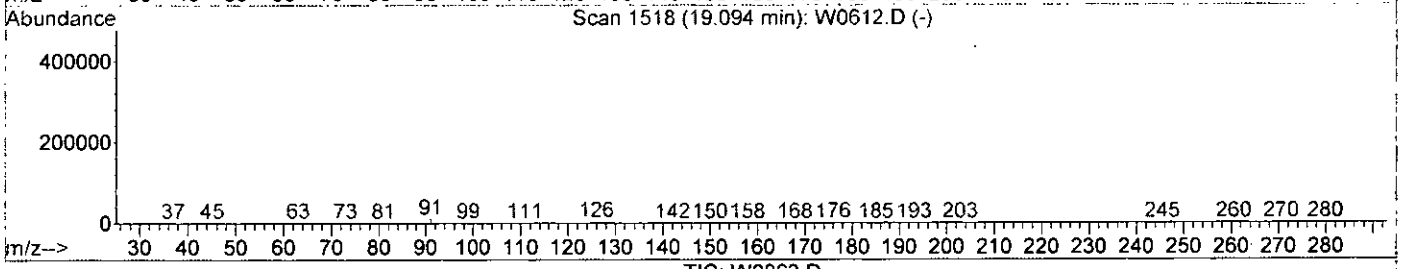
W0863.D W032315.M Fri Apr 03 15:18:29 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:18 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0863.D

(98) 3-Chlorotoluene

19.18min 49.97ppb m

response 1578596

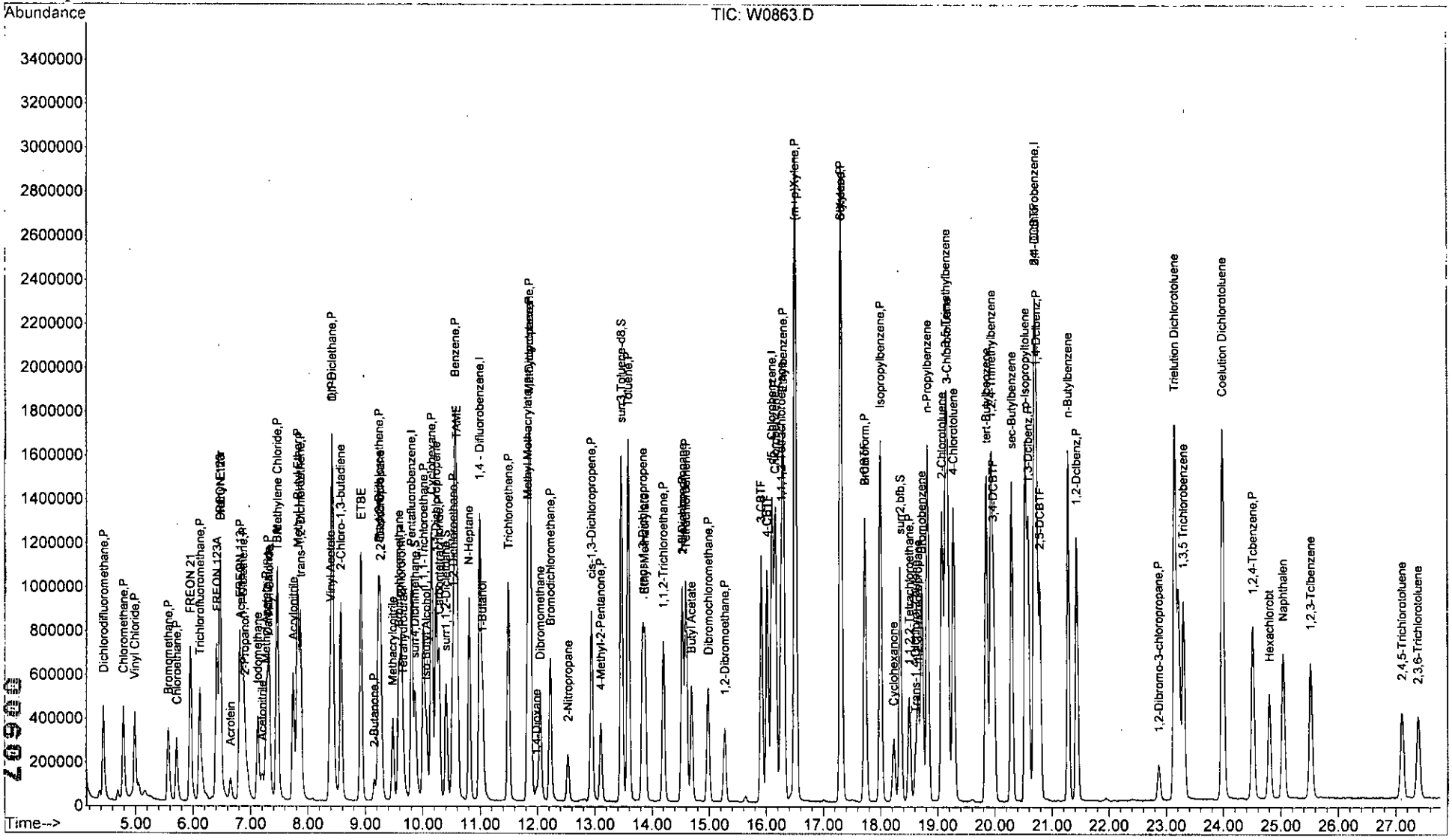
Ion	Exp%	Act%
91.00	100	100
126.00	27.40	26.07
63.00	12.50	11.92
0.00	0.00	0.00

W0863.D W032315.M Fri Apr 03 15:18:39 2015

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0863.D Vial: 22
Acq On : 2 Apr 2015 10:34 pm Operator: K.Ruest
Sample : R1502204-008MS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:18 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0863.D W032315.M Fri Apr 03 15:19:07 2015 Page 4

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1025
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 23:09
Sample Name:	FTMM-53-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1503200-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
630-20-6	1,1,1,2-Tetrachloroethane	**53.7**		5.0	1.0	0.22	
71-55-6	1,1,1-Trichloroethane (TCA)	**49.3**		5.0	1.0	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	**51.6**		5.0	1.0	0.25	
79-00-5	1,1,2-Trichloroethane	**48.4**		5.0	1.0	0.34	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**45.6**		5.0	1.0	0.20	
75-35-4	1,1-Dichloroethene (1,1-DCE)	**43.2**		5.0	1.0	0.57	
563-58-6	1,1-Dichloropropene	**47.8**		5.0	1.0	0.29	
87-61-6	1,2,3-Trichlorobenzene	**50.7**		5.0	1.0	0.82	
96-18-4	1,2,3-Trichloropropane	**49.2**		5.0	1.0	0.70	
120-82-1	1,2,4-Trichlorobenzene	**50.8**		5.0	1.0	0.23	
95-63-6	1,2,4-Trimethylbenzene	**46.3**		5.0	1.0	0.20	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	**52.2**		5.0	1.0	0.74	
106-93-4	1,2-Dibromoethane	**52.6**		5.0	1.0	0.24	
95-50-1	1,2-Dichlorobenzene	**49.5**		5.0	1.0	0.21	
107-06-2	1,2-Dichloroethane	**53.0**		5.0	1.0	0.36	
78-87-5	1,2-Dichloropropane	**47.6**		5.0	1.0	0.20	
108-67-8	1,3,5-Trimethylbenzene	**43.8**		5.0	1.0	0.20	
541-73-1	1,3-Dichlorobenzene	**48.8**		5.0	1.0	0.20	
142-28-9	1,3-Dichloropropane	**51.0**		5.0	1.0	0.27	
106-46-7	1,4-Dichlorobenzene	**49.1**		5.0	1.0	0.20	
594-20-7	2,2-Dichloropropane	**41.2**		5.0	1.0	0.27	
78-93-3	2-Butanone (MEK)	**42.5**		5.0	1.0	0.81	
95-49-8	2-Chlorotoluene	**48.7**		5.0	1.0	0.20	
591-78-6	2-Hexanone	**50.9**		5.0	5.0	1.7	
75-65-0	tert-Butyl Alcohol	**1120**		100	20	11	
106-43-4	4-Chlorotoluene	**49.7**		5.0	1.0	0.24	
99-87-6	p-Isopropyltoluene	**48.4**		5.0	1.0	0.20	
108-10-1	4-Methyl-2-pentanone	**51.5**		5.0	1.0	0.67	
67-64-1	Acetone	**37.7**		5.0	5.0	1.3	
71-43-2	Benzene	**46.3**		5.0	1.0	0.20	
108-86-1	Bromobenzene	**51.1**		5.0	1.0	0.28	
74-97-5	Bromochloromethane	**44.8**		5.0	1.0	0.32	
75-27-4	Bromodichloromethane	**50.6**		5.0	1.0	0.32	
75-25-2	Bromoform	**52.5**		5.0	1.0	0.42	
74-83-9	Bromomethane	**38.3**		5.0	1.0	0.29	
56-23-5	Carbon Tetrachloride	**49.2**		5.0	1.0	0.45	

ALS Group USA, Corp. dba ALS Environmental
Analytical Report

Client:	Parsons Engineering Science	**Service Request:**	R1502204
Project:	FTMM 2015 Q1 GW Sampling/748810-03000	**Date Collected:**	3/30/15 1025
Sample Matrix:	Water	**Date Received:**	3/31/15
		Date Analyzed:	4/2/15 23:09
Sample Name:	FTMM-53-699MW06-10.2	**Units:**	µg/L
Lab Code:	RQ1503200-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Volatile Organic Compounds by GC/MS

Analytical Method:	8260C	**Analysis Lot:**	438870
Data File Name:	I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D\	**Instrument Name:**	R-MS-07
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	LOQ	LOD	MDL	Note
108-90-7	Chlorobenzene	**50.4**		5.0	1.0	0.29	
75-00-3	Chloroethane	**39.8**		5.0	1.0	0.24	
67-66-3	Chloroform	**46.4**		5.0	1.0	0.25	
74-87-3	Chloromethane	**44.1**		5.0	1.0	0.21	
124-48-1	Dibromochloromethane	**49.0**		5.0	1.0	0.31	
75-71-8	Dichlorodifluoromethane (CFC 12)	**49.0**		5.0	1.0	0.46	
75-09-2	Methylene Chloride	**41.4**		5.0	1.0	0.60	
100-41-4	Ethylbenzene	**46.9**		5.0	1.0	0.20	
87-68-3	Hexachlorobutadiene	**49.2**		5.0	1.0	0.62	
98-82-8	Isopropylbenzene (Cumene)	**51.2**		5.0	1.0	0.20	
1634-04-4	Methyl tert-Butyl Ether	**48.8**		5.0	1.0	0.29	
91-20-3	Naphthalene	**50.6**		5.0	1.0	0.20	
100-42-5	Styrene	**43.3**		5.0	1.0	0.20	
127-18-4	Tetrachloroethene (PCE)	**51.2**		5.0	1.0	0.30	
108-88-3	Toluene	**49.7**		5.0	1.0	0.20	
79-01-6	Trichloroethene (TCE)	**47.4**		5.0	1.0	0.22	
75-69-4	Trichlorofluoromethane (CFC 11)	**46.9**		5.0	1.0	0.20	
75-01-4	Vinyl Chloride	**48.2**		5.0	1.0	0.32	
156-59-2	cis-1,2-Dichloroethene	**44.1**		5.0	1.0	0.30	
10061-01-5	cis-1,3-Dichloropropene	**47.1**		5.0	1.0	0.24	
179601-23-1	m,p-Xylenes	**97.6**		10	2.0	0.33	
104-51-8	n-Butylbenzene	**47.3**		5.0	1.0	0.21	
103-65-1	n-Propylbenzene	**48.0**		5.0	1.0	0.20	
95-47-6	o-Xylene	**48.3**		5.0	1.0	0.20	
135-98-8	sec-Butylbenzene	**47.8**		5.0	1.0	0.27	
98-06-6	tert-Butylbenzene	**48.6**		5.0	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	**42.7**		5.0	1.0	0.33	
10061-02-6	trans-1,3-Dichloropropene	**50.6**		5.0	1.0	0.20	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	75-120	4/2/15 23:09	
Dibromofluoromethane	104	85-115	4/2/15 23:09	
Toluene-d8	111	85-120	4/2/15 23:09	

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:21 2015 Quant Results File: W032315.RES

RQ1503163-06

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.80	168	1042538	50.00	ppb	0.06
42) 1,4 - Difluorobenzene	10.99	114	1591793	50.00	ppb	0.07
64) d5 - Chlorobenzene	16.10	117	1443313	50.00	ppb	0.08
90) d4 - Dichlorobenzene	20.69	152	731081	50.00	ppb	0.08
System Monitoring Compounds						
44) surr4,Dibrflmethane	9.86	113	532221	51.94	ppb	0.06
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.88%			
48) surr1,1,2-Diclethane	10.40	65	569960	55.17	ppb	0.07
Spiked Amount 50.000	Range 80 - 120		Recovery = 110.34%			
70) surr3,Toluene-d8	13.47	98	1738188	55.47	ppb	0.08
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.94%			
71) surr2,bfb	18.35	95	738275	54.18	ppb	0.08
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.44	85	647756	48.97	ppb	98
3) Chloromethane	4.79	50	625103	44.10	ppb	97
4) Vinyl Chloride	4.98	62	614746	48.15	ppb	100
5) Bromomethane	5.56	96	357638	38.27	ppb	96
6) Chloroethane	5.71	64	385341	39.81	ppb	94
7) FREON 21	5.95	67	1173609	49.37	ppb	100
8) Trichlorofluoromethane	6.12	101	721627	46.88	ppb	99
9) Diethyl Ether	6.46	59	418586	45.16	ppb	94
10) FREON 123A	6.40	67	620265m	44.75	ppb	
11) FREON 123	6.47	83	622471m	42.71	ppb	
12) Acrolein	6.65	56	119172	71.63	ppb	87
13) FREON 113	6.82	101	464726	43.90	ppb	99
14) 1,1-Diclethene	6.86	96	404437	43.23	ppb	95
15) Acetone	6.84	43	147368	37.69	ppb	93
16) 2-Propanol	6.90	45	566780	1066.11	ppb	99
17) Iodomethane	7.12	142	736647	42.57	ppb	99
18) Carbon Disulfide	7.28	76	1146125	26.58	ppb	99
19) Acetonitrile	7.20	41	241315	241.58	ppb	93
20) Allyl Chloride	7.32	41	670918	33.48	ppb	88
21) Methyl Acetate	7.26	43	297016	40.46	ppb	94
22) Methylene Chloride	7.47	84	495896	41.42	ppb	99
23) TBA	7.46	59	879840	1124.99	ppb	97
24) Acrylonitrile	7.74	53	725336	217.55	ppb	94
25) Methyl-t-Butyl Ether	7.82	73	1387008	48.79	ppb	99
26) trans-1,2-Dichloroethene	7.87	96	474598	42.71	ppb	97
28) 1,1-Diclethane	8.43	63	901073	45.63	ppb	96
29) Vinyl Acetate	8.38	86	72484	46.21	ppb #	72
30) DIPE	8.41	45	1775514	38.49	ppb	95
31) 2-Chloro-1,3-butadiene	8.57	53	843958	38.64	ppb	97
32) ETBE	8.92	59	1572138	41.08	ppb	99
33) 2,2-Dichloropropane	9.27	77	635322	41.15	ppb	98
34) 2-Butanone	9.15	43	216690	42.51	ppb	93
35) cis-1,2-Dichloroethene	9.23	96	524868	44.07	ppb	96
36) Propionitrile	9.23	54	270262	231.88	ppb	93
37) Methacrylonitrile	9.48	67	167304	42.82	ppb #	77

(#) = qualifier out of range (m) = manual integration
W0864.D W032315.M Fri Apr 03 15:21:38 2015

KR 4/3/15

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:21 2015 Quant Results File: W032315.RES

Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	Bromochloromethane	9.58	128	271552	44.83	ppb		99
39)	Chloroform	9.62	83	898858	46.37	ppb		98
40)	Tetrahydrofuran	9.65	42	122749	44.81	ppb		89
41)	1,1,1-Trichloroethane	10.01	97	767653	49.30	ppb		98
43)	Cyclohexane	10.16	56	881694	45.66	ppb		95
45)	Carbontetrachloride	10.28	117	616649	49.18	ppb		98
46)	1,1-Dichloropropene	10.24	75	683821	47.76	ppb		99
47)	Iso-Butyl Alcohol	10.06	43	376070	1035.16	ppb		97
49)	Benzene	10.56	78	1912584	46.34	ppb		99
50)	1,2-Dichloroethane	10.52	62	692845	52.95	ppb		99
51)	TAME	10.60	73	1323950	47.13	ppb		98
52)	N-Heptane	10.81	43	601311	40.75	ppb		97
53)	1-Butanol	11.04	56	561563	2930.62	ppb		100
54)	Trichloroethene	11.50	95	497982	47.41	ppb		97
55)	Methylcyclohexane	11.87	55	679554	44.69	ppb		99
56)	1,2-Diclpropane	11.84	63	546098	47.64	ppb		94
57)	Methyl Methacrylate	11.83	100	118817	50.43	ppb		98
58)	1,4-Dioxane	11.99	88	78123	1116.34	ppb		100
59)	Dibromomethane	12.05	93	291703	49.65	ppb		92
60)	Bromodichloromethane	12.23	83	701003	50.63	ppb		99
61)	2-Nitropropane	12.52	43	292459	135.74	ppb		99
62)	2-Chloroethylvinyl Ether	12.53	63	1480	0.24	ppb		64
63)	cis-1,3-Dichloropropene	12.95	75	814685	47.11	ppb		97
65)	4-Methyl-2-Pentanone	13.10	43	453109	51.46	ppb		100
66)	Toluene	13.59	91	1935976	49.70	ppb		100
67)	trans-1,3-Dichloropropene	13.83	75	706370	50.63	ppb		99
68)	Ethyl Methacrylate	13.88	69	574309	50.91	ppb		97
69)	1,1,2-Trichloroethane	14.20	83	351498	48.38	ppb		97
72)	Tetrachloroethene	14.59	166	548662	51.23	ppb		97
73)	2-Hexanone	14.53	43	298378	50.87	ppb		89
74)	1,3-Dichloropropane	14.52	76	776212	50.99	ppb		100
75)	Butyl Acetate	14.69	43	688425	47.22	ppb		99
76)	Dibromochloromethane	14.98	129	501717	48.97	ppb		99
77)	1,2-Dibromoethane	15.27	107	430115	52.58	ppb		95
78)	Chlorobenzene	16.16	112	1296352	50.35	ppb		99
79)	3-CBTF	15.91	180	728651	50.17	ppb		96
80)	4-CBTF	16.01	180	661548	50.37	ppb		99
81)	1,1,1,2-Tetrachloroethane	16.26	131	512982	53.69	ppb		97
82)	Ethylbenzene	16.30	91	2040701	46.88	ppb		96
83)	(m+p)Xylene	16.50	106	1574852	97.63	ppb		96
84)	o-Xylene	17.30	106	771934	48.30	ppb		91
85)	Styrene	17.30	104	1200911	43.26	ppb		93
86)	Bromoform	17.74	173	293668	52.54	ppb		98
87)	2-CBTF	17.73	180	707489	51.09	ppb		100
88)	Isopropylbenzene	18.00	105	2061780	51.24	ppb		98
89)	Cyclohexanone	18.23	55	273950	286.76	ppb		99
91)	1,1,2,2-Tetrachloroethane	18.49	83	493981	51.58	ppb		99
92)	Trans-1,4-Dichloro-2-buten	18.60	53	86657	36.89	ppb	#	84
93)	1,2,3-Trichloropropane	18.66	110	147466	49.22	ppb		97
94)	n-Propylbenzene	18.82	91	2440935	48.02	ppb		100

(#) = qualifier out of range (m) = manual integration
W0864.D W032315.M Fri Apr 03 15:21:40 2015

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:21 2015 Quant Results File: W032315.RES

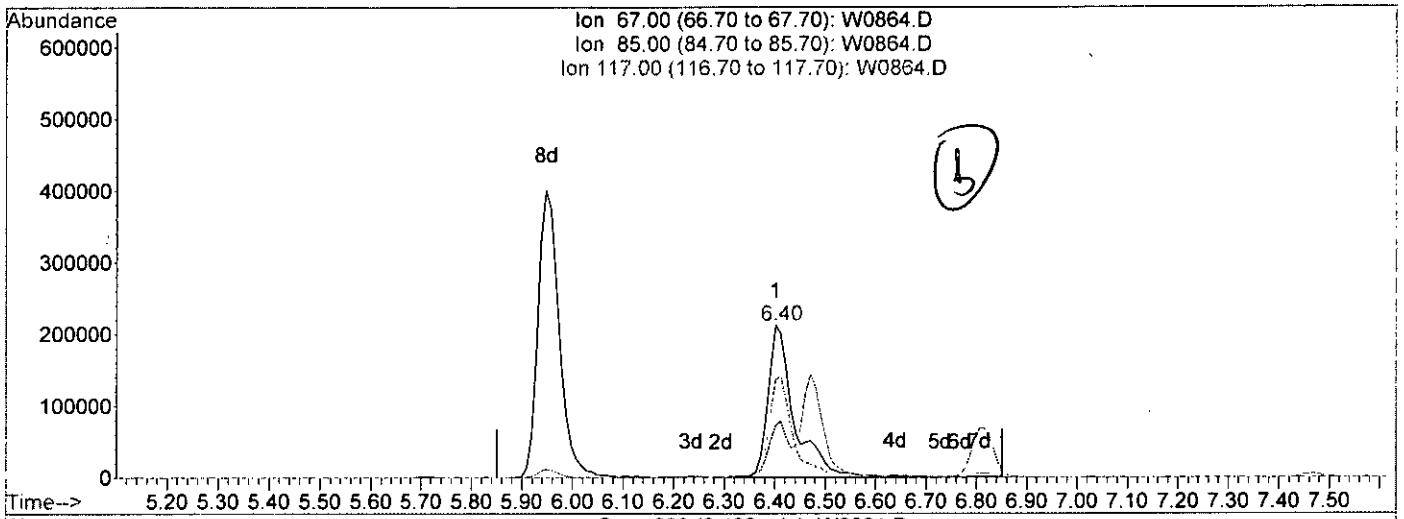
Quant Method : I:\ACQUDATA\M...\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration
DataAcq Meth : W032315

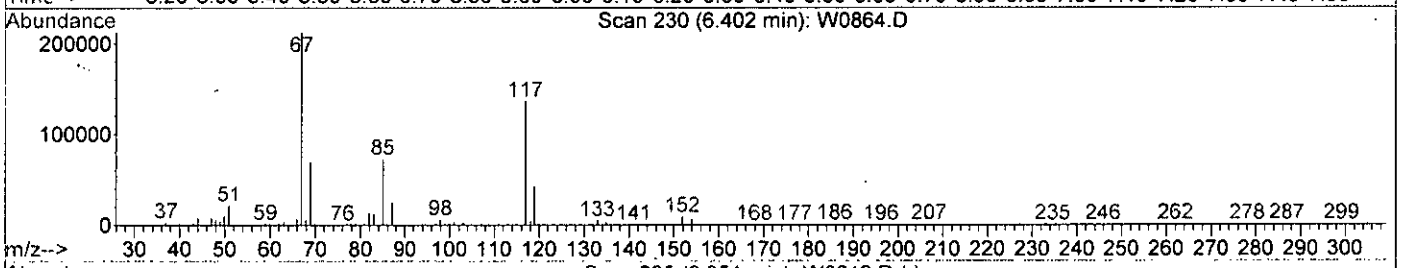
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Bromobenzene	18.72	156	567514	51.05 ppb	92
96)	1,3,5-Trimethylbenzene	19.13	105	1446246	43.77 ppb	96
97)	2-Chlorotoluene	19.08	91	1570200	48.73 ppb	98
98)	3-Chlorotoluene	19.17	91	1537527m	47.80 ppb	
99)	4-Chlorotoluene	19.27	91	1620235	49.70 ppb	99
100)	tert-Butylbenzene	19.85	119	1411580	48.59 ppb	98
101)	1,2,4-Trimethylbenzene	19.93	105	1556572	46.25 ppb	97
102)	3,4-DCBTF	19.98	214	512562	48.86 ppb	98
103)	sec-Butylbenzene	20.30	105	1968472	47.82 ppb	99
104)	p-Isopropyltoluene	20.53	119	1659999	48.40 ppb	99
105)	1,3-Dclbenz	20.58	146	999702	48.82 ppb	99
106)	1,4-Dclbenz	20.74	146	1010048	49.13 ppb	98
107)	2,4-DCBTF	20.71	214	444013	49.67 ppb	96
108)	2,5-DCBTF	20.79	214	503209	48.40 ppb	100
109)	n-Butylbenzene	21.28	91	1514535	47.25 ppb	99
110)	1,2-Dclbenz	21.43	146	962791	49.47 ppb	99
111)	1,2-Dibromo-3-chloropropan	22.87	157	104862	52.15 ppb	94
112)	Trielution Dichlorotoluene	23.15	125	2225851	139.64 ppb	99
114)	1,3,5 Trichlorobenzene	23.30	180	629253	47.63 ppb	100
115)	Coelution Dichlorotoluene	23.98	125	1564797	94.87 ppb	99
116)	1,2,4-Tcbenzene	24.51	180	591201	50.76 ppb	99
117)	Hexachlorobt	24.80	225	232531	49.20 ppb	95
118)	Naphthalen	25.04	128	1262178	50.61 ppb	99
119)	1,2,3-Tclbenzene	25.52	180	497355	50.69 ppb	94
120)	2,4,5-Trichlorotoluene	27.10	159	290888	45.42 ppb	99
121)	2,3,6-Trichlorotoluene	27.38	159	265689	49.31 ppb	99

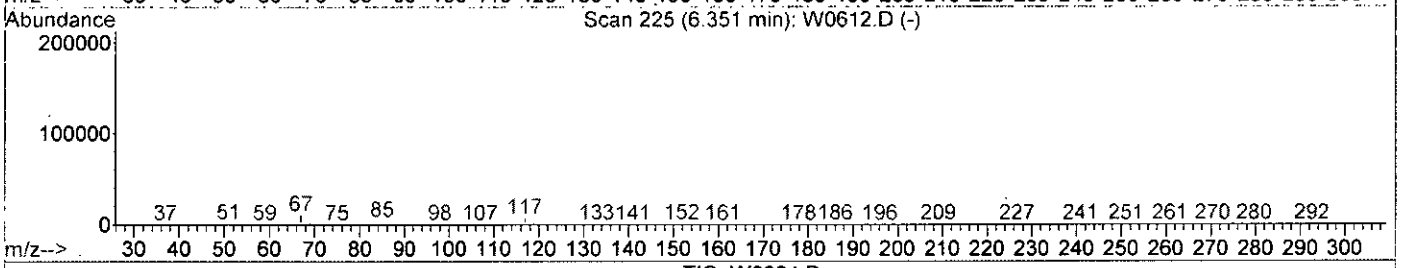
(#) = qualifier out of range (m) = manual integration
W0864.D W032315.M Fri Apr 03 15:21:40 2015

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 2 23:36 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration







TIC: W0864.D

(10) FREON 123A

6.40min 54.91ppb

response 761135

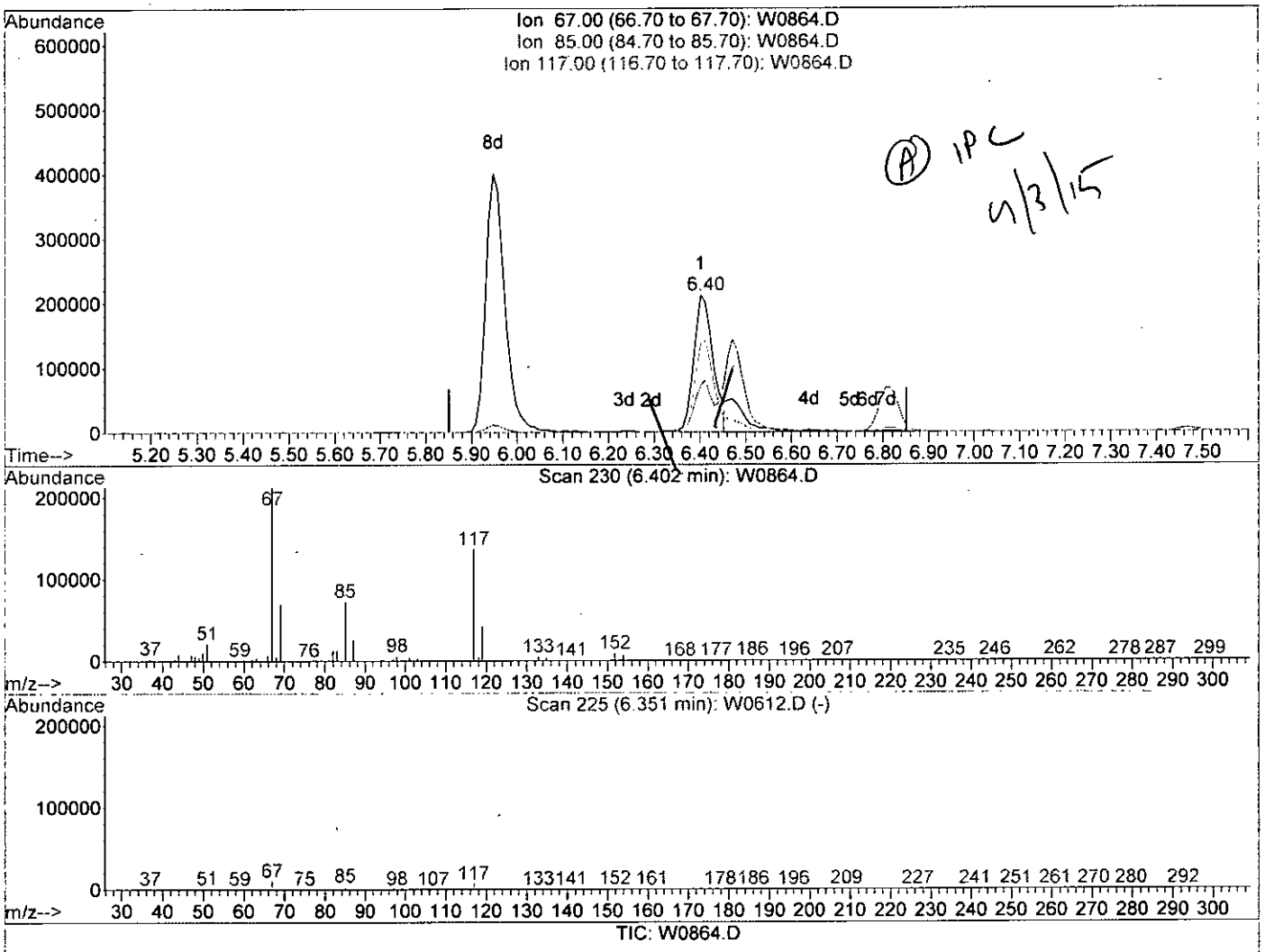
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	34.10
117.00	65.00	64.23
0.00	0.00	0.00

W0864.D W032315.M Fri Apr 03 15:19:29 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:19 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



(A) IPC 5/3/15

(10) FREON 123A

6.40min 44.75ppb m

response 620265

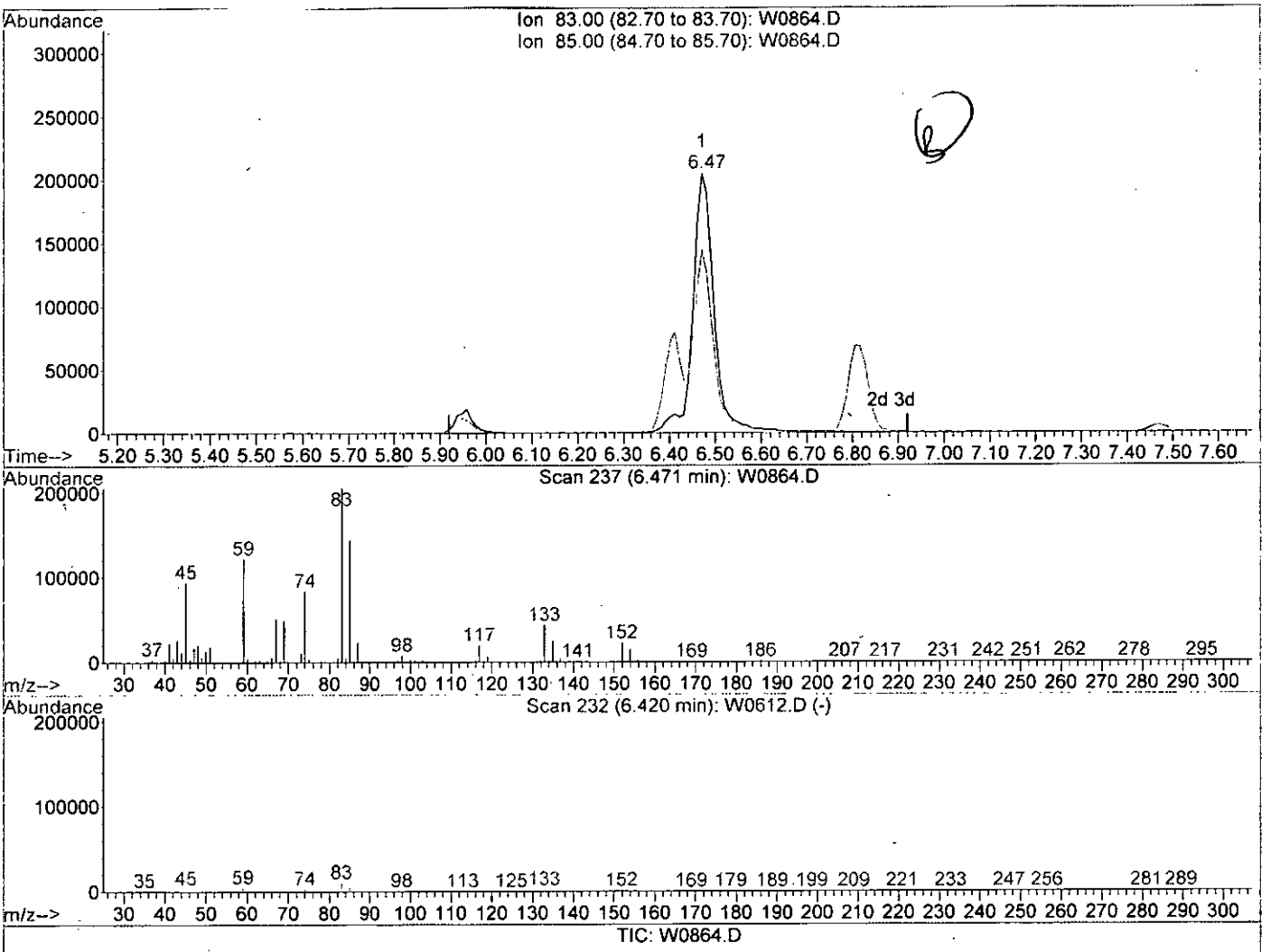
Ion	Exp%	Act%
67.00	100	100
85.00	36.30	34.10
117.00	65.00	64.23
0.00	0.00	0.00

W0864.D W032315.M Fri Apr 03 15:19:46 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:19 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0864.D

(11) FREON 123

6.47min 45.03ppb

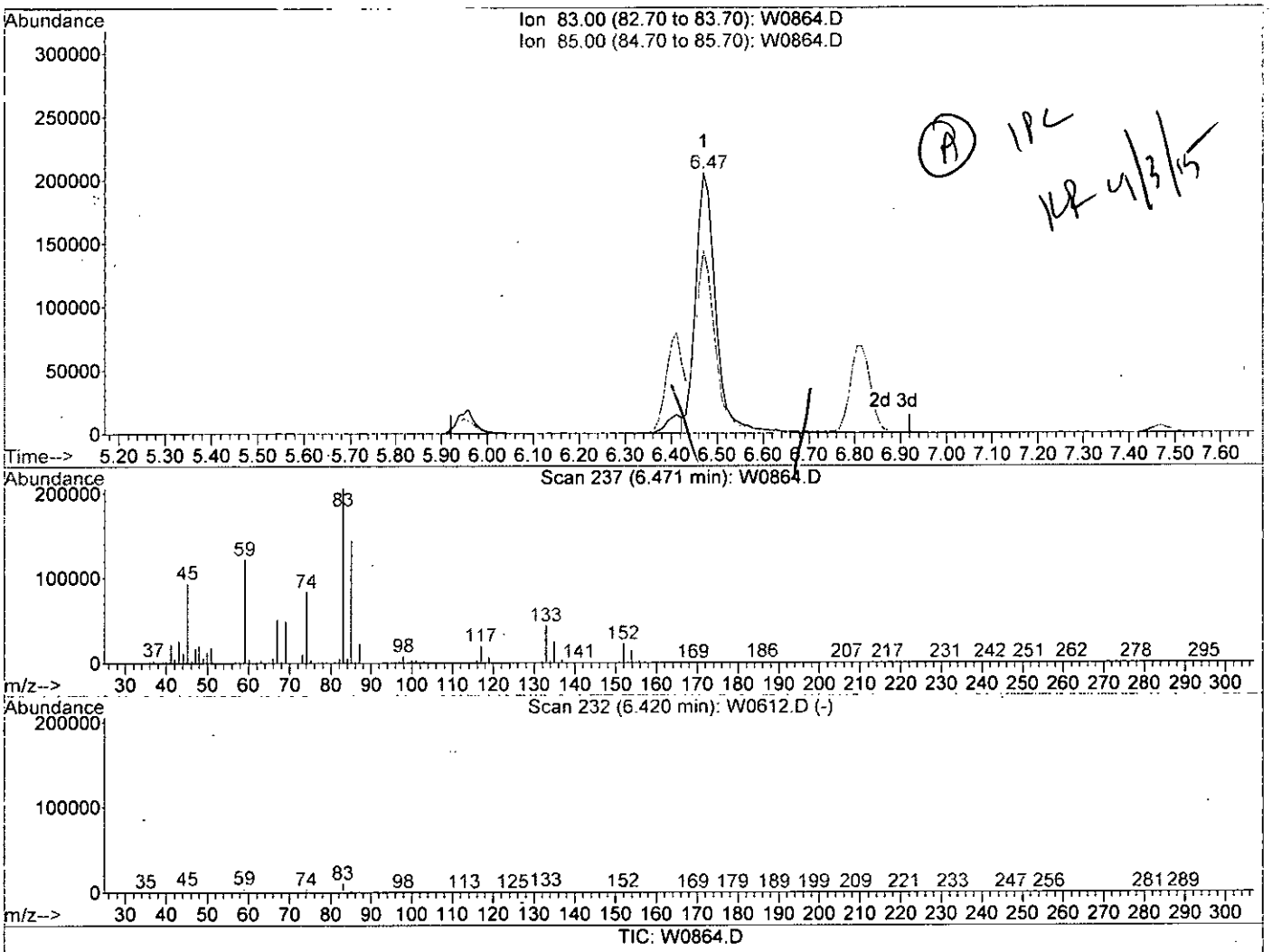
response 656294

Ion	Exp%	Act%
83.00	100	100
85.00	67.80	70.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:19 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0864.D

(11) FREON 123

6.47min 42.71ppb m

response 622471

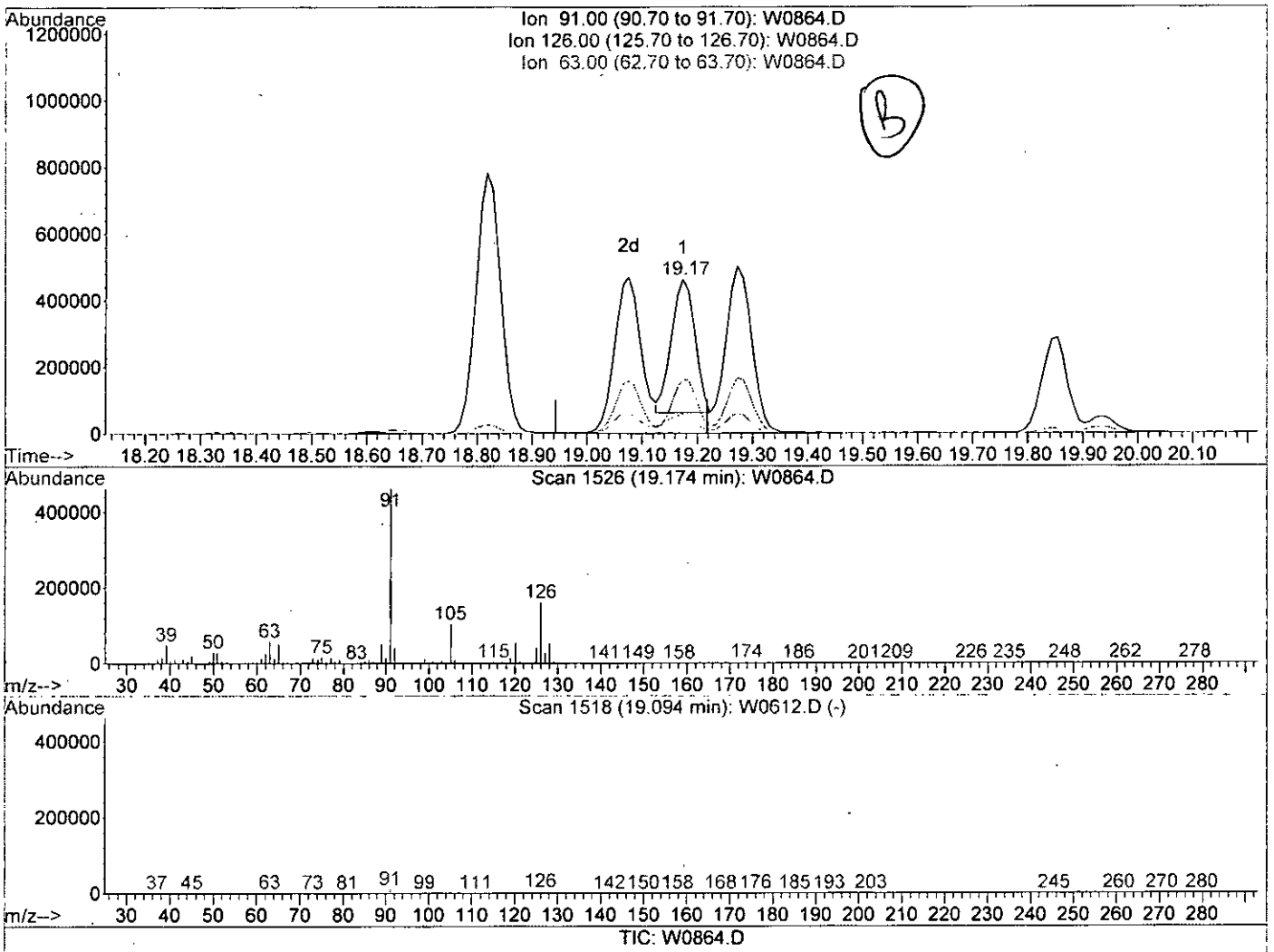
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	70.01
0.00	0.00	0.00
0.00	0.00	0.00

W0864.D W032315.M Fri Apr 03 15:19:59 2015

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:19 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



TIC: W0864.D

(98) 3-Chlorotoluene

19.17min 36.48ppb

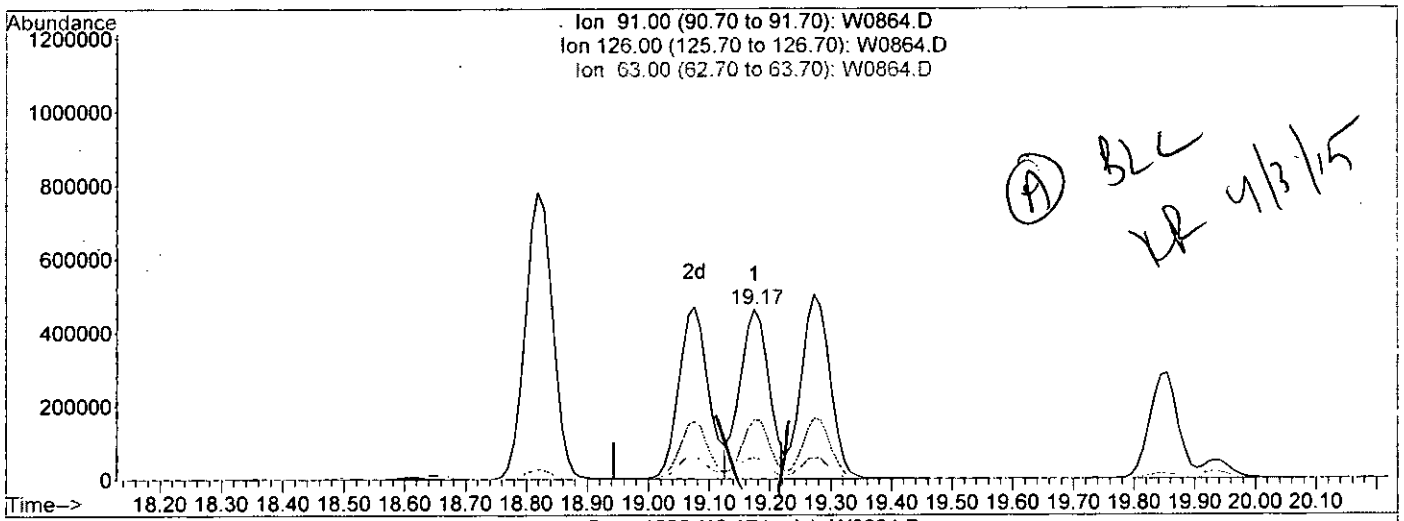
response 1173522

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	35.37#
63.00	12.50	13.76
0.00	0.00	0.00

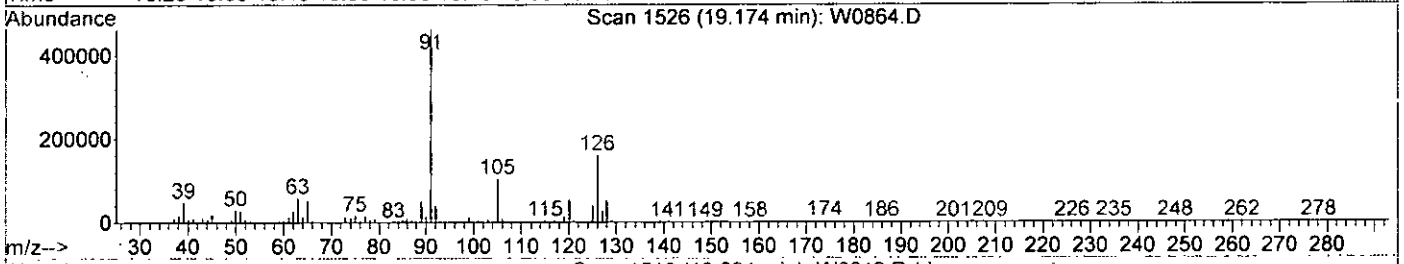
W0864.D W032315.M Fri Apr 03 15:21:06 2015

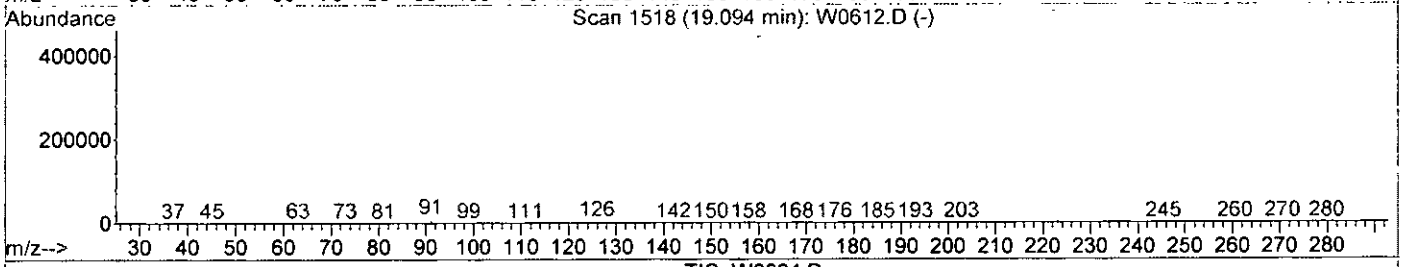
Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:21 2015 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Multiple Level Calibration



BLC LR 4/3/15





TIC: W0864.D

(98) 3-Chlorotoluene

19.17min 47.80ppb m

response 1537527

Ion	Exp%	Act%
91.00	100	100
126.00	27.40	26.99
63.00	12.50	10.50
0.00	0.00	0.00

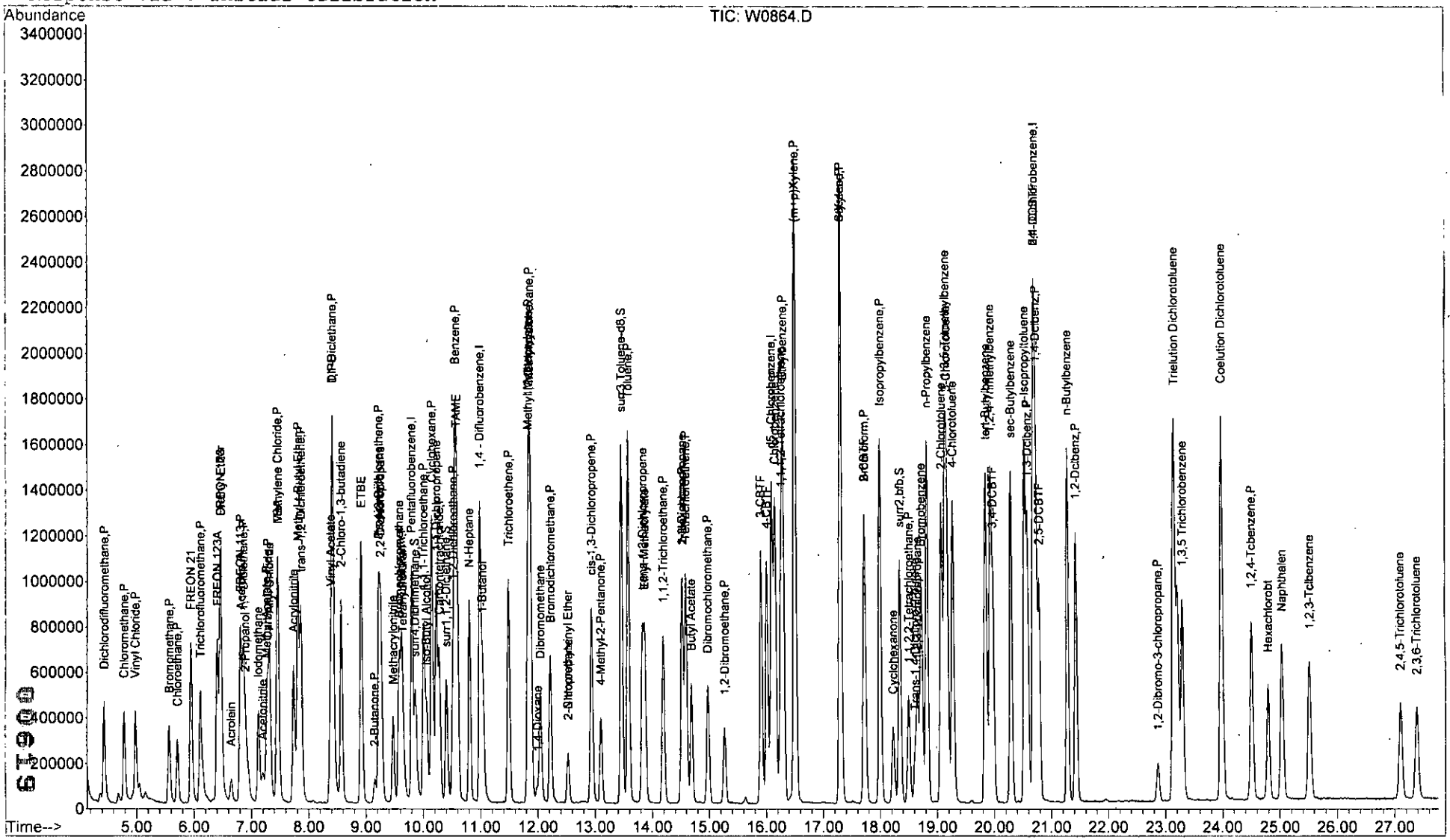
00612

W0864.D W032315.M Fri Apr 03 15:21:13 2015

Quantitation Report

Data File : I:\ACQUDATA\MSVOA7\DATA\040215\W0864.D Vial: 23
Acq On : 2 Apr 2015 11:09 pm Operator: K.Ruest
Sample : R1502204-008DMS|1.0 Inst : MS #7
Misc : PARSONS 11603 T4 *DOD* Multiplr: 1.00
MS Integration Params: INTP2.P
Quant Time: Apr 3 15:21 2015 Quant Results File: W032315.RES

Method : I:\ACQUDATA\MSVOA7\METHODS\W032315.M (RTE Integrator)
Title : 8260C.WATERS
Last Update : Tue Mar 24 11:33:48 2015
Response via : Initial Calibration



W0864.D W032315.M Fri Apr 03 15:21:44 2015 Page 4

Analysis: 8260 waters | Analyst: Y. Priest | Tune Method: T032315
Date: 3/23/15 | Data Path: j:\acqudata\msvoa7\032315 | Run Method: W032315
Instr. 7 | LIMS Run#: -ICAL-

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	CCV test - run me	Meth changed by M. Lyndall;							W0597		
1	↓ spent ccv's								W0598		
21	BLK								W0599		new IS/Su
2	CCV test (fresh prep)								W0600		
3	BLK								W0601		
4	CCV test								W0602		
5	BLK								W0603		
6	DUP								W0604	YT	(auto) 13:30
7	IBLK								W0605	(N)	not - occ cmpds ↓/0
8	↓	5ppm	500ppm SU500						W0606	YB	
9	0.5 ppb	5uL	— —		-bedspike? not				W0607	(N)	8260 water ICAL
10	1.0	10uL	— —		-bedspike not				W0608	(N)	(w/Su cmnd)
11 12	2.0	20uL	— 1mL						W0609	Y	
12 14	5.0	50uL	— 2uL						W0610	Y	
13 15	20	—	2uL 5uL						W0611	Y	
14 16	50	—	5uL —						W0612	Y	
15 17	100	—	10uL 7.5uL						W0613	Y	
16 18	150 (Kenno)	—	15uL 10uL						W0614	Y	
17 19	200	—	20uL —						W0615	Y	
11	0.5	5uL	— —						W0608A	Y	
12	1.0	10uL	— —						W0608B	Y	
20	BLK								W0616	—	
21	↓								W0617	—	

(DD)
YP 3/24/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Primary OCC	79559	Secondary	
Primary HBO	79547	Secondary	
Primary BR	79550	10uL → 50mls = 5 ppb ppm (YP)	Secondary
Primary TO	79585		Secondary
Primary HSL	793562		Secondary

Combined IS/Surr SUD: 79801
Surrogate SUD: 79550
Internal Std:

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Analysis: 8260 Waters | Analyst: K. Ruest | Tune Method: W032315
Date: 4/2/15 | Data Path: j:\acqudata\msvoa71040215 | Run Method: ↓
Instr. 7 | *Switch to filament 2* | LIMS Run#: 438870

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								W0842		
2	↓								W0843		ITEM
3	TUNE (carbon tet/bz)		RQ1503163 -01						W0844	YT	(auto) 11:15
4	CCV		02						W0845	YC	BM↓CE↓CS2↓
5	LCS		03						W0846	YQ	(OK DOD)
6	VBUL		—						W0847	(N)	pt+c/o
7	↓		04						W0848	YB	
8	R1502162-001	1.0		[redacted]	66053	2	2	9	W0849	Y	
9	002	1.0					2	9	W0850	Y	
10	003	1.0					2	9	W0851	Y	
11	004	1.0					2	9	W0852	Y	
12	005	1.0					2	9	W0853	Y	
13	006	1.0					2	9	W0854	Y	
14	007	1.0					1	9	W0855	Y	
15	008	1.0					1	9	W0856	Y	
16	R1502201-001	1.0		[redacted]	11603	4	1	CZ	W0857	Y	
17	002	20	2.5/50mls	[redacted]			1	CZ	W0858	(N)	pt 10
18	003	2.0	25/50mls				1	CZ	W0859	(N)	pt 1.0
19	004	2.5	20/50mls				1	CZ	W0860	(N)	pt 5.0
20	005	1.0					1	CZ	W0861	(N)	pt c/o
21	006	1.0					1	CZ	W0862	Y	
22	MS 006	1.0	RQ1503163 -05				2	CZ	W0863	YQ	
23	↓ MSD 006	1.0	06	↓	↓	↓	3	CZ	W0864	YQ	23:09 ✓
24	HIGH CASES							—	W0865	—	
25	BLK							—	W0866	—	

EOD
KR 4/2/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary HBO : 79747
Primary OCL : 79559
Primary Fr+ : 79550 5uL → 50mls
Primary HXL : 79382 = CCV
Primary TG : 79785

200 Secondary Fr+ : 79552 - 5uL
500 Secondary OCL : 79571
Secondary HBO : 79551 2uL
Secondary HXL : 79620 } 50mls = LCS
Secondary TG : 79784

- 10.6mL Combined IS/Surr 500 : 79933
Surrogate :
4.2mL Internal Std :
42mL vial = MS to

Runlog-MSVOAr2 9/20/13

Analysis: 8260D Waters | Analyst: YPinet | Tune Method: W032315
Date: 4/3/15 | Data Path: j:\acqudata\msvoa7\040315 | Run Method: ↓
Instr. 7 | LIMS Run#: 439004

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
2	TUNE (carbon tet/bz)		R1503202-01						W0882	YT	(auto) 9:56
3	CCV		02						W0883	YC	
4	LCS		03						W0884	YB	
5	VBLK		—						W0885	(N)	wpt c/o
6	↓		↓ 04						W0886	YB	
7	R1502204-005	1.0		[redacted]	11603	4	2	LL	W0887	Y	
8	003	1.0					2	LL	W0888	Y	
9	006	1.0					1	LL	W0889	Y	
10	007	1.0					1	LL	W0890	Y	
11	009	1.0					1	LL	W0891	Y	
12	010	1.0					1	LL	W0892	Y	
13	011	1.0					1	LL	W0893	Y	
14	012	1.0					1	LL	W0894	Y	
15	013	1.0					1	LL	W0895	Y	
16	014	1.0					1	LL	W0896	Y	
17	015	1.0					1	LL	W0897	Y	
18	016	1.0					1	LL	W0898	Y	
19	017	1.0					1	LL	W0899	Y	
20	004	5.0	10/50mls				2	LL	W0900	(Y)	(DL)
21	018	5.0	↓				1	LL	W0901	(N)	wpt 2.5
22	002	10	5/50mls				2	LL	W0902	(N)	wpt 5.0
23	MS 002	10	↓				1	LL	W0903	(N)	(Run QC) overdilute
24	MSD 002	10	↓	↓	↓	↓	2	LL	W0904	(N)	↓ ↓
25	BLK						—	—	W0905		

EOD
KR 4/3/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

500 Primary HBO: 79547
Primary OCL: 79559 — 5ml → 50mls = CCV
Primary Frt: 79550
Primary HSL: 79582
Primary TG: 79585

200 Secondary Frt: 79552 - 5ml
500 Secondary OCL: 79571
Secondary HBO: 79551 — 2mL
Secondary HSL: 79620
Secondary TG: 79584
50mls = LCS

−10.6mL
11.2mL
Combined IS/Surr 500: 79933
Surrogate :
Internal Std :
4.2mL vial = ms/D

Runlog-MSVOAr2 9/20/13

Analysis: 8260 Waters | Analyst: K. Quest | Tune Method: W032315
Date: 4/7/15 | Data Path: j:\acqudata\msvoa7\040715 | Run Method: ↓
Instr. 7 | LIMS Run#: 439385

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								W0906		(new 15/5m)
2	↓								W0907		
3	TUNE (carbon 15/5m)		RQ1503305-01						W0908	YT	(auto) 10:30
4	CCV		↓ 02						W0909	YC	
5	LCS		03						W0910	YQ	
6	VBLK		—						W0911	(N)	apt 4/0
7	↓		↓ 04						W0912	YB	
8	R1502288-001	1.0		[redacted]	6673	2	1	6	W0913	Y	(TB)
9	012	1.0		↓	↓	↓	1	6	W0914	Y	↓
10	↓ 015	1.0		↓	↓	↓	1	6	W0915	Y	
11	R1502424-001	1.0		[redacted]	6693	2	1	12	W0916	Y	
12	R1502201-002	5.0	10/50mls	[redacted]	11603	4	3	12	W0917	Y	
13	↓ 018	2.5	20/50mls	[redacted]	↓	↓	2	12	W0918	Y	
14	R1502288-002	10	5/50mls	[redacted]	6673	2	1	7	W0919	Y	*Foamy
15	003	100	1/100mls	↓	↓		1	8	W0920	(N)	apt+200 (mex)
16	004	50	1/50mls				1	8	W0921	Y	
17	005	50	↓				1	8	W0922	Y	
18	006	50	↓				1	8	W0923	Y	
19	007	100	1/100mls				1	6	W0924	Y	
20	008	10	5/50mls				1	7	W0925	Y	
21	↓ 009	50	1/50mls	↓	↓		1	7	W0926	Y	
22	R1502424-001	1.0	MS RQ1503305-05	[redacted]	6693	2	2	12	W0927	YQ	
23	↓ 001	1.0	MSD ↓ 06	↓	↓	↓	3	12	W0928	YQ	
24	BLK						—	—	W0929	—	

EOD
KPQ 4/7/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

SOD 23

Primary HBO : 79747
Primary OCC : 79559
Primary HSL : 80182 | 5uL → 50mls
Primary fr+ : 79550 | = CCV
Primary TG : 79785

200 Secondary fr+ : 79552 - 5uL
500 Secondary HBO : 79551
Secondary OCC : 79571 | 2uL
Secondary HSL : 79620
↓ Secondary TG : 79784
50mls = LCS

-10.6uL
4.2uL
42mls vial = ms/D

Combined IS/Surr 500 : 80180
Surrogate :
Internal Std :

Runlog-MSVOAr2 9/20/13